
PySpin API Reference

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INTRODUCTION

PySpin is a wrapper for FLIR Integrated Imaging Solutions' Spinnaker library.

FLIR Integrated Imaging Solutions' website is located at <https://www.flir.com/iis/machine-vision/>

The PySpin Python extension provides a common software interface to control and acquire images from FLIR USB 3.0, GigE, and USB 2.0 cameras using the same API.

SOFTWARE LICENSING INFORMATION

Component	License
PySpin	Copyright (c) 2001-2019 FLIR Systems, Inc. All Rights Reserved. This software is the confidential and proprietary information of FLIR Integrated Imaging Solutions, Inc. (“Confidential Information”). You shall not disclose such Confidential Information and shall use it only in accordance with the terms of the license agreement you entered into with FLIR Integrated Imaging Solutions, Inc. (FLIR). FLIR MAKES NO REPRESENTATIONS OR WARRANTIES ABOUT THE SUITABILITY OF THE SOFTWARE, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. FLIR SHALL NOT BE LIABLE FOR ANY DAMAGES SUFFERED BY LICENSEE AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THIS SOFTWARE OR ITS DERIVATIVES.
GenICam	GenICam License http://www.emva.org/wp-content/uploads/GenICam_License_20140921.pdf
AdapterList	The Code Project Open License (CPOL) http://www.codeproject.com/info/cpol10.aspx
Boost	Boost Software License http://www.boost.org/users/license.html
FFMPEG	LGPLv2.1 License https://www.ffmpeg.org/legal.html
FreeImage	FreeImage public license http://freeimage.sourceforge.net/freeimage-license.txt
Libusb	LGPLv2. License http://www.gnu.org/licenses/old-licenses/lgpl-2.1.txt
Libraw394	LGPLv2.0 License http://www.gnu.org/licenses/old-licenses/lgpl-2.0.txt
log4Net	Apache license 2.0 https://logging.apache.org/log4net/license.html
log4Cpp	LGPL License http://log4cpp.sourceforge.net/#license
Work with Bitmaps Faster in C#	The Code Project Open License (CPOL) 1.02 http://www.codeproject.com/info/cpol10.aspx
GUI ListView Improvements	WP:CC_BY-SA License https://goo.gl/a9I9yA

EVENT CLASSES

- *PySpin.ArrivalEvent*
- *PySpin.DeviceEvent*
- *PySpin.Event*
- *PySpin.ImageEvent*
- *PySpin.InterfaceEvent*
- *PySpin.LoggingEvent*
- *PySpin.LoggingEventDataPtr*
- *PySpin.RemovalEvent*

3.1 PySpin.ArrivalEvent

class `PySpin.ArrivalEvent`

An event handler for capturing the device arrival event.

C++ includes: `ArrivalEvent.h`

OnDeviceArrival (*self*, *serialNumber*)

Parameters `serialNumber` (`uint64_t`) –

`virtual void Spinnaker::ArrivalEvent::OnDeviceArrival(uint64_t serialNumber)=0`

Callback to the device arrival event.

thisown

The membership flag

3.2 PySpin.DeviceEvent

class `PySpin.DeviceEvent`

A handler to device events.

C++ includes: `DeviceEvent.h`

GetDeviceEventId (*self*) → `uint64_t`

Parameters **self** (*Spinnaker::DeviceEvent const **) –
uint64_t Spinnaker::DeviceEvent::GetDeviceEventId() const
Get the ID of the device event.
The device event ID

GetDeviceEventName (*self*) → gcstring
Parameters **self** (*Spinnaker::DeviceEvent const **) –
GenICam::gcstring Spinnaker::DeviceEvent::GetDeviceEventName() const
Get the name of the device event.
The device event name

OnDeviceEvent (*self, eventName*)
Parameters **eventName** (*Spinnaker::GenICam::gcstring*) –
virtual void Spinnaker::DeviceEvent::OnDeviceEvent(Spinnaker::GenICam::gcstring eventName)=0
Device event callback.
eventName: The name of the event

thisown
The membership flag

3.3 PySpin.Event

class PySpin.**Event** (**args, **kwargs*)
The base class for all event types.
C++ includes: Event.h

GetEventPayloadData (*self*) → PyObject *
Parameters **self** (*Spinnaker::Event **) –
const uint8_t* Spinnaker::Event::GetEventPayloadData()
Gets the event payload data
The event payload data

GetEventPayloadDataSize (*self*) → size_t const
Parameters **self** (*Spinnaker::Event **) –
const size_t Spinnaker::Event::GetEventPayloadDataSize()
Gets the event payload data size
The event payload data size

GetEventType (*self*) → Spinnaker::EventType
Parameters **self** (*Spinnaker::Event **) –
EventType Spinnaker::Event::GetEventType()
Gets the event type
The event type

SetEventType (*self, eventType*)

Parameters **eventType** (*enum Spinnaker::EventType*) –

void Spinnaker::Event::SetEventType(EventType eventType)

Sets the event type

eventType: The event type

thisown

The membership flag

3.4 PySpin.ImageEvent

class PySpin.**ImageEvent**

A handler for capturing image arrival events.

C++ includes: ImageEvent.h

OnImageEvent (*self, image*)

Parameters **image** (*Spinnaker::ImagePtr*) –

virtual void Spinnaker::ImageEvent::OnImageEvent(ImagePtr image)=0

Image event callback

image: The ImagePtr object

thisown

The membership flag

3.5 PySpin.InterfaceEvent

class PySpin.**InterfaceEvent**

A handler to device arrival and removal events on all interfaces.

C++ includes: InterfaceEvent.h

OnDeviceArrival (*self, serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

virtual void Spinnaker::InterfaceEvent::OnDeviceArrival(uint64_t serialNumber)=0

Device arrival event callback.

OnDeviceRemoval (*self, serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

virtual void Spinnaker::InterfaceEvent::OnDeviceRemoval(uint64_t serialNumber)=0

Callback to the device removal event.

serialNumber: The serial number of the removed device

thisown

The membership flag

3.6 PySpin.LoggingEvent

class `PySpin.LoggingEvent`

An event handler for capturing the device logging event.

C++ includes: `LoggingEvent.h`

OnLogEvent (*self, eventPtr*)

Parameters **eventPtr** (*Spinnaker::LoggingEventDataPtr*) –

virtual void `Spinnaker::LoggingEvent::OnLogEvent(LoggingEventDataPtr eventPtr)=0`

The callback for the log event.

eventPtr: The logging event pointer

thisown

The membership flag

3.7 PySpin.LoggingEventDataPtr

class `PySpin.LoggingEventDataPtr` (*args)

A reference tracked pointer to the `LoggingEvent` object.

C++ includes: `LoggingEventDataPtr.h`

thisown

The membership flag

3.8 PySpin.RemovalEvent

class `PySpin.RemovalEvent`

An event handler for capturing the device removal event.

C++ includes: `RemovalEvent.h`

OnDeviceRemoval (*self, serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

virtual void `Spinnaker::RemovalEvent::OnDeviceRemoval(uint64_t serialNumber)=0`

Device removal event callback.

serialNumber: The serial number of the device removed

thisown

The membership flag

PYSPIN CLASSES

- *PySpin.AVIRecorder*
- *PySpin.BasePtr*
- *PySpin.Camera*
- *PySpin.CameraBase*
- *PySpin.CameraDefs*
- *PySpin.CameraList*
- *PySpin.CameraPtr*
- *PySpin.ChunkData*
- *PySpin.Exception*
- *PySpin.Image*
- *PySpin.ImagePtr*
- *PySpin.ImageStatistics*
- *PySpin.Interface*
- *PySpin.InterfaceList*
- *PySpin.InterfacePtr*
- *PySpin.System*
- *PySpin.SystemPtr*

4.1 PySpin.AVIRecorder

class `PySpin.ArrivalEvent`

An event handler for capturing the device arrival event.

C++ includes: `ArrivalEvent.h`

OnDeviceArrival (*self*, *serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

virtual void Spinnaker::ArrivalEvent::OnDeviceArrival(uint64_t serialNumber)=0

Callback to the device arrival event.

thisown

The membership flag

4.2 PySpin.BasePtr

4.3 PySpin.Camera

class PySpin.Camera (*args, **kwargs)

The camera object class.

C++ includes: Camera.h

AasRoiEnable

Camera_AasRoiEnable_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -

AasRoiHeight

Camera_AasRoiHeight_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

AasRoiOffsetX

Camera_AasRoiOffsetX_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

AasRoiOffsetY

Camera_AasRoiOffsetY_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

AasRoiWidth

Camera_AasRoiWidth_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

AcquisitionAbort

Camera_AcquisitionAbort_get(self) -> ICommand

Parameters self (Spinnaker::Camera *) -

AcquisitionArm

Camera_AcquisitionArm_get(self) -> ICommand

Parameters self (Spinnaker::Camera *) -

AcquisitionBurstFrameCount

Camera_AcquisitionBurstFrameCount_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

AcquisitionFrameCount

Camera_AcquisitionFrameCount_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

AcquisitionFrameRate

Camera_AcquisitionFrameRate_get(self) -> IFloat

```

    Parameters self (Spinnaker::Camera *) -
AcquisitionFrameRateEnable
    Camera_AcquisitionFrameRateEnable_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
AcquisitionLineRate
    Camera_AcquisitionLineRate_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AcquisitionMode
    Camera_AcquisitionMode_get(self) -> IEnumerationT_AcquisitionModeEnums
    Parameters self (Spinnaker::Camera *) -
AcquisitionResultingFrameRate
    Camera_AcquisitionResultingFrameRate_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AcquisitionStart
    Camera_AcquisitionStart_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
AcquisitionStatus
    Camera_AcquisitionStatus_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
AcquisitionStatusSelector
    Camera_AcquisitionStatusSelector_get(self) -> IEnumerationT_AcquisitionStatusSelectorEnums
    Parameters self (Spinnaker::Camera *) -
AcquisitionStop
    Camera_AcquisitionStop_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
ActionDeviceKey
    Camera_ActionDeviceKey_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ActionGroupKey
    Camera_ActionGroupKey_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ActionGroupMask
    Camera_ActionGroupMask_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ActionQueueSize
    Camera_ActionQueueSize_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ActionSelector
    Camera_ActionSelector_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

```

ActionUnconditionalMode

Camera_ActionUnconditionalMode_get(self) -> IEnumerationT_ActionUnconditionalModeEnums

Parameters self (Spinnaker::Camera *) -**AdcBitDepth**

Camera_AdcBitDepth_get(self) -> IEnumerationT_AdcBitDepthEnums

Parameters self (Spinnaker::Camera *) -**AutoAlgorithmSelector**

Camera_AutoAlgorithmSelector_get(self) -> IEnumerationT_AutoAlgorithmSelectorEnums

Parameters self (Spinnaker::Camera *) -**AutoExposureControlLoopDamping**

Camera_AutoExposureControlLoopDamping_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**AutoExposureControlPriority**

Camera_AutoExposureControlPriority_get(self) -> IEnumerationT_AutoExposureControlPriorityEnums

Parameters self (Spinnaker::Camera *) -**AutoExposureEVCompensation**

Camera_AutoExposureEVCompensation_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**AutoExposureExposureTimeLowerLimit**

Camera_AutoExposureExposureTimeLowerLimit_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**AutoExposureExposureTimeUpperLimit**

Camera_AutoExposureExposureTimeUpperLimit_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**AutoExposureGainLowerLimit**

Camera_AutoExposureGainLowerLimit_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**AutoExposureGainUpperLimit**

Camera_AutoExposureGainUpperLimit_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**AutoExposureGreyValueLowerLimit**

Camera_AutoExposureGreyValueLowerLimit_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**AutoExposureGreyValueUpperLimit**

Camera_AutoExposureGreyValueUpperLimit_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**AutoExposureLightingMode**

Camera_AutoExposureLightingMode_get(self) -> IEnumerationT_AutoExposureLightingModeEnums

Parameters self (Spinnaker::Camera *) -**AutoExposureMeteringMode**

Camera_AutoExposureMeteringMode_get(self) -> IEnumerationT_AutoExposureMeteringModeEnums

```

    Parameters self (Spinnaker::Camera *) –

AutoExposureTargetGreyValue
    Camera_AutoExposureTargetGreyValue_get(self) -> IFloat

    Parameters self (Spinnaker::Camera *) –

AutoExposureTargetGreyValueAuto
    Camera_AutoExposureTargetGreyValueAuto_get(self) -> IEnumerationT_AutoExposureTargetGreyValueAutoEnums

    Parameters self (Spinnaker::Camera *) –

BalanceRatio
    Camera_BalanceRatio_get(self) -> IFloat

    Parameters self (Spinnaker::Camera *) –

BalanceRatioSelector
    Camera_BalanceRatioSelector_get(self) -> IEnumerationT_BalanceRatioSelectorEnums

    Parameters self (Spinnaker::Camera *) –

BalanceWhiteAuto
    Camera_BalanceWhiteAuto_get(self) -> IEnumerationT_BalanceWhiteAutoEnums

    Parameters self (Spinnaker::Camera *) –

BalanceWhiteAutoDamping
    Camera_BalanceWhiteAutoDamping_get(self) -> IFloat

    Parameters self (Spinnaker::Camera *) –

BalanceWhiteAutoLowerLimit
    Camera_BalanceWhiteAutoLowerLimit_get(self) -> IFloat

    Parameters self (Spinnaker::Camera *) –

BalanceWhiteAutoProfile
    Camera_BalanceWhiteAutoProfile_get(self) -> IEnumerationT_BalanceWhiteAutoProfileEnums

    Parameters self (Spinnaker::Camera *) –

BalanceWhiteAutoUpperLimit
    Camera_BalanceWhiteAutoUpperLimit_get(self) -> IFloat

    Parameters self (Spinnaker::Camera *) –

BinningHorizontal
    Camera_BinningHorizontal_get(self) -> IInteger

    Parameters self (Spinnaker::Camera *) –

BinningHorizontalMode
    Camera_BinningHorizontalMode_get(self) -> IEnumerationT_BinningHorizontalModeEnums

    Parameters self (Spinnaker::Camera *) –

BinningSelector
    Camera_BinningSelector_get(self) -> IEnumerationT_BinningSelectorEnums

    Parameters self (Spinnaker::Camera *) –

BinningVertical
    Camera_BinningVertical_get(self) -> IInteger

    Parameters self (Spinnaker::Camera *) –

```

BinningVerticalMode

Camera_BinningVerticalMode_get(self) -> IEnumerationT_BinningVerticalModeEnums

Parameters self (Spinnaker::Camera *) -**BlackLevel**

Camera_BlackLevel_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**BlackLevelAuto**

Camera_BlackLevelAuto_get(self) -> IEnumerationT_BlackLevelAutoEnums

Parameters self (Spinnaker::Camera *) -**BlackLevelAutoBalance**

Camera_BlackLevelAutoBalance_get(self) -> IEnumerationT_BlackLevelAutoBalanceEnums

Parameters self (Spinnaker::Camera *) -**BlackLevelClampingEnable**

Camera_BlackLevelClampingEnable_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**BlackLevelRaw**

Camera_BlackLevelRaw_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**BlackLevelSelector**

Camera_BlackLevelSelector_get(self) -> IEnumerationT_BlackLevelSelectorEnums

Parameters self (Spinnaker::Camera *) -**BsiFlatFieldCorrectionAuto**

Camera_BsiFlatFieldCorrectionAuto_get(self) -> IEnumerationT_BsiFlatFieldCorrectionAutoEnums

Parameters self (Spinnaker::Camera *) -**BsiFlatFieldCorrectionAutoDamping**

Camera_BsiFlatFieldCorrectionAutoDamping_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**BsiFlatFieldCorrectionEnable**

Camera_BsiFlatFieldCorrectionEnable_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**BsiFlatFieldCorrectionGain**

Camera_BsiFlatFieldCorrectionGain_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**BsiFlatFieldCorrectionGainSelector**

Camera_BsiFlatFieldCorrectionGainSelector_get(self) -> IEnumerationT_BsiFlatFieldCorrectionGainSelectorEnums

Parameters self (Spinnaker::Camera *) -**ChunkBlackLevel**

Camera_ChunkBlackLevel_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**ChunkBlackLevelSelector**

Camera_ChunkBlackLevelSelector_get(self) -> IEnumerationT_ChunkBlackLevelSelectorEnums

```

    Parameters self (Spinnaker::Camera *) –

ChunkCRC
    Camera_ChunkCRC_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

ChunkCounterSelector
    Camera_ChunkCounterSelector_get(self) -> IEnumerationT_ChunkCounterSelectorEnums
    Parameters self (Spinnaker::Camera *) –

ChunkCounterValue
    Camera_ChunkCounterValue_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

ChunkEnable
    Camera_ChunkEnable_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) –

ChunkEncoderSelector
    Camera_ChunkEncoderSelector_get(self) -> IEnumerationT_ChunkEncoderSelectorEnums
    Parameters self (Spinnaker::Camera *) –

ChunkEncoderStatus
    Camera_ChunkEncoderStatus_get(self) -> IEnumerationT_ChunkEncoderStatusEnums
    Parameters self (Spinnaker::Camera *) –

ChunkEncoderValue
    Camera_ChunkEncoderValue_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

ChunkExposureEndLineStatusAll
    Camera_ChunkExposureEndLineStatusAll_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

ChunkExposureTime
    Camera_ChunkExposureTime_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) –

ChunkExposureTimeSelector
    Camera_ChunkExposureTimeSelector_get(self) -> IEnumerationT_ChunkExposureTimeSelectorEnums
    Parameters self (Spinnaker::Camera *) –

ChunkFrameID
    Camera_ChunkFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

ChunkGain
    Camera_ChunkGain_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) –

ChunkGainSelector
    Camera_ChunkGainSelector_get(self) -> IEnumerationT_ChunkGainSelectorEnums
    Parameters self (Spinnaker::Camera *) –

```

ChunkHeight

Camera_ChunkHeight_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkImage**

Camera_ChunkImage_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkImageComponent**

Camera_ChunkImageComponent_get(self) -> IEnumerationT_ChunkImageComponentEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkLinePitch**

Camera_ChunkLinePitch_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkLineStatusAll**

Camera_ChunkLineStatusAll_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkModeActive**

Camera_ChunkModeActive_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**ChunkOffsetX**

Camera_ChunkOffsetX_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkOffsetY**

Camera_ChunkOffsetY_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkPartSelector**

Camera_ChunkPartSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkPixelDynamicRangeMax**

Camera_ChunkPixelDynamicRangeMax_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkPixelDynamicRangeMin**

Camera_ChunkPixelDynamicRangeMin_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkPixelFormat**

Camera_ChunkPixelFormat_get(self) -> IEnumerationT_ChunkPixelFormatEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkRegionID**

Camera_ChunkRegionID_get(self) -> IEnumerationT_ChunkRegionIDEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkScan3dAxisMax**

Camera_ChunkScan3dAxisMax_get(self) -> IFloat

```

    Parameters self (Spinnaker::Camera *) -
ChunkScan3dAxisMin
    Camera_ChunkScan3dAxisMin_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateOffset
    Camera_ChunkScan3dCoordinateOffset_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateReferenceSelector
    Camera_ChunkScan3dCoordinateReferenceSelector_get(self) -> IEnumera-
    tionT_ChunkScan3dCoordinateReferenceSelectorEnums
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateReferenceValue
    Camera_ChunkScan3dCoordinateReferenceValue_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateScale
    Camera_ChunkScan3dCoordinateScale_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateSelector
    Camera_ChunkScan3dCoordinateSelector_get(self) -> IEnumerationT_ChunkScan3dCoordinateSelectorEnums
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateSystem
    Camera_ChunkScan3dCoordinateSystem_get(self) -> IEnumerationT_ChunkScan3dCoordinateSystemEnums
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateSystemReference
    Camera_ChunkScan3dCoordinateSystemReference_get(self) -> IEnumera-
    tionT_ChunkScan3dCoordinateSystemReferenceEnums
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateTransformSelector
    Camera_ChunkScan3dCoordinateTransformSelector_get(self) -> IEnumera-
    tionT_ChunkScan3dCoordinateTransformSelectorEnums
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dDistanceUnit
    Camera_ChunkScan3dDistanceUnit_get(self) -> IEnumerationT_ChunkScan3dDistanceUnitEnums
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dInvalidDataFlag
    Camera_ChunkScan3dInvalidDataFlag_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dInvalidDataValue
    Camera_ChunkScan3dInvalidDataValue_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -

```

ChunkScan3dOutputMode

Camera_ChunkScan3dOutputMode_get(self) -> IEnumerationT_ChunkScan3dOutputModeEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkScan3dTransformValue**

Camera_ChunkScan3dTransformValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**ChunkScanLineSelector**

Camera_ChunkScanLineSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkSelector**

Camera_ChunkSelector_get(self) -> IEnumerationT_ChunkSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkSequencerSetActive**

Camera_ChunkSequencerSetActive_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkSerialData**

Camera_ChunkSerialData_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) -**ChunkSerialDataLength**

Camera_ChunkSerialDataLength_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkSerialReceiveOverflow**

Camera_ChunkSerialReceiveOverflow_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**ChunkSourceID**

Camera_ChunkSourceID_get(self) -> IEnumerationT_ChunkSourceIDEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkStreamChannelID**

Camera_ChunkStreamChannelID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkTimerSelector**

Camera_ChunkTimerSelector_get(self) -> IEnumerationT_ChunkTimerSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkTimerValue**

Camera_ChunkTimerValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**ChunkTimestamp**

Camera_ChunkTimestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkTimestampLatchValue**

Camera_ChunkTimestampLatchValue_get(self) -> IInteger

```

    Parameters self (Spinnaker::Camera *) -

ChunkTransferBlockID
    Camera_ChunkTransferBlockID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

ChunkTransferQueueCurrentBlockCount
    Camera_ChunkTransferQueueCurrentBlockCount_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

ChunkTransferStreamID
    Camera_ChunkTransferStreamID_get(self) -> IEnumerationT_ChunkTransferStreamIDEnums
    Parameters self (Spinnaker::Camera *) -

ChunkWidth
    Camera_ChunkWidth_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

ClConfiguration
    Camera_ClConfiguration_get(self) -> IEnumerationT_ClConfigurationEnums
    Parameters self (Spinnaker::Camera *) -

ClTimeSlotsCount
    Camera_ClTimeSlotsCount_get(self) -> IEnumerationT_ClTimeSlotsCountEnums
    Parameters self (Spinnaker::Camera *) -

ColorTransformationEnable
    Camera_ColorTransformationEnable_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -

ColorTransformationSelector
    Camera_ColorTransformationSelector_get(self) -> IEnumerationT_ColorTransformationSelectorEnums
    Parameters self (Spinnaker::Camera *) -

ColorTransformationValue
    Camera_ColorTransformationValue_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -

ColorTransformationValueSelector
    Camera_ColorTransformationValueSelector_get(self) -> IEnumerationT_ColorTransformationValueSelectorEnums
    Parameters self (Spinnaker::Camera *) -

CounterDelay
    Camera_CounterDelay_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

CounterDuration
    Camera_CounterDuration_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

CounterEventActivation
    Camera_CounterEventActivation_get(self) -> IEnumerationT_CounterEventActivationEnums
    Parameters self (Spinnaker::Camera *) -

```

CounterEventSource

Camera_CounterEventSource_get(self) -> IEnumerationT_CounterEventSourceEnums

Parameters **self** (*Spinnaker::Camera **) -**CounterReset**

Camera_CounterReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**CounterResetActivation**

Camera_CounterResetActivation_get(self) -> IEnumerationT_CounterResetActivationEnums

Parameters **self** (*Spinnaker::Camera **) -**CounterResetSource**

Camera_CounterResetSource_get(self) -> IEnumerationT_CounterResetSourceEnums

Parameters **self** (*Spinnaker::Camera **) -**CounterSelector**

Camera_CounterSelector_get(self) -> IEnumerationT_CounterSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**CounterStatus**

Camera_CounterStatus_get(self) -> IEnumerationT_CounterStatusEnums

Parameters **self** (*Spinnaker::Camera **) -**CounterTriggerActivation**

Camera_CounterTriggerActivation_get(self) -> IEnumerationT_CounterTriggerActivationEnums

Parameters **self** (*Spinnaker::Camera **) -**CounterTriggerSource**

Camera_CounterTriggerSource_get(self) -> IEnumerationT_CounterTriggerSourceEnums

Parameters **self** (*Spinnaker::Camera **) -**CounterValue**

Camera_CounterValue_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**CounterValueAtReset**

Camera_CounterValueAtReset_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**CxpConnectionSelector**

Camera_CxpConnectionSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**CxpConnectionTestErrorCount**

Camera_CxpConnectionTestErrorCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**CxpConnectionTestMode**

Camera_CxpConnectionTestMode_get(self) -> IEnumerationT_CxpConnectionTestModeEnums

Parameters **self** (*Spinnaker::Camera **) -**CxpConnectionTestPacketCount**

Camera_CxpConnectionTestPacketCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

CxpLinkConfiguration
 Camera_CxpLinkConfiguration_get(self) -> IEnumerationT_CxpLinkConfigurationEnums
Parameters **self** (*Spinnaker::Camera **) –

CxpLinkConfigurationPreferred
 Camera_CxpLinkConfigurationPreferred_get(self) -> IEnumerationT_CxpLinkConfigurationPreferredEnums
Parameters **self** (*Spinnaker::Camera **) –

CxpLinkConfigurationStatus
 Camera_CxpLinkConfigurationStatus_get(self) -> IEnumerationT_CxpLinkConfigurationStatusEnums
Parameters **self** (*Spinnaker::Camera **) –

CxpPoCxpAuto
 Camera_CxpPoCxpAuto_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

CxpPoCxpStatus
 Camera_CxpPoCxpStatus_get(self) -> IEnumerationT_CxpPoCxpStatusEnums
Parameters **self** (*Spinnaker::Camera **) –

CxpPoCxpTripReset
 Camera_CxpPoCxpTripReset_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

CxpPoCxpTurnOff
 Camera_CxpPoCxpTurnOff_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

DecimationHorizontal
 Camera_DecimationHorizontal_get(self) -> Integer
Parameters **self** (*Spinnaker::Camera **) –

DecimationHorizontalMode
 Camera_DecimationHorizontalMode_get(self) -> IEnumerationT_DecimationHorizontalModeEnums
Parameters **self** (*Spinnaker::Camera **) –

DecimationSelector
 Camera_DecimationSelector_get(self) -> IEnumerationT_DecimationSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

DecimationVertical
 Camera_DecimationVertical_get(self) -> Integer
Parameters **self** (*Spinnaker::Camera **) –

DecimationVerticalMode
 Camera_DecimationVerticalMode_get(self) -> IEnumerationT_DecimationVerticalModeEnums
Parameters **self** (*Spinnaker::Camera **) –

DefectTableApply
 Camera_DefectTableApply_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

DefectTableCoordinateX

Camera_DefectTableCoordinateX_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DefectTableCoordinateY**

Camera_DefectTableCoordinateY_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DefectTableFactoryRestore**

Camera_DefectTableFactoryRestore_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**DefectTableIndex**

Camera_DefectTableIndex_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DefectTablePixelCount**

Camera_DefectTablePixelCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DefectTableSave**

Camera_DefectTableSave_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**Deinterlacing**

Camera_Deinterlacing_get(self) -> IEnumerationT_DeinterlacingEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceCharacterSet**

Camera_DeviceCharacterSet_get(self) -> IEnumerationT_DeviceCharacterSetEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceClockFrequency**

Camera_DeviceClockFrequency_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**DeviceClockSelector**

Camera_DeviceClockSelector_get(self) -> IEnumerationT_DeviceClockSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceConnectionSelector**

Camera_DeviceConnectionSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceConnectionSpeed**

Camera_DeviceConnectionSpeed_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceConnectionStatus**

Camera_DeviceConnectionStatus_get(self) -> IEnumerationT_DeviceConnectionStatusEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceEventChannelCount**

Camera_DeviceEventChannelCount_get(self) -> IInteger

```

    Parameters self (Spinnaker::Camera *) –

DeviceFamilyName
    Camera_DeviceFamilyName_get(self) -> IString
    Parameters self (Spinnaker::Camera *) –

DeviceFeaturePersistenceEnd
    Camera_DeviceFeaturePersistenceEnd_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) –

DeviceFeaturePersistenceStart
    Camera_DeviceFeaturePersistenceStart_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) –

DeviceFirmwareVersion
    Camera_DeviceFirmwareVersion_get(self) -> IString
    Parameters self (Spinnaker::Camera *) –

DeviceGenCPVersionMajor
    Camera_DeviceGenCPVersionMajor_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

DeviceGenCPVersionMinor
    Camera_DeviceGenCPVersionMinor_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

DeviceID
    Camera_DeviceID_get(self) -> IString
    Parameters self (Spinnaker::Camera *) –

DeviceIndicatorMode
    Camera_DeviceIndicatorMode_get(self) -> IEnumerationT_DeviceIndicatorModeEnums
    Parameters self (Spinnaker::Camera *) –

DeviceLinkBandwidthReserve
    Camera_DeviceLinkBandwidthReserve_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) –

DeviceLinkCommandTimeout
    Camera_DeviceLinkCommandTimeout_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) –

DeviceLinkConnectionCount
    Camera_DeviceLinkConnectionCount_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

DeviceLinkCurrentThroughput
    Camera_DeviceLinkCurrentThroughput_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –

DeviceLinkHeartbeatMode
    Camera_DeviceLinkHeartbeatMode_get(self) -> IEnumerationT_DeviceLinkHeartbeatModeEnums
    Parameters self (Spinnaker::Camera *) –

```

DeviceLinkHeartbeatTimeout

Camera_DeviceLinkHeartbeatTimeout_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**DeviceLinkSelector**

Camera_DeviceLinkSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceLinkSpeed**

Camera_DeviceLinkSpeed_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceLinkThroughputLimit**

Camera_DeviceLinkThroughputLimit_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceLinkThroughputLimitMode**

Camera_DeviceLinkThroughputLimitMode_get(self) -> IEnumerationT_DeviceLinkThroughputLimitModeEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceManifestEntrySelector**

Camera_DeviceManifestEntrySelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceManifestPrimaryURL**

Camera_DeviceManifestPrimaryURL_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) -**DeviceManifestSchemaMajorVersion**

Camera_DeviceManifestSchemaMajorVersion_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceManifestSchemaMinorVersion**

Camera_DeviceManifestSchemaMinorVersion_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceManifestSecondaryURL**

Camera_DeviceManifestSecondaryURL_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) -**DeviceManifestXMLMajorVersion**

Camera_DeviceManifestXMLMajorVersion_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceManifestXMLMinorVersion**

Camera_DeviceManifestXMLMinorVersion_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceManifestXMLSubMinorVersion**

Camera_DeviceManifestXMLSubMinorVersion_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceManufacturerInfo**

Camera_DeviceManufacturerInfo_get(self) -> IString

```

    Parameters self (Spinnaker::Camera *) -
DeviceMaxThroughput
    Camera_DeviceMaxThroughput_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
DeviceModelName
    Camera_DeviceModelName_get(self) -> IString
    Parameters self (Spinnaker::Camera *) -
DevicePowerSupplySelector
    Camera_DevicePowerSupplySelector_get(self) -> IEnumerationT_DevicePowerSupplySelectorEnums
    Parameters self (Spinnaker::Camera *) -
DeviceRegistersCheck
    Camera_DeviceRegistersCheck_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
DeviceRegistersEndianness
    Camera_DeviceRegistersEndianness_get(self) -> IEnumerationT_DeviceRegistersEndiannessEnums
    Parameters self (Spinnaker::Camera *) -
DeviceRegistersStreamingEnd
    Camera_DeviceRegistersStreamingEnd_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
DeviceRegistersStreamingStart
    Camera_DeviceRegistersStreamingStart_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
DeviceRegistersValid
    Camera_DeviceRegistersValid_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
DeviceReset
    Camera_DeviceReset_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
DeviceSFNCVersionMajor
    Camera_DeviceSFNCVersionMajor_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
DeviceSFNCVersionMinor
    Camera_DeviceSFNCVersionMinor_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
DeviceSFNCVersionSubMinor
    Camera_DeviceSFNCVersionSubMinor_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
DeviceScanType
    Camera_DeviceScanType_get(self) -> IEnumerationT_DeviceScanTypeEnum
    Parameters self (Spinnaker::Camera *) -

```

DeviceSerialNumber

Camera_DeviceSerialNumber_get(self) -> IString

Parameters self (Spinnaker::Camera *) -**DeviceSerialPortBaudRate**

Camera_DeviceSerialPortBaudRate_get(self) -> IEnumerationT_DeviceSerialPortBaudRateEnums

Parameters self (Spinnaker::Camera *) -**DeviceSerialPortSelector**

Camera_DeviceSerialPortSelector_get(self) -> IEnumerationT_DeviceSerialPortSelectorEnums

Parameters self (Spinnaker::Camera *) -**DeviceStreamChannelCount**

Camera_DeviceStreamChannelCount_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceStreamChannelEndianness**

Camera_DeviceStreamChannelEndianness_get(self) -> IEnumerationT_DeviceStreamChannelEndiannessEnums

Parameters self (Spinnaker::Camera *) -**DeviceStreamChannelLink**

Camera_DeviceStreamChannelLink_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceStreamChannelPacketSize**

Camera_DeviceStreamChannelPacketSize_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceStreamChannelSelector**

Camera_DeviceStreamChannelSelector_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceStreamChannelType**

Camera_DeviceStreamChannelType_get(self) -> IEnumerationT_DeviceStreamChannelTypeEnums

Parameters self (Spinnaker::Camera *) -**DeviceTLType**

Camera_DeviceTLType_get(self) -> IEnumerationT_DeviceTLTypeEnums

Parameters self (Spinnaker::Camera *) -**DeviceTLVersionMajor**

Camera_DeviceTLVersionMajor_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceTLVersionMinor**

Camera_DeviceTLVersionMinor_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceTLVersionSubMinor**

Camera_DeviceTLVersionSubMinor_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceTapGeometry**

Camera_DeviceTapGeometry_get(self) -> IEnumerationT_DeviceTapGeometryEnums

```

    Parameters self (Spinnaker::Camera *) -
DeviceTemperature
    Camera_DeviceTemperature_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
DeviceTemperatureSelector
    Camera_DeviceTemperatureSelector_get(self) -> IEnumerationT_DeviceTemperatureSelectorEnums
    Parameters self (Spinnaker::Camera *) -
DeviceType
    Camera_DeviceType_get(self) -> IEnumerationT_DeviceTypeEnums
    Parameters self (Spinnaker::Camera *) -
DeviceUptime
    Camera_DeviceUptime_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
DeviceUserID
    Camera_DeviceUserID_get(self) -> IString
    Parameters self (Spinnaker::Camera *) -
DeviceVendorName
    Camera_DeviceVendorName_get(self) -> IString
    Parameters self (Spinnaker::Camera *) -
DeviceVersion
    Camera_DeviceVersion_get(self) -> IString
    Parameters self (Spinnaker::Camera *) -
EncoderDivider
    Camera_EncoderDivider_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EncoderMode
    Camera_EncoderMode_get(self) -> IEnumerationT_EncoderModeEnums
    Parameters self (Spinnaker::Camera *) -
EncoderOutputMode
    Camera_EncoderOutputMode_get(self) -> IEnumerationT_EncoderOutputModeEnums
    Parameters self (Spinnaker::Camera *) -
EncoderReset
    Camera_EncoderReset_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
EncoderResetActivation
    Camera_EncoderResetActivation_get(self) -> IEnumerationT_EncoderResetActivationEnums
    Parameters self (Spinnaker::Camera *) -
EncoderResetSource
    Camera_EncoderResetSource_get(self) -> IEnumerationT_EncoderResetSourceEnums
    Parameters self (Spinnaker::Camera *) -

```

EncoderSelector

Camera_EncoderSelector_get(self) -> IEnumerationT_EncoderSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**EncoderSourceA**

Camera_EncoderSourceA_get(self) -> IEnumerationT_EncoderSourceAEnums

Parameters **self** (*Spinnaker::Camera **) -**EncoderSourceB**

Camera_EncoderSourceB_get(self) -> IEnumerationT_EncoderSourceBEnums

Parameters **self** (*Spinnaker::Camera **) -**EncoderStatus**

Camera_EncoderStatus_get(self) -> IEnumerationT_EncoderStatusEnums

Parameters **self** (*Spinnaker::Camera **) -**EncoderTimeout**

Camera_EncoderTimeout_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**EncoderValue**

Camera_EncoderValue_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EncoderValueAtReset**

Camera_EncoderValueAtReset_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EnumerationCount**

Camera_EnumerationCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventAcquisitionEnd**

Camera_EventAcquisitionEnd_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventAcquisitionEndFrameID**

Camera_EventAcquisitionEndFrameID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventAcquisitionEndTimestamp**

Camera_EventAcquisitionEndTimestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventAcquisitionError**

Camera_EventAcquisitionError_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventAcquisitionErrorFrameID**

Camera_EventAcquisitionErrorFrameID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventAcquisitionErrorTimestamp**

Camera_EventAcquisitionErrorTimestamp_get(self) -> IInteger

```

    Parameters self (Spinnaker::Camera *) -
EventAcquisitionStart
    Camera_EventAcquisitionStart_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionStartFrameID
    Camera_EventAcquisitionStartFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionStartTimestamp
    Camera_EventAcquisitionStartTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTransferEnd
    Camera_EventAcquisitionTransferEnd_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTransferEndFrameID
    Camera_EventAcquisitionTransferEndFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTransferEndTimestamp
    Camera_EventAcquisitionTransferEndTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTransferStart
    Camera_EventAcquisitionTransferStart_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTransferStartFrameID
    Camera_EventAcquisitionTransferStartFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTransferStartTimestamp
    Camera_EventAcquisitionTransferStartTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTrigger
    Camera_EventAcquisitionTrigger_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTriggerFrameID
    Camera_EventAcquisitionTriggerFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventAcquisitionTriggerTimestamp
    Camera_EventAcquisitionTriggerTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventActionLate
    Camera_EventActionLate_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -

```

EventActionLateFrameID
Camera_EventActionLateFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventActionLateTimestamp
Camera_EventActionLateTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0End
Camera_EventCounter0End_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0EndFrameID
Camera_EventCounter0EndFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0EndTimestamp
Camera_EventCounter0EndTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0Start
Camera_EventCounter0Start_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0StartFrameID
Camera_EventCounter0StartFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0StartTimestamp
Camera_EventCounter0StartTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1End
Camera_EventCounter1End_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1EndFrameID
Camera_EventCounter1EndFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1EndTimestamp
Camera_EventCounter1EndTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1Start
Camera_EventCounter1Start_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1StartFrameID
Camera_EventCounter1StartFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1StartTimestamp
Camera_EventCounter1StartTimestamp_get(self) -> Integer

```

    Parameters self (Spinnaker::Camera *) -
EventEncoder0Restarted
    Camera_EventEncoder0Restarted_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder0RestartedFrameID
    Camera_EventEncoder0RestartedFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder0RestartedTimestamp
    Camera_EventEncoder0RestartedTimestamp_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder0Stopped
    Camera_EventEncoder0Stopped_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder0StoppedFrameID
    Camera_EventEncoder0StoppedFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder0StoppedTimestamp
    Camera_EventEncoder0StoppedTimestamp_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder1Restarted
    Camera_EventEncoder1Restarted_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder1RestartedFrameID
    Camera_EventEncoder1RestartedFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder1RestartedTimestamp
    Camera_EventEncoder1RestartedTimestamp_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder1Stopped
    Camera_EventEncoder1Stopped_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder1StoppedFrameID
    Camera_EventEncoder1StoppedFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventEncoder1StoppedTimestamp
    Camera_EventEncoder1StoppedTimestamp_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventError
    Camera_EventError_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

```

EventErrorCode

Camera_EventErrorCode_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventErrorFrameID**

Camera_EventErrorFrameID_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventErrorTimestamp**

Camera_EventErrorTimestamp_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventExposureEnd**

Camera_EventExposureEnd_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventExposureEndFrameID**

Camera_EventExposureEndFrameID_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventExposureEndTimestamp**

Camera_EventExposureEndTimestamp_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventExposureStart**

Camera_EventExposureStart_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventExposureStartFrameID**

Camera_EventExposureStartFrameID_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventExposureStartTimestamp**

Camera_EventExposureStartTimestamp_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventFrameBurstEnd**

Camera_EventFrameBurstEnd_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventFrameBurstEndFrameID**

Camera_EventFrameBurstEndFrameID_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventFrameBurstEndTimestamp**

Camera_EventFrameBurstEndTimestamp_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventFrameBurstStart**

Camera_EventFrameBurstStart_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**EventFrameBurstStartFrameID**

Camera_EventFrameBurstStartFrameID_get(self) -> Integer

```

    Parameters self (Spinnaker::Camera *) -
EventFrameBurstStartTimestamp
    Camera_EventFrameBurstStartTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameEnd
    Camera_EventFrameEnd_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameEndFrameID
    Camera_EventFrameEndFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameEndTimestamp
    Camera_EventFrameEndTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameStart
    Camera_EventFrameStart_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameStartFrameID
    Camera_EventFrameStartFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameStartTimestamp
    Camera_EventFrameStartTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameTransferEnd
    Camera_EventFrameTransferEnd_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameTransferEndFrameID
    Camera_EventFrameTransferEndFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameTransferEndTimestamp
    Camera_EventFrameTransferEndTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameTransferStart
    Camera_EventFrameTransferStart_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameTransferStartFrameID
    Camera_EventFrameTransferStartFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventFrameTransferStartTimestamp
    Camera_EventFrameTransferStartTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -

```

EventFrameTrigger

Camera_EventFrameTrigger_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventFrameTriggerFrameID

Camera_EventFrameTriggerFrameID_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventFrameTriggerTimestamp

Camera_EventFrameTriggerTimestamp_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0AnyEdge

Camera_EventLine0AnyEdge_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0AnyEdgeFrameID

Camera_EventLine0AnyEdgeFrameID_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0AnyEdgeTimestamp

Camera_EventLine0AnyEdgeTimestamp_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0FallingEdge

Camera_EventLine0FallingEdge_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0FallingEdgeFrameID

Camera_EventLine0FallingEdgeFrameID_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0FallingEdgeTimestamp

Camera_EventLine0FallingEdgeTimestamp_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0RisingEdge

Camera_EventLine0RisingEdge_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0RisingEdgeFrameID

Camera_EventLine0RisingEdgeFrameID_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine0RisingEdgeTimestamp

Camera_EventLine0RisingEdgeTimestamp_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine1AnyEdge

Camera_EventLine1AnyEdge_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -

EventLine1AnyEdgeFrameID

Camera_EventLine1AnyEdgeFrameID_get(self) -> Integer

```

    Parameters self (Spinnaker::Camera *) -
EventLine1AnyEdgeTimestamp
    Camera_EventLine1AnyEdgeTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLine1FallingEdge
    Camera_EventLine1FallingEdge_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLine1FallingEdgeFrameID
    Camera_EventLine1FallingEdgeFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLine1FallingEdgeTimestamp
    Camera_EventLine1FallingEdgeTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLine1RisingEdge
    Camera_EventLine1RisingEdge_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLine1RisingEdgeFrameID
    Camera_EventLine1RisingEdgeFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLine1RisingEdgeTimestamp
    Camera_EventLine1RisingEdgeTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLinkSpeedChange
    Camera_EventLinkSpeedChange_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLinkSpeedChangeFrameID
    Camera_EventLinkSpeedChangeFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLinkSpeedChangeTimestamp
    Camera_EventLinkSpeedChangeTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLinkTrigger0
    Camera_EventLinkTrigger0_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLinkTrigger0FrameID
    Camera_EventLinkTrigger0FrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventLinkTrigger0Timestamp
    Camera_EventLinkTrigger0Timestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -

```

EventLinkTrigger1

Camera_EventLinkTrigger1_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventLinkTrigger1FrameID**

Camera_EventLinkTrigger1FrameID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventLinkTrigger1Timestamp**

Camera_EventLinkTrigger1Timestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventNotification**

Camera_EventNotification_get(self) -> IEnumerationT_EventNotificationEnums

Parameters **self** (*Spinnaker::Camera **) -**EventSelector**

Camera_EventSelector_get(self) -> IEnumerationT_EventSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**EventSequencerSetChange**

Camera_EventSequencerSetChange_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventSequencerSetChangeFrameID**

Camera_EventSequencerSetChangeFrameID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventSequencerSetChangeTimestamp**

Camera_EventSequencerSetChangeTimestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventSerialData**

Camera_EventSerialData_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) -**EventSerialDataLength**

Camera_EventSerialDataLength_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventSerialPortReceive**

Camera_EventSerialPortReceive_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventSerialPortReceiveTimestamp**

Camera_EventSerialPortReceiveTimestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventSerialReceiveOverflow**

Camera_EventSerialReceiveOverflow_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**EventStream0TransferBlockEnd**

Camera_EventStream0TransferBlockEnd_get(self) -> IInteger

```

    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBlockEndFrameID
    Camera_EventStream0TransferBlockEndFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBlockEndTimestamp
    Camera_EventStream0TransferBlockEndTimestamp_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBlockStart
    Camera_EventStream0TransferBlockStart_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBlockStartFrameID
    Camera_EventStream0TransferBlockStartFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBlockStartTimestamp
    Camera_EventStream0TransferBlockStartTimestamp_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBlockTrigger
    Camera_EventStream0TransferBlockTrigger_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBlockTriggerFrameID
    Camera_EventStream0TransferBlockTriggerFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBlockTriggerTimestamp
    Camera_EventStream0TransferBlockTriggerTimestamp_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBurstEnd
    Camera_EventStream0TransferBurstEnd_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBurstEndFrameID
    Camera_EventStream0TransferBurstEndFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBurstEndTimestamp
    Camera_EventStream0TransferBurstEndTimestamp_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBurstStart
    Camera_EventStream0TransferBurstStart_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferBurstStartFrameID
    Camera_EventStream0TransferBurstStartFrameID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

```

EventStream0TransferBurstStartTimestamp
Camera_EventStream0TransferBurstStartTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferEnd
Camera_EventStream0TransferEnd_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferEndFrameID
Camera_EventStream0TransferEndFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferEndTimestamp
Camera_EventStream0TransferEndTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferOverflow
Camera_EventStream0TransferOverflow_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferOverflowFrameID
Camera_EventStream0TransferOverflowFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferOverflowTimestamp
Camera_EventStream0TransferOverflowTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferPause
Camera_EventStream0TransferPause_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferPauseFrameID
Camera_EventStream0TransferPauseFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferPauseTimestamp
Camera_EventStream0TransferPauseTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferResume
Camera_EventStream0TransferResume_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferResumeFrameID
Camera_EventStream0TransferResumeFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferResumeTimestamp
Camera_EventStream0TransferResumeTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferStart
Camera_EventStream0TransferStart_get(self) -> IInteger

```

    Parameters self (Spinnaker::Camera *) -
EventStream0TransferStartFrameID
    Camera_EventStream0TransferStartFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventStream0TransferStartTimestamp
    Camera_EventStream0TransferStartTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTest
    Camera_EventTest_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTestTimestamp
    Camera_EventTestTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer0End
    Camera_EventTimer0End_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer0EndFrameID
    Camera_EventTimer0EndFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer0EndTimestamp
    Camera_EventTimer0EndTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer0Start
    Camera_EventTimer0Start_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer0StartFrameID
    Camera_EventTimer0StartFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer0StartTimestamp
    Camera_EventTimer0StartTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer1End
    Camera_EventTimer1End_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer1EndFrameID
    Camera_EventTimer1EndFrameID_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -
EventTimer1EndTimestamp
    Camera_EventTimer1EndTimestamp_get(self) -> Integer
    Parameters self (Spinnaker::Camera *) -

```

EventTimer1Start

Camera_EventTimer1Start_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventTimer1StartFrameID**

Camera_EventTimer1StartFrameID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**EventTimer1StartTimestamp**

Camera_EventTimer1StartTimestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ExposureActiveMode**

Camera_ExposureActiveMode_get(self) -> IEnumerationT_ExposureActiveModeEnums

Parameters **self** (*Spinnaker::Camera **) -**ExposureAuto**

Camera_ExposureAuto_get(self) -> IEnumerationT_ExposureAutoEnums

Parameters **self** (*Spinnaker::Camera **) -**ExposureMode**

Camera_ExposureMode_get(self) -> IEnumerationT_ExposureModeEnums

Parameters **self** (*Spinnaker::Camera **) -**ExposureTime**

Camera_ExposureTime_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**ExposureTimeMode**

Camera_ExposureTimeMode_get(self) -> IEnumerationT_ExposureTimeModeEnums

Parameters **self** (*Spinnaker::Camera **) -**ExposureTimeSelector**

Camera_ExposureTimeSelector_get(self) -> IEnumerationT_ExposureTimeSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**FactoryReset**

Camera_FactoryReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**FfcUserGain**

Camera_FfcUserGain_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**FfcUserGainAll**

Camera_FfcUserGainAll_get(self) -> IRegister

Parameters **self** (*Spinnaker::Camera **) -**FfcUserOffset**

Camera_FfcUserOffset_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**FfcUserOffsetAll**

Camera_FfcUserOffsetAll_get(self) -> IRegister

```

    Parameters self (Spinnaker::Camera *) -
FfcUserTableReset
    Camera_FfcUserTableReset_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
FfcUserTableSave
    Camera_FfcUserTableSave_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
FfcUserTableXCoordinate
    Camera_FfcUserTableXCoordinate_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
FileAccessBuffer
    Camera_FileAccessBuffer_get(self) -> IRegister
    Parameters self (Spinnaker::Camera *) -
FileAccessLength
    Camera_FileAccessLength_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
FileAccessOffset
    Camera_FileAccessOffset_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
FileOpenMode
    Camera_FileOpenMode_get(self) -> IEnumerationT_FileOpenModeEnums
    Parameters self (Spinnaker::Camera *) -
FileOperationExecute
    Camera_FileOperationExecute_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
FileOperationResult
    Camera_FileOperationResult_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
FileOperationSelector
    Camera_FileOperationSelector_get(self) -> IEnumerationT_FileOperationSelectorEnums
    Parameters self (Spinnaker::Camera *) -
FileOperationStatus
    Camera_FileOperationStatus_get(self) -> IEnumerationT_FileOperationStatusEnums
    Parameters self (Spinnaker::Camera *) -
FileSelector
    Camera_FileSelector_get(self) -> IEnumerationT_FileSelectorEnums
    Parameters self (Spinnaker::Camera *) -
FileSize
    Camera_FileSize_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

```

Gain

Camera_Gain_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -

GainAuto

Camera_GainAuto_get(self) -> IEnumerationT_GainAutoEnums

Parameters **self** (*Spinnaker::Camera **) -

GainAutoBalance

Camera_GainAutoBalance_get(self) -> IEnumerationT_GainAutoBalanceEnums

Parameters **self** (*Spinnaker::Camera **) -

GainSelector

Camera_GainSelector_get(self) -> IEnumerationT_GainSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -

Gamma

Camera_Gamma_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -

GammaEnable

Camera_GammaEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

GevActiveLinkCount

Camera_GevActiveLinkCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevCCP

Camera_GevCCP_get(self) -> IEnumerationT_GevCCPEnums

Parameters **self** (*Spinnaker::Camera **) -

GevCurrentDefaultGateway

Camera_GevCurrentDefaultGateway_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevCurrentIPAddress

Camera_GevCurrentIPAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevCurrentIPConfigurationDHCP

Camera_GevCurrentIPConfigurationDHCP_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

GevCurrentIPConfigurationLLA

Camera_GevCurrentIPConfigurationLLA_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

GevCurrentIPConfigurationPersistentIP

Camera_GevCurrentIPConfigurationPersistentIP_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

GevCurrentPhysicalLinkConfiguration
 Camera_GevCurrentPhysicalLinkConfiguration_get(self) -> IEnumerationT_GevCurrentPhysicalLinkConfigurationEnums
 Parameters self (Spinnaker::Camera *) -

GevCurrentSubnetMask
 Camera_GevCurrentSubnetMask_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

GevDiscoveryAckDelay
 Camera_GevDiscoveryAckDelay_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

GevFirstURL
 Camera_GevFirstURL_get(self) -> IString
 Parameters self (Spinnaker::Camera *) -

GevGVCPExtendedStatusCodes
 Camera_GevGVCPExtendedStatusCodes_get(self) -> IBoolean
 Parameters self (Spinnaker::Camera *) -

GevGVCPExtendedStatusCodesSelector
 Camera_GevGVCPExtendedStatusCodesSelector_get(self) -> IEnumerationT_GevGVCPExtendedStatusCodesSelectorEnums
 Parameters self (Spinnaker::Camera *) -

GevGVCPhartbeatDisable
 Camera_GevGVCPhartbeatDisable_get(self) -> IBoolean
 Parameters self (Spinnaker::Camera *) -

GevGVCPPendingAck
 Camera_GevGVCPPendingAck_get(self) -> IBoolean
 Parameters self (Spinnaker::Camera *) -

GevGVCPPendingTimeout
 Camera_GevGVCPPendingTimeout_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

GevGVSPExtendedIDMode
 Camera_GevGVSPExtendedIDMode_get(self) -> IEnumerationT_GevGVSPExtendedIDModeEnums
 Parameters self (Spinnaker::Camera *) -

GevHeartbeatTimeout
 Camera_GevHeartbeatTimeout_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

GevIEEE1588
 Camera_GevIEEE1588_get(self) -> IBoolean
 Parameters self (Spinnaker::Camera *) -

GevIEEE1588ClockAccuracy
 Camera_GevIEEE1588ClockAccuracy_get(self) -> IEnumerationT_GevIEEE1588ClockAccuracyEnums
 Parameters self (Spinnaker::Camera *) -

GevIEEE1588Mode

Camera_GevIEEE1588Mode_get(self) -> IEnumerationT_GevIEEE1588ModeEnums

Parameters **self** (*Spinnaker::Camera **) -**GevIEEE1588Status**

Camera_GevIEEE1588Status_get(self) -> IEnumerationT_GevIEEE1588StatusEnums

Parameters **self** (*Spinnaker::Camera **) -**GevIPConfigurationStatus**

Camera_GevIPConfigurationStatus_get(self) -> IEnumerationT_GevIPConfigurationStatusEnums

Parameters **self** (*Spinnaker::Camera **) -**GevInterfaceSelector**

Camera_GevInterfaceSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevMACAddress**

Camera_GevMACAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevMCDA**

Camera_GevMCDA_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevMCPHostPort**

Camera_GevMCPHostPort_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevMCRC**

Camera_GevMCRC_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevMCSP**

Camera_GevMCSP_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevMCTT**

Camera_GevMCTT_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevNumberOfInterfaces**

Camera_GevNumberOfInterfaces_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevPAUSEFrameReception**

Camera_GevPAUSEFrameReception_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**GevPAUSEFrameTransmission**

Camera_GevPAUSEFrameTransmission_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**GevPersistentDefaultGateway**

Camera_GevPersistentDefaultGateway_get(self) -> IInteger

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    Parameters self (Spinnaker::Camera *) -
GevPersistentIPAddress
    Camera_GevPersistentIPAddress_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
GevPersistentSubnetMask
    Camera_GevPersistentSubnetMask_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
GevPhysicalLinkConfiguration
    Camera_GevPhysicalLinkConfiguration_get(self) -> IEnumerationT_GevPhysicalLinkConfigurationEnums
    Parameters self (Spinnaker::Camera *) -
GevPrimaryApplicationIPAddress
    Camera_GevPrimaryApplicationIPAddress_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
GevPrimaryApplicationSocket
    Camera_GevPrimaryApplicationSocket_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
GevPrimaryApplicationSwitchoverKey
    Camera_GevPrimaryApplicationSwitchoverKey_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
GevSCCFGAllInTransmission
    Camera_GevSCCFGAllInTransmission_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
GevSCCFGExtendedChunkData
    Camera_GevSCCFGExtendedChunkData_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
GevSCCFGPacketResendDestination
    Camera_GevSCCFGPacketResendDestination_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
GevSCCFGUnconditionalStreaming
    Camera_GevSCCFGUnconditionalStreaming_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
GevSCDA
    Camera_GevSCDA_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
GevSCPD
    Camera_GevSCPD_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
GevSCPDDirection
    Camera_GevSCPDDirection_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

```

GevSCPHostPort

Camera_GevSCPHostPort_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**GevSCPInterfaceIndex**

Camera_GevSCPInterfaceIndex_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**GevSCPSBigEndian**

Camera_GevSCPSBigEndian_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**GevSCPSDoNotFragment**

Camera_GevSCPSDoNotFragment_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**GevSCPSFireTestPacket**

Camera_GevSCPSFireTestPacket_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**GevSCSPPacketSize**

Camera_GevSCSPPacketSize_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**GevSCSP**

Camera_GevSCSP_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**GevSCZoneConfigurationLock**

Camera_GevSCZoneConfigurationLock_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**GevSCZoneCount**

Camera_GevSCZoneCount_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**GevSCZoneDirectionAll**

Camera_GevSCZoneDirectionAll_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**GevSecondURL**

Camera_GevSecondURL_get(self) -> IString

Parameters self (Spinnaker::Camera *) -**GevStreamChannelSelector**

Camera_GevStreamChannelSelector_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**GevSupportedOption**

Camera_GevSupportedOption_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**GevSupportedOptionSelector**

Camera_GevSupportedOptionSelector_get(self) -> IEnumerationT_GevSupportedOptionSelectorEnums

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    Parameters self (Spinnaker::Camera *) –
GevTimestampTickFrequency
    Camera_GevTimestampTickFrequency_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –
GuiXmlManifestAddress
    Camera_GuiXmlManifestAddress_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –
Height
    Camera_Height_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –
HeightMax
    Camera_HeightMax_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –
ImageComponentEnable
    Camera_ImageComponentEnable_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) –
ImageComponentSelector
    Camera_ImageComponentSelector_get(self) -> IEnumerationT_ImageComponentSelectorEnums
    Parameters self (Spinnaker::Camera *) –
ImageCompressionBitrate
    Camera_ImageCompressionBitrate_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) –
ImageCompressionJPEGFormatOption
    Camera_ImageCompressionJPEGFormatOption_get(self) -> IEnumerationT_ImageCompressionJPEGFormatOptionEnums
    Parameters self (Spinnaker::Camera *) –
ImageCompressionMode
    Camera_ImageCompressionMode_get(self) -> IEnumerationT_ImageCompressionModeEnums
    Parameters self (Spinnaker::Camera *) –
ImageCompressionQuality
    Camera_ImageCompressionQuality_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) –
ImageCompressionRateOption
    Camera_ImageCompressionRateOption_get(self) -> IEnumerationT_ImageCompressionRateOptionEnums
    Parameters self (Spinnaker::Camera *) –
Init (self)
    Parameters self (Spinnaker::Camera *) –
    void Spinnaker::Camera::Init()
IspEnable
    Camera_IspEnable_get(self) -> IBoolean

```

Parameters **self** (*Spinnaker::Camera **) –

LUTEnable
Camera_LUTEnable_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

LUTIndex
Camera_LUTIndex_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

LUTSelector
Camera_LUTSelector_get(self) -> IEnumerationT_LUTSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

LUTValue
Camera_LUTValue_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

LUTValueAll
Camera_LUTValueAll_get(self) -> IRegister
Parameters **self** (*Spinnaker::Camera **) –

LineFilterWidth
Camera_LineFilterWidth_get(self) -> IFloat
Parameters **self** (*Spinnaker::Camera **) –

LineFormat
Camera_LineFormat_get(self) -> IEnumerationT_LineFormatEnums
Parameters **self** (*Spinnaker::Camera **) –

LineInputFilterSelector
Camera_LineInputFilterSelector_get(self) -> IEnumerationT_LineInputFilterSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

LineInverter
Camera_LineInverter_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

LineMode
Camera_LineMode_get(self) -> IEnumerationT_LineModeEnums
Parameters **self** (*Spinnaker::Camera **) –

LinePitch
Camera_LinePitch_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

LineSelector
Camera_LineSelector_get(self) -> IEnumerationT_LineSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

LineSource
Camera_LineSource_get(self) -> IEnumerationT_LineSourceEnums
Parameters **self** (*Spinnaker::Camera **) –

LineStatus

Camera_LineStatus_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**LineStatusAll**

Camera_LineStatusAll_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**LinkErrorCount**

Camera_LinkErrorCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**LinkRecoveryCount**

Camera_LinkRecoveryCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**LinkUptime**

Camera_LinkUptime_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**LogicBlockLUTInputActivation**

Camera_LogicBlockLUTInputActivation_get(self) -> IEnumerationT_LogicBlockLUTInputActivationEnums

Parameters **self** (*Spinnaker::Camera **) -**LogicBlockLUTInputSelector**

Camera_LogicBlockLUTInputSelector_get(self) -> IEnumerationT_LogicBlockLUTInputSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**LogicBlockLUTInputSource**

Camera_LogicBlockLUTInputSource_get(self) -> IEnumerationT_LogicBlockLUTInputSourceEnums

Parameters **self** (*Spinnaker::Camera **) -**LogicBlockLUTOutputValue**

Camera_LogicBlockLUTOutputValue_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**LogicBlockLUTOutputValueAll**

Camera_LogicBlockLUTOutputValueAll_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**LogicBlockLUTRowIndex**

Camera_LogicBlockLUTRowIndex_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**LogicBlockLUTSelector**

Camera_LogicBlockLUTSelector_get(self) -> IEnumerationT_LogicBlockLUTSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**LogicBlockSelector**

Camera_LogicBlockSelector_get(self) -> IEnumerationT_LogicBlockSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**MaxDeviceResetTime**

Camera_MaxDeviceResetTime_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

OffsetX
Camera_OffsetX_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

OffsetY
Camera_OffsetY_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

PacketResendRequestCount
Camera_PacketResendRequestCount_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

PayloadSize
Camera_PayloadSize_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

PixelColorFilter
Camera_PixelColorFilter_get(self) -> IEnumerationT_PixelColorFilterEnums
Parameters self (*Spinnaker::Camera **) –

PixelDynamicRangeMax
Camera_PixelDynamicRangeMax_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

PixelDynamicRangeMin
Camera_PixelDynamicRangeMin_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

PixelFormat
Camera_PixelFormat_get(self) -> IEnumerationT_PixelFormatEnums
Parameters self (*Spinnaker::Camera **) –

PixelFormatInfoID
Camera_PixelFormatInfoID_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

PixelFormatInfoSelector
Camera_PixelFormatInfoSelector_get(self) -> IEnumerationT_PixelFormatInfoSelectorEnums
Parameters self (*Spinnaker::Camera **) –

PixelSize
Camera_PixelSize_get(self) -> IEnumerationT_PixelSizeEnums
Parameters self (*Spinnaker::Camera **) –

PowerSupplyCurrent
Camera_PowerSupplyCurrent_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

PowerSupplyVoltage
Camera_PowerSupplyVoltage_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

RegionDestination

Camera_RegionDestination_get(self) -> IEnumerationT_RegionDestinationEnums

Parameters **self** (*Spinnaker::Camera **) -**RegionMode**

Camera_RegionMode_get(self) -> IEnumerationT_RegionModeEnums

Parameters **self** (*Spinnaker::Camera **) -**RegionSelector**

Camera_RegionSelector_get(self) -> IEnumerationT_RegionSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**ReverseX**

Camera_ReverseX_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**ReverseY**

Camera_ReverseY_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**RgbTransformLightSource**

Camera_RgbTransformLightSource_get(self) -> IEnumerationT_RgbTransformLightSourceEnums

Parameters **self** (*Spinnaker::Camera **) -**Saturation**

Camera_Saturation_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**SaturationEnable**

Camera_SaturationEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**Scan3dAxisMax**

Camera_Scan3dAxisMax_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dAxisMin**

Camera_Scan3dAxisMin_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateOffset**

Camera_Scan3dCoordinateOffset_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateReferenceSelector**

Camera_Scan3dCoordinateReferenceSelector_get(self) -> IEnumerationT_Scan3dCoordinateReferenceSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateReferenceValue**

Camera_Scan3dCoordinateReferenceValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateScale**

Camera_Scan3dCoordinateScale_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) –

Scan3dCoordinateSelector
Camera_Scan3dCoordinateSelector_get(self) -> IEnumerationT_Scan3dCoordinateSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –

Scan3dCoordinateSystem
Camera_Scan3dCoordinateSystem_get(self) -> IEnumerationT_Scan3dCoordinateSystemEnums

Parameters **self** (*Spinnaker::Camera **) –

Scan3dCoordinateSystemReference
Camera_Scan3dCoordinateSystemReference_get(self) -> IEnumerationT_Scan3dCoordinateSystemReferenceEnums

Parameters **self** (*Spinnaker::Camera **) –

Scan3dCoordinateTransformSelector
Camera_Scan3dCoordinateTransformSelector_get(self) -> IEnumerationT_Scan3dCoordinateTransformSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –

Scan3dDistanceUnit
Camera_Scan3dDistanceUnit_get(self) -> IEnumerationT_Scan3dDistanceUnitEnums

Parameters **self** (*Spinnaker::Camera **) –

Scan3dInvalidDataFlag
Camera_Scan3dInvalidDataFlag_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) –

Scan3dInvalidDataValue
Camera_Scan3dInvalidDataValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) –

Scan3dOutputMode
Camera_Scan3dOutputMode_get(self) -> IEnumerationT_Scan3dOutputModeEnums

Parameters **self** (*Spinnaker::Camera **) –

Scan3dTransformValue
Camera_Scan3dTransformValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) –

SensorDescription
Camera_SensorDescription_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) –

SensorDigitizationTaps
Camera_SensorDigitizationTaps_get(self) -> IEnumerationT_SensorDigitizationTapsEnums

Parameters **self** (*Spinnaker::Camera **) –

SensorHeight
Camera_SensorHeight_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

SensorShutterMode
Camera_SensorShutterMode_get(self) -> IEnumerationT_SensorShutterModeEnums

Parameters **self** (*Spinnaker::Camera **) –

SensorTaps

Camera_SensorTaps_get(self) -> IEnumerationT_SensorTapsEnums

Parameters **self** (*Spinnaker::Camera **) -

SensorWidth

Camera_SensorWidth_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

SequencerConfigurationMode

Camera_SequencerConfigurationMode_get(self) -> IEnumerationT_SequencerConfigurationModeEnums

Parameters **self** (*Spinnaker::Camera **) -

SequencerConfigurationReset

Camera_SequencerConfigurationReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -

SequencerConfigurationValid

Camera_SequencerConfigurationValid_get(self) -> IEnumerationT_SequencerConfigurationValidEnums

Parameters **self** (*Spinnaker::Camera **) -

SequencerFeatureEnable

Camera_SequencerFeatureEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

SequencerFeatureSelector

Camera_SequencerFeatureSelector_get(self) -> IEnumerationT_SequencerFeatureSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -

SequencerMode

Camera_SequencerMode_get(self) -> IEnumerationT_SequencerModeEnums

Parameters **self** (*Spinnaker::Camera **) -

SequencerPathSelector

Camera_SequencerPathSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

SequencerSetActive

Camera_SequencerSetActive_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

SequencerSetLoad

Camera_SequencerSetLoad_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -

SequencerSetNext

Camera_SequencerSetNext_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

SequencerSetSave

Camera_SequencerSetSave_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -

SequencerSetSelector

Camera_SequencerSetSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

SequencerSetStart
Camera_SequencerSetStart_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

SequencerSetValid
Camera_SequencerSetValid_get(self) -> IEnumerationT_SequencerSetValidEnums
Parameters **self** (*Spinnaker::Camera **) –

SequencerTriggerActivation
Camera_SequencerTriggerActivation_get(self) -> IEnumerationT_SequencerTriggerActivationEnums
Parameters **self** (*Spinnaker::Camera **) –

SequencerTriggerSource
Camera_SequencerTriggerSource_get(self) -> IEnumerationT_SequencerTriggerSourceEnums
Parameters **self** (*Spinnaker::Camera **) –

SerialPortBaudRate
Camera_SerialPortBaudRate_get(self) -> IEnumerationT_SerialPortBaudRateEnums
Parameters **self** (*Spinnaker::Camera **) –

SerialPortDataBits
Camera_SerialPortDataBits_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

SerialPortParity
Camera_SerialPortParity_get(self) -> IEnumerationT_SerialPortParityEnums
Parameters **self** (*Spinnaker::Camera **) –

SerialPortSelector
Camera_SerialPortSelector_get(self) -> IEnumerationT_SerialPortSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

SerialPortSource
Camera_SerialPortSource_get(self) -> IEnumerationT_SerialPortSourceEnums
Parameters **self** (*Spinnaker::Camera **) –

SerialPortStopBits
Camera_SerialPortStopBits_get(self) -> IEnumerationT_SerialPortStopBitsEnums
Parameters **self** (*Spinnaker::Camera **) –

SerialReceiveFramingErrorCount
Camera_SerialReceiveFramingErrorCount_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

SerialReceiveParityErrorCount
Camera_SerialReceiveParityErrorCount_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

SerialReceiveQueueClear
Camera_SerialReceiveQueueClear_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

SerialReceiveQueueCurrentCharacterCount

Camera_SerialReceiveQueueCurrentCharacterCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**SerialReceiveQueueMaxCharacterCount**

Camera_SerialReceiveQueueMaxCharacterCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**SerialTransmitQueueCurrentCharacterCount**

Camera_SerialTransmitQueueCurrentCharacterCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**SerialTransmitQueueMaxCharacterCount**

Camera_SerialTransmitQueueMaxCharacterCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**Sharpening**

Camera_Sharpening_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**SharpeningAuto**

Camera_SharpeningAuto_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**SharpeningEnable**

Camera_SharpeningEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**SharpeningThreshold**

Camera_SharpeningThreshold_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**SoftwareSignalPulse**

Camera_SoftwareSignalPulse_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**SoftwareSignalSelector**

Camera_SoftwareSignalSelector_get(self) -> IEnumerationT_SoftwareSignalSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**SourceCount**

Camera_SourceCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**SourceSelector**

Camera_SourceSelector_get(self) -> IEnumerationT_SourceSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**TLParamsLocked**

Camera_TLParamsLocked_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**Test0001**

Camera_Test0001_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

TestEventGenerate
Camera_TestEventGenerate_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

TestPattern
Camera_TestPattern_get(self) -> IEnumerationT_TestPatternEnums

Parameters **self** (*Spinnaker::Camera **) –

TestPatternGeneratorSelector
Camera_TestPatternGeneratorSelector_get(self) -> IEnumerationT_TestPatternGeneratorSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –

TestPendingAck
Camera_TestPendingAck_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

TimerDelay
Camera_TimerDelay_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) –

TimerDuration
Camera_TimerDuration_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) –

TimerReset
Camera_TimerReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

TimerSelector
Camera_TimerSelector_get(self) -> IEnumerationT_TimerSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –

TimerStatus
Camera_TimerStatus_get(self) -> IEnumerationT_TimerStatusEnums

Parameters **self** (*Spinnaker::Camera **) –

TimerTriggerActivation
Camera_TimerTriggerActivation_get(self) -> IEnumerationT_TimerTriggerActivationEnums

Parameters **self** (*Spinnaker::Camera **) –

TimerTriggerSource
Camera_TimerTriggerSource_get(self) -> IEnumerationT_TimerTriggerSourceEnums

Parameters **self** (*Spinnaker::Camera **) –

TimerValue
Camera_TimerValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) –

Timestamp
Camera_Timestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

TimestampIncrement
 Camera_TimestampIncrement_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

TimestampLatch
 Camera_TimestampLatch_get(self) -> ICommand
 Parameters self (Spinnaker::Camera *) -

TimestampLatchValue
 Camera_TimestampLatchValue_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

TimestampReset
 Camera_TimestampReset_get(self) -> ICommand
 Parameters self (Spinnaker::Camera *) -

TransferAbort
 Camera_TransferAbort_get(self) -> ICommand
 Parameters self (Spinnaker::Camera *) -

TransferBlockCount
 Camera_TransferBlockCount_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

TransferBurstCount
 Camera_TransferBurstCount_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

TransferComponentSelector
 Camera_TransferComponentSelector_get(self) -> IEnumerationT_TransferComponentSelectorEnums
 Parameters self (Spinnaker::Camera *) -

TransferControlMode
 Camera_TransferControlMode_get(self) -> IEnumerationT_TransferControlModeEnums
 Parameters self (Spinnaker::Camera *) -

TransferOperationMode
 Camera_TransferOperationMode_get(self) -> IEnumerationT_TransferOperationModeEnums
 Parameters self (Spinnaker::Camera *) -

TransferPause
 Camera_TransferPause_get(self) -> ICommand
 Parameters self (Spinnaker::Camera *) -

TransferQueueCurrentBlockCount
 Camera_TransferQueueCurrentBlockCount_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

TransferQueueMaxBlockCount
 Camera_TransferQueueMaxBlockCount_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

TransferQueueMode
 Camera_TransferQueueMode_get(self) -> IEnumerationT_TransferQueueModeEnums

Parameters **self** (*Spinnaker::Camera **) –

TransferQueueOverflowCount
Camera_TransferQueueOverflowCount_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

TransferResume
Camera_TransferResume_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

TransferSelector
Camera_TransferSelector_get(self) -> IEnumerationT_TransferSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

TransferStart
Camera_TransferStart_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

TransferStatus
Camera_TransferStatus_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

TransferStatusSelector
Camera_TransferStatusSelector_get(self) -> IEnumerationT_TransferStatusSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

TransferStop
Camera_TransferStop_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

TransferStreamChannel
Camera_TransferStreamChannel_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

TransferTriggerActivation
Camera_TransferTriggerActivation_get(self) -> IEnumerationT_TransferTriggerActivationEnums
Parameters **self** (*Spinnaker::Camera **) –

TransferTriggerMode
Camera_TransferTriggerMode_get(self) -> IEnumerationT_TransferTriggerModeEnums
Parameters **self** (*Spinnaker::Camera **) –

TransferTriggerSelector
Camera_TransferTriggerSelector_get(self) -> IEnumerationT_TransferTriggerSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

TransferTriggerSource
Camera_TransferTriggerSource_get(self) -> IEnumerationT_TransferTriggerSourceEnums
Parameters **self** (*Spinnaker::Camera **) –

TriggerActivation
Camera_TriggerActivation_get(self) -> IEnumerationT_TriggerActivationEnums
Parameters **self** (*Spinnaker::Camera **) –

TriggerDelay
 Camera_TriggerDelay_get(self) -> IFloat
 Parameters self (Spinnaker::Camera *) -

TriggerDivider
 Camera_TriggerDivider_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

TriggerEventTest
 Camera_TriggerEventTest_get(self) -> ICommand
 Parameters self (Spinnaker::Camera *) -

TriggerMode
 Camera_TriggerMode_get(self) -> IEnumerationT_TriggerModeEnums
 Parameters self (Spinnaker::Camera *) -

TriggerMultiplier
 Camera_TriggerMultiplier_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

TriggerOverlap
 Camera_TriggerOverlap_get(self) -> IEnumerationT_TriggerOverlapEnums
 Parameters self (Spinnaker::Camera *) -

TriggerSelector
 Camera_TriggerSelector_get(self) -> IEnumerationT_TriggerSelectorEnums
 Parameters self (Spinnaker::Camera *) -

TriggerSoftware
 Camera_TriggerSoftware_get(self) -> ICommand
 Parameters self (Spinnaker::Camera *) -

TriggerSource
 Camera_TriggerSource_get(self) -> IEnumerationT_TriggerSourceEnums
 Parameters self (Spinnaker::Camera *) -

U3VAccessPrivilege
 Camera_U3VAccessPrivilege_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

U3VCPCapability
 Camera_U3VCPCapability_get(self) -> IInteger
 Parameters self (Spinnaker::Camera *) -

U3VCPPEIRMAvailable
 Camera_U3VCPPEIRMAvailable_get(self) -> IBoolean
 Parameters self (Spinnaker::Camera *) -

U3VCPIIDC2Available
 Camera_U3VCPIIDC2Available_get(self) -> IBoolean
 Parameters self (Spinnaker::Camera *) -

U3VCPsIRMAvailable
 Camera_U3VCPsIRMAvailable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) –

U3VCurrentSpeed
Camera_U3VCurrentSpeed_get(self) -> IEnumerationT_U3VCurrentSpeedEnums
Parameters **self** (*Spinnaker::Camera **) –

U3VMaxAcknowledgeTransferLength
Camera_U3VMaxAcknowledgeTransferLength_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

U3VMaxCommandTransferLength
Camera_U3VMaxCommandTransferLength_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

U3VMaxDeviceResponseTime
Camera_U3VMaxDeviceResponseTime_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

U3VMessageChannelID
Camera_U3VMessageChannelID_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

U3VNumberOfStreamChannels
Camera_U3VNumberOfStreamChannels_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

U3VVersionMajor
Camera_U3VVersionMajor_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

U3VVersionMinor
Camera_U3VVersionMinor_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

UserOutputSelector
Camera_UserOutputSelector_get(self) -> IEnumerationT_UserOutputSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

UserOutputValue
Camera_UserOutputValue_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

UserOutputValueAll
Camera_UserOutputValueAll_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

UserOutputValueAllMask
Camera_UserOutputValueAllMask_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

UserSetDefault
Camera_UserSetDefault_get(self) -> IEnumerationT_UserSetDefaultEnums
Parameters **self** (*Spinnaker::Camera **) –

UserSetFeatureEnable

Camera_UserSetFeatureEnable_get(self) -> IBoolean

Parameters self (*Spinnaker::Camera **) -**UserSetFeatureSelector**

Camera_UserSetFeatureSelector_get(self) -> IEnumerationT_UserSetFeatureSelectorEnums

Parameters self (*Spinnaker::Camera **) -**UserSetLoad**

Camera_UserSetLoad_get(self) -> ICommand

Parameters self (*Spinnaker::Camera **) -**UserSetSave**

Camera_UserSetSave_get(self) -> ICommand

Parameters self (*Spinnaker::Camera **) -**UserSetSelector**

Camera_UserSetSelector_get(self) -> IEnumerationT_UserSetSelectorEnums

Parameters self (*Spinnaker::Camera **) -**V3_3Enable**

Camera_V3_3Enable_get(self) -> IBoolean

Parameters self (*Spinnaker::Camera **) -**WhiteClip**

Camera_WhiteClip_get(self) -> IFloat

Parameters self (*Spinnaker::Camera **) -**WhiteClipSelector**

Camera_WhiteClipSelector_get(self) -> IEnumerationT_WhiteClipSelectorEnums

Parameters self (*Spinnaker::Camera **) -**Width**

Camera_Width_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**WidthMax**

Camera_WidthMax_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**aPAUSEMACCtrlFramesReceived**

Camera_aPAUSEMACCtrlFramesReceived_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**aPAUSEMACCtrlFramesTransmitted**

Camera_aPAUSEMACCtrlFramesTransmitted_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**thisown**

The membership flag

4.4 PySpin.CameraBase

class PySpin.CameraBase (*args, **kwargs)

The base class for the camera object.

C++ includes: CameraBase.h

BeginAcquisition (*self*)

Parameters **self** (Spinnaker::CameraBase *) –

void Spinnaker::CameraBase::BeginAcquisition()

Starts the image acquisition engine. The camera must be initialized via a call to Init() before starting an acquisition.

See: Init()

DeInit (*self*)

Parameters **self** (Spinnaker::CameraBase *) –

void Spinnaker::CameraBase::DeInit()

Disconnect camera port and free GenICam node map and GUI XML. Do not call more functions that access the remote device such as WritePort/ReadPort after calling DeInit(); Events should also be unregistered before calling camera DeInit(). Otherwise an exception will be thrown in the DeInit() call and require the user to unregister events before the camera can be re-initialized again.

See: Init()

See: UnregisterEvent(Event & evtToUnregister)

DiscoverMaxPacketSize (*self*) → unsigned int

Parameters **self** (Spinnaker::CameraBase *) –

unsigned int Spinnaker::CameraBase::DiscoverMaxPacketSize()

Returns the largest packet size that can be safely used on the interface that device is connected to

The maximum packet size returned.

EndAcquisition (*self*)

Parameters **self** (Spinnaker::CameraBase *) –

void Spinnaker::CameraBase::EndAcquisition()

Stops the image acquisition engine. If EndAcquisition() is called without a prior call to BeginAcquisition() an error message “Camera is not started” will be thrown. All Images that were acquired using GetNextImage() need to be released first using image->Release() before calling EndAcquisition(). All buffers in the input pool and output queue will be discarded when EndAcquisition() is called.

See: Init()

See: BeginAcquisition()

See: GetNextImage(grabTimeout)

See: Image::Release()

GetAccessMode (*self*) → Spinnaker::GenApi::EAccessMode

Parameters **self** (Spinnaker::CameraBase const *) –

GenApi::EAccessMode Spinnaker::CameraBase::GetAccessMode() const

Returns the access mode that the software has on the Camera. The camera does not need to be initialized before calling this function.

See: Init()

An enumeration value indicating the access mode

GetGuiXml (*self*) → gcstring

Parameters **self** (*Spinnaker::CameraBase const **) –

GenICam::gcstring Spinnaker::CameraBase::GetGuiXml() const

Returns the GUI XML that can be passed into the Spinnaker GUI framework

GenICam::gcstring that represents the uncompressed GUI XML file

GetNextImage (*self*, *grabTimeout*, *streamID=0*) → ImagePtr

Parameters

- **grabTimeout** (*uint64_t*) –
- **streamID** (*uint64_t*) –
- **grabTimeout** → **ImagePtr** (*GetNextImage (self,)*) –
- **grabTimeout** –
- → **ImagePtr** (*GetNextImage (self)*) –
- **self** (*Spinnaker::CameraBase **) –

ImagePtr Spinnaker::CameraBase::GetNextImage(uint64_t grabTimeout=EVENT_TIMEOUT_INFINITE, uint64_t streamID=0)

Gets the next image that was received by the transport layer. This function will block indefinitely until an image arrives. Most cameras support one stream so the default streamID is 0 but if a camera supports multiple streams the user can input the streamID to select from which stream to grab images

See: Init()

See: BeginAcquisition()

See: EndAcquisition()

grabTimeout: a 64bit value that represents a timeout in milliseconds

streamID: The stream to grab the image.

pointer to an Image object

GetNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::CameraBase const **) –

GenApi::INodeMap& Spinnaker::CameraBase::GetNodeMap() const

Gets a reference to the node map that is generated from a GenICam XML file. The camera must be initialized by a call to Init() first before a node map reference can be successfully acquired.

See: Init()

A reference to the INodeMap.

GetNumDataStreams (*self*) → unsigned int

Parameters **self** (*Spinnaker::CameraBase **) –

unsigned int Spinnaker::CameraBase::GetNumDataStreams()

Returns the number of streams that a device supports.

The number of data streams

GetNumImagesInUse (*self*) → unsigned int

Parameters **self** (*Spinnaker::CameraBase **) –

unsigned int Spinnaker::CameraBase::GetNumImagesInUse()

Returns the number of images that are currently in use. Each of the images that are currently in use must be cleaned up with a call to `image->Release()` before calling `system->ReleaseInstance()`.

The number of images that needs to be cleaned up.

GetTLDeviceNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::CameraBase const **) –

GenApi::INodeMap & Spinnaker::CameraBase::GetTLDeviceNodeMap() const

Gets a reference to the node map that is generated from a GenICam XML file for the GenTL Device module. The camera does not need to be initialized before acquiring this node map.

A reference to the INodeMap.

GetTLStreamNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::CameraBase const **) –

GenApi::INodeMap & Spinnaker::CameraBase::GetTLStreamNodeMap() const

Gets a reference to the node map that is generated from a GenICam XML file for the GenTL Stream module. The camera does not need to be initialized before acquiring this node map.

A reference to the INodeMap.

GetUniqueID (*self*) → gcstring

Parameters **self** (*Spinnaker::CameraBase **) –

GenICam::gcstring Spinnaker::CameraBase::GetUniqueID()

This returns a unique id string that identifies the camera. This is the camera serial number.

string that uniquely identifies the camera (serial number)

Init (*self*)

Parameters **self** (*Spinnaker::CameraBase **) –

void Spinnaker::CameraBase::Init()

Connect to camera, retrieve XML and generate node map. This function needs to be called before any camera related API calls such as `BeginAcquisition()`, `EndAcquisition()`, `GetNodeMap()`, `GetNextImage()`.

See: `BeginAcquisition()`

See: `EndAcquisition()`

See: `GetNodeMap()`

See: `GetNextImage()`

IsInitialized (*self*) → bool

Parameters **self** (*Spinnaker::CameraBase **) –

bool Spinnaker::CameraBase::IsInitialized()

Checks if camera is initialized. This function needs to return true in order to retrieve a valid NodeMap from the GetNodeMap() call.

See: GetNodeMap()

If camera is initialized or not

IsStreaming (*self*) → bool

Parameters **self** (*Spinnaker::CameraBase const **) –

bool Spinnaker::CameraBase::IsStreaming() const

Returns true if the camera is currently streaming or false if it is not.

See: Init()

returns true if camera is streaming and false otherwise.

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::CameraBase **) –

bool Spinnaker::CameraBase::IsValid()

Checks a flag to determine if camera is still valid for use.

If camera is valid or not

RegisterEvent (*self, evtToRegister*)

Parameters

- **evtToRegister** (*Spinnaker::Event &*) –
- **evtToRegister, eventName** (*RegisterEvent (self,)*) –
- **evtToRegister** –
- **eventName** (*Spinnaker::GenICam::gcstring const &*) –

void Spinnaker::CameraBase::RegisterEvent(Event &evtToRegister, const GenICam::gcstring &eventName)

Registers a specific event for the camera

See: Init()

evtToRegister: The event to register for the camera

eventName: The event name to register

TLDevice

CameraBase_TLDevice_get(self) -> TransportLayerDevice

Parameters **self** (*Spinnaker::CameraBase **) –

TLStream

CameraBase_TLStream_get(self) -> TransportLayerStream

Parameters **self** (*Spinnaker::CameraBase **) –

UnregisterEvent (*self, evtToUnregister*)

Parameters **evtToUnregister** (*Spinnaker::Event &*) –

void Spinnaker::CameraBase::UnregisterEvent(Event &evtToUnregister)

Unregisters an event for the camera. Events should be unregistered first before calling camera DeInit(). Otherwise an exception will be thrown in the DeInit() call and require the user to unregister events before the camera can be re-initialized again.

See: DeInit()

evtToUnregister: The event to unregister from the camera

thisown

The membership flag

4.5 PySpin.CameraDefs

4.6 PySpin.CameraList

class PySpin.CameraList (*args)

Used to hold a list of camera objects.

C++ includes: CameraList.h

Append (self, otherList)

Parameters otherList (Spinnaker::CameraList &) –

void Spinnaker::CameraList::Append(CameraList &otherList)

Appends a camera list to the current list.

otherList: The other list to append to this list

Clear (self)

Parameters self (Spinnaker::CameraList *) –

void Spinnaker::CameraList::Clear()

Clears the list of cameras and destroys their corresponding reference counted objects. This is necessary in order to clean up the parent interface. It is important that the camera list is destroyed or is cleared before calling system->ReleaseInstance() or else the call to system->ReleaseInstance() will result in an error message thrown that a reference to the camera is still held.

See: System:ReleaseInstance()

GetByIndex (self, index) → CameraPtr

Parameters index (int) –

CameraPtr Spinnaker::CameraList::GetByIndex(int index) const

Returns a pointer to a camera object at the “index”.

index: The index at which to retrieve the camera object

A pointer to an camera object.

GetBySerial (self, serialNumber) → CameraPtr

Parameters serialNumber (std::string) –

CameraPtr Spinnaker::CameraList::GetBySerial(std::string serialNumber) const

Returns a pointer to a camera object with the specified serial number.

serialNumber: The serial number of the camera object to retrieve

A pointer to an camera object.

GetSize (*self*) → int

Parameters **self** (*Spinnaker::CameraList const **) –

int Spinnaker::CameraList::GetSize() const

Returns the size of the camera list. The size is the number of Camera objects stored in the list.

An integer that represents the list size.

RemoveByIndex (*self, index*)

Parameters **index** (*int*) –

void Spinnaker::CameraList::RemoveByIndex(int index)

Removes a camera at “index” and destroys its corresponding reference counted object.

index: The index at which to remove the Camera object

RemoveBySerial (*self, serialNumber*)

Parameters **serialNumber** (*std::string*) –

void Spinnaker::CameraList::RemoveBySerial(std::string serialNumber)

Removes a camera using its serial number and destroys its corresponding reference counted object.

serialNumber: The serial number of the Camera object to remove

thisown

The membership flag

4.7 PySpin.CameraPtr

class PySpin.**CameraPtr** (**args*)

A reference tracked pointer to a camera object.

C++ includes: CameraPtr.h

thisown

The membership flag

4.8 PySpin.ChunkData

class PySpin.**ChunkData** (**args*)

The chunk data which contains additional information about an image.

C++ includes: ChunkData.h

GetBlackLevel (*self*) → float64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetBlackLevel() const

Description: Returns the black level used to capture the image included in the payload. Visibility: Expert

GetCRC (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

GetCounterValue (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetCounterValue() const

Description: Returns the value of the selected Chunk counter at the time of the FrameStart event. Visibility: Expert

GetEncoderValue (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetEncoderValue() const

Description: Returns the counter's value of the selected Encoder at the time of the FrameStart in area scan mode or the counter's value at the time of the LineStart selected by ChunkScanLineSelector in LineScan mode. Visibility: Expert

GetExposureEndLineStatusAll (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

GetExposureTime (*self*) → float64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetExposureTime() const

Description: Returns the exposure time used to capture the image. Visibility: Expert

GetFrameID (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetFrameID() const

Description: Returns the unique Identifier of the frame (or image) included in the payload. Visibility: Expert

GetGain (*self*) → float64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetGain() const

Description: Returns the gain used to capture the image. Visibility: Expert

GetHeight (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetHeight() const

Description: Returns the Height of the image included in the payload. Visibility: Expert

GetImage (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

GetLinePitch (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetLinePitch() const
 Description: Returns the LinePitch of the image included in the payload. Visibility: Expert

GetLineStatusAll (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetLineStatusAll() const
 Description: Returns the status of all the I/O lines at the time of the FrameStart internal event. Visibility: Expert

GetOffsetX (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetOffsetX() const
 Description: Returns the OffsetX of the image included in the payload. Visibility: Expert

GetOffsetY (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetOffsetY() const
 Description: Returns the OffsetY of the image included in the payload. Visibility: Expert

GetPartSelector (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetPartSelector() const
 Description: Selects the part to access in chunk data in a multipart transmission. Visibility: Expert

GetPixelDynamicRangeMax (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetPixelDynamicRangeMax() const
 Description: Returns the maximum value of dynamic range of the image included in the payload. Visibility: Expert

GetPixelDynamicRangeMin (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetPixelDynamicRangeMin() const
 Description: Returns the minimum value of dynamic range of the image included in the payload. Visibility: Expert

GetScan3dAxisMax (*self*) → float64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 float64_t Spinnaker::ChunkData::GetScan3dAxisMax() const
 Description: Returns the Maximum Axis value for the selected coordinate axis of the image included in the payload. Visibility: Expert

GetScan3dAxisMin (*self*) → float64_t
Parameters **self** (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dAxisMin() const

Description: Returns the Minimum Axis value for the selected coordinate axis of the image included in the payload. Visibility: Expert

GetScan3dCoordinateOffset (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dCoordinateOffset() const

Description: Returns the Offset for the selected coordinate axis of the image included in the payload. Visibility: Expert

GetScan3dCoordinateReferenceValue (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dCoordinateReferenceValue() const

Description: Reads the value of a position or pose coordinate for the anchor or transformed coordinate systems relative to the reference point. Visibility: Expert

GetScan3dCoordinateScale (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dCoordinateScale() const

Description: Returns the Scale for the selected coordinate axis of the image included in the payload. Visibility: Expert

GetScan3dInvalidDataValue (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dInvalidDataValue() const

Description: Returns the Invalid Data Value used for the image included in the payload. Visibility: Expert

GetScan3dTransformValue (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dTransformValue() const

Description: Returns the transform value. Visibility: Expert

GetScanLineSelector (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetScanLineSelector() const

Description: Index for vector representation of one chunk value per line in an image. Visibility: Expert

GetSequencerSetActive (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetSequencerSetActive() const

Description: Return the index of the active set of the running sequencer included in the payload. Visibility: Expert

GetSerialDataLength (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

GetStreamChannelID (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetStreamChannelID() const
 Description: Returns identifier of the stream channel used to carry the block. Visibility: Expert

GetTimerValue (*self*) → float64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 float64_t Spinnaker::ChunkData::GetTimerValue() const
 Description: Returns the value of the selected Timer at the time of the FrameStart internal event. Visibility: Expert

GetTimestamp (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetTimestamp() const
 Description: Returns the Timestamp of the image included in the payload at the time of the FrameStart internal event. Visibility: Expert

GetTimestampLatchValue (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetTimestampLatchValue() const
 Description: Returns the last Timestamp latched with the TimestampLatch command. Visibility: Expert

GetTransferBlockID (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetTransferBlockID() const
 Description: Returns the unique identifier of the transfer block used to transport the payload. Visibility: Expert

GetTransferQueueCurrentBlockCount (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetTransferQueueCurrentBlockCount() const
 Description: Returns the current number of blocks in the transfer queue. Visibility: Expert

GetWidth (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetWidth() const
 Description: Returns the Width of the image included in the payload. Visibility: Expert

SetChunks (*self, pNodeMap*)
Parameters **pNodeMap** (*Spinnaker::GenApi::INodeMap &*) –
 void Spinnaker::ChunkData::SetChunks(GenApi::INodeMap &pNodeMap)

thisown
 The membership flag

4.9 PySpin.Exception

4.10 PySpin.Image

class `PySpin.Image` (*args, **kwargs)

The image object class.

C++ includes: Image.h

CalculateChannelStatistics (*self*, *channel*) → ChannelStatistics

Parameters **channel** (*enum Spinnaker::StatisticsChannel*) –

Returns a ChannelStatistics instance for the current image on a given channel.

channel: Channel to generate statistics on.

CheckCRC (*self*) → bool

Parameters **self** (*Spinnaker::Image const **) –

bool Spinnaker::Image::CheckCRC() const

Checks if the computed checksum matches with chunk data's ImageCRC

Returns true if computed checksum matches with the chunk data's CRC and false otherwise.

Convert (*self*, *format*, *algorithm*) → ImagePtr

Parameters

- **format** (*enum Spinnaker::PixelFormatEnums*) –
- **algorithm** (*enum Spinnaker::ColorProcessingAlgorithm*) –
- **format** → **ImagePtr** (`Convert` (*self*,) –
- **format** –

ImagePtr Spinnaker::Image::Convert(Spinnaker::PixelFormatEnums format, ColorProcessingAlgorithm algorithm=DEFAULT) const

Converts the current image buffer to the specified output pixel format and stores the result in the specified image. The destination image does not need to be configured in any way before the call is made.

See: PixelFormatEnums

format: Output format of the converted image.

algorithm: processing algorithm for producing the converted image

The converted image.

static Create () → ImagePtr

Create(image) -> ImagePtr

Parameters

- **image** (*Spinnaker::ImagePtr const*) –
- **height, offsetX, offsetY, pixelFormat, pData** → **ImagePtr**
(`Create` (*width*,) –
- **width** (*size_t*) –
- **height** (*size_t*) –

- **offsetX** (*size_t*) –
- **offsetY** (*size_t*) –
- **pixelFormat** (*enum Spinnaker::PixelFormatEnums*) –
- **pData** (*void **) –

Creates a new Image object, either using a default constructor, copied from another ImagePtr, or using width, height, offset_x, offset_y, pixel format, and a NumPy array containing 8-bit unsigned ints representing the image data (replaces the void* pData argument).

DeepCopy (*self, pSrcImage*)

Parameters **pSrcImage** (*Spinnaker::ImagePtr const*) –

void Spinnaker::Image::DeepCopy(const ImagePtr pSrcImage)

Performs a deep copy of the Image. After this operation, the image contents and member variables will be the same. The Images will not share a buffer. The Image's current buffer will not be released.

pSrcImage: The Image to copy the data from.

GetBitsPerPixel (*self*) → *size_t*

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetBitsPerPixel() const

Gets the number of bits used per pixel in the image. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The number of bits used per pixel.

GetBufferSize (*self*) → *size_t*

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetBufferSize() const

Gets the size of the buffer associated with the image in bytes.

The size of the buffer, in bytes.

GetChunkData (*self*) → *ChunkData*

Parameters **self** (*Spinnaker::Image const **) –

const *ChunkData*& Spinnaker::Image::GetChunkData() const

Returns a pointer to a chunk data interface. No ownership is transferred, the chunk data interface reference is valid until Image::Release() is called on this image.

ChunkData interface that provides access to image chunks.

GetChunkLayoutId (*self*) → *uint64_t*

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetChunkLayoutId() const

Returns the id of the chunk data layout.

uint64_t value representing the id of the chunk data layout.

GetColorProcessing (*self*) → *Spinnaker::ColorProcessingAlgorithm*

Parameters **self** (*Spinnaker::Image const **) –

ColorProcessingAlgorithm Spinnaker::Image::GetColorProcessing() const

Gets the algorithm used to produce the image.

See: Convert()

The color processing algorithm used to produce the image.

static GetDefaultColorProcessing () → Spinnaker::ColorProcessingAlgorithm

GetFrameID (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetFrameID() const

Gets the frame ID for this image.

The frame ID.

GetHeight (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetHeight() const

Gets the height of the image in pixels. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The height in pixels.

GetID (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetID() const

Gets a unique ID for this image. Each image in a stream will have a unique ID to help identify it.

The 64 bit unique id for this image.

GetImageSize (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetImageSize() const

Returns the size of the image

The image size in bytes.

GetImageStatus (*self*) → Spinnaker::ImageStatus

Parameters **self** (*Spinnaker::Image const **) –

ImageStatus Spinnaker::Image::GetImageStatus() const

Returns data integrity status of the image returned from GetNextImage()

Returns whether image has any data integrity issues.

static GetImageStatusDescription (*status*) → char const *

Parameters **status** (*enum Spinnaker::ImageStatus*) –

GetNumChannels (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

GetPayloadType (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **)–

size_t Spinnaker::Image::GetPayloadType() const

Gets the payload type that was transmitted. This is a device types specific value that identifies how the image was transmitted. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

Device types specific payload type.

GetPixelFormat (*self*) → Spinnaker::PixelFormatEnums

Parameters **self** (*Spinnaker::Image const **)–

Spinnaker::PixelFormatEnums Spinnaker::Image::GetPixelFormat() const

Returns an enum value that represents the pixel format of this image. The enum can be used with the easy access GenICam features available through the Camera.h header file. This easy access enum can also be used in the Convert() function.

See: Convert()

enum value representing the PixelFormat.

GetPixelFormatIntType (*self*) → Spinnaker::PixelFormatIntType

Parameters **self** (*Spinnaker::Image const **)–

GetPixelFormatName (*self*) → gcstring

Parameters **self** (*Spinnaker::Image const **)–

GenICam::gcstring Spinnaker::Image::GetPixelFormatName() const

Returns a string value that represents this image's pixel format. The string is a valid SFNC name that maps to the underlying TL specific pixel format. This is the most generic way to identify the pixel format of the image.

string value representing the PixelFormat.

GetPrivateData (*self*) → void *

Parameters **self** (*Spinnaker::Image const **)–

void* Spinnaker::Image::GetPrivateData() const

Gets a pointer to the user passed data associated with the image. This function is considered unsafe. The pointer returned could be invalidated if the buffer is released. The pointer may also be invalidated if the Image object is passed to Image::Release().

TODO: no way to set private data for image yet.

A pointer to the user passed data pointer.

GetStride (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **)–

size_t Spinnaker::Image::GetStride() const

Gets the stride of the image in bytes. The stride of an image is how many bytes are in each row. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The stride in bytes.

GetTLPayloadType (*self*) → Spinnaker::PayloadTypeInfoIDs

Parameters **self** (*Spinnaker::Image const **) –

PayloadTypeInfoIDs Spinnaker::Image::GetTLPayloadType() const

Gets the GenTL specific payload type that was transmitted. This is a Transport Layer specific value that identifies how the image was transmitted. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

Transport Layer specific payload type.

GetTLPixelFormat (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetTLPixelFormat() const

Gets the pixel format of the image. This is a Transport Layer specific pixel format that identifies how the pixels in the image should be interpreted. To understand how to interpret this value it is necessary to know what the transport layer namespace is. This can be retrieved through a call to GetTLPixelFormatNamespace(). This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

See: GetTLPixelFormatNamespace()

Transport Layer specific pixel format.

GetTLPixelFormatNamespace (*self*) → Spinnaker::PixelFormatNamespaceID

Parameters **self** (*Spinnaker::Image const **) –

PixelFormatNamespaceID Spinnaker::Image::GetTLPixelFormatNamespace() const

Returns an enum value that represents the namespace in which this image's TL specific pixel format resides. This information is important to properly interpret the value returned by GetTLPixelFormat()

See: GetTLPixelFormat()

enum value representing the PixelFormatNamespace.

GetTimeStamp (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetTimeStamp() const

Gets the time stamp for the image in nanoseconds.

The time stamp of the image.

GetValidPayloadSize (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetValidPayloadSize() const

Returns the size of valid data in the image payload. This is the actual amount of data read from the device. A user created image has a payload size of zero. GetBufferSize() returns the total size of bytes allocated for the image.

See: GetBufferSize()

size_t value representing valid payload.

GetWidth (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetWidth() const

Gets the width of the image in pixels. This information is retrieved from the Transport Layer image format headers. It is retrieved on a per image basis.

The width in pixels.

GetXOffset (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetXOffset() const

Gets the ROI x offset in pixels for this image. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The x offset in pixels.

GetXPadding (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetXPadding() const

Gets the x padding in bytes for this image. This is the number of bytes at the end of each line to facilitate alignment in buffers. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The x padding in bytes.

GetYOffset (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetYOffset() const

Gets the ROI y offset in pixels for this image. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The y offset in pixels.

GetYPadding (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetYPadding() const

Gets the y padding in bytes for this image. This is the number of bytes at the end of each image to facilitate alignment in buffers. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The y padding in bytes.

HasCRC (*self*) → bool

Parameters **self** (*Spinnaker::Image const **) –

bool Spinnaker::Image::HasCRC() const

Checks if the image contains ImageCRC checksum from chunk data

Returns true if image contains ImageCRC checksum from chunk data and false otherwise.

IsInUse (*self*) → bool

Parameters **self** (*Spinnaker::Image **) –

bool Spinnaker::Image::IsInUse()

Returns true if the image is still in use by the stream

Returns true if the image is in use and false otherwise.

IsIncomplete (*self*) → bool

Parameters **self** (*Spinnaker::Image const **)–

bool Spinnaker::Image::IsIncomplete() const

Returns a boolean value indicating if this image was incomplete. An image is marked as incomplete if the transport layer received less data than it requested.

Returns true if image is incomplete, false otherwise.

Release (*self*)

Parameters **self** (*Spinnaker::Image **)–

void Spinnaker::Image::Release()

ResetImage (*self, width, height, offsetX, offsetY, pixelFormat*)

Parameters

- **width** (*size_t*)–
- **height** (*size_t*)–
- **offsetX** (*size_t*)–
- **offsetY** (*size_t*)–
- **pixelFormat** (*enum Spinnaker::PixelFormatEnums*)–
- **width, height, offsetX, offsetY, pixelFormat, pData**
(*ResetImage (self,)*)–
- **width** –
- **height** –
- **offsetX** –
- **offsetY** –
- **pixelFormat** –
- **pData** (*void **)–

void Spinnaker::Image::ResetImage(size_t width, size_t height, size_t offsetX, size_t offsetY, Spinnaker::PixelFormatEnums pixelFormat, void *pData)

Sets new dimensions of the image object.

width: The width of image in pixels to set.

height: The height of image in pixels to set.

offsetX: The x offset in pixels to set.

offsetY: The y offset in pixels to set.

pixelFormat: Pixel format to set.

pData: Pointer to the image buffer.

Save (*self, pFilename, format*)

Parameters

- **pFilename** (*char const **) -
- **format** (*enum Spinnaker::ImageFileFormat*) -
- **pFilename** (*Save (self,)*) -
- **pFilename** -
- **pFilename, pOption** (*Save (self,)*) -
- **pFilename** -
- **pOption** (*Spinnaker::BMPOption &*) -
- **pFilename, pOption** -
- **pFilename** -
- **pOption** -
- **pFilename, pOption** -
- **pFilename** -
- **pOption** -
- **pFilename, pOption** -
- **pFilename** -
- **pOption** -
- **pFilename, pOption** -
- **pFilename** -
- **pOption** -
- **pFilename, pOption** -
- **pFilename** -
- **pOption** -
- **pFilename, pOption** -
- **pFilename** -
- **pOption** -

void Spinnaker::Image::Save(const char *pFilename, BMPOption &pOption)

Saves the image to the specified file name with the options specified.

pFilename: Filename to save image with.

pOption: Options to use while saving image.

static SetDefaultColorProcessing (*defaultMethod*)

Parameters defaultMethod (*enum Spinnaker::ColorProcessingAlgorithm*)

-

thisown

The membership flag

4.11 PySpin.ImagePtr

class `PySpin.ImagePtr` (**args*)

A reference tracked pointer to an image object. When the ImagePtr goes out of scope, it will trigger an auto release of the image from the stream.

C++ includes: ImagePtr.h

thisown

The membership flag

4.12 PySpin.ImageStatistics

4.13 PySpin.Interface

class `PySpin.Interface` (**args, **kwargs*)

An interface object which holds a list of cameras.

C++ includes: Interface.h

GetCameras (*self, updateCameras=True*) → CameraList

Parameters

- **updateCameras** (*bool*) –
- → **CameraList** (*GetCameras(self)*) –
- **self** (*Spinnaker::Interface const **) –

CameraList Spinnaker::Interface::GetCameras(bool updateCameras=true) const

Returns a list of cameras available on this interface. This call returns either usb3 vision or gige vision cameras depending on the underlying transport layer of this interface. The camera list object will reference count the cameras that it holds. It is important that the CameraList is destroyed or is cleared before System::ReleaseInstance() can be called or an InterfaceList that holds this interface can be cleared.

See: System::ReleaseInstance()

See: InterfaceList::Clear()

See: CameraList::Clear()

updateCameras: A flag used to issue an updateCameras() call internally before getting the camera list

An CameraList object that contains a list of cameras on this interface.

GetTLNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::Interface const **) –

GenApi::INodeMap& Spinnaker::Interface::GetTLNodeMap() const

Gets a nodeMap that is generated from a GenICam XML file for the GenTL interface Module.

A reference to a INodeMap object.

IsInUse (*self*) → bool

Parameters **self** (*Spinnaker::Interface const **) –

bool Spinnaker::Interface::IsInUse() const

Checks if the interface is in use by any camera objects

Returns true if the interface is in use and false otherwise.

RegisterEvent (*self*, *evtToRegister*)

Parameters *evtToRegister* (*Spinnaker::Event &*) –

void Spinnaker::Interface::RegisterEvent(Event &evtToRegister)

Registers an event for the interface

evtToRegister: The event to register for the interface

SendActionCommand (*self*, *deviceKey*, *groupKey*, *groupMask*, *actionTime=0*, *pResultSize=None*, *results=0*)

Parameters

- **deviceKey** (*unsigned int*) –
- **groupKey** (*unsigned int*) –
- **groupMask** (*unsigned int*) –
- **actionTime** (*unsigned long long*) –
- **pResultSize** (*unsigned int **) –
- **results** (*Spinnaker::ActionCommandResult []*) –
- **deviceKey, groupKey, groupMask, actionTime=0, pResultSize=None** (*SendActionCommand(self,)*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **pResultSize** –
- **deviceKey, groupKey, groupMask, actionTime=0** (*SendActionCommand(self,)*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **deviceKey, groupKey, groupMask** (*SendActionCommand(self,)*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –

void Spinnaker::Interface::SendActionCommand(unsigned int deviceKey, unsigned int groupKey, unsigned int groupMask, unsigned long long actionTime=0, unsigned int *pResultSize=0, ActionCommandResult results[]=NULL) const

Broadcast an Action Command to all devices on interface

deviceKey: The Action Command's device key

groupKey: The Action Command's group key

groupMask: The Action Command's group mask

actionTime: (Optional) Time when to assert a future action. Zero means immediate action.

pResultSize: (Optional) The number of results in the results array. The value passed should be equal to the expected number of devices that acknowledge the command. Returns the number of received results.

results: (Optional) An Array with *pResultSize elements to hold the action command result status. The buffer is filled starting from index 0. If received results are less than expected number of devices that acknowledge the command, remaining results are not changed. If received results are more than expected number of devices that acknowledge the command, extra results are ignored and not appended to array. This parameter is ignored if pResultSize is 0. Thus this parameter can be NULL if pResultSize is 0 or NULL.

TLInterface

Interface_TLInterface_get(self) -> TransportLayerInterface

Parameters *self* (*Spinnaker::Interface **) -

UnregisterEvent (*self*, *evtToUnregister*)

Parameters *evtToUnregister* (*Spinnaker::Event &*) -

void Spinnaker::Interface::UnregisterEvent(Event &evtToUnregister)

Unregisters an event for the interface

evtToUnregister: The event to unregister from the interface

UpdateCameras (*self*) → bool

Parameters *self* (*Spinnaker::Interface **) -

bool Spinnaker::Interface::UpdateCameras()

Updates the list of cameras on this interface. This function needs to be called before any cameras can be discovered using GetCameras(). System::GetCameras() will automatically call this function for each interface it enumerates. If the list changed after the last time System::GetCameras() or UpdateCameras() was called then the return value will be true, otherwise it is false.

See: System::GetCameras()

See: GetCameras()

true if cameras changed on interface and false otherwise.

thisown

The membership flag

4.14 PySpin.InterfaceList

class PySpin.InterfaceList (*args)

A list of the available interfaces on the system.

C++ includes: InterfaceList.h

Clear (*self*)

Parameters *self* (*Spinnaker::InterfaceList **) -

```
void Spinnaker::InterfaceList::Clear()
```

Clears the list of interfaces and destroys their corresponding objects. It is important to first make sure there are no referenced cameras still in use before calling `Clear()`. If a camera on any of the interfaces is still in use this function will throw an exception.

```
GetByIndex (self, index) → InterfacePtr
```

Parameters *index* (*int*) –

```
InterfacePtr Spinnaker::InterfaceList::GetByIndex(int index) const
```

Returns a pointer to an Interface object at the “index”.

index: The index at which to retrieve the Interface object

A pointer to an Interface object.

```
GetSize (self) → int
```

Parameters *self* (*Spinnaker::InterfaceList const **) –

```
int Spinnaker::InterfaceList::GetSize() const
```

Returns the size of the interface list. The size is the number of Interface objects stored in the list.

An integer that represents the list size.

thisown

The membership flag

4.15 PySpin.InterfacePtr

```
class PySpin.InterfacePtr (*args)
```

A reference tracked pointer to the interface object.

C++ includes: InterfacePtr.h

thisown

The membership flag

4.16 PySpin.System

```
class PySpin.System (*args, **kwargs)
```

The system object is used to retrieve the list of interfaces and cameras available.

C++ includes: System.h

```
GetCameras (self, updateInterfaces=True, updateCameras=True) → CameraList
```

Parameters

- **updateInterfaces** (*bool*) –
- **updateCameras** (*bool*) –
- **updateInterfaces=True** → **CameraList** (*GetCameras* (*self*,) –
- **updateInterfaces** –
- → **CameraList** (*GetCameras* (*self*)) –
- **self** (*Spinnaker::System **) –

CameraList Spinnaker::System::GetCameras(bool updateInterfaces=true, bool updateCameras=true)

Returns a list of cameras that are available on the system. This call returns both GigE Vision and Usb3 Vision cameras from all interfaces. The camera list object will reference count the cameras it returns. It is important that the camera list is destroyed or is cleared before calling system-> ReleaseInstance() or else the call to system-> ReleaseInstance() will result in an error message thrown that a reference to the camera is still held.

See: ReleaseInstance()

See: CameraList::Clear()

updateInterfaces: Determines whether or not updateInterfaceList() is called before getting cameras from available interfaces on the system

updateCameras: Determines whether or not UpdateCameras() is called before getting cameras from available interfaces on the system

An CameraList object that contains a list of all cameras.

static GetInstance () → SystemPtr

GetInterfaces (self, updateInterface=True) → InterfaceList

Parameters

- **updateInterface** (bool) –
- **-> InterfaceList** (GetInterfaces (self)) –
- **self** (Spinnaker::System *) –

InterfaceList Spinnaker::System::GetInterfaces(bool updateInterface=true)

Returns a list of interfaces available on the system. This call returns GigE and Usb2 and Usb3 interfaces.

updateInterface: Determines whether or not UpdateInterfaceList() is called before getting available interfaces

An InterfaceList object that contains a list of all interfaces.

GetLoggingEventPriorityLevel (self) → Spinnaker::SpinnakerLogLevel

Parameters self (Spinnaker::System *) –

SpinnakerLogLevel Spinnaker::System::GetLoggingEventPriorityLevel()

Retrieves the current logging event priority level.

Spinnaker uses five levels of logging: Error - failures that are non- recoverable without user intervention.

Warning - failures that are recoverable without user intervention.

Notice - information about events such as camera arrival and removal, initialization and deinitialization, starting and stopping image acquisition, and feature modification.

Info - information about recurring events that are generated regularly such as information on individual images.

Debug - information that can be used to troubleshoot the system.

See: SpinnakerLogLevel

Level The threshold level

IsInUse (self) → bool

Parameters self (Spinnaker::System *) –

bool Spinnaker::System::IsInUse()

Checks if the system is in use by any interface or camera objects.

Returns true if the system is in use and false otherwise.

RegisterInterfaceEvent (*self*, *evtToRegister*, *updateInterface=True*)

Parameters

- **evtToRegister** (*Spinnaker::Event &*) –
- **updateInterface** (*bool*) –
- **evtToRegister** (*RegisterInterfaceEvent (self,)*) –
- **evtToRegister** –

void Spinnaker::System::RegisterInterfaceEvent(Event &evtToRegister, bool updateInterface=true)

Registers events for all available interfaces that are found on the system

evtToRegister: The event to register for the available interfaces

updateInterface: Determines whether or not UpdateInterfaceList() is called before registering event for available interfaces on the system

RegisterLoggingEvent (*self*, *handler*)

Parameters handler (*Spinnaker::LoggingEvent &*) –

void Spinnaker::System::RegisterLoggingEvent(LoggingEvent &handler)

Registers a logging event.

handler: The logging event handler to register

ReleaseInstance (*self*)

Parameters self (*Spinnaker::System **) –

void Spinnaker::System::ReleaseInstance()

This call releases the instance of the System Singleton for this process. After successfully releasing the System instance the pointer returned by GetInstance() will be invalid. Calling ReleaseInstance while a camera reference is still held will throw an error of type SPINNAKER_ERR_RESOURCE_IN_USE.

See: Error

See: GetInstance()

SendActionCommand (*self*, *deviceKey*, *groupKey*, *groupMask*, *actionTime=0*, *pResultSize=None*, *results=0*)

Parameters

- **deviceKey** (*unsigned int*) –
- **groupKey** (*unsigned int*) –
- **groupMask** (*unsigned int*) –
- **actionTime** (*unsigned long long*) –
- **pResultSize** (*unsigned int **) –
- **results** (*Spinnaker::ActionCommandResult []*) –
- **deviceKey**, **groupKey**, **groupMask**, **actionTime=0**, **pResultSize=None** (*SendActionCommand (self,)*) –

- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **pResultSize** –
- **deviceKey, groupKey, groupMask, actionTime=0)** (`SendActionCommand(self,)`) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **deviceKey, groupKey, groupMask)** (`SendActionCommand(self,)`) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –

`void Spinnaker::System::SendActionCommand(unsigned int deviceKey, unsigned int groupKey, unsigned int groupMask, unsigned long long actionTime=0, unsigned int *pResultSize=0, ActionCommandResult results[]=NULL)`

Broadcast an Action Command to all devices on system

deviceKey: The Action Command's device key

groupKey: The Action Command's group key

groupMask: The Action Command's group mask

actionTime: (Optional) Time when to assert a future action. Zero means immediate action.

pResultSize: (Optional) The number of results in the results array. The value passed should be equal to the expected number of devices that acknowledge the command. Returns the number of received results.

results: (Optional) An Array with *pResultSize* elements to hold the action command result status. The buffer is filled starting from index 0. If received results are less than expected number of devices that acknowledge the command, remaining results are not changed. If received results are more than expected number of devices that acknowledge the command, extra results are ignored and not appended to array. This parameter is ignored if *pResultSize* is 0. Thus this parameter can be NULL if *pResultSize* is 0 or NULL.

SetLoggingEventPriorityLevel (*self, level*)

Parameters level (*enum Spinnaker::SpinnakerLogLevel*) –

`void Spinnaker::System::SetLoggingEventPriorityLevel(SpinnakerLogLevel level)`

Sets a threshold priority level for logging event. Logging events below such level will not trigger callbacks.

Spinnaker uses five levels of logging: Error - failures that are non-recoverable without user intervention.

Warning - failures that are recoverable without user intervention.

Notice - information about events such as camera arrival and removal, initialization and deinitialization, starting and stopping image acquisition, and feature modification.

Info - information about recurring events that are generated regularly such as information on individual images.

Debug - information that can be used to troubleshoot the system.

See: SpinnakerLogLevel

level: The threshold level

UnregisterAllLoggingEvent (*self*)

Parameters **self** (*Spinnaker::System **) –

void Spinnaker::System::UnregisterAllLoggingEvent()

Unregisters all previously registered logging events.

UnregisterInterfaceEvent (*self, evtToUnregister*)

Parameters **evtToUnregister** (*Spinnaker::Event &*) –

void Spinnaker::System::UnregisterInterfaceEvent(Event &evtToUnregister)

Unregisters events for all available interfaces that are found on the system

evtToUnregister: The event to unregister from the available interfaces

UnregisterLoggingEvent (*self, handler*)

Parameters **handler** (*Spinnaker::LoggingEvent &*) –

void Spinnaker::System::UnregisterLoggingEvent(LoggingEvent &handler)

Unregisters a logging event.

handler: The logging event handler to unregister

UpdateCameras (*self, updateInterfaces=True*) → bool

Parameters

- **updateInterfaces** (*bool*) –
- → **bool** (*UpdateCameras (self)*) –
- **self** (*Spinnaker::System **) –

bool Spinnaker::System::UpdateCameras(bool updateInterfaces=true)

Updates the list of cameras on the system. Note that System::GetCameras() internally calls UpdateCameras() for each interface it enumerates. If the list changed between this call and the last time UpdateCameras was called then the return value will be true, otherwise it is false.

See: GetCameras()

updateInterfaces: Determines whether or not UpdateInterfaceList() is called before updating cameras for available interfaces on the system

True if cameras changed on interface and false otherwise.

thisown

The membership flag

4.17 PySpin.SystemPtr

class `PySpin.SystemPtr` (*args)

A reference tracked pointer to a system object.

C++ includes: SystemPtr.h

thisown

The membership flag

QUICKSPIN CLASSES

- *PySpin.TransportLayerDevice*
- *PySpin.TransportLayerInterface*
- *PySpin.TransportLayerStream*

5.1 PySpin.TransportLayerDevice

class `PySpin.TransportLayerDevice` (*nodeMapTLDevice*)

Part of the QuickSpin API to provide access to camera information without having to first initialize the camera.

C++ includes: `TransportLayerDevice.h`

DeviceAccessStatus

`TransportLayerDevice_DeviceAccessStatus_get(self) -> IEnumerationT_DeviceAccessStatusEnum`

Parameters `self (Spinnaker::TransportLayerDevice *)` -

DeviceCurrentSpeed

`TransportLayerDevice_DeviceCurrentSpeed_get(self) -> IEnumerationT_DeviceCurrentSpeedEnum`

Parameters `self (Spinnaker::TransportLayerDevice *)` -

DeviceDisplayName

`TransportLayerDevice_DeviceDisplayName_get(self) -> IString`

Parameters `self (Spinnaker::TransportLayerDevice *)` -

DeviceDriverVersion

`TransportLayerDevice_DeviceDriverVersion_get(self) -> IString`

Parameters `self (Spinnaker::TransportLayerDevice *)` -

DeviceEndianessMechanism

`TransportLayerDevice_DeviceEndianessMechanism_get(self) -> IEnumerationT_DeviceEndianessMechanismEnum`

Parameters `self (Spinnaker::TransportLayerDevice *)` -

DeviceID

`TransportLayerDevice_DeviceID_get(self) -> IString`

Parameters `self (Spinnaker::TransportLayerDevice *)` -

DeviceInstanceId
TransportLayerDevice_DeviceInstanceId_get(self) -> IString
Parameters self (Spinnaker::TransportLayerDevice *) -

DeviceLinkSpeed
TransportLayerDevice_DeviceLinkSpeed_get(self) -> IInteger
Parameters self (Spinnaker::TransportLayerDevice *) -

DeviceModelName
TransportLayerDevice_DeviceModelName_get(self) -> IString
Parameters self (Spinnaker::TransportLayerDevice *) -

DeviceMulticastMonitorMode
TransportLayerDevice_DeviceMulticastMonitorMode_get(self) -> IBoolean
Parameters self (Spinnaker::TransportLayerDevice *) -

DeviceSerialNumber
TransportLayerDevice_DeviceSerialNumber_get(self) -> IString
Parameters self (Spinnaker::TransportLayerDevice *) -

DeviceType
TransportLayerDevice_DeviceType_get(self) -> IEnumerationT_DeviceTypeEnum
Parameters self (Spinnaker::TransportLayerDevice *) -

DeviceUserID
TransportLayerDevice_DeviceUserID_get(self) -> IString
Parameters self (Spinnaker::TransportLayerDevice *) -

DeviceVendorName
TransportLayerDevice_DeviceVendorName_get(self) -> IString
Parameters self (Spinnaker::TransportLayerDevice *) -

DeviceVersion
TransportLayerDevice_DeviceVersion_get(self) -> IString
Parameters self (Spinnaker::TransportLayerDevice *) -

GUIXMLLocation
TransportLayerDevice_GUIXMLLocation_get(self) -> IEnumerationT_GUIXMLLocationEnum
Parameters self (Spinnaker::TransportLayerDevice *) -

GUIXMLPath
TransportLayerDevice_GUIXMLPath_get(self) -> IString
Parameters self (Spinnaker::TransportLayerDevice *) -

GenICamXMLLocation
TransportLayerDevice_GenICamXMLLocation_get(self) -> IEnumerationT_GenICamXMLLocationEnum
Parameters self (Spinnaker::TransportLayerDevice *) -

GenICamXMLPath
TransportLayerDevice_GenICamXMLPath_get(self) -> IString
Parameters self (Spinnaker::TransportLayerDevice *) -

GevCCP
 TransportLayerDevice_GevCCP_get(self) -> IEnumerationT_GevCCPEnum
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceDiscoverMaximumPacketSize
 TransportLayerDevice_GevDeviceDiscoverMaximumPacketSize_get(self) -> ICommand
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceGateway
 TransportLayerDevice_GevDeviceGateway_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceIPAddress
 TransportLayerDevice_GevDeviceIPAddress_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceMACAddress
 TransportLayerDevice_GevDeviceMACAddress_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceMaximumPacketSize
 TransportLayerDevice_GevDeviceMaximumPacketSize_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceMaximumRetryCount
 TransportLayerDevice_GevDeviceMaximumRetryCount_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceModeIsBigEndian
 TransportLayerDevice_GevDeviceModeIsBigEndian_get(self) -> IBoolean
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDevicePort
 TransportLayerDevice_GevDevicePort_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceReadAndWriteTimeout
 TransportLayerDevice_GevDeviceReadAndWriteTimeout_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceSubnetMask
 TransportLayerDevice_GevDeviceSubnetMask_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevVersionMajor
 TransportLayerDevice_GevVersionMajor_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevVersionMinor
 TransportLayerDevice_GevVersionMinor_get(self) -> IInteger
Parameters *self* (*Spinnaker::TransportLayerDevice **) -

thisown
 The membership flag

5.2 PySpin.TransportLayerInterface

class PySpin.TransportLayerInterface (*nodeMapTLDevice*)

Part of the QuickSpin API to provide access to camera information without having to first initialize the camera.

C++ includes: TransportLayerInterface.h

ActionCommand

TransportLayerInterface_ActionCommand_get(self) -> ICommand

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

AutoForceIP

TransportLayerInterface_AutoForceIP_get(self) -> ICommand

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

DeviceAccessStatus

TransportLayerInterface_DeviceAccessStatus_get(self) -> IEnumerationT_DeviceAccessStatusEnum

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

DeviceCount

TransportLayerInterface_DeviceCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

DeviceID

TransportLayerInterface_DeviceID_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

DeviceModelName

TransportLayerInterface_DeviceModelName_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

DeviceSelector

TransportLayerInterface_DeviceSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

DeviceUnlock

TransportLayerInterface_DeviceUnlock_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

DeviceUpdateList

TransportLayerInterface_DeviceUpdateList_get(self) -> ICommand

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

DeviceVendorName

TransportLayerInterface_DeviceVendorName_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

GevActionDeviceKey

TransportLayerInterface_GevActionDeviceKey_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

GevActionGroupKey

TransportLayerInterface_GevActionGroupKey_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

GevActionGroupMask
 TransportLayerInterface_GevActionGroupMask_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

GevActionTime
 TransportLayerInterface_GevActionTime_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

GevDeviceIPAddress
 TransportLayerInterface_GevDeviceIPAddress_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

GevDeviceMACAddress
 TransportLayerInterface_GevDeviceMACAddress_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

GevDeviceSubnetMask
 TransportLayerInterface_GevDeviceSubnetMask_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

GevInterfaceGateway
 TransportLayerInterface_GevInterfaceGateway_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

GevInterfaceIPAddress
 TransportLayerInterface_GevInterfaceIPAddress_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

GevInterfaceMACAddress
 TransportLayerInterface_GevInterfaceMACAddress_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

GevInterfaceSubnetMask
 TransportLayerInterface_GevInterfaceSubnetMask_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

IncompatibleDeviceCount
 TransportLayerInterface_IncompatibleDeviceCount_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

IncompatibleDeviceID
 TransportLayerInterface_IncompatibleDeviceID_get(self) -> IString
 Parameters self (Spinnaker::TransportLayerInterface *) -

IncompatibleDeviceModelName
 TransportLayerInterface_IncompatibleDeviceModelName_get(self) -> IString
 Parameters self (Spinnaker::TransportLayerInterface *) -

IncompatibleDeviceSelector
 TransportLayerInterface_IncompatibleDeviceSelector_get(self) -> IInteger
 Parameters self (Spinnaker::TransportLayerInterface *) -

IncompatibleDeviceVendorName
 TransportLayerInterface_IncompatibleDeviceVendorName_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) –

InterfaceDisplayName
TransportLayerInterface_InterfaceDisplayName_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) –

InterfaceID
TransportLayerInterface_InterfaceID_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) –

InterfaceType
TransportLayerInterface_InterfaceType_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) –

POEStatus
TransportLayerInterface_POEStatus_get(self) -> IEnumerationT_POEStatusEnum

Parameters **self** (*Spinnaker::TransportLayerInterface **) –

thisown
The membership flag

5.3 PySpin.TransportLayerStream

class `PySpin.TransportLayerStream` (*nodeMapTLDevice*)
Part of the QuickSpin API to provide access to camera information without having to first initialize the camera.
C++ includes: `TransportLayerStream.h`

GevFailedPacketCount
TransportLayerStream_GevFailedPacketCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerStream **) –

GevMaximumNumberResendBuffers
TransportLayerStream_GevMaximumNumberResendBuffers_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerStream **) –

GevMaximumNumberResendRequests
TransportLayerStream_GevMaximumNumberResendRequests_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerStream **) –

GevPacketResendMode
TransportLayerStream_GevPacketResendMode_get(self) -> IBoolean

Parameters **self** (*Spinnaker::TransportLayerStream **) –

GevPacketResendTimeout
TransportLayerStream_GevPacketResendTimeout_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerStream **) –

GevResendPacketCount
TransportLayerStream_GevResendPacketCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerStream **) –

GevResendRequestCount
TransportLayerStream_GevResendRequestCount_get(self) -> IInteger

```

    Parameters self (Spinnaker::TransportLayerStream *) -
GevTotalPacketCount
    TransportLayerStream_GevTotalPacketCount_get(self) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamBlockTransferSize
    TransportLayerStream_StreamBlockTransferSize_get(self) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamBufferHandlingMode
    TransportLayerStream_StreamBufferHandlingMode_get(self) -> IEnumera-
    tionT_StreamBufferHandlingModeEnum
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamBufferUnderrunCount
    TransportLayerStream_StreamBufferUnderrunCount_get(self) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamCRCCheckEnable
    TransportLayerStream_StreamCRCCheckEnable_get(self) -> IBoolean
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamDefaultBufferCount
    TransportLayerStream_StreamDefaultBufferCount_get(self) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamDefaultBufferCountMax
    TransportLayerStream_StreamDefaultBufferCountMax_get(self) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamDefaultBufferCountMode
    TransportLayerStream_StreamDefaultBufferCountMode_get(self) -> IEnumera-
    tionT_StreamDefaultBufferCountModeEnum
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamFailedBufferCount
    TransportLayerStream_StreamFailedBufferCount_get(self) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamID
    TransportLayerStream_StreamID_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamTotalBufferCount
    TransportLayerStream_StreamTotalBufferCount_get(self) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) -
StreamType
    TransportLayerStream_StreamType_get(self) -> IEnumerationT_StreamTypeEnum
    Parameters self (Spinnaker::TransportLayerStream *) -
thisown
    The membership flag

```


PYSPIN MODULE

class PySpin.**AVIOption**

Bases: object

Options for saving AVI files.

C++ includes: SpinnakerDefs.h

frameRate

AVIOption_frameRate_get(self) -> float

Parameters **self** (*Spinnaker::AVIOption **) -

reserved

AVIOption_reserved_get(self) -> unsigned int [256]

Parameters **self** (*Spinnaker::AVIOption **) -

thisown

The membership flag

class PySpin.**AVIRecorder**

Bases: object

Provides the functionality for the user to record images to an AVI file.

C++ includes: AVIRecorder.h

AVIAppend (*self, pImage*)

Parameters **pImage** (*Spinnaker::ImagePtr*) -

virtual void Spinnaker::AVIRecorder::AVIAppend(ImagePtr pImage)

Append an image to the AVI/MP4 file.

pImage: The image to append.

AVIClose (*self*)

Parameters **self** (*Spinnaker::AVIRecorder **) -

virtual void Spinnaker::AVIRecorder::AVIClose()

Close the AVI/MP4 file.

See: AVIOpen()

AVIOpen (*self, pFileName, pOption*)

Parameters

• **pFileName** (*char const **) -

- **pOption** (*Spinnaker::H264Option &*) –
- **pFileName, pOption** (*AVIOpen(self,)*) –
- **pFileName** –
- **pOption** –
- **pFileName, pOption** –
- **pFileName** –
- **pOption** –

virtual void Spinnaker::AVIRecorder::AVIOpen(const char *pFileName, H264Option &pOption)

Open an H264 MP4 file in preparation for writing Images to disk. The size of MP4 files is limited to 2GB. The filenames are automatically generated using the filename specified.

pFileName: The filename of the MP4 file.

pOption: H264 options to apply to the MP4 file.

See: AVIClose()

See: H264Option

SetMaximumAVISize (*self, size*)

Parameters **size** (*unsigned int*) –

thisown

The membership flag

class PySpin.**ActionCommandResult**

Bases: object

Action Command Result

C++ includes: SpinnakerDefs.h

DeviceAddress

ActionCommandResult_DeviceAddress_get(self) -> unsigned int

Parameters **self** (*Spinnaker::ActionCommandResult **) –

Status

ActionCommandResult_Status_get(self) -> Spinnaker::ActionCommandStatus

Parameters **self** (*Spinnaker::ActionCommandResult **) –

thisown

The membership flag

class PySpin.**ArrivalEvent**

Bases: *PySpin.IArrivalEvent*

An event handler for capturing the device arrival event.

C++ includes: ArrivalEvent.h

OnDeviceArrival (*self, serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

virtual void Spinnaker::ArrivalEvent::OnDeviceArrival(uint64_t serialNumber)=0

Callback to the device arrival event.

thisown

The membership flag

class PySpin.**BMPOption**

Bases: object

Options for saving Bitmap image.

C++ includes: SpinnakerDefs.h

indexedColor_8bit

BMPOption_indexedColor_8bit_get(self) -> bool

Parameters **self** (*Spinnaker::BMPOption **) -

reserved

BMPOption_reserved_get(self) -> unsigned int [16]

Parameters **self** (*Spinnaker::BMPOption **) -

thisown

The membership flag

class PySpin.**BooleanNode** (*args, **kwargs)

Bases: *PySpin.IBoolean*, *PySpin.ValueNode*

Interface for string properties.

C++ includes: BooleanNode.h

GetValue (*self, Verify=False, IgnoreCache=False*) → bool

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -
- **Verify=False** → bool (*GetValue (self,)*) -
- **Verify** -
- → bool (*GetValue (self)*) -
- **self** (*Spinnaker::GenApi::BooleanNode const **) -

bool Spinnaker::GenApi::BooleanNode::GetValue(bool Verify=false, bool IgnoreCache=false) const

Get node value

Verify: Enables Range verification (default = false). The AccessMode is always checked.

IgnoreCache: If true the value is read ignoring any caches (default = false).

The value read.

SetReference (*self, pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) -

virtual void Spinnaker::GenApi::BooleanNode::SetReference(INode *pBase)

overload SetReference for Value

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*bool*) -

- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

void Spinnaker::GenApi::BooleanNode::SetValue(bool Value, bool Verify=true)

Set node value

Value: The value to set.

Verify: Enables AccessMode and Range verification (default = true).

thisown

The membership flag

class PySpin.**CBasePtr** (*args)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

GetAccessMode (*self*) → Spinnaker::GenApi::EAccessMode

Parameters self (*Spinnaker::GenApi::CPointer< IBase, IBase > const **) –

IsValid (*self*) → bool

Parameters self (*Spinnaker::GenApi::CPointer< IBase, IBase > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

thisown

The membership flag

class PySpin.**CBooleanPtr** (*args)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

DeregisterCallback (*self, hCallback*) → bool

Parameters hCallback (*Spinnaker::GenApi::CallbackHandleType*) –

FromString (*self, ValueStr, Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **Verify** (*bool*) –
- **ValueStr** (*FromString (self,)*) –
- **ValueStr** –

GetAccessMode (*self*) → Spinnaker::GenApi::EAccessMode

Parameters self (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

GetAlias (*self*) → INode

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetCachingMode (*self*) → Spinnaker::GenApi::ECachingMode

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetCastAlias (*self*) → INode

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetChildren (*self*, *LinkType*)

Parameters

- **LinkType** (enum Spinnaker::GenApi::ELinkType) –
- **GetChildren** (**self**) –
- **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetDescription (*self*) → gcstring

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetDeviceName (*self*) → gcstring

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetDisplayName (*self*) → gcstring

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetDocuURL (*self*) → gcstring

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetEventID (*self*) → gcstring

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetName (*self*, *FullQualified=False*) → gcstring

Parameters

- **FullQualified** (*bool*) –
- → **gcstring** (**GetName** (*self*)) –
- **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetNameSpace (*self*) → Spinnaker::GenApi::ENamespace

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) –

GetNode (*self*) → INode

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > *) –

GetNodeMap (*self*) → INodeMap

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) -

GetParents (*self*)

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) -

GetPollingTime (*self*) → int64_t

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) -

GetPrincipalInterfaceType (*self*) → Spinnaker::GenApi::EInterfaceType

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) -

GetProperty (*self*, *PropertyName*, *ValueStr*, *AttributeStr*) → bool

Parameters

- **PropertyName** (Spinnaker::GenICam::gcstring const &)-
- **ValueStr** (Spinnaker::GenICam::gcstring &)-
- **AttributeStr** (Spinnaker::GenICam::gcstring &)-

GetPropertyNames (*self*)

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) -

GetSelectedFeatures (*self*, *arg2*)

Parameters **arg2** (FeatureList_t &)-

GetSelectingFeatures (*self*, *arg2*)

Parameters **arg2** (FeatureList_t &)-

GetToolTip (*self*) → gcstring

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) -

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → bool

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False** → bool (GetValue (*self*,)-
- **Verify** -
- → bool (GetValue (*self*))-
- **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *)-

GetVisibility (*self*) → Spinnaker::GenApi::EVisibility

Parameters **self** (Spinnaker::GenApi::CPointer< IBoolean, IBase > const *) -

ImposeAccessMode (*self*, *ImposedAccessMode*)

Parameters **ImposedAccessMode** (*enum Spinnaker::GenApi::EAccessMode*) –
ImposeVisibility (*self, ImposedVisibility*)

Parameters **ImposedVisibility** (*enum Spinnaker::GenApi::EVisibility*) –
InvalidateNode (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > **) –
IsAccessModeCacheable (*self*) → Spinnaker::GenApi::EYesNo

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

IsCachable (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

IsDeprecated (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

IsFeature (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

IsSelector (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

IsStreamable (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

IsValidCacheValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > const **) –

RegisterCallback (*self, pCallback*) → Spinnaker::GenApi::CallbackHandleType

Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **) –

SetReference (*self, pBase*)

Parameters **pBase** (*INode **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*bool*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –

- **Value** –

ToString (*self*, *Verify=False*, *IgnoreCache=False*) → *gcstring*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *gcstring* (**ToString** (*self*)) –
- **Verify** –
- → *gcstring* (**ToString** (*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< IBoolean, IBase > **) –

thisown

The membership flag

class *PySpin.CCategoryPtr* (*args)

Bases: *object*

Encapsulates a GenApi pointer dealing with the *dynamic_cast* automatically.

C++ includes: *Pointer.h*

DeregisterCallback (*self*, *hCallback*) → *bool*

Parameters *hCallback* (*Spinnaker::GenApi::CallbackHandleType*) –

FromString (*self*, *ValueStr*, *Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **Verify** (*bool*) –
- **ValueStr** (**FromString** (*self*)) –
- **ValueStr** –

GetAccessMode (*self*) → *Spinnaker::GenApi::EAccessMode*

Parameters **self** (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetAlias (*self*) → *INode*

Parameters **self** (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetCachingMode (*self*) → *Spinnaker::GenApi::ECachingMode*

Parameters **self** (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetCastAlias (*self*) → *INode*

Parameters **self** (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetChildren (*self*, *LinkType*)

Parameters

- **LinkType** (*enum Spinnaker::GenApi::ELinkType*) –

- **GetChildren**(*self*) –
- **self** (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetDescription (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetDeviceName (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetDisplayName (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetDocuURL (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetEventID (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetFeatures (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetName (*self*, *FullQualified=False*) → gcstring

Parameters

- **FullQualified** (*bool*) –
- → **gcstring** (*GetName* (*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetNameSpace (*self*) → *Spinnaker::GenApi::ENamespace*

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetNode (*self*) → *INode*

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > **) –

GetNodeMap (*self*) → *INodeMap*

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetParents (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< ICategory, IBase > const **) –

GetPollingTime (*self*) → *int64_t*

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > const *) –

GetPrincipalInterfaceType (*self*) → Spinnaker::GenApi::EInterfaceType

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > const *) –

GetProperty (*self*, *PropertyName*, *ValueStr*, *AttributeStr*) → bool

Parameters

- **PropertyName** (Spinnaker::GenICam::gcstring const &) –
- **ValueStr** (Spinnaker::GenICam::gcstring &) –
- **AttributeStr** (Spinnaker::GenICam::gcstring &) –

GetPropertyNames (*self*)

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > const *) –

GetSelectedFeatures (*self*, *arg2*)

Parameters **arg2** (FeatureList_t &) –

GetSelectingFeatures (*self*, *arg2*)

Parameters **arg2** (FeatureList_t &) –

GetToolTip (*self*) → gcstring

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > const *) –

GetVisibility (*self*) → Spinnaker::GenApi::EVisibility

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > const *) –

ImposeAccessMode (*self*, *ImposedAccessMode*)

Parameters **ImposedAccessMode** (enum Spinnaker::GenApi::EAccessMode) –

ImposeVisibility (*self*, *ImposedVisibility*)

Parameters **ImposedVisibility** (enum Spinnaker::GenApi::EVisibility) –

InvalidateNode (*self*)

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > *) –

IsAccessModeCacheable (*self*) → Spinnaker::GenApi::EYesNo

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > const *) –

IsCachable (*self*) → bool

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > const *) –

IsDeprecated (*self*) → bool

Parameters **self** (Spinnaker::GenApi::CPointer< ICategory, IBase > const *) –

IsFeature (*self*) → bool

```

    Parameters self (Spinnaker::GenApi::CPointer< ICategory, IBase >
        const *)-
IsSelector (self) → bool
    Parameters self (Spinnaker::GenApi::CPointer< ICategory, IBase >
        const *)-
IsStreamable (self) → bool
    Parameters self (Spinnaker::GenApi::CPointer< ICategory, IBase >
        const *)-
IsValid (self) → bool
    Parameters self (Spinnaker::GenApi::CPointer< ICategory, IBase >
        const *)-
    bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid
IsValidCacheValid (self) → bool
    Parameters self (Spinnaker::GenApi::CPointer< ICategory, IBase >
        const *)-
RegisterCallback (self, pCallback) → Spinnaker::GenApi::CallbackHandleType
    Parameters pCallback (Spinnaker::GenApi::CNodeCallback *)-
SetReference (self, pBase)
    Parameters pBase (INode *)-
ToString (self, Verify=False, IgnoreCache=False) → gcstring
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
        • Verify=False → gcstring(ToString(self,)-
        • Verify -
        • → gcstring(ToString(self))-
        • self (Spinnaker::GenApi::CPointer< ICategory, IBase > *)-
thisown
    The membership flag
class PySpin.CCommandPtr (*args)
    Bases: object
    Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.
    C++ includes: Pointer.h
DeregisterCallback (self, hCallback) → bool
    Parameters hCallback (Spinnaker::GenApi::CallbackHandleType)-
Execute (self, Verify=True)
    Parameters
        • Verify (bool)-

```

- **Execute (self)** –
- **self** (*Spinnaker::GenApi::CPointer< ICommand, IBase > **)–

FromString (*self, ValueStr, Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **Verify** (*bool*)–
- **ValueStr** (*FromString (self,)*)–
- **ValueStr** –

GetAccessMode (*self*) → *Spinnaker::GenApi::EAccessMode*

Parameters self (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetAlias (*self*) → *INode*

Parameters self (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetCachingMode (*self*) → *Spinnaker::GenApi::ECachingMode*

Parameters self (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetCastAlias (*self*) → *INode*

Parameters self (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetChildren (*self, LinkType*)

Parameters

- **LinkType** (*enum Spinnaker::GenApi::ELinkType*)–
- **GetChildren (self)** –
- **self** (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetDescription (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetDeviceName (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetDisplayName (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetDocuURL (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< ICommand, IBase > const **)–

GetEventID (*self*) → *gcstring*

```

Parameters self      (Spinnaker::GenApi::CPointer< ICommand, IBase >
                        const *)-
GetName (self, FullQualified=False) → gcstring
Parameters
  • FullQualified (bool)-
  • -> gcstring (GetName (self))-
  • self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *)-
GetNameSpace (self) → Spinnaker::GenApi::ENamespace
Parameters self      (Spinnaker::GenApi::CPointer< ICommand, IBase >
                        const *)-
GetNode (self) → INode
Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > *)-
GetNodeMap (self) → INodeMap
Parameters self      (Spinnaker::GenApi::CPointer< ICommand, IBase >
                        const *)-
GetParents (self)
Parameters self      (Spinnaker::GenApi::CPointer< ICommand, IBase >
                        const *)-
GetPollingTime (self) → int64_t
Parameters self      (Spinnaker::GenApi::CPointer< ICommand, IBase >
                        const *)-
GetPrincipalInterfaceType (self) → Spinnaker::GenApi::EInterfaceType
Parameters self      (Spinnaker::GenApi::CPointer< ICommand, IBase >
                        const *)-
GetProperty (self, PropertyName, ValueStr, AttributeStr) → bool
Parameters
  • PropertyName (Spinnaker::GenICam::gcstring const &)-
  • ValueStr (Spinnaker::GenICam::gcstring &)-
  • AttributeStr (Spinnaker::GenICam::gcstring &)-
GetPropertyNames (self)
Parameters self      (Spinnaker::GenApi::CPointer< ICommand, IBase >
                        const *)-
GetSelectedFeatures (self, arg2)
Parameters arg2 (FeatureList_t &)-
GetSelectingFeatures (self, arg2)
Parameters arg2 (FeatureList_t &)-
GetToolTip (self) → gcstring
Parameters self      (Spinnaker::GenApi::CPointer< ICommand, IBase >
                        const *)-

```

GetVisibility (*self*) → Spinnaker::GenApi::EVisibility

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

ImposeAccessMode (*self*, *ImposedAccessMode*)

Parameters ImposedAccessMode (enum Spinnaker::GenApi::EAccessMode) –

ImposeVisibility (*self*, *ImposedVisibility*)

Parameters ImposedVisibility (enum Spinnaker::GenApi::EVisibility) –

InvalidateNode (*self*)

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > *) –

IsAccessModeCacheable (*self*) → Spinnaker::GenApi::EYesNo

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

IsCacheable (*self*) → bool

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

IsDeprecated (*self*) → bool

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

IsDone (*self*, *Verify=True*) → bool

Parameters

- **Verify** (*bool*) –
- → **bool** (**IsDone** (*self*)) –
- **self** (Spinnaker::GenApi::CPointer< ICommand, IBase > *) –

IsFeature (*self*) → bool

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

IsSelector (*self*) → bool

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

IsStreamable (*self*) → bool

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

IsValid (*self*) → bool

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

IsValueCacheValid (*self*) → bool

Parameters self (Spinnaker::GenApi::CPointer< ICommand, IBase > const *) –

RegisterCallback (*self*, *pCallback*) → Spinnaker::GenApi::CallbackHandleType

Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **)–

SetReference (*self*, *pBase*)

Parameters **pBase** (*INode **)–

ToStdString (*self*, *Verify=False*, *IgnoreCache=False*) → gcstring

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → gcstring (*ToStdString* (*self*,))–
- **Verify** –
- → gcstring (*ToStdString* (*self*))–
- **self** (*Spinnaker::GenApi::CPointer< ICommand, IBase > **)–

thisown

The membership flag

class PySpin.CDeviceInfoPtr (**args*)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

GetDeviceVersion (*self*, *Version*)

Parameters **Version** (*Spinnaker::GenICam::Version_t &*)–

GetGenApiVersion (*self*, *Version*, *Build*)

Parameters

- **Version** (*Spinnaker::GenICam::Version_t &*)–
- **Build** (*uint16_t &*)–

GetModelName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IDeviceInfo, INodeMap > **)–

GetProductGuid (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IDeviceInfo, INodeMap > **)–

GetSchemaVersion (*self*, *Version*)

Parameters **Version** (*Spinnaker::GenICam::Version_t &*)–

GetStandardNameSpace (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IDeviceInfo, INodeMap > **)–

GetToolTip (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IDeviceInfo, INodeMap > **)–

GetVendorName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IDeviceInfo, INodeMap > **) –

GetVersionGuid (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IDeviceInfo, INodeMap > **) –

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IDeviceInfo, INodeMap > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

thisown

The membership flag

class PySpin.**CEnumEntryPtr** (*args)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

DeregisterCallback (*self, hCallback*) → bool

Parameters **hCallback** (*Spinnaker::GenApi::CallbackHandleType*) –

FromString (*self, ValueStr, Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **Verify** (*bool*) –
- **ValueStr** (*FromString(self,)*) –
- **ValueStr** –

GetAccessMode (*self*) → Spinnaker::GenApi::EAccessMode

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetAlias (*self*) → INode

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetCachingMode (*self*) → Spinnaker::GenApi::ECachingMode

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetCastAlias (*self*) → INode

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetChildren (*self, LinkType*)

Parameters

- **LinkType** (*enum Spinnaker::GenApi::ELinkType*) –

- **GetChildren** (*self*) –
- **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetDescription (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetDeviceName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetDisplayName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetDocuURL (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetEventID (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetName (*self*, *FullQualified=False*) → gcstring

Parameters

- **FullQualified** (*bool*) –
- → **gcstring** (*GetName* (*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetNameSpace (*self*) → Spinnaker::GenApi::ENamespace

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetNode (*self*) → INode

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > **) –

–

GetNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetNumericValue (*self*) → double

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > **) –

–

GetParents (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

GetPollingTime (*self*) → int64_t

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **)–

GetPrincipalInterfaceType (*self*) → *Spinnaker::GenApi::EInterfaceType*

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **)–

GetProperty (*self, PropertyName, ValueStr, AttributeStr*) → *bool*

Parameters

- **PropertyName** (*Spinnaker::GenICam::gcstring const &*)–
- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **AttributeStr** (*Spinnaker::GenICam::gcstring &*)–

GetPropertyNames (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **)–

GetSelectedFeatures (*self, arg2*)

Parameters arg2 (*FeatureList_t &*)–

GetSelectingFeatures (*self, arg2*)

Parameters arg2 (*FeatureList_t &*)–

GetSymbolic (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **)–

GetToolTip (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **)–

GetValue (*self*) → *int64_t*

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > **)–

GetVisibility (*self*) → *Spinnaker::GenApi::EVisibility*

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **)–

ImposeAccessMode (*self, ImposedAccessMode*)

Parameters ImposedAccessMode (*enum Spinnaker::GenApi::EAccessMode*)–

ImposeVisibility (*self, ImposedVisibility*)

Parameters ImposedVisibility (*enum Spinnaker::GenApi::EVisibility*)–

InvalidateNode (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > **)–

IsAccessModeCacheable (*self*) → *Spinnaker::GenApi::EYesNo*

Parameters self (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **)–

IsCachable (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

IsDeprecated (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

IsFeature (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

IsSelector (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

IsSelfClearing (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > **) –

IsStreamable (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

IsValidCacheValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > const **) –

RegisterCallback (*self, pCallback*) → Spinnaker::GenApi::CallbackHandleType

Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **) –

SetReference (*self, pBase*)

Parameters **pBase** (*INode **) –

ToString (*self, Verify=False, IgnoreCache=False*) → gcstring

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → gcstring(**ToString** (*self*),) –
- **Verify** –
- → gcstring(**ToString** (*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< IEnumEntry, IBase > **) –

thisown

The membership flag

class PySpin.CEnumerationPtr(*args)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

DeregisterCallback (self, hCallback) → bool

Parameters hCallback (Spinnaker::GenApi::CallbackHandleType)–

FromString (self, ValueStr, Verify=True)

Parameters

- **ValueStr** (Spinnaker::GenICam::gcstring const &)–
- **Verify** (bool)–
- **ValueStr** (FromString (self,))–
- **ValueStr** –

GetAccessMode (self) → Spinnaker::GenApi::EAccessMode

Parameters self (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *)–

GetAlias (self) → INode

Parameters self (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *)–

GetCachingMode (self) → Spinnaker::GenApi::ECachingMode

Parameters self (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *)–

GetCastAlias (self) → INode

Parameters self (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *)–

GetChildren (self, LinkType)

Parameters

- **LinkType** (enum Spinnaker::GenApi::ELinkType)–
- **GetChildren** (self) –
- **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *)–

GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry

Parameters

- **Verify** (bool)–
- **IgnoreCache** (bool)–
- **Verify=False** → **IEnumEntry** (GetCurrentEntry (self,))–
- **Verify** –
- → **IEnumEntry** (GetCurrentEntry (self))–
- **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > *)–

GetDescription (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **)–

GetDeviceName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **)–

GetDisplayName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **)–

GetDocuURL (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **)–

GetEntries (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > **)–

GetEntry (*self, IntValue*) → IEnumEntry

Parameters **IntValue** (*int64_t const*)–

GetEntryByName (*self, Symbolic*) → IEnumEntry

Parameters **Symbolic** (*Spinnaker::GenICam::gcstring const &*)–

GetEventID (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **)–

GetIntValue (*self, Verify=False, IgnoreCache=False*) → int64_t

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → int64_t (*GetIntValue (self,)*)–
- **Verify** –
- → int64_t (*GetIntValue (self)*)–
- **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > **)–

GetName (*self, FullQualified=False*) → gcstring

Parameters

- **FullQualified** (*bool*)–
- → gcstring (*GetName (self)*)–
- **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **)–

GetNameSpace (*self*) → Spinnaker::GenApi::ENamespace

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **)–

GetNode (*self*) → INode
Parameters **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > *) –

GetNodeMap (*self*) → INodeMap
Parameters **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *) –

GetParents (*self*)
Parameters **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *) –

GetPollingTime (*self*) → int64_t
Parameters **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *) –

GetPrincipalInterfaceType (*self*) → Spinnaker::GenApi::EInterfaceType
Parameters **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *) –

GetProperty (*self*, *PropertyName*, *ValueStr*, *AttributeStr*) → bool
Parameters

- **PropertyName** (Spinnaker::GenICam::gcstring const &) –
- **ValueStr** (Spinnaker::GenICam::gcstring &) –
- **AttributeStr** (Spinnaker::GenICam::gcstring &) –

GetPropertyNames (*self*)
Parameters **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *) –

GetSelectedFeatures (*self*, *arg2*)
Parameters **arg2** (FeatureList_t &) –

GetSelectingFeatures (*self*, *arg2*)
Parameters **arg2** (FeatureList_t &) –

GetSymbolics (*self*, *Symbolics*)
Parameters **Symbolics** (Spinnaker::GenApi::StringList_t &) –

GetToolTip (*self*) → gcstring
Parameters **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *) –

GetVisibility (*self*) → Spinnaker::GenApi::EVisibility
Parameters **self** (Spinnaker::GenApi::CPointer< IEnumeration, IBase > const *) –

ImposeAccessMode (*self*, *ImposedAccessMode*)
Parameters **ImposedAccessMode** (enum Spinnaker::GenApi::EAccessMode) –

ImposeVisibility (*self*, *ImposedVisibility*)
Parameters **ImposedVisibility** (enum Spinnaker::GenApi::EVisibility) –

InvalidateNode (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > **) –

IsAccessModeCacheable (*self*) → *Spinnaker::GenApi::EYesNo*

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **) –

IsCachable (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **) –

IsDeprecated (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **) –

IsFeature (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **) –

IsSelector (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **) –

IsStreamable (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **) –

IsValid (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

IsValidCacheValid (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > const **) –

RegisterCallback (*self, pCallback*) → *Spinnaker::GenApi::CallbackHandleType*

Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **) –

SetIntValue (*self, Value, Verify=True*)

Parameters

- **Value** (*int64_t*) –
- **Verify** (*bool*) –
- **Value** (*SetIntValue (self,)*) –
- **Value** –

SetReference (*self, pBase*)

Parameters **pBase** (*INode **) –

ToString (*self, Verify=False, IgnoreCache=False*) → *gcstring*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **gcstring**(**Tostring**(*self*),) –
- **Verify** –
- → **gcstring**(**Tostring**(*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< IEnumeration, IBase > **) –

thisown

The membership flag

class `PySpin.CFeatureBag`

Bases: `PySpin.IPersistScript`

Bag holding streamable features of a nodetree.

C++ includes: Persistence.h

GetFeatureBagHandle (*self*) → void *

Parameters **self** (*Spinnaker::GenApi::CFeatureBag **) –

void* `Spinnaker::GenApi::CFeatureBag::GetFeatureBagHandle()`

LoadFromBag (*self*, *pNodeMap*, *Verify=True*, *pErrorList=None*) → bool

Parameters

- **pNodeMap** (*Spinnaker::GenApi::INodeMap **) –
- **Verify** (*bool*) –
- **pErrorList** (*Spinnaker::GenICam::gcstring_vector **) –
- **pNodeMap, Verify=True** → **bool** (**LoadFromBag**(*self*),) –
- **pNodeMap** –
- **Verify** –
- **pNodeMap** → **bool** (**LoadFromBag**(*self*),) –
- **pNodeMap** –

`bool Spinnaker::GenApi::CFeatureBag::LoadFromBag(INodeMap *pNodeMap, bool Verify=true, GenICam::gcstring_vector *pErrorList=NULL)`

Loads the features from the bag to the node tree

pNodeMap: The node map

Verify: If true, all streamable features are read back

pErrorList: If an error occurs during loading the error message is stored in the list and the loading continues

For *Verify=true* the list of names in the feature bag is replayed again. If a node is a selector it's value is set to the value from the feature bag If not the value is read from the camera and compared with the value from the feature bag.

PersistFeature (*self*, *item*)

Parameters **item** (*Spinnaker::GenApi::IValue &*) –

virtual void Spinnaker::GenApi::CFeatureBag::PersistFeature(IValue &item)

Stores a feature

SetInfo (*self*, *Info*)

Parameters **Info** (*Spinnaker::GenICam::gcstring &*) –

virtual void Spinnaker::GenApi::CFeatureBag::SetInfo(GenICam::gcstring &Info)

sets information about the node map

StoreToBag (*self*, *pNodeMap*, *MaxNumPersistSkriptEntries=-1*) → int64_t

Parameters

- **pNodeMap** (*Spinnaker::GenApi::INodeMap **) –

- **MaxNumPersistSkriptEntries** (*int const*) –

- **pNodeMap** → **int64_t** (*StoreToBag* (*self*,) –

- **pNodeMap** –

int64_t Spinnaker::GenApi::CFeatureBag::StoreToBag(INodeMap *pNodeMap, const int
MaxNumPersistSkriptEntries=-1)

Stores the streamable nodes to this feature bag.

pNodeMap: The node map to persist

MaxNumPersistSkriptEntries: The max number of entries in the container; -1 means unlimited
number of entries in the bag

thisown

The membership flag

class PySpin.**CFloatPtr** (**args*)

Bases: PySpin._SWIG_CFltPtr

SmartPointer for IFloat interface pointer

C++ includes: Pointer.h

GetEnumAlias (*self*) → IEnumeration

Parameters **self** (*Spinnaker::GenApi::CFloatPtr **) –

IEnumeration* Spinnaker::GenApi::CFloatPtr::GetEnumAlias()

gets the interface of an enum alias node.

GetIntAlias (*self*) → IInteger

Parameters **self** (*Spinnaker::GenApi::CFloatPtr **) –

IInteger* Spinnaker::GenApi::CFloatPtr::GetIntAlias()

gets the interface of an integer alias node.

thisown

The membership flag

class PySpin.**CIntegerPtr** (**args*)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

DeregisterCallback (*self*, *hCallback*) → bool

Parameters **hCallback** (*Spinnaker::GenApi::CallbackHandleType*) –

FromString (*self*, *ValueStr*, *Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **Verify** (*bool*) –
- **ValueStr** (*FromString(self,)*) –
- **ValueStr** –

GetAccessMode (*self*) → *Spinnaker::GenApi::EAccessMode*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetAlias (*self*) → *INode*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetCachingMode (*self*) → *Spinnaker::GenApi::ECachingMode*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetCastAlias (*self*) → *INode*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetChildren (*self*, *LinkType*)

Parameters

- **LinkType** (*enum Spinnaker::GenApi::ELinkType*) –
- **GetChildren(self)** –
- **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetDescription (*self*) → *gcstring*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetDeviceName (*self*) → *gcstring*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetDisplayName (*self*) → *gcstring*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetDocuURL (*self*) → *gcstring*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

GetEventID (*self*) → *gcstring*

```

Parameters self      (Spinnaker::GenApi::CPointer< IInteger, IBase >
                        const *)-
GetInc (self) → int64_t
Parameters self (Spinnaker::GenApi::CPointer< IInteger, IBase > *)-
GetIncMode (self) → Spinnaker::GenApi::EIncMode
Parameters self (Spinnaker::GenApi::CPointer< IInteger, IBase > *)-
GetListOfValidValues (self, bounded=True) → int64_autovector_t
Parameters

- bounded (bool)-
- -> int64_autovector_t (GetListOfValidValues (self))-
- self (Spinnaker::GenApi::CPointer< IInteger, IBase > *)-

GetMax (self) → int64_t
Parameters self (Spinnaker::GenApi::CPointer< IInteger, IBase > *)-
GetMin (self) → int64_t
Parameters self (Spinnaker::GenApi::CPointer< IInteger, IBase > *)-
GetName (self, FullQualified=False) → gcstring
Parameters

- FullQualified (bool)-
- -> gcstring (GetName (self))-
- self (Spinnaker::GenApi::CPointer< IInteger, IBase > const *)-

GetNameSpace (self) → Spinnaker::GenApi::ENameSpace
Parameters self      (Spinnaker::GenApi::CPointer< IInteger, IBase >
                        const *)-
GetNode (self) → INode
Parameters self (Spinnaker::GenApi::CPointer< IInteger, IBase > *)-
GetNodeMap (self) → INodeMap
Parameters self      (Spinnaker::GenApi::CPointer< IInteger, IBase >
                        const *)-
GetParents (self)
Parameters self      (Spinnaker::GenApi::CPointer< IInteger, IBase >
                        const *)-
GetPollingTime (self) → int64_t
Parameters self      (Spinnaker::GenApi::CPointer< IInteger, IBase >
                        const *)-
GetPrincipalInterfaceType (self) → Spinnaker::GenApi::EInterfaceType
Parameters self      (Spinnaker::GenApi::CPointer< IInteger, IBase >
                        const *)-
GetProperty (self, PropertyName, ValueStr, AttributeStr) → bool

```

Parameters

- **PropertyName** (*Spinnaker::GenICam::gcstring const &*)–
- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **AttributeStr** (*Spinnaker::GenICam::gcstring &*)–

GetPropertyNames (*self*)**Parameters self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **)–**GetRepresentation** (*self*) → *Spinnaker::GenApi::ERepresentation***Parameters self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > **)–**GetSelectedFeatures** (*self, arg2*)**Parameters arg2** (*FeatureList_t &*)–**GetSelectingFeatures** (*self, arg2*)**Parameters arg2** (*FeatureList_t &*)–**GetToolTip** (*self*) → *gcstring***Parameters self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **)–**GetUnit** (*self*) → *gcstring***Parameters self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > **)–**GetValue** (*self, Verify=False, IgnoreCache=False*) → *int64_t***Parameters**

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → *int64_t* (*GetValue (self,)*)–
- **Verify** –
- → *int64_t* (*GetValue (self)*)–
- **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > **)–

GetVisibility (*self*) → *Spinnaker::GenApi::EVisibility***Parameters self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **)–**ImposeAccessMode** (*self, ImposedAccessMode*)**Parameters ImposedAccessMode** (*enum Spinnaker::GenApi::EAccessMode*)–**ImposeMax** (*self, Value*)**Parameters Value** (*int64_t*)–**ImposeMin** (*self, Value*)**Parameters Value** (*int64_t*)–**ImposeVisibility** (*self, ImposedVisibility*)**Parameters ImposedVisibility** (*enum Spinnaker::GenApi::EVisibility*)–

InvalidateNode (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > **) –

IsAccessModeCacheable (*self*) → *Spinnaker::GenApi::EYesNo*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

IsCachable (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

IsDeprecated (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

IsFeature (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

IsSelector (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

IsStreamable (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

IsValid (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

bool *Spinnaker::GenApi::CPointer< T, B >::IsValid()* *const throw ()* true if the pointer is valid

IsValueCacheValid (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > const **) –

RegisterCallback (*self, pCallback*) → *Spinnaker::GenApi::CallbackHandleType*

Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **) –

SetReference (*self, pBase*)

Parameters **pBase** (*INode **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*int64_t*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

ToString (*self, Verify=False, IgnoreCache=False*) → *gcstring*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **gcstring** (**ToString** (*self*,) –
- **Verify** –
- → **gcstring** (**ToString** (*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< IInteger, IBase > **) –

thisown

The membership flag

class PySpin.**CNodeMapDynPtr** (*args)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

ClearAllNodes (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< INodeMapDyn, INodeMap > **) –

Connect (*self, pPort, PortName*) → bool

Parameters

- **pPort** (*IPort **) –
- **PortName** (*Spinnaker::GenICam::gcstring const &*) –
- **pPort** → **bool** (**Connect** (*self*,) –
- **pPort** –

ExtractIndependentSubtree (*self, XMLData, InjectXMLData, SubTreeRootNodeName, ExtractedSubtree*)

Parameters

- **XMLData** (*Spinnaker::GenICam::gcstring const &*) –
- **InjectXMLData** (*Spinnaker::GenICam::gcstring const &*) –
- **SubTreeRootNodeName** (*Spinnaker::GenICam::gcstring const &*) –
- **ExtractedSubtree** (*Spinnaker::GenICam::gcstring &*) –

GetDeviceName (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< INodeMapDyn, INodeMap > **) –

GetNode (*self, Name*) → INode

Parameters Name (*Spinnaker::GenICam::gcstring const &*) –

GetNodes (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< INodeMapDyn, INodeMap > const **) –

GetNumNodes (*self*) → uint64_t

Parameters self (*Spinnaker::GenApi::CPointer< INodeMapDyn, INodeMap > const **) –

GetSupportedSchemaVersions (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< INodeMapDyn, INodeMap > **)–

InvalidateNodes (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< INodeMapDyn, INodeMap > const **)–

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< INodeMapDyn, INodeMap > const **)–

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

LoadXMLFromFile (*self, FileName*)

Parameters **FileName** (*Spinnaker::GenICam::gcstring const &*)–

LoadXMLFromFileInject (*self, TargetFileName, InjectFileName*)

Parameters

- **TargetFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **InjectFileName** (*Spinnaker::GenICam::gcstring const &*)–

LoadXMLFromString (*self, XMLData*)

Parameters **XMLData** (*Spinnaker::GenICam::gcstring const &*)–

LoadXMLFromStringInject (*self, TargetXMLData, InjectXMLData*)

Parameters

- **TargetXMLData** (*Spinnaker::GenICam::gcstring const &*)–
- **InjectXMLData** (*Spinnaker::GenICam::gcstring const &*)–

LoadXMLFromZIPData (*self, zipData, zipSize*)

Parameters

- **zipData** (*void const **)–
- **zipSize** (*size_t*)–

LoadXMLFromZIPFile (*self, ZipFileName*)

Parameters **ZipFileName** (*Spinnaker::GenICam::gcstring const &*)–

MergeXMLFiles (*self, TargetFileName, InjectedFileName, OutputFileName*)

Parameters

- **TargetFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **InjectedFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **OutputFileName** (*Spinnaker::GenICam::gcstring const &*)–

Poll (*self, ElapsedTime*)

Parameters **ElapsedTime** (*int64_t*)–

PreprocessXMLFromFile (*self, XMLFileName, StyleSheetFileName, OutputFileName, XMLValidation*)

Parameters

- **XMLFileName** (*Spinnaker::GenICam::gcstring const &*)-
- **StyleSheetFileName** (*Spinnaker::GenICam::gcstring const &*)-
- **OutputFileName** (*Spinnaker::GenICam::gcstring const &*)-
- **XMLValidation** (*uint32_t const*)-
- **XMLFileName, StyleSheetFileName, OutputFileName**
(*PreprocessXMLFromFile (self,)*)-
- **XMLFileName** -
- **StyleSheetFileName** -
- **OutputFileName** -

PreprocessXMLFromZIPFile (*self, XMLFileName, StyleSheetFileName, OutputFileName, XML-Validation*)

Parameters

- **XMLFileName** (*Spinnaker::GenICam::gcstring const &*)-
- **StyleSheetFileName** (*Spinnaker::GenICam::gcstring const &*)-
- **OutputFileName** (*Spinnaker::GenICam::gcstring const &*)-
- **XMLValidation** (*uint32_t const*)-
- **XMLFileName, StyleSheetFileName, OutputFileName**
(*PreprocessXMLFromZIPFile (self,)*)-
- **XMLFileName** -
- **StyleSheetFileName** -
- **OutputFileName** -

thisown

The membership flag

class PySpin.CNodeMapPtr (*args)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

Connect (*self, pPort, PortName*) → bool

Parameters

- **pPort** (*IPort **)-
- **PortName** (*Spinnaker::GenICam::gcstring const &*)-
- **pPort** → **bool** (*Connect (self,)*)-
- **pPort** -

GetDeviceName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< INodeMap, INodeMap > **)-

GetNode (*self, Name*) → INode

Parameters **Name** (*Spinnaker::GenICam::gcstring const &*)-

GetNodes (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< INodeMap, INodeMap > const **) –

GetNumNodes (*self*) → uint64_t

Parameters **self** (*Spinnaker::GenApi::CPointer< INodeMap, INodeMap > const **) –

InvalidateNodes (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< INodeMap, INodeMap > const **) –

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< INodeMap, INodeMap > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

Poll (*self, ElapsedTime*)

Parameters **ElapsedTime** (*int64_t*) –

thisown

The membership flag

class PySpin.**CNodePtr** (**args*)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

DeregisterCallback (*self, hCallback*) → bool

Parameters **hCallback** (*Spinnaker::GenApi::CallbackHandleType*) –

GetAccessMode (*self*) → Spinnaker::GenApi::EAccessMode

Parameters **self** (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetAlias (*self*) → INode

Parameters **self** (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetCachingMode (*self*) → Spinnaker::GenApi::ECachingMode

Parameters **self** (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetCastAlias (*self*) → INode

Parameters **self** (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetChildren (*self, LinkType*)

Parameters

- **LinkType** (*enum Spinnaker::GenApi::ELinkType*) –
- **GetChildren** (**self**) –

- **self** (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetDescription (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetDeviceName (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetDisplayName (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetDocuURL (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetEventID (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetName (*self*, *FullQualified=False*) → gcstring

Parameters

- **FullQualified** (*bool*) –
- → **gcstring** (*GetName (self)*) –
- **self** (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetNameSpace (*self*) → *Spinnaker::GenApi::ENamespace*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetNodeMap (*self*) → *INodeMap*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetParents (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetPollingTime (*self*) → *int64_t*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetPrincipalInterfaceType (*self*) → *Spinnaker::GenApi::EInterfaceType*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

GetProperty (*self*, *PropertyName*, *ValueStr*, *AttributeStr*) → *bool*

Parameters

- **PropertyName** (*Spinnaker::GenICam::gcstring const &*) –

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **AttributeStr** (*Spinnaker::GenICam::gcstring &*)–

GetPropertyNames (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

GetSelectedFeatures (*self, arg2*)

Parameters arg2 (*FeatureList_t &*)–

GetSelectingFeatures (*self, arg2*)

Parameters arg2 (*FeatureList_t &*)–

GetToolTip (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

GetVisibility (*self*) → *Spinnaker::GenApi::EVisibility*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

ImposeAccessMode (*self, ImposedAccessMode*)

Parameters ImposedAccessMode (*enum Spinnaker::GenApi::EAccessMode*)–

ImposeVisibility (*self, ImposedVisibility*)

Parameters ImposedVisibility (*enum Spinnaker::GenApi::EVisibility*)–

InvalidateNode (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > **)–

IsAccessModeCacheable (*self*) → *Spinnaker::GenApi::EYesNo*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

IsCachable (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

IsDeprecated (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

IsFeature (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

IsSelector (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

IsStreamable (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< INode, IBase > const **)–

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< INode, IBase > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

RegisterCallback (*self*, *pCallback*) → Spinnaker::GenApi::CallbackHandleType

Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **) –

SetReference (*self*, *pBase*)

Parameters **pBase** (*INode **) –

thisown

The membership flag

class PySpin.**CRegisterPtr** (**args*)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

DeregisterCallback (*self*, *hCallback*) → bool

Parameters **hCallback** (*Spinnaker::GenApi::CallbackHandleType*) –

FromString (*self*, *ValueStr*, *Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **Verify** (*bool*) –
- **ValueStr** (*FromString (self,)*) –
- **ValueStr** –

Get (*self*, *pBuffer*, *Verify=False*, *IgnoreCache=False*)

Parameters

- **pBuffer** (*uint8_t **) –
- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **pBuffer, Verify=False** (*Get (self,)*) –
- **pBuffer** –
- **Verify** –
- **pBuffer** (*Get (self,)*) –
- **pBuffer** –

Gets a NumPy array representing the contents of the register, as 8-bit unsigned ints.

pBuffer: The number of bytes to retrieve

Verify: Enables Range verification (default = false). The AccessMode is always checked

IgnoreCache: If true the value is read ignoring any caches (default = false)

GetAccessMode (*self*) → Spinnaker::GenApi::EAccessMode

```

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetAddress (self) → int64_t

    Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > *)-
GetAlias (self) → INode

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetCachingMode (self) → Spinnaker::GenApi::ECachingMode

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetCastAlias (self) → INode

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetChildren (self, LinkType)

    Parameters
    • LinkType (enum Spinnaker::GenApi::ELinkType)-
    • GetChildren (self) -
    • self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-
      -
GetDescription (self) → gcstring

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetDeviceName (self) → gcstring

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetDisplayName (self) → gcstring

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetDocuURL (self) → gcstring

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetEventID (self) → gcstring

    Parameters self      (Spinnaker::GenApi::CPointer< IRegister, IBase >
                          const *)-
GetLength (self) → int64_t

    Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > *)-
GetName (self, FullQualified=False) → gcstring

    Parameters
    • FullQualified (bool)-

```

- `-> gcstring(GetName(self))-`
- `self(Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-`

GetNameSpace (*self*) → Spinnaker::GenApi::ENamespace

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-

GetNode (*self*) → INode

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > *)-

GetNodeMap (*self*) → INodeMap

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-

GetParents (*self*)

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-

GetPollingTime (*self*) → int64_t

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-

GetPrincipalInterfaceType (*self*) → Spinnaker::GenApi::EInterfaceType

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-

GetProperty (*self*, *PropertyName*, *ValueStr*, *AttributeStr*) → bool

Parameters

- **PropertyName** (Spinnaker::GenICam::gcstring const &)-
- **ValueStr** (Spinnaker::GenICam::gcstring &)-
- **AttributeStr** (Spinnaker::GenICam::gcstring &)-

GetPropertyNames (*self*)

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-

GetSelectedFeatures (*self*, *arg2*)

Parameters arg2 (FeatureList_t &)-

GetSelectingFeatures (*self*, *arg2*)

Parameters arg2 (FeatureList_t &)-

GetToolTip (*self*) → gcstring

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-

GetVisibility (*self*) → Spinnaker::GenApi::EVisibility

Parameters self (Spinnaker::GenApi::CPointer< IRegister, IBase > const *)-

ImposeAccessMode (*self*, *ImposedAccessMode*)

Parameters **ImposedAccessMode** (*enum Spinnaker::GenApi::EAccessMode*) –
ImposeVisibility (*self, ImposedVisibility*)

Parameters **ImposedVisibility** (*enum Spinnaker::GenApi::EVisibility*) –
InvalidateNode (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > **) –
IsAccessModeCacheable (*self*) → Spinnaker::GenApi::EYesNo

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > const **) –

IsCachable (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > const **) –

IsDeprecated (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > const **) –

IsFeature (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > const **) –

IsSelector (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > const **) –

IsStreamable (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > const **) –

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

IsValidCacheValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > const **) –

RegisterCallback (*self, pCallback*) → Spinnaker::GenApi::CallbackHandleType

Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **) –

Set (*self, pBuffer, Verify=True*)

Parameters

- **pBuffer** (*uint8_t const **) –
- **Verify** (*bool*) –
- **pBuffer** (*Set (self,)*) –
- **pBuffer** –

Set the register's contents with the contents (as 8-bit unsigned ints) of the given array.

pBuffer: The NumPy array containing the data to set

Verify: Enables AccessMode and Range verification (default = true)

SetReference (*self*, *pBase*)

Parameters *pBase* (*INode* *) –

ToString (*self*, *Verify=False*, *IgnoreCache=False*) → *gcstring*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *gcstring* (**ToString** (*self*),) –
- **Verify** –
- → *gcstring* (**ToString** (*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< IRegister, IBase > **) –

thisown

The membership flag

class *PySpin.CSelectorPtr* (*args)

Bases: *object*

Encapsulates a GenApi pointer dealing with the *dynamic_cast* automatically.

C++ includes: *Pointer.h*

GetAccessMode (*self*) → *Spinnaker::GenApi::EAccessMode*

Parameters *self* (*Spinnaker::GenApi::CPointer< ISelector, IBase > const **) –

GetSelectedFeatures (*self*, *arg2*)

Parameters *arg2* (*FeatureList_t* &) –

GetSelectingFeatures (*self*, *arg2*)

Parameters *arg2* (*FeatureList_t* &) –

IsSelector (*self*) → *bool*

Parameters *self* (*Spinnaker::GenApi::CPointer< ISelector, IBase > const **) –

IsValid (*self*) → *bool*

Parameters *self* (*Spinnaker::GenApi::CPointer< ISelector, IBase > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

thisown

The membership flag

class *PySpin.CSelectorSet* (*args, **kwargs)

Bases: *PySpin.Node*

The set of selectors selecting a given node

C++ includes: SelectorSet.h

GetSelectorList (*self*, *Incremental=False*)

Parameters

- **Incremental** (*bool*) –
- **GetSelectorList** (*self*) –
- **self** (*Spinnaker::GenApi::CSelectorSet **) –

virtual void Spinnaker::GenApi::CSelectorSet::GetSelectorList(FeatureList_t &SelectorList, bool Incremental=false)

IsEmpty (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CSelectorSet **) –

bool Spinnaker::GenApi::CSelectorSet::IsEmpty()

returns true if no selectors are present

Restore (*self*)

Parameters **self** (*Spinnaker::GenApi::CSelectorSet **) –

virtual void Spinnaker::GenApi::CSelectorSet::Restore()

SetFirst (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CSelectorSet **) –

virtual bool Spinnaker::GenApi::CSelectorSet::SetFirst()

SetNext (*self*, *Tick=True*) → bool

Parameters

- **Tick** (*bool*) –
- → **bool** (*SetNext (self)*) –
- **self** (*Spinnaker::GenApi::CSelectorSet **) –

virtual bool Spinnaker::GenApi::CSelectorSet::SetNext(bool Tick=true)

ToString (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CSelectorSet **) –

virtual GenICam::gcstring Spinnaker::GenApi::CSelectorSet::ToString()

thisown

The membership flag

class PySpin.**CStringPtr** (**args*)

Bases: object

Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.

C++ includes: Pointer.h

DeregisterCallback (*self*, *hCallback*) → bool

Parameters **hCallback** (*Spinnaker::GenApi::CallbackHandleType*) –

FromString (*self*, *ValueStr*, *Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **Verify** (*bool*)–
- **ValueStr** (*FromString(self,)*)–
- **ValueStr** –

GetAccessMode (*self*) → *Spinnaker::GenApi::EAccessMode*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetAlias (*self*) → *INode*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetCachingMode (*self*) → *Spinnaker::GenApi::ECachingMode*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetCastAlias (*self*) → *INode*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetChildren (*self, LinkType*)

Parameters

- **LinkType** (*enum Spinnaker::GenApi::ELinkType*)–
- **GetChildren(self)** –
- **self** (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetDescription (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetDeviceName (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetDisplayName (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetDocuURL (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetEventID (*self*) → *gcstring*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **)–

GetMaxLength (*self*) → *int64_t*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > **)–

GetName (*self, FullQualified=False*) → *gcstring*

Parameters

- **FullQualified** (*bool*) –
- **-> gcstring** (*GetName (self)*) –
- **self** (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

GetNameSpace (*self*) → Spinnaker::GenApi::ENamespace

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

GetNode (*self*) → INode

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > **) –

GetNodeMap (*self*) → INodeMap

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

GetParents (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

GetPollingTime (*self*) → int64_t

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

GetPrincipalInterfaceType (*self*) → Spinnaker::GenApi::EInterfaceType

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

GetProperty (*self, PropertyName, ValueStr, AttributeStr*) → bool

Parameters

- **PropertyName** (*Spinnaker::GenICam::gcstring const &*) –
- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **AttributeStr** (*Spinnaker::GenICam::gcstring &*) –

GetPropertyNames (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

GetSelectedFeatures (*self, arg2*)

Parameters arg2 (*FeatureList_t &*) –

GetSelectingFeatures (*self, arg2*)

Parameters arg2 (*FeatureList_t &*) –

GetToolTip (*self*) → gcstring

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

GetValue (*self, Verify=False, IgnoreCache=False*) → gcstring

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **gcstring** (*GetValue* (*self*,)) –
- **Verify** –
- → **gcstring** (*GetValue* (*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< IString, IBase > **) –

GetVisibility (*self*) → *Spinnaker::GenApi::EVisibility*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

ImposeAccessMode (*self*, *ImposedAccessMode*)

Parameters ImposedAccessMode (*enum Spinnaker::GenApi::EAccessMode*) –

ImposeVisibility (*self*, *ImposedVisibility*)

Parameters ImposedVisibility (*enum Spinnaker::GenApi::EVisibility*) –

InvalidateNode (*self*)

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > **) –

IsAccessModeCacheable (*self*) → *Spinnaker::GenApi::EYesNo*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

IsCacheable (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

IsDeprecated (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

IsFeature (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

IsSelector (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

IsStreamable (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

IsValid (*self*) → *bool*

Parameters self (*Spinnaker::GenApi::CPointer< IString, IBase > const **) –

bool Spinnaker::GenApi::CPointer< T, B >::IsValid() const throw () true if the pointer is valid

IsValueCacheValid (*self*) → *bool*

```

    Parameters self (Spinnaker::GenApi::CPointer< IString, IBase > const
        *) -
RegisterCallback (self, pCallback) → Spinnaker::GenApi::CallbackHandleType
    Parameters pCallback (Spinnaker::GenApi::CNodeCallback *) -
SetReference (self, pBase)
    Parameters pBase (INode *) -
SetValue (self, Value, Verify=True)
    Parameters
        • Value (Spinnaker::GenICam::gcstring const &) -
        • Verify (bool) -
        • Value (SetValue (self,)) -
        • Value -
ToString (self, Verify=False, IgnoreCache=False) → gcstring
    Parameters
        • Verify (bool) -
        • IgnoreCache (bool) -
        • Verify=False → gcstring (ToString (self,)) -
        • Verify -
        • → gcstring (ToString (self)) -
        • self (Spinnaker::GenApi::CPointer< IString, IBase > *) -
thisown
    The membership flag
class PySpin.CValuePtr (*args)
    Bases: object
    Encapsulates a GenApi pointer dealing with the dynamic_cast automatically.
    C++ includes: Pointer.h
DeregisterCallback (self, hCallback) → bool
    Parameters hCallback (Spinnaker::GenApi::CallbackHandleType) -
FromString (self, ValueStr, Verify=True)
    Parameters
        • ValueStr (Spinnaker::GenICam::gcstring const &) -
        • Verify (bool) -
        • ValueStr (FromString (self,)) -
        • ValueStr -
GetAccessMode (self) → Spinnaker::GenApi::EAccessMode
    Parameters self (Spinnaker::GenApi::CPointer< IValue, IBase > const
        *) -

```

GetAlias (*self*) → INode
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetCachingMode (*self*) → Spinnaker::GenApi::ECachingMode
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetCastAlias (*self*) → INode
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetChildren (*self*, *LinkType*)
Parameters

- **LinkType** (enum Spinnaker::GenApi::ELinkType) –
- **GetChildren** (**self**) –
- **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetDescription (*self*) → gcstring
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetDeviceName (*self*) → gcstring
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetDisplayName (*self*) → gcstring
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetDocuURL (*self*) → gcstring
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetEventID (*self*) → gcstring
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetName (*self*, *FullQualified=False*) → gcstring
Parameters

- **FullQualified** (*bool*) –
- → **gcstring** (**GetName** (*self*)) –
- **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetNameSpace (*self*) → Spinnaker::GenApi::ENamespace
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > const *) –

GetNode (*self*) → INode
Parameters **self** (Spinnaker::GenApi::CPointer< IValue, IBase > *) –

GetNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

GetParents (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

GetPollingTime (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

GetPrincipalInterfaceType (*self*) → Spinnaker::GenApi::EInterfaceType

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

GetProperty (*self, PropertyName, ValueStr, AttributeStr*) → bool

Parameters

- **PropertyName** (*Spinnaker::GenICam::gcstring const &*) –
- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **AttributeStr** (*Spinnaker::GenICam::gcstring &*) –

GetPropertyNames (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

GetSelectedFeatures (*self, arg2*)

Parameters **arg2** (*FeatureList_t &*) –

GetSelectingFeatures (*self, arg2*)

Parameters **arg2** (*FeatureList_t &*) –

GetToolTip (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

GetVisibility (*self*) → Spinnaker::GenApi::EVisibility

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

ImposeAccessMode (*self, ImposedAccessMode*)

Parameters **ImposedAccessMode** (*enum Spinnaker::GenApi::EAccessMode*) –

ImposeVisibility (*self, ImposedVisibility*)

Parameters **ImposedVisibility** (*enum Spinnaker::GenApi::EVisibility*) –

InvalidateNode (*self*)

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > **) –

IsAccessModeCacheable (*self*) → Spinnaker::GenApi::EYesNo

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

IsCachable (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

IsDeprecated (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

IsFeature (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

IsSelector (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

IsStreamable (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

bool *Spinnaker::GenApi::CPointer< T, B >::IsValid()* const throw () true if the pointer is valid

IsValueCacheValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > const **) –

RegisterCallback (*self, pCallback*) → *Spinnaker::GenApi::CallbackHandleType*

Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **) –

SetReference (*self, pBase*)

Parameters **pBase** (*INode **) –

ToStdString (*self, Verify=False, IgnoreCache=False*) → *gcstring*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *gcstring*(*ToStdString*(*self*),) –
- **Verify** –
- → *gcstring*(*ToStdString*(*self*)) –
- **self** (*Spinnaker::GenApi::CPointer< IValue, IBase > **) –

thisown

The membership flag

class *PySpin.Camera* (**args, **kwargs*)

Bases: *PySpin.CameraBase*

The camera object class.

C++ includes: Camera.h

AasRoiEnable

Camera_AasRoiEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

AasRoiHeight

Camera_AasRoiHeight_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

AasRoiOffsetX

Camera_AasRoiOffsetX_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

AasRoiOffsetY

Camera_AasRoiOffsetY_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

AasRoiWidth

Camera_AasRoiWidth_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionAbort

Camera_AcquisitionAbort_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionArm

Camera_AcquisitionArm_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionBurstFrameCount

Camera_AcquisitionBurstFrameCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionFrameCount

Camera_AcquisitionFrameCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionFrameRate

Camera_AcquisitionFrameRate_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionFrameRateEnable

Camera_AcquisitionFrameRateEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionLineRate

Camera_AcquisitionLineRate_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionMode

Camera_AcquisitionMode_get(self) -> IEnumerationT_AcquisitionModeEnums

Parameters **self** (*Spinnaker::Camera **) -

AcquisitionResultingFrameRate

Camera_AcquisitionResultingFrameRate_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**AcquisitionStart**

Camera_AcquisitionStart_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**AcquisitionStatus**

Camera_AcquisitionStatus_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**AcquisitionStatusSelector**

Camera_AcquisitionStatusSelector_get(self) -> IEnumerationT_AcquisitionStatusSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**AcquisitionStop**

Camera_AcquisitionStop_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**ActionDeviceKey**

Camera_ActionDeviceKey_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ActionGroupKey**

Camera_ActionGroupKey_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ActionGroupMask**

Camera_ActionGroupMask_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ActionQueueSize**

Camera_ActionQueueSize_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ActionSelector**

Camera_ActionSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ActionUnconditionalMode**

Camera_ActionUnconditionalMode_get(self) -> IEnumerationT_ActionUnconditionalModeEnums

Parameters **self** (*Spinnaker::Camera **) -**AdcBitDepth**

Camera_AdcBitDepth_get(self) -> IEnumerationT_AdcBitDepthEnums

Parameters **self** (*Spinnaker::Camera **) -**AutoAlgorithmSelector**

Camera_AutoAlgorithmSelector_get(self) -> IEnumerationT_AutoAlgorithmSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**AutoExposureControlLoopDamping**

Camera_AutoExposureControlLoopDamping_get(self) -> IFloat

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    Parameters self (Spinnaker::Camera *) -
AutoExposureControlPriority
    Camera_AutoExposureControlPriority_get(self) -> IEnumerationT_AutoExposureControlPriorityEnums
    Parameters self (Spinnaker::Camera *) -
AutoExposureEVCompensation
    Camera_AutoExposureEVCompensation_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AutoExposureExposureTimeLowerLimit
    Camera_AutoExposureExposureTimeLowerLimit_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AutoExposureExposureTimeUpperLimit
    Camera_AutoExposureExposureTimeUpperLimit_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AutoExposureGainLowerLimit
    Camera_AutoExposureGainLowerLimit_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AutoExposureGainUpperLimit
    Camera_AutoExposureGainUpperLimit_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AutoExposureGreyValueLowerLimit
    Camera_AutoExposureGreyValueLowerLimit_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AutoExposureGreyValueUpperLimit
    Camera_AutoExposureGreyValueUpperLimit_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AutoExposureLightingMode
    Camera_AutoExposureLightingMode_get(self) -> IEnumerationT_AutoExposureLightingModeEnums
    Parameters self (Spinnaker::Camera *) -
AutoExposureMeteringMode
    Camera_AutoExposureMeteringMode_get(self) -> IEnumerationT_AutoExposureMeteringModeEnums
    Parameters self (Spinnaker::Camera *) -
AutoExposureTargetGreyValue
    Camera_AutoExposureTargetGreyValue_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
AutoExposureTargetGreyValueAuto
    Camera_AutoExposureTargetGreyValueAuto_get(self) -> IEnumerationT_AutoExposureTargetGreyValueAutoEnums
    Parameters self (Spinnaker::Camera *) -
BalanceRatio
    Camera_BalanceRatio_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -

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BalanceRatioSelector

Camera_BalanceRatioSelector_get(self) -> IEnumerationT_BalanceRatioSelectorEnums

Parameters self (Spinnaker::Camera *) -**BalanceWhiteAuto**

Camera_BalanceWhiteAuto_get(self) -> IEnumerationT_BalanceWhiteAutoEnums

Parameters self (Spinnaker::Camera *) -**BalanceWhiteAutoDamping**

Camera_BalanceWhiteAutoDamping_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**BalanceWhiteAutoLowerLimit**

Camera_BalanceWhiteAutoLowerLimit_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**BalanceWhiteAutoProfile**

Camera_BalanceWhiteAutoProfile_get(self) -> IEnumerationT_BalanceWhiteAutoProfileEnums

Parameters self (Spinnaker::Camera *) -**BalanceWhiteAutoUpperLimit**

Camera_BalanceWhiteAutoUpperLimit_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**BinningHorizontal**

Camera_BinningHorizontal_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**BinningHorizontalMode**

Camera_BinningHorizontalMode_get(self) -> IEnumerationT_BinningHorizontalModeEnums

Parameters self (Spinnaker::Camera *) -**BinningSelector**

Camera_BinningSelector_get(self) -> IEnumerationT_BinningSelectorEnums

Parameters self (Spinnaker::Camera *) -**BinningVertical**

Camera_BinningVertical_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**BinningVerticalMode**

Camera_BinningVerticalMode_get(self) -> IEnumerationT_BinningVerticalModeEnums

Parameters self (Spinnaker::Camera *) -**BlackLevel**

Camera_BlackLevel_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**BlackLevelAuto**

Camera_BlackLevelAuto_get(self) -> IEnumerationT_BlackLevelAutoEnums

Parameters self (Spinnaker::Camera *) -**BlackLevelAutoBalance**

Camera_BlackLevelAutoBalance_get(self) -> IEnumerationT_BlackLevelAutoBalanceEnums

Parameters self (*Spinnaker::Camera **) –

BlackLevelClampingEnable
Camera_BlackLevelClampingEnable_get(self) -> IBoolean
Parameters self (*Spinnaker::Camera **) –

BlackLevelRaw
Camera_BlackLevelRaw_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

BlackLevelSelector
Camera_BlackLevelSelector_get(self) -> IEnumerationT_BlackLevelSelectorEnums
Parameters self (*Spinnaker::Camera **) –

BsiFlatFieldCorrectionAuto
Camera_BsiFlatFieldCorrectionAuto_get(self) -> IEnumerationT_BsiFlatFieldCorrectionAutoEnums
Parameters self (*Spinnaker::Camera **) –

BsiFlatFieldCorrectionAutoDamping
Camera_BsiFlatFieldCorrectionAutoDamping_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

BsiFlatFieldCorrectionEnable
Camera_BsiFlatFieldCorrectionEnable_get(self) -> IBoolean
Parameters self (*Spinnaker::Camera **) –

BsiFlatFieldCorrectionGain
Camera_BsiFlatFieldCorrectionGain_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

BsiFlatFieldCorrectionGainSelector
Camera_BsiFlatFieldCorrectionGainSelector_get(self) -> IEnumerationT_BsiFlatFieldCorrectionGainSelectorEnums
Parameters self (*Spinnaker::Camera **) –

ChunkBlackLevel
Camera_ChunkBlackLevel_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

ChunkBlackLevelSelector
Camera_ChunkBlackLevelSelector_get(self) -> IEnumerationT_ChunkBlackLevelSelectorEnums
Parameters self (*Spinnaker::Camera **) –

ChunkCRC
Camera_ChunkCRC_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

ChunkCounterSelector
Camera_ChunkCounterSelector_get(self) -> IEnumerationT_ChunkCounterSelectorEnums
Parameters self (*Spinnaker::Camera **) –

ChunkCounterValue
Camera_ChunkCounterValue_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

ChunkEnable

Camera_ChunkEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**ChunkEncoderSelector**

Camera_ChunkEncoderSelector_get(self) -> IEnumerationT_ChunkEncoderSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkEncoderStatus**

Camera_ChunkEncoderStatus_get(self) -> IEnumerationT_ChunkEncoderStatusEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkEncoderValue**

Camera_ChunkEncoderValue_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkExposureEndLineStatusAll**

Camera_ChunkExposureEndLineStatusAll_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkExposureTime**

Camera_ChunkExposureTime_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**ChunkExposureTimeSelector**

Camera_ChunkExposureTimeSelector_get(self) -> IEnumerationT_ChunkExposureTimeSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkFrameID**

Camera_ChunkFrameID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkGain**

Camera_ChunkGain_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**ChunkGainSelector**

Camera_ChunkGainSelector_get(self) -> IEnumerationT_ChunkGainSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkHeight**

Camera_ChunkHeight_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkImage**

Camera_ChunkImage_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkImageComponent**

Camera_ChunkImageComponent_get(self) -> IEnumerationT_ChunkImageComponentEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkLinePitch**

Camera_ChunkLinePitch_get(self) -> IInteger

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    Parameters self (Spinnaker::Camera *) -
ChunkLineStatusAll
    Camera_ChunkLineStatusAll_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ChunkModeActive
    Camera_ChunkModeActive_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
ChunkOffsetX
    Camera_ChunkOffsetX_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ChunkOffsetY
    Camera_ChunkOffsetY_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ChunkPartSelector
    Camera_ChunkPartSelector_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ChunkPixelDynamicRangeMax
    Camera_ChunkPixelDynamicRangeMax_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ChunkPixelDynamicRangeMin
    Camera_ChunkPixelDynamicRangeMin_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
ChunkPixelFormat
    Camera_ChunkPixelFormat_get(self) -> IEnumerationT_ChunkPixelFormatEnums
    Parameters self (Spinnaker::Camera *) -
ChunkRegionID
    Camera_ChunkRegionID_get(self) -> IEnumerationT_ChunkRegionIDEnums
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dAxisMax
    Camera_ChunkScan3dAxisMax_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dAxisMin
    Camera_ChunkScan3dAxisMin_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateOffset
    Camera_ChunkScan3dCoordinateOffset_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
ChunkScan3dCoordinateReferenceSelector
    Camera_ChunkScan3dCoordinateReferenceSelector_get(self) -> IEnumera-
    tionT_ChunkScan3dCoordinateReferenceSelectorEnums
    Parameters self (Spinnaker::Camera *) -

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ChunkScan3dCoordinateReferenceValue

Camera_ChunkScan3dCoordinateReferenceValue_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**ChunkScan3dCoordinateScale**

Camera_ChunkScan3dCoordinateScale_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**ChunkScan3dCoordinateSelector**

Camera_ChunkScan3dCoordinateSelector_get(self) -> IEnumerationT_ChunkScan3dCoordinateSelectorEnums

Parameters self (Spinnaker::Camera *) -**ChunkScan3dCoordinateSystem**

Camera_ChunkScan3dCoordinateSystem_get(self) -> IEnumerationT_ChunkScan3dCoordinateSystemEnums

Parameters self (Spinnaker::Camera *) -**ChunkScan3dCoordinateSystemReference**

Camera_ChunkScan3dCoordinateSystemReference_get(self) -> IEnumerationT_ChunkScan3dCoordinateSystemReferenceEnums

Parameters self (Spinnaker::Camera *) -**ChunkScan3dCoordinateTransformSelector**

Camera_ChunkScan3dCoordinateTransformSelector_get(self) -> IEnumerationT_ChunkScan3dCoordinateTransformSelectorEnums

Parameters self (Spinnaker::Camera *) -**ChunkScan3dDistanceUnit**

Camera_ChunkScan3dDistanceUnit_get(self) -> IEnumerationT_ChunkScan3dDistanceUnitEnums

Parameters self (Spinnaker::Camera *) -**ChunkScan3dInvalidDataFlag**

Camera_ChunkScan3dInvalidDataFlag_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**ChunkScan3dInvalidDataValue**

Camera_ChunkScan3dInvalidDataValue_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**ChunkScan3dOutputMode**

Camera_ChunkScan3dOutputMode_get(self) -> IEnumerationT_ChunkScan3dOutputModeEnums

Parameters self (Spinnaker::Camera *) -**ChunkScan3dTransformValue**

Camera_ChunkScan3dTransformValue_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**ChunkScanLineSelector**

Camera_ChunkScanLineSelector_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**ChunkSelector**

Camera_ChunkSelector_get(self) -> IEnumerationT_ChunkSelectorEnums

Parameters self (Spinnaker::Camera *) -

ChunkSequencerSetActive

Camera_ChunkSequencerSetActive_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkSerialData**

Camera_ChunkSerialData_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) -**ChunkSerialDataLength**

Camera_ChunkSerialDataLength_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkSerialReceiveOverflow**

Camera_ChunkSerialReceiveOverflow_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**ChunkSourceID**

Camera_ChunkSourceID_get(self) -> IEnumerationT_ChunkSourceIDEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkStreamChannelID**

Camera_ChunkStreamChannelID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkTimerSelector**

Camera_ChunkTimerSelector_get(self) -> IEnumerationT_ChunkTimerSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkTimerValue**

Camera_ChunkTimerValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**ChunkTimestamp**

Camera_ChunkTimestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkTimestampLatchValue**

Camera_ChunkTimestampLatchValue_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkTransferBlockID**

Camera_ChunkTransferBlockID_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkTransferQueueCurrentBlockCount**

Camera_ChunkTransferQueueCurrentBlockCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**ChunkTransferStreamID**

Camera_ChunkTransferStreamID_get(self) -> IEnumerationT_ChunkTransferStreamIDEnums

Parameters **self** (*Spinnaker::Camera **) -**ChunkWidth**

Camera_ChunkWidth_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

ClConfiguration

Camera_ClConfiguration_get(self) -> IEnumerationT_ClConfigurationEnums

Parameters **self** (*Spinnaker::Camera **) –

ClTimeSlotsCount

Camera_ClTimeSlotsCount_get(self) -> IEnumerationT_ClTimeSlotsCountEnums

Parameters **self** (*Spinnaker::Camera **) –

ColorTransformationEnable

Camera_ColorTransformationEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) –

ColorTransformationSelector

Camera_ColorTransformationSelector_get(self) -> IEnumerationT_ColorTransformationSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –

ColorTransformationValue

Camera_ColorTransformationValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) –

ColorTransformationValueSelector

Camera_ColorTransformationValueSelector_get(self) -> IEnumerationT_ColorTransformationValueSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –

CounterDelay

Camera_CounterDelay_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

CounterDuration

Camera_CounterDuration_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

CounterEventActivation

Camera_CounterEventActivation_get(self) -> IEnumerationT_CounterEventActivationEnums

Parameters **self** (*Spinnaker::Camera **) –

CounterEventSource

Camera_CounterEventSource_get(self) -> IEnumerationT_CounterEventSourceEnums

Parameters **self** (*Spinnaker::Camera **) –

CounterReset

Camera_CounterReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

CounterResetActivation

Camera_CounterResetActivation_get(self) -> IEnumerationT_CounterResetActivationEnums

Parameters **self** (*Spinnaker::Camera **) –

CounterResetSource

Camera_CounterResetSource_get(self) -> IEnumerationT_CounterResetSourceEnums

Parameters **self** (*Spinnaker::Camera **) –

CounterSelector

Camera_CounterSelector_get(self) -> IEnumerationT_CounterSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -

CounterStatus

Camera_CounterStatus_get(self) -> IEnumerationT_CounterStatusEnums

Parameters **self** (*Spinnaker::Camera **) -

CounterTriggerActivation

Camera_CounterTriggerActivation_get(self) -> IEnumerationT_CounterTriggerActivationEnums

Parameters **self** (*Spinnaker::Camera **) -

CounterTriggerSource

Camera_CounterTriggerSource_get(self) -> IEnumerationT_CounterTriggerSourceEnums

Parameters **self** (*Spinnaker::Camera **) -

CounterValue

Camera_CounterValue_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

CounterValueAtReset

Camera_CounterValueAtReset_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

CxpConnectionSelector

Camera_CxpConnectionSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

CxpConnectionTestErrorCount

Camera_CxpConnectionTestErrorCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

CxpConnectionTestMode

Camera_CxpConnectionTestMode_get(self) -> IEnumerationT_CxpConnectionTestModeEnums

Parameters **self** (*Spinnaker::Camera **) -

CxpConnectionTestPacketCount

Camera_CxpConnectionTestPacketCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

CxpLinkConfiguration

Camera_CxpLinkConfiguration_get(self) -> IEnumerationT_CxpLinkConfigurationEnums

Parameters **self** (*Spinnaker::Camera **) -

CxpLinkConfigurationPreferred

Camera_CxpLinkConfigurationPreferred_get(self) -> IEnumerationT_CxpLinkConfigurationPreferredEnums

Parameters **self** (*Spinnaker::Camera **) -

CxpLinkConfigurationStatus

Camera_CxpLinkConfigurationStatus_get(self) -> IEnumerationT_CxpLinkConfigurationStatusEnums

Parameters **self** (*Spinnaker::Camera **) -

CxpPoCxpAuto

Camera_CxpPoCxpAuto_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

CxpPoCxpStatus
Camera_CxpPoCxpStatus_get(self) -> IEnumerationT_CxpPoCxpStatusEnums
Parameters **self** (*Spinnaker::Camera **) –

CxpPoCxpTripReset
Camera_CxpPoCxpTripReset_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

CxpPoCxpTurnOff
Camera_CxpPoCxpTurnOff_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

DecimationHorizontal
Camera_DecimationHorizontal_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

DecimationHorizontalMode
Camera_DecimationHorizontalMode_get(self) -> IEnumerationT_DecimationHorizontalModeEnums
Parameters **self** (*Spinnaker::Camera **) –

DecimationSelector
Camera_DecimationSelector_get(self) -> IEnumerationT_DecimationSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

DecimationVertical
Camera_DecimationVertical_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

DecimationVerticalMode
Camera_DecimationVerticalMode_get(self) -> IEnumerationT_DecimationVerticalModeEnums
Parameters **self** (*Spinnaker::Camera **) –

DefectTableApply
Camera_DefectTableApply_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

DefectTableCoordinateX
Camera_DefectTableCoordinateX_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

DefectTableCoordinateY
Camera_DefectTableCoordinateY_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

DefectTableFactoryRestore
Camera_DefectTableFactoryRestore_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

DefectTableIndex
Camera_DefectTableIndex_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

DefectTablePixelCount

Camera_DefectTablePixelCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DefectTableSave**

Camera_DefectTableSave_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**Deinterlacing**

Camera_Deinterlacing_get(self) -> IEnumerationT_DeinterlacingEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceCharacterSet**

Camera_DeviceCharacterSet_get(self) -> IEnumerationT_DeviceCharacterSetEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceClockFrequency**

Camera_DeviceClockFrequency_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**DeviceClockSelector**

Camera_DeviceClockSelector_get(self) -> IEnumerationT_DeviceClockSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceConnectionSelector**

Camera_DeviceConnectionSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceConnectionSpeed**

Camera_DeviceConnectionSpeed_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceConnectionStatus**

Camera_DeviceConnectionStatus_get(self) -> IEnumerationT_DeviceConnectionStatusEnums

Parameters **self** (*Spinnaker::Camera **) -**DeviceEventChannelCount**

Camera_DeviceEventChannelCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**DeviceFamilyName**

Camera_DeviceFamilyName_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) -**DeviceFeaturePersistenceEnd**

Camera_DeviceFeaturePersistenceEnd_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**DeviceFeaturePersistenceStart**

Camera_DeviceFeaturePersistenceStart_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**DeviceFirmwareVersion**

Camera_DeviceFirmwareVersion_get(self) -> IString

Parameters self (*Spinnaker::Camera **) –

DeviceGenCPVersionMajor
Camera_DeviceGenCPVersionMajor_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

DeviceGenCPVersionMinor
Camera_DeviceGenCPVersionMinor_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

DeviceID
Camera_DeviceID_get(self) -> IString
Parameters self (*Spinnaker::Camera **) –

DeviceIndicatorMode
Camera_DeviceIndicatorMode_get(self) -> IEnumerationT_DeviceIndicatorModeEnums
Parameters self (*Spinnaker::Camera **) –

DeviceLinkBandwidthReserve
Camera_DeviceLinkBandwidthReserve_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

DeviceLinkCommandTimeout
Camera_DeviceLinkCommandTimeout_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

DeviceLinkConnectionCount
Camera_DeviceLinkConnectionCount_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

DeviceLinkCurrentThroughput
Camera_DeviceLinkCurrentThroughput_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

DeviceLinkHeartbeatMode
Camera_DeviceLinkHeartbeatMode_get(self) -> IEnumerationT_DeviceLinkHeartbeatModeEnums
Parameters self (*Spinnaker::Camera **) –

DeviceLinkHeartbeatTimeout
Camera_DeviceLinkHeartbeatTimeout_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

DeviceLinkSelector
Camera_DeviceLinkSelector_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

DeviceLinkSpeed
Camera_DeviceLinkSpeed_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

DeviceLinkThroughputLimit
Camera_DeviceLinkThroughputLimit_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

DeviceLinkThroughputLimitMode

Camera_DeviceLinkThroughputLimitMode_get(self) -> IEnumerationT_DeviceLinkThroughputLimitModeEnums

Parameters self (Spinnaker::Camera *) -**DeviceManifestEntrySelector**

Camera_DeviceManifestEntrySelector_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceManifestPrimaryURL**

Camera_DeviceManifestPrimaryURL_get(self) -> IString

Parameters self (Spinnaker::Camera *) -**DeviceManifestSchemaMajorVersion**

Camera_DeviceManifestSchemaMajorVersion_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceManifestSchemaMinorVersion**

Camera_DeviceManifestSchemaMinorVersion_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceManifestSecondaryURL**

Camera_DeviceManifestSecondaryURL_get(self) -> IString

Parameters self (Spinnaker::Camera *) -**DeviceManifestXMLMajorVersion**

Camera_DeviceManifestXMLMajorVersion_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceManifestXMLMinorVersion**

Camera_DeviceManifestXMLMinorVersion_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceManifestXMLSubMinorVersion**

Camera_DeviceManifestXMLSubMinorVersion_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceManufacturerInfo**

Camera_DeviceManufacturerInfo_get(self) -> IString

Parameters self (Spinnaker::Camera *) -**DeviceMaxThroughput**

Camera_DeviceMaxThroughput_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**DeviceModelName**

Camera_DeviceModelName_get(self) -> IString

Parameters self (Spinnaker::Camera *) -**DevicePowerSupplySelector**

Camera_DevicePowerSupplySelector_get(self) -> IEnumerationT_DevicePowerSupplySelectorEnums

Parameters self (Spinnaker::Camera *) -**DeviceRegistersCheck**

Camera_DeviceRegistersCheck_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

DeviceRegistersEndianness

Camera_DeviceRegistersEndianness_get(self) -> IEnumerationT_DeviceRegistersEndiannessEnums

Parameters **self** (*Spinnaker::Camera **) –

DeviceRegistersStreamingEnd

Camera_DeviceRegistersStreamingEnd_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

DeviceRegistersStreamingStart

Camera_DeviceRegistersStreamingStart_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

DeviceRegistersValid

Camera_DeviceRegistersValid_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) –

DeviceReset

Camera_DeviceReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

DeviceSFNCVersionMajor

Camera_DeviceSFNCVersionMajor_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

DeviceSFNCVersionMinor

Camera_DeviceSFNCVersionMinor_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

DeviceSFNCVersionSubMinor

Camera_DeviceSFNCVersionSubMinor_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

DeviceScanType

Camera_DeviceScanType_get(self) -> IEnumerationT_DeviceScanTypeEnum

Parameters **self** (*Spinnaker::Camera **) –

DeviceSerialNumber

Camera_DeviceSerialNumber_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) –

DeviceSerialPortBaudRate

Camera_DeviceSerialPortBaudRate_get(self) -> IEnumerationT_DeviceSerialPortBaudRateEnums

Parameters **self** (*Spinnaker::Camera **) –

DeviceSerialPortSelector

Camera_DeviceSerialPortSelector_get(self) -> IEnumerationT_DeviceSerialPortSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –

DeviceStreamChannelCount

Camera_DeviceStreamChannelCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

DeviceStreamChannelEndianness

Camera_DeviceStreamChannelEndianness_get(self) -> IEnumerationT_DeviceStreamChannelEndiannessEnums

Parameters self (*Spinnaker::Camera **) -**DeviceStreamChannelLink**

Camera_DeviceStreamChannelLink_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**DeviceStreamChannelPacketSize**

Camera_DeviceStreamChannelPacketSize_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**DeviceStreamChannelSelector**

Camera_DeviceStreamChannelSelector_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**DeviceStreamChannelType**

Camera_DeviceStreamChannelType_get(self) -> IEnumerationT_DeviceStreamChannelTypeEnums

Parameters self (*Spinnaker::Camera **) -**DeviceTLType**

Camera_DeviceTLType_get(self) -> IEnumerationT_DeviceTLTypeEnums

Parameters self (*Spinnaker::Camera **) -**DeviceTLVersionMajor**

Camera_DeviceTLVersionMajor_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**DeviceTLVersionMinor**

Camera_DeviceTLVersionMinor_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**DeviceTLVersionSubMinor**

Camera_DeviceTLVersionSubMinor_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) -**DeviceTapGeometry**

Camera_DeviceTapGeometry_get(self) -> IEnumerationT_DeviceTapGeometryEnums

Parameters self (*Spinnaker::Camera **) -**DeviceTemperature**

Camera_DeviceTemperature_get(self) -> IFloat

Parameters self (*Spinnaker::Camera **) -**DeviceTemperatureSelector**

Camera_DeviceTemperatureSelector_get(self) -> IEnumerationT_DeviceTemperatureSelectorEnums

Parameters self (*Spinnaker::Camera **) -**DeviceType**

Camera_DeviceType_get(self) -> IEnumerationT_DeviceTypeEnums

Parameters self (*Spinnaker::Camera **) -**DeviceUptime**

Camera_DeviceUptime_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

DeviceUserID
Camera_DeviceUserID_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) –

DeviceVendorName
Camera_DeviceVendorName_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) –

DeviceVersion
Camera_DeviceVersion_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) –

EncoderDivider
Camera_EncoderDivider_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

EncoderMode
Camera_EncoderMode_get(self) -> IEnumerationT_EncoderModeEnums

Parameters **self** (*Spinnaker::Camera **) –

EncoderOutputMode
Camera_EncoderOutputMode_get(self) -> IEnumerationT_EncoderOutputModeEnums

Parameters **self** (*Spinnaker::Camera **) –

EncoderReset
Camera_EncoderReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –

EncoderResetActivation
Camera_EncoderResetActivation_get(self) -> IEnumerationT_EncoderResetActivationEnums

Parameters **self** (*Spinnaker::Camera **) –

EncoderResetSource
Camera_EncoderResetSource_get(self) -> IEnumerationT_EncoderResetSourceEnums

Parameters **self** (*Spinnaker::Camera **) –

EncoderSelector
Camera_EncoderSelector_get(self) -> IEnumerationT_EncoderSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –

EncoderSourceA
Camera_EncoderSourceA_get(self) -> IEnumerationT_EncoderSourceAEnums

Parameters **self** (*Spinnaker::Camera **) –

EncoderSourceB
Camera_EncoderSourceB_get(self) -> IEnumerationT_EncoderSourceBEnums

Parameters **self** (*Spinnaker::Camera **) –

EncoderStatus
Camera_EncoderStatus_get(self) -> IEnumerationT_EncoderStatusEnums

Parameters **self** (*Spinnaker::Camera **) –

EncoderTimeout
Camera_EncoderTimeout_get(self) -> IFloat
Parameters self (Spinnaker::Camera *) -

EncoderValue
Camera_EncoderValue_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EncoderValueAtReset
Camera_EncoderValueAtReset_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EnumerationCount
Camera_EnumerationCount_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionEnd
Camera_EventAcquisitionEnd_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionEndFrameID
Camera_EventAcquisitionEndFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionEndTimestamp
Camera_EventAcquisitionEndTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionError
Camera_EventAcquisitionError_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionErrorFrameID
Camera_EventAcquisitionErrorFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionErrorTimestamp
Camera_EventAcquisitionErrorTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionStart
Camera_EventAcquisitionStart_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionStartFrameID
Camera_EventAcquisitionStartFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionStartTimestamp
Camera_EventAcquisitionStartTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventAcquisitionTransferEnd
Camera_EventAcquisitionTransferEnd_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventAcquisitionTransferEndFrameID
Camera_EventAcquisitionTransferEndFrameID_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventAcquisitionTransferEndTimestamp
Camera_EventAcquisitionTransferEndTimestamp_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventAcquisitionTransferStart
Camera_EventAcquisitionTransferStart_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventAcquisitionTransferStartFrameID
Camera_EventAcquisitionTransferStartFrameID_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventAcquisitionTransferStartTimestamp
Camera_EventAcquisitionTransferStartTimestamp_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventAcquisitionTrigger
Camera_EventAcquisitionTrigger_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventAcquisitionTriggerFrameID
Camera_EventAcquisitionTriggerFrameID_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventAcquisitionTriggerTimestamp
Camera_EventAcquisitionTriggerTimestamp_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventActionLate
Camera_EventActionLate_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventActionLateFrameID
Camera_EventActionLateFrameID_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventActionLateTimestamp
Camera_EventActionLateTimestamp_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventCounter0End
Camera_EventCounter0End_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventCounter0EndFrameID
Camera_EventCounter0EndFrameID_get(self) -> Integer

Parameters self (*Spinnaker::Camera **) –

EventCounter0EndTimestamp
Camera_EventCounter0EndTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0Start
Camera_EventCounter0Start_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0StartFrameID
Camera_EventCounter0StartFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter0StartTimestamp
Camera_EventCounter0StartTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1End
Camera_EventCounter1End_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1EndFrameID
Camera_EventCounter1EndFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1EndTimestamp
Camera_EventCounter1EndTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1Start
Camera_EventCounter1Start_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1StartFrameID
Camera_EventCounter1StartFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventCounter1StartTimestamp
Camera_EventCounter1StartTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventEncoder0Restarted
Camera_EventEncoder0Restarted_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventEncoder0RestartedFrameID
Camera_EventEncoder0RestartedFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventEncoder0RestartedTimestamp
Camera_EventEncoder0RestartedTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventEncoder0Stopped
Camera_EventEncoder0Stopped_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventEncoder0StoppedFrameID
Camera_EventEncoder0StoppedFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventEncoder0StoppedTimestamp
Camera_EventEncoder0StoppedTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventEncoder1Restarted
Camera_EventEncoder1Restarted_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventEncoder1RestartedFrameID
Camera_EventEncoder1RestartedFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventEncoder1RestartedTimestamp
Camera_EventEncoder1RestartedTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventEncoder1Stopped
Camera_EventEncoder1Stopped_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventEncoder1StoppedFrameID
Camera_EventEncoder1StoppedFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventEncoder1StoppedTimestamp
Camera_EventEncoder1StoppedTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventError
Camera_EventError_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventErrorCode
Camera_EventErrorCode_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventErrorFrameID
Camera_EventErrorFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventErrorTimestamp
Camera_EventErrorTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventExposureEnd
Camera_EventExposureEnd_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventExposureEndFrameID
Camera_EventExposureEndFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventExposureEndTimestamp
Camera_EventExposureEndTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventExposureStart
Camera_EventExposureStart_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventExposureStartFrameID
Camera_EventExposureStartFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventExposureStartTimestamp
Camera_EventExposureStartTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameBurstEnd
Camera_EventFrameBurstEnd_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameBurstEndFrameID
Camera_EventFrameBurstEndFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameBurstEndTimestamp
Camera_EventFrameBurstEndTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameBurstStart
Camera_EventFrameBurstStart_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameBurstStartFrameID
Camera_EventFrameBurstStartFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameBurstStartTimestamp
Camera_EventFrameBurstStartTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameEnd
Camera_EventFrameEnd_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameEndFrameID
Camera_EventFrameEndFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventFrameEndTimestamp
Camera_EventFrameEndTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameStart
Camera_EventFrameStart_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameStartFrameID
Camera_EventFrameStartFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameStartTimestamp
Camera_EventFrameStartTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTransferEnd
Camera_EventFrameTransferEnd_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTransferEndFrameID
Camera_EventFrameTransferEndFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTransferEndTimestamp
Camera_EventFrameTransferEndTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTransferStart
Camera_EventFrameTransferStart_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTransferStartFrameID
Camera_EventFrameTransferStartFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTransferStartTimestamp
Camera_EventFrameTransferStartTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTrigger
Camera_EventFrameTrigger_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTriggerFrameID
Camera_EventFrameTriggerFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventFrameTriggerTimestamp
Camera_EventFrameTriggerTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventLine0AnyEdge
Camera_EventLine0AnyEdge_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventLine0AnyEdgeFrameID
Camera_EventLine0AnyEdgeFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine0AnyEdgeTimestamp
Camera_EventLine0AnyEdgeTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine0FallingEdge
Camera_EventLine0FallingEdge_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine0FallingEdgeFrameID
Camera_EventLine0FallingEdgeFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine0FallingEdgeTimestamp
Camera_EventLine0FallingEdgeTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine0RisingEdge
Camera_EventLine0RisingEdge_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine0RisingEdgeFrameID
Camera_EventLine0RisingEdgeFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine0RisingEdgeTimestamp
Camera_EventLine0RisingEdgeTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine1AnyEdge
Camera_EventLine1AnyEdge_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine1AnyEdgeFrameID
Camera_EventLine1AnyEdgeFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine1AnyEdgeTimestamp
Camera_EventLine1AnyEdgeTimestamp_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine1FallingEdge
Camera_EventLine1FallingEdge_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine1FallingEdgeFrameID
Camera_EventLine1FallingEdgeFrameID_get(self) -> IInteger
Parameters self (Spinnaker::Camera *) -

EventLine1FallingEdgeTimestamp
Camera_EventLine1FallingEdgeTimestamp_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

EventLine1RisingEdge
Camera_EventLine1RisingEdge_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLine1RisingEdgeFrameID
Camera_EventLine1RisingEdgeFrameID_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLine1RisingEdgeTimestamp
Camera_EventLine1RisingEdgeTimestamp_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkSpeedChange
Camera_EventLinkSpeedChange_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkSpeedChangeFrameID
Camera_EventLinkSpeedChangeFrameID_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkSpeedChangeTimestamp
Camera_EventLinkSpeedChangeTimestamp_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkTrigger0
Camera_EventLinkTrigger0_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkTrigger0FrameID
Camera_EventLinkTrigger0FrameID_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkTrigger0Timestamp
Camera_EventLinkTrigger0Timestamp_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkTrigger1
Camera_EventLinkTrigger1_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkTrigger1FrameID
Camera_EventLinkTrigger1FrameID_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventLinkTrigger1Timestamp
Camera_EventLinkTrigger1Timestamp_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

EventNotification
Camera_EventNotification_get(self) -> IEnumerationT_EventNotificationEnums
Parameters **self** (*Spinnaker::Camera **) –

EventSelector

Camera_EventSelector_get(self) -> IEnumerationT_EventSelectorEnums

Parameters self (Spinnaker::Camera *) -

EventSequencerSetChange

Camera_EventSequencerSetChange_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventSequencerSetChangeFrameID

Camera_EventSequencerSetChangeFrameID_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventSequencerSetChangeTimestamp

Camera_EventSequencerSetChangeTimestamp_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventSerialData

Camera_EventSerialData_get(self) -> IString

Parameters self (Spinnaker::Camera *) -

EventSerialDataLength

Camera_EventSerialDataLength_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventSerialPortReceive

Camera_EventSerialPortReceive_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventSerialPortReceiveTimestamp

Camera_EventSerialPortReceiveTimestamp_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventSerialReceiveOverflow

Camera_EventSerialReceiveOverflow_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockEnd

Camera_EventStream0TransferBlockEnd_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockEndFrameID

Camera_EventStream0TransferBlockEndFrameID_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockEndTimestamp

Camera_EventStream0TransferBlockEndTimestamp_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockStart

Camera_EventStream0TransferBlockStart_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockStartFrameID

Camera_EventStream0TransferBlockStartFrameID_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBlockStartTimestamp
Camera_EventStream0TransferBlockStartTimestamp_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBlockTrigger
Camera_EventStream0TransferBlockTrigger_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBlockTriggerFrameID
Camera_EventStream0TransferBlockTriggerFrameID_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBlockTriggerTimestamp
Camera_EventStream0TransferBlockTriggerTimestamp_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBurstEnd
Camera_EventStream0TransferBurstEnd_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBurstEndFrameID
Camera_EventStream0TransferBurstEndFrameID_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBurstEndTimestamp
Camera_EventStream0TransferBurstEndTimestamp_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBurstStart
Camera_EventStream0TransferBurstStart_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBurstStartFrameID
Camera_EventStream0TransferBurstStartFrameID_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferBurstStartTimestamp
Camera_EventStream0TransferBurstStartTimestamp_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferEnd
Camera_EventStream0TransferEnd_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferEndFrameID
Camera_EventStream0TransferEndFrameID_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferEndTimestamp
Camera_EventStream0TransferEndTimestamp_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

EventStream0TransferOverflow
Camera_EventStream0TransferOverflow_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferOverflowFrameID
Camera_EventStream0TransferOverflowFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferOverflowTimestamp
Camera_EventStream0TransferOverflowTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferPause
Camera_EventStream0TransferPause_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferPauseFrameID
Camera_EventStream0TransferPauseFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferPauseTimestamp
Camera_EventStream0TransferPauseTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferResume
Camera_EventStream0TransferResume_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferResumeFrameID
Camera_EventStream0TransferResumeFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferResumeTimestamp
Camera_EventStream0TransferResumeTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferStart
Camera_EventStream0TransferStart_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferStartFrameID
Camera_EventStream0TransferStartFrameID_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventStream0TransferStartTimestamp
Camera_EventStream0TransferStartTimestamp_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventTest
Camera_EventTest_get(self) -> Integer
Parameters self (Spinnaker::Camera *) -

EventTestTimestamp
Camera_EventTestTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer0End
Camera_EventTimer0End_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer0EndFrameID
Camera_EventTimer0EndFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer0EndTimestamp
Camera_EventTimer0EndTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer0Start
Camera_EventTimer0Start_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer0StartFrameID
Camera_EventTimer0StartFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer0StartTimestamp
Camera_EventTimer0StartTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer1End
Camera_EventTimer1End_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer1EndFrameID
Camera_EventTimer1EndFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer1EndTimestamp
Camera_EventTimer1EndTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer1Start
Camera_EventTimer1Start_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer1StartFrameID
Camera_EventTimer1StartFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

EventTimer1StartTimestamp
Camera_EventTimer1StartTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) –

ExposureActiveMode
Camera_ExposureActiveMode_get(self) -> IEnumerationT_ExposureActiveModeEnums

Parameters **self** (*Spinnaker::Camera **) –

ExposureAuto

Camera_ExposureAuto_get(self) -> IEnumerationT_ExposureAutoEnums

Parameters **self** (*Spinnaker::Camera **) -**ExposureMode**

Camera_ExposureMode_get(self) -> IEnumerationT_ExposureModeEnums

Parameters **self** (*Spinnaker::Camera **) -**ExposureTime**

Camera_ExposureTime_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**ExposureTimeMode**

Camera_ExposureTimeMode_get(self) -> IEnumerationT_ExposureTimeModeEnums

Parameters **self** (*Spinnaker::Camera **) -**ExposureTimeSelector**

Camera_ExposureTimeSelector_get(self) -> IEnumerationT_ExposureTimeSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**FactoryReset**

Camera_FactoryReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**FfcUserGain**

Camera_FfcUserGain_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**FfcUserGainAll**

Camera_FfcUserGainAll_get(self) -> IRegister

Parameters **self** (*Spinnaker::Camera **) -**FfcUserOffset**

Camera_FfcUserOffset_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**FfcUserOffsetAll**

Camera_FfcUserOffsetAll_get(self) -> IRegister

Parameters **self** (*Spinnaker::Camera **) -**FfcUserTableReset**

Camera_FfcUserTableReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**FfcUserTableSave**

Camera_FfcUserTableSave_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**FfcUserTableXCoordinate**

Camera_FfcUserTableXCoordinate_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**FileAccessBuffer**

Camera_FileAccessBuffer_get(self) -> IRegister

Parameters **self** (*Spinnaker::Camera **) –

FileAccessLength
Camera_FileAccessLength_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

FileAccessOffset
Camera_FileAccessOffset_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

FileOpenMode
Camera_FileOpenMode_get(self) -> IEnumerationT_FileOpenModeEnums
Parameters **self** (*Spinnaker::Camera **) –

FileOperationExecute
Camera_FileOperationExecute_get(self) -> ICommand
Parameters **self** (*Spinnaker::Camera **) –

FileOperationResult
Camera_FileOperationResult_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

FileOperationSelector
Camera_FileOperationSelector_get(self) -> IEnumerationT_FileOperationSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

FileOperationStatus
Camera_FileOperationStatus_get(self) -> IEnumerationT_FileOperationStatusEnums
Parameters **self** (*Spinnaker::Camera **) –

FileSelector
Camera_FileSelector_get(self) -> IEnumerationT_FileSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

FileSize
Camera_FileSize_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

Gain
Camera_Gain_get(self) -> IFloat
Parameters **self** (*Spinnaker::Camera **) –

GainAuto
Camera_GainAuto_get(self) -> IEnumerationT_GainAutoEnums
Parameters **self** (*Spinnaker::Camera **) –

GainAutoBalance
Camera_GainAutoBalance_get(self) -> IEnumerationT_GainAutoBalanceEnums
Parameters **self** (*Spinnaker::Camera **) –

GainSelector
Camera_GainSelector_get(self) -> IEnumerationT_GainSelectorEnums
Parameters **self** (*Spinnaker::Camera **) –

Gamma
 Camera_Gamma_get(self) -> IFloat
 Parameters **self** (*Spinnaker::Camera **) -

GammaEnable
 Camera_GammaEnable_get(self) -> IBoolean
 Parameters **self** (*Spinnaker::Camera **) -

GevActiveLinkCount
 Camera_GevActiveLinkCount_get(self) -> IInteger
 Parameters **self** (*Spinnaker::Camera **) -

GevCCP
 Camera_GevCCP_get(self) -> IEnumerationT_GevCCPEnums
 Parameters **self** (*Spinnaker::Camera **) -

GevCurrentDefaultGateway
 Camera_GevCurrentDefaultGateway_get(self) -> IInteger
 Parameters **self** (*Spinnaker::Camera **) -

GevCurrentIPAddress
 Camera_GevCurrentIPAddress_get(self) -> IInteger
 Parameters **self** (*Spinnaker::Camera **) -

GevCurrentIPConfigurationDHCP
 Camera_GevCurrentIPConfigurationDHCP_get(self) -> IBoolean
 Parameters **self** (*Spinnaker::Camera **) -

GevCurrentIPConfigurationLLA
 Camera_GevCurrentIPConfigurationLLA_get(self) -> IBoolean
 Parameters **self** (*Spinnaker::Camera **) -

GevCurrentIPConfigurationPersistentIP
 Camera_GevCurrentIPConfigurationPersistentIP_get(self) -> IBoolean
 Parameters **self** (*Spinnaker::Camera **) -

GevCurrentPhysicalLinkConfiguration
 Camera_GevCurrentPhysicalLinkConfiguration_get(self) -> IEnumerationT_GevCurrentPhysicalLinkConfigurationEnums
 Parameters **self** (*Spinnaker::Camera **) -

GevCurrentSubnetMask
 Camera_GevCurrentSubnetMask_get(self) -> IInteger
 Parameters **self** (*Spinnaker::Camera **) -

GevDiscoveryAckDelay
 Camera_GevDiscoveryAckDelay_get(self) -> IInteger
 Parameters **self** (*Spinnaker::Camera **) -

GevFirstURL
 Camera_GevFirstURL_get(self) -> IString
 Parameters **self** (*Spinnaker::Camera **) -

GevGVCPExtendedStatusCodes

Camera_GevGVCPExtendedStatusCodes_get(self) -> IBoolean

Parameters *self* (*Spinnaker::Camera **) -**GevGVCPExtendedStatusCodesSelector**

Camera_GevGVCPExtendedStatusCodesSelector_get(self) -> IEnumerationT_GevGVCPExtendedStatusCodesSelectorEnums

Parameters *self* (*Spinnaker::Camera **) -**GevGVCPhartbeatDisable**

Camera_GevGVCPhartbeatDisable_get(self) -> IBoolean

Parameters *self* (*Spinnaker::Camera **) -**GevGVCPPendingAck**

Camera_GevGVCPPendingAck_get(self) -> IBoolean

Parameters *self* (*Spinnaker::Camera **) -**GevGVCPPendingTimeout**

Camera_GevGVCPPendingTimeout_get(self) -> IInteger

Parameters *self* (*Spinnaker::Camera **) -**GevGVSPExtendedIDMode**

Camera_GevGVSPExtendedIDMode_get(self) -> IEnumerationT_GevGVSPExtendedIDModeEnums

Parameters *self* (*Spinnaker::Camera **) -**GevHeartbeatTimeout**

Camera_GevHeartbeatTimeout_get(self) -> IInteger

Parameters *self* (*Spinnaker::Camera **) -**GevIEEE1588**

Camera_GevIEEE1588_get(self) -> IBoolean

Parameters *self* (*Spinnaker::Camera **) -**GevIEEE1588ClockAccuracy**

Camera_GevIEEE1588ClockAccuracy_get(self) -> IEnumerationT_GevIEEE1588ClockAccuracyEnums

Parameters *self* (*Spinnaker::Camera **) -**GevIEEE1588Mode**

Camera_GevIEEE1588Mode_get(self) -> IEnumerationT_GevIEEE1588ModeEnums

Parameters *self* (*Spinnaker::Camera **) -**GevIEEE1588Status**

Camera_GevIEEE1588Status_get(self) -> IEnumerationT_GevIEEE1588StatusEnums

Parameters *self* (*Spinnaker::Camera **) -**GevIPConfigurationStatus**

Camera_GevIPConfigurationStatus_get(self) -> IEnumerationT_GevIPConfigurationStatusEnums

Parameters *self* (*Spinnaker::Camera **) -**GevInterfaceSelector**

Camera_GevInterfaceSelector_get(self) -> IInteger

Parameters *self* (*Spinnaker::Camera **) -

GevMACAddress

Camera_GevMACAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevMCDA

Camera_GevMCDA_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevMCPHostPort

Camera_GevMCPHostPort_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevMCRC

Camera_GevMCRC_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevMCSP

Camera_GevMCSP_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevMCTT

Camera_GevMCTT_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevNumberOfInterfaces

Camera_GevNumberOfInterfaces_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevPAUSEFrameReception

Camera_GevPAUSEFrameReception_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

GevPAUSEFrameTransmission

Camera_GevPAUSEFrameTransmission_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -

GevPersistentDefaultGateway

Camera_GevPersistentDefaultGateway_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevPersistentIPAddress

Camera_GevPersistentIPAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevPersistentSubnetMask

Camera_GevPersistentSubnetMask_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -

GevPhysicalLinkConfiguration

Camera_GevPhysicalLinkConfiguration_get(self) -> IEnumerationT_GevPhysicalLinkConfigurationEnums

Parameters **self** (*Spinnaker::Camera **) -

GevPrimaryApplicationIPAddress

Camera_GevPrimaryApplicationIPAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –

GevPrimaryApplicationSocket
Camera_GevPrimaryApplicationSocket_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

GevPrimaryApplicationSwitchoverKey
Camera_GevPrimaryApplicationSwitchoverKey_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

GevSCCFGAllInTransmission
Camera_GevSCCFGAllInTransmission_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

GevSCCFGExtendedChunkData
Camera_GevSCCFGExtendedChunkData_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

GevSCCFGPacketResendDestination
Camera_GevSCCFGPacketResendDestination_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

GevSCCFGUnconditionalStreaming
Camera_GevSCCFGUnconditionalStreaming_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

GevSCDA
Camera_GevSCDA_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

GevSCPD
Camera_GevSCPD_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

GevSCPDirection
Camera_GevSCPDirection_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

GevSCPHostPort
Camera_GevSCPHostPort_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

GevSCPInterfaceIndex
Camera_GevSCPInterfaceIndex_get(self) -> IInteger
Parameters **self** (*Spinnaker::Camera **) –

GevSCPSBigEndian
Camera_GevSCPSBigEndian_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

GevSCPSDoNotFragment
Camera_GevSCPSDoNotFragment_get(self) -> IBoolean
Parameters **self** (*Spinnaker::Camera **) –

GevSCPSFireTestPacket

Camera_GevSCPSFireTestPacket_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**GevSCPSPacketSize**

Camera_GevSCPSPacketSize_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevSCSP**

Camera_GevSCSP_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevSCZoneConfigurationLock**

Camera_GevSCZoneConfigurationLock_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**GevSCZoneCount**

Camera_GevSCZoneCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevSCZoneDirectionAll**

Camera_GevSCZoneDirectionAll_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevSecondURL**

Camera_GevSecondURL_get(self) -> IString

Parameters **self** (*Spinnaker::Camera **) -**GevStreamChannelSelector**

Camera_GevStreamChannelSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GevSupportedOption**

Camera_GevSupportedOption_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**GevSupportedOptionSelector**

Camera_GevSupportedOptionSelector_get(self) -> IEnumerationT_GevSupportedOptionSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**GevTimestampTickFrequency**

Camera_GevTimestampTickFrequency_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**GuiXmlManifestAddress**

Camera_GuiXmlManifestAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**Height**

Camera_Height_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**HeightMax**

Camera_HeightMax_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

ImageComponentEnable
Camera_ImageComponentEnable_get(self) -> IBoolean
Parameters self (*Spinnaker::Camera **) –

ImageComponentSelector
Camera_ImageComponentSelector_get(self) -> IEnumerationT_ImageComponentSelectorEnums
Parameters self (*Spinnaker::Camera **) –

ImageCompressionBitrate
Camera_ImageCompressionBitrate_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

ImageCompressionJPEGFormatOption
Camera_ImageCompressionJPEGFormatOption_get(self) -> IEnumerationT_ImageCompressionJPEGFormatOptionEnums
Parameters self (*Spinnaker::Camera **) –

ImageCompressionMode
Camera_ImageCompressionMode_get(self) -> IEnumerationT_ImageCompressionModeEnums
Parameters self (*Spinnaker::Camera **) –

ImageCompressionQuality
Camera_ImageCompressionQuality_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

ImageCompressionRateOption
Camera_ImageCompressionRateOption_get(self) -> IEnumerationT_ImageCompressionRateOptionEnums
Parameters self (*Spinnaker::Camera **) –

Init (*self*)
Parameters self (*Spinnaker::Camera **) –
void Spinnaker::Camera::Init()

IspEnable
Camera_IspEnable_get(self) -> IBoolean
Parameters self (*Spinnaker::Camera **) –

LUTEnable
Camera_LUTEnable_get(self) -> IBoolean
Parameters self (*Spinnaker::Camera **) –

LUTIndex
Camera_LUTIndex_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

LUTSelector
Camera_LUTSelector_get(self) -> IEnumerationT_LUTSelectorEnums
Parameters self (*Spinnaker::Camera **) –

LUTValue
Camera_LUTValue_get(self) -> IInteger

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    Parameters self (Spinnaker::Camera *) -
LUTValueAll
    Camera_LUTValueAll_get(self) -> IRegister
    Parameters self (Spinnaker::Camera *) -
LineFilterWidth
    Camera_LineFilterWidth_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
LineFormat
    Camera_LineFormat_get(self) -> IEnumerationT_LineFormatEnums
    Parameters self (Spinnaker::Camera *) -
LineInputFilterSelector
    Camera_LineInputFilterSelector_get(self) -> IEnumerationT_LineInputFilterSelectorEnums
    Parameters self (Spinnaker::Camera *) -
LineInverter
    Camera_LineInverter_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
LineMode
    Camera_LineMode_get(self) -> IEnumerationT_LineModeEnums
    Parameters self (Spinnaker::Camera *) -
LinePitch
    Camera_LinePitch_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
LineSelector
    Camera_LineSelector_get(self) -> IEnumerationT_LineSelectorEnums
    Parameters self (Spinnaker::Camera *) -
LineSource
    Camera_LineSource_get(self) -> IEnumerationT_LineSourceEnums
    Parameters self (Spinnaker::Camera *) -
LineStatus
    Camera_LineStatus_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
LineStatusAll
    Camera_LineStatusAll_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
LinkErrorCount
    Camera_LinkErrorCount_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
LinkRecoveryCount
    Camera_LinkRecoveryCount_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -

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LinkUptime

Camera_LinkUptime_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**LogicBlockLUTInputActivation**

Camera_LogicBlockLUTInputActivation_get(self) -> IEnumerationT_LogicBlockLUTInputActivationEnums

Parameters self (Spinnaker::Camera *) -**LogicBlockLUTInputSelector**

Camera_LogicBlockLUTInputSelector_get(self) -> IEnumerationT_LogicBlockLUTInputSelectorEnums

Parameters self (Spinnaker::Camera *) -**LogicBlockLUTInputSource**

Camera_LogicBlockLUTInputSource_get(self) -> IEnumerationT_LogicBlockLUTInputSourceEnums

Parameters self (Spinnaker::Camera *) -**LogicBlockLUTOutputValue**

Camera_LogicBlockLUTOutputValue_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**LogicBlockLUTOutputValueAll**

Camera_LogicBlockLUTOutputValueAll_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**LogicBlockLUTRowIndex**

Camera_LogicBlockLUTRowIndex_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**LogicBlockLUTSelector**

Camera_LogicBlockLUTSelector_get(self) -> IEnumerationT_LogicBlockLUTSelectorEnums

Parameters self (Spinnaker::Camera *) -**LogicBlockSelector**

Camera_LogicBlockSelector_get(self) -> IEnumerationT_LogicBlockSelectorEnums

Parameters self (Spinnaker::Camera *) -**MaxDeviceResetTime**

Camera_MaxDeviceResetTime_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**OffsetX**

Camera_OffsetX_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**OffsetY**

Camera_OffsetY_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**PacketResendRequestCount**

Camera_PacketResendRequestCount_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**PayloadSize**

Camera_PayloadSize_get(self) -> IInteger

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    Parameters self (Spinnaker::Camera *) -
PixelColorFilter
    Camera_PixelColorFilter_get(self) -> IEnumerationT_PixelColorFilterEnums
    Parameters self (Spinnaker::Camera *) -
PixelDynamicRangeMax
    Camera_PixelDynamicRangeMax_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
PixelDynamicRangeMin
    Camera_PixelDynamicRangeMin_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
PixelFormat
    Camera_PixelFormat_get(self) -> IEnumerationT_PixelFormatEnums
    Parameters self (Spinnaker::Camera *) -
PixelFormatInfoID
    Camera_PixelFormatInfoID_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
PixelFormatInfoSelector
    Camera_PixelFormatInfoSelector_get(self) -> IEnumerationT_PixelFormatInfoSelectorEnums
    Parameters self (Spinnaker::Camera *) -
PixelSize
    Camera_PixelSize_get(self) -> IEnumerationT_PixelSizeEnums
    Parameters self (Spinnaker::Camera *) -
PowerSupplyCurrent
    Camera_PowerSupplyCurrent_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
PowerSupplyVoltage
    Camera_PowerSupplyVoltage_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
RegionDestination
    Camera_RegionDestination_get(self) -> IEnumerationT_RegionDestinationEnums
    Parameters self (Spinnaker::Camera *) -
RegionMode
    Camera_RegionMode_get(self) -> IEnumerationT_RegionModeEnums
    Parameters self (Spinnaker::Camera *) -
RegionSelector
    Camera_RegionSelector_get(self) -> IEnumerationT_RegionSelectorEnums
    Parameters self (Spinnaker::Camera *) -
ReverseX
    Camera_ReverseX_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -

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ReverseY

Camera_ReverseY_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**RgbTransformLightSource**

Camera_RgbTransformLightSource_get(self) -> IEnumerationT_RgbTransformLightSourceEnums

Parameters **self** (*Spinnaker::Camera **) -**Saturation**

Camera_Saturation_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**SaturationEnable**

Camera_SaturationEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**Scan3dAxisMax**

Camera_Scan3dAxisMax_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dAxisMin**

Camera_Scan3dAxisMin_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateOffset**

Camera_Scan3dCoordinateOffset_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateReferenceSelector**

Camera_Scan3dCoordinateReferenceSelector_get(self) -> IEnumerationT_Scan3dCoordinateReferenceSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateReferenceValue**

Camera_Scan3dCoordinateReferenceValue_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateScale**

Camera_Scan3dCoordinateScale_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateSelector**

Camera_Scan3dCoordinateSelector_get(self) -> IEnumerationT_Scan3dCoordinateSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateSystem**

Camera_Scan3dCoordinateSystem_get(self) -> IEnumerationT_Scan3dCoordinateSystemEnums

Parameters **self** (*Spinnaker::Camera **) -**Scan3dCoordinateSystemReference**

Camera_Scan3dCoordinateSystemReference_get(self) -> IEnumerationT_Scan3dCoordinateSystemReferenceEnums

Parameters **self** (*Spinnaker::Camera **) -

Scan3dCoordinateTransformSelector
 Camera_Scan3dCoordinateTransformSelector_get(self) -> IEnumerationT_Scan3dCoordinateTransformSelectorEnums
Parameters self (*Spinnaker::Camera **) -

Scan3dDistanceUnit
 Camera_Scan3dDistanceUnit_get(self) -> IEnumerationT_Scan3dDistanceUnitEnums
Parameters self (*Spinnaker::Camera **) -

Scan3dInvalidDataFlag
 Camera_Scan3dInvalidDataFlag_get(self) -> IBoolean
Parameters self (*Spinnaker::Camera **) -

Scan3dInvalidDataValue
 Camera_Scan3dInvalidDataValue_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) -

Scan3dOutputMode
 Camera_Scan3dOutputMode_get(self) -> IEnumerationT_Scan3dOutputModeEnums
Parameters self (*Spinnaker::Camera **) -

Scan3dTransformValue
 Camera_Scan3dTransformValue_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) -

SensorDescription
 Camera_SensorDescription_get(self) -> IString
Parameters self (*Spinnaker::Camera **) -

SensorDigitizationTaps
 Camera_SensorDigitizationTaps_get(self) -> IEnumerationT_SensorDigitizationTapsEnums
Parameters self (*Spinnaker::Camera **) -

SensorHeight
 Camera_SensorHeight_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) -

SensorShutterMode
 Camera_SensorShutterMode_get(self) -> IEnumerationT_SensorShutterModeEnums
Parameters self (*Spinnaker::Camera **) -

SensorTaps
 Camera_SensorTaps_get(self) -> IEnumerationT_SensorTapsEnums
Parameters self (*Spinnaker::Camera **) -

SensorWidth
 Camera_SensorWidth_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) -

SequencerConfigurationMode
 Camera_SequencerConfigurationMode_get(self) -> IEnumerationT_SequencerConfigurationModeEnums
Parameters self (*Spinnaker::Camera **) -

SequencerConfigurationReset

Camera_SequencerConfigurationReset_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –**SequencerConfigurationValid**

Camera_SequencerConfigurationValid_get(self) -> IEnumerationT_SequencerConfigurationValidEnums

Parameters **self** (*Spinnaker::Camera **) –**SequencerFeatureEnable**

Camera_SequencerFeatureEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) –**SequencerFeatureSelector**

Camera_SequencerFeatureSelector_get(self) -> IEnumerationT_SequencerFeatureSelectorEnums

Parameters **self** (*Spinnaker::Camera **) –**SequencerMode**

Camera_SequencerMode_get(self) -> IEnumerationT_SequencerModeEnums

Parameters **self** (*Spinnaker::Camera **) –**SequencerPathSelector**

Camera_SequencerPathSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –**SequencerSetActive**

Camera_SequencerSetActive_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –**SequencerSetLoad**

Camera_SequencerSetLoad_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –**SequencerSetNext**

Camera_SequencerSetNext_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –**SequencerSetSave**

Camera_SequencerSetSave_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) –**SequencerSetSelector**

Camera_SequencerSetSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –**SequencerSetStart**

Camera_SequencerSetStart_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) –**SequencerSetValid**

Camera_SequencerSetValid_get(self) -> IEnumerationT_SequencerSetValidEnums

Parameters **self** (*Spinnaker::Camera **) –**SequencerTriggerActivation**

Camera_SequencerTriggerActivation_get(self) -> IEnumerationT_SequencerTriggerActivationEnums

Parameters self (*Spinnaker::Camera **) –

SequencerTriggerSource
Camera_SequencerTriggerSource_get(self) -> IEnumerationT_SequencerTriggerSourceEnums

Parameters self (*Spinnaker::Camera **) –

SerialPortBaudRate
Camera_SerialPortBaudRate_get(self) -> IEnumerationT_SerialPortBaudRateEnums

Parameters self (*Spinnaker::Camera **) –

SerialPortDataBits
Camera_SerialPortDataBits_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

SerialPortParity
Camera_SerialPortParity_get(self) -> IEnumerationT_SerialPortParityEnums

Parameters self (*Spinnaker::Camera **) –

SerialPortSelector
Camera_SerialPortSelector_get(self) -> IEnumerationT_SerialPortSelectorEnums

Parameters self (*Spinnaker::Camera **) –

SerialPortSource
Camera_SerialPortSource_get(self) -> IEnumerationT_SerialPortSourceEnums

Parameters self (*Spinnaker::Camera **) –

SerialPortStopBits
Camera_SerialPortStopBits_get(self) -> IEnumerationT_SerialPortStopBitsEnums

Parameters self (*Spinnaker::Camera **) –

SerialReceiveFramingErrorCount
Camera_SerialReceiveFramingErrorCount_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

SerialReceiveParityErrorCount
Camera_SerialReceiveParityErrorCount_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

SerialReceiveQueueClear
Camera_SerialReceiveQueueClear_get(self) -> ICommand

Parameters self (*Spinnaker::Camera **) –

SerialReceiveQueueCurrentCharacterCount
Camera_SerialReceiveQueueCurrentCharacterCount_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

SerialReceiveQueueMaxCharacterCount
Camera_SerialReceiveQueueMaxCharacterCount_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

SerialTransmitQueueCurrentCharacterCount
Camera_SerialTransmitQueueCurrentCharacterCount_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

SerialTransmitQueueMaxCharacterCount

Camera_SerialTransmitQueueMaxCharacterCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**Sharpening**

Camera_Sharpening_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**SharpeningAuto**

Camera_SharpeningAuto_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**SharpeningEnable**

Camera_SharpeningEnable_get(self) -> IBoolean

Parameters **self** (*Spinnaker::Camera **) -**SharpeningThreshold**

Camera_SharpeningThreshold_get(self) -> IFloat

Parameters **self** (*Spinnaker::Camera **) -**SoftwareSignalPulse**

Camera_SoftwareSignalPulse_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**SoftwareSignalSelector**

Camera_SoftwareSignalSelector_get(self) -> IEnumerationT_SoftwareSignalSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**SourceCount**

Camera_SourceCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**SourceSelector**

Camera_SourceSelector_get(self) -> IEnumerationT_SourceSelectorEnums

Parameters **self** (*Spinnaker::Camera **) -**TLParamsLocked**

Camera_TLParamsLocked_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**Test0001**

Camera_Test0001_get(self) -> IInteger

Parameters **self** (*Spinnaker::Camera **) -**TestEventGenerate**

Camera_TestEventGenerate_get(self) -> ICommand

Parameters **self** (*Spinnaker::Camera **) -**TestPattern**

Camera_TestPattern_get(self) -> IEnumerationT_TestPatternEnums

Parameters **self** (*Spinnaker::Camera **) -**TestPatternGeneratorSelector**

Camera_TestPatternGeneratorSelector_get(self) -> IEnumerationT_TestPatternGeneratorSelectorEnums

Parameters self (*Spinnaker::Camera **) –

TestPendingAck
Camera_TestPendingAck_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

TimerDelay
Camera_TimerDelay_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

TimerDuration
Camera_TimerDuration_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

TimerReset
Camera_TimerReset_get(self) -> ICommand
Parameters self (*Spinnaker::Camera **) –

TimerSelector
Camera_TimerSelector_get(self) -> IEnumerationT_TimerSelectorEnums
Parameters self (*Spinnaker::Camera **) –

TimerStatus
Camera_TimerStatus_get(self) -> IEnumerationT_TimerStatusEnums
Parameters self (*Spinnaker::Camera **) –

TimerTriggerActivation
Camera_TimerTriggerActivation_get(self) -> IEnumerationT_TimerTriggerActivationEnums
Parameters self (*Spinnaker::Camera **) –

TimerTriggerSource
Camera_TimerTriggerSource_get(self) -> IEnumerationT_TimerTriggerSourceEnums
Parameters self (*Spinnaker::Camera **) –

TimerValue
Camera_TimerValue_get(self) -> IFloat
Parameters self (*Spinnaker::Camera **) –

Timestamp
Camera_Timestamp_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

TimestampIncrement
Camera_TimestampIncrement_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

TimestampLatch
Camera_TimestampLatch_get(self) -> ICommand
Parameters self (*Spinnaker::Camera **) –

TimestampLatchValue
Camera_TimestampLatchValue_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

TimestampReset

Camera_TimestampReset_get(self) -> ICommand

Parameters self (Spinnaker::Camera *) -**TransferAbort**

Camera_TransferAbort_get(self) -> ICommand

Parameters self (Spinnaker::Camera *) -**TransferBlockCount**

Camera_TransferBlockCount_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**TransferBurstCount**

Camera_TransferBurstCount_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**TransferComponentSelector**

Camera_TransferComponentSelector_get(self) -> EnumerationT_TransferComponentSelectorEnums

Parameters self (Spinnaker::Camera *) -**TransferControlMode**

Camera_TransferControlMode_get(self) -> EnumerationT_TransferControlModeEnums

Parameters self (Spinnaker::Camera *) -**TransferOperationMode**

Camera_TransferOperationMode_get(self) -> EnumerationT_TransferOperationModeEnums

Parameters self (Spinnaker::Camera *) -**TransferPause**

Camera_TransferPause_get(self) -> ICommand

Parameters self (Spinnaker::Camera *) -**TransferQueueCurrentBlockCount**

Camera_TransferQueueCurrentBlockCount_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**TransferQueueMaxBlockCount**

Camera_TransferQueueMaxBlockCount_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**TransferQueueMode**

Camera_TransferQueueMode_get(self) -> EnumerationT_TransferQueueModeEnums

Parameters self (Spinnaker::Camera *) -**TransferQueueOverflowCount**

Camera_TransferQueueOverflowCount_get(self) -> Integer

Parameters self (Spinnaker::Camera *) -**TransferResume**

Camera_TransferResume_get(self) -> ICommand

Parameters self (Spinnaker::Camera *) -**TransferSelector**

Camera_TransferSelector_get(self) -> EnumerationT_TransferSelectorEnums

```

    Parameters self (Spinnaker::Camera *) -
TransferStart
    Camera_TransferStart_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
TransferStatus
    Camera_TransferStatus_get(self) -> IBoolean
    Parameters self (Spinnaker::Camera *) -
TransferStatusSelector
    Camera_TransferStatusSelector_get(self) -> IEnumerationT_TransferStatusSelectorEnums
    Parameters self (Spinnaker::Camera *) -
TransferStop
    Camera_TransferStop_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -
TransferStreamChannel
    Camera_TransferStreamChannel_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
TransferTriggerActivation
    Camera_TransferTriggerActivation_get(self) -> IEnumerationT_TransferTriggerActivationEnums
    Parameters self (Spinnaker::Camera *) -
TransferTriggerMode
    Camera_TransferTriggerMode_get(self) -> IEnumerationT_TransferTriggerModeEnums
    Parameters self (Spinnaker::Camera *) -
TransferTriggerSelector
    Camera_TransferTriggerSelector_get(self) -> IEnumerationT_TransferTriggerSelectorEnums
    Parameters self (Spinnaker::Camera *) -
TransferTriggerSource
    Camera_TransferTriggerSource_get(self) -> IEnumerationT_TransferTriggerSourceEnums
    Parameters self (Spinnaker::Camera *) -
TriggerActivation
    Camera_TriggerActivation_get(self) -> IEnumerationT_TriggerActivationEnums
    Parameters self (Spinnaker::Camera *) -
TriggerDelay
    Camera_TriggerDelay_get(self) -> IFloat
    Parameters self (Spinnaker::Camera *) -
TriggerDivider
    Camera_TriggerDivider_get(self) -> IInteger
    Parameters self (Spinnaker::Camera *) -
TriggerEventTest
    Camera_TriggerEventTest_get(self) -> ICommand
    Parameters self (Spinnaker::Camera *) -

```

TriggerMode

Camera_TriggerMode_get(self) -> IEnumerationT_TriggerModeEnums

Parameters self (Spinnaker::Camera *) -**TriggerMultiplier**

Camera_TriggerMultiplier_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**TriggerOverlap**

Camera_TriggerOverlap_get(self) -> IEnumerationT_TriggerOverlapEnums

Parameters self (Spinnaker::Camera *) -**TriggerSelector**

Camera_TriggerSelector_get(self) -> IEnumerationT_TriggerSelectorEnums

Parameters self (Spinnaker::Camera *) -**TriggerSoftware**

Camera_TriggerSoftware_get(self) -> ICommand

Parameters self (Spinnaker::Camera *) -**TriggerSource**

Camera_TriggerSource_get(self) -> IEnumerationT_TriggerSourceEnums

Parameters self (Spinnaker::Camera *) -**U3VAccessPrivilege**

Camera_U3VAccessPrivilege_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**U3VPCCapability**

Camera_U3VPCCapability_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**U3VCPEIRMAvailable**

Camera_U3VCPEIRMAvailable_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**U3VCPIIDC2Available**

Camera_U3VCPIIDC2Available_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**U3VCPSIRMAvailable**

Camera_U3VCPSIRMAvailable_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**U3VCurrentSpeed**

Camera_U3VCurrentSpeed_get(self) -> IEnumerationT_U3VCurrentSpeedEnums

Parameters self (Spinnaker::Camera *) -**U3VMaxAcknowledgeTransferLength**

Camera_U3VMaxAcknowledgeTransferLength_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**U3VMaxCommandTransferLength**

Camera_U3VMaxCommandTransferLength_get(self) -> IInteger

Parameters self (*Spinnaker::Camera **) –

U3VMaxDeviceResponseTime
Camera_U3VMaxDeviceResponseTime_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

U3VMessageChannelID
Camera_U3VMessageChannelID_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

U3VNumberOfStreamChannels
Camera_U3VNumberOfStreamChannels_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

U3VVersionMajor
Camera_U3VVersionMajor_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

U3VVersionMinor
Camera_U3VVersionMinor_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

UserOutputSelector
Camera_UserOutputSelector_get(self) -> IEnumerationT_UserOutputSelectorEnums
Parameters self (*Spinnaker::Camera **) –

UserOutputValue
Camera_UserOutputValue_get(self) -> IBoolean
Parameters self (*Spinnaker::Camera **) –

UserOutputValueAll
Camera_UserOutputValueAll_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

UserOutputValueAllMask
Camera_UserOutputValueAllMask_get(self) -> IInteger
Parameters self (*Spinnaker::Camera **) –

UserSetDefault
Camera_UserSetDefault_get(self) -> IEnumerationT_UserSetDefaultEnums
Parameters self (*Spinnaker::Camera **) –

UserSetFeatureEnable
Camera_UserSetFeatureEnable_get(self) -> IBoolean
Parameters self (*Spinnaker::Camera **) –

UserSetFeatureSelector
Camera_UserSetFeatureSelector_get(self) -> IEnumerationT_UserSetFeatureSelectorEnums
Parameters self (*Spinnaker::Camera **) –

UserSetLoad
Camera_UserSetLoad_get(self) -> ICommand
Parameters self (*Spinnaker::Camera **) –

UserSetSave

Camera_UserSetSave_get(self) -> ICommand

Parameters self (Spinnaker::Camera *) -**UserSetSelector**

Camera_UserSetSelector_get(self) -> IEnumerationT_UserSetSelectorEnums

Parameters self (Spinnaker::Camera *) -**V3_3Enable**

Camera_V3_3Enable_get(self) -> IBoolean

Parameters self (Spinnaker::Camera *) -**WhiteClip**

Camera_WhiteClip_get(self) -> IFloat

Parameters self (Spinnaker::Camera *) -**WhiteClipSelector**

Camera_WhiteClipSelector_get(self) -> IEnumerationT_WhiteClipSelectorEnums

Parameters self (Spinnaker::Camera *) -**Width**

Camera_Width_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**WidthMax**

Camera_WidthMax_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**aPAUSEMACCtrlFramesReceived**

Camera_aPAUSEMACCtrlFramesReceived_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**aPAUSEMACCtrlFramesTransmitted**

Camera_aPAUSEMACCtrlFramesTransmitted_get(self) -> IInteger

Parameters self (Spinnaker::Camera *) -**thisown**

The membership flag

class PySpin.CameraBase (*args, **kwargs)

Bases: object

The base class for the camera object.

C++ includes: CameraBase.h

BeginAcquisition (self)**Parameters self** (Spinnaker::CameraBase *) -

void Spinnaker::CameraBase::BeginAcquisition()

Starts the image acquisition engine. The camera must be initialized via a call to Init() before starting an acquisition.

See: Init()

DeInit (self)

Parameters *self* (*Spinnaker::CameraBase **) –

void Spinnaker::CameraBase::DeInit()

Disconnect camera port and free GenICam node map and GUI XML. Do not call more functions that access the remote device such as WritePort/ReadPort after calling DeInit(); Events should also be unregistered before calling camera DeInit(). Otherwise an exception will be thrown in the DeInit() call and require the user to unregister events before the camera can be re-initialized again.

See: Init()

See: UnregisterEvent(Event & evtToUnregister)

DiscoverMaxPacketSize (*self*) → unsigned int

Parameters *self* (*Spinnaker::CameraBase **) –

unsigned int Spinnaker::CameraBase::DiscoverMaxPacketSize()

Returns the largest packet size that can be safely used on the interface that device is connected to

The maximum packet size returned.

EndAcquisition (*self*)

Parameters *self* (*Spinnaker::CameraBase **) –

void Spinnaker::CameraBase::EndAcquisition()

Stops the image acquisition engine. If EndAcquisition() is called without a prior call to BeginAcquisition() an error message “Camera is not started” will be thrown. All Images that were acquired using GetNextImage() need to be released first using image->Release() before calling EndAcquisition(). All buffers in the input pool and output queue will be discarded when EndAcquisition() is called.

See: Init()

See: BeginAcquisition()

See: GetNextImage(grabTimeout)

See: Image::Release()

GetAccessMode (*self*) → Spinnaker::GenApi::EAccessMode

Parameters *self* (*Spinnaker::CameraBase const **) –

GenApi::EAccessMode Spinnaker::CameraBase::GetAccessMode() const

Returns the access mode that the software has on the Camera. The camera does not need to be initialized before calling this function.

See: Init()

An enumeration value indicating the access mode

GetGuiXml (*self*) → gcstring

Parameters *self* (*Spinnaker::CameraBase const **) –

GenICam::gcstring Spinnaker::CameraBase::GetGuiXml() const

Returns the GUI XML that can be passed into the Spinnaker GUI framework

GenICam::gcstring that represents the uncompressed GUI XML file

GetNextImage (*self*, *grabTimeout*, *streamID=0*) → ImagePtr

Parameters

- **grabTimeout** (*uint64_t*) –
- **streamID** (*uint64_t*) –
- **grabTimeout** → **ImagePtr** (*GetNextImage (self,)*) –
- **grabTimeout** –
- → **ImagePtr** (*GetNextImage (self)*) –
- **self** (*Spinnaker::CameraBase **) –

ImagePtr **Spinnaker::CameraBase::GetNextImage**(*uint64_t* **grabTimeout**=EVENT_TIMEOUT_INFINITE, *uint64_t* **streamID**=0)

Gets the next image that was received by the transport layer. This function will block indefinitely until an image arrives. Most cameras support one stream so the default streamID is 0 but if a camera supports multiple streams the user can input the streamID to select from which stream to grab images

See: `Init()`

See: `BeginAcquisition()`

See: `EndAcquisition()`

grabTimeout: a 64bit value that represents a timeout in milliseconds

streamID: The stream to grab the image.

pointer to an Image object

GetNodeMap (*self*) → **INodeMap**

Parameters **self** (*Spinnaker::CameraBase const **) –

GenApi::INodeMap& Spinnaker::CameraBase::GetNodeMap() const

Gets a reference to the node map that is generated from a GenICam XML file. The camera must be initialized by a call to `Init()` first before a node map reference can be successfully acquired.

See: `Init()`

A reference to the **INodeMap**.

GetNumDataStreams (*self*) → unsigned int

Parameters **self** (*Spinnaker::CameraBase **) –

unsigned int **Spinnaker::CameraBase::GetNumDataStreams**()

Returns the number of streams that a device supports.

The number of data streams

GetNumImagesInUse (*self*) → unsigned int

Parameters **self** (*Spinnaker::CameraBase **) –

unsigned int **Spinnaker::CameraBase::GetNumImagesInUse**()

Returns the number of images that are currently in use. Each of the images that are currently in use must be cleaned up with a call to `image->Release()` before calling `system->ReleaseInstance()`.

The number of images that needs to be cleaned up.

GetTLDeviceNodeMap (*self*) → **INodeMap**

Parameters **self** (*Spinnaker::CameraBase const **) –

GenApi::INodeMap& Spinnaker::CameraBase::GetTLDeviceNodeMap() const

Gets a reference to the node map that is generated from a GenICam XML file for the GenTL Device module. The camera does not need to be initialized before acquiring this node map.

A reference to the INodeMap.

GetTLStreamNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::CameraBase const **) –

GenApi::INodeMap& Spinnaker::CameraBase::GetTLStreamNodeMap() const

Gets a reference to the node map that is generated from a GenICam XML file for the GenTL Stream module. The camera does not need to be initialized before acquiring this node map.

A reference to the INodeMap.

GetUniqueID (*self*) → gcstring

Parameters **self** (*Spinnaker::CameraBase **) –

GenICam::gcstring Spinnaker::CameraBase::GetUniqueID()

This returns a unique id string that identifies the camera. This is the camera serial number.

string that uniquely identifies the camera (serial number)

Init (*self*)

Parameters **self** (*Spinnaker::CameraBase **) –

void Spinnaker::CameraBase::Init()

Connect to camera, retrieve XML and generate node map. This function needs to be called before any camera related API calls such as BeginAcquisition(), EndAcquisition(), GetNodeMap(), GetNextImage().

See: BeginAcquisition()

See: EndAcquisition()

See: GetNodeMap()

See: GetNextImage()

IsInitialized (*self*) → bool

Parameters **self** (*Spinnaker::CameraBase **) –

bool Spinnaker::CameraBase::IsInitialized()

Checks if camera is initialized. This function needs to return true in order to retrieve a valid NodeMap from the GetNodeMap() call.

See: GetNodeMap()

If camera is initialized or not

IsStreaming (*self*) → bool

Parameters **self** (*Spinnaker::CameraBase const **) –

bool Spinnaker::CameraBase::IsStreaming() const

Returns true if the camera is currently streaming or false if it is not.

See: Init()

returns true if camera is streaming and false otherwise.

IsValid (*self*) → bool

Parameters **self** (*Spinnaker::CameraBase **) –

bool Spinnaker::CameraBase::IsValid()

Checks a flag to determine if camera is still valid for use.

If camera is valid or not

RegisterEvent (*self, evtToRegister*)

Parameters

- **evtToRegister** (*Spinnaker::Event &*) –
- **evtToRegister, eventName** (*RegisterEvent (self,)*) –
- **evtToRegister** –
- **eventName** (*Spinnaker::GenICam::gcstring const &*) –

void Spinnaker::CameraBase::RegisterEvent(Event &evtToRegister, const GenICam::gcstring &eventName)

Registers a specific event for the camera

See: Init()

evtToRegister: The event to register for the camera

eventName: The event name to register

TLDevice

CameraBase_TLDevice_get(self) -> TransportLayerDevice

Parameters **self** (*Spinnaker::CameraBase **) –

TLStream

CameraBase_TLStream_get(self) -> TransportLayerStream

Parameters **self** (*Spinnaker::CameraBase **) –

UnregisterEvent (*self, evtToUnregister*)

Parameters **evtToUnregister** (*Spinnaker::Event &*) –

void Spinnaker::CameraBase::UnregisterEvent(Event &evtToUnregister)

Unregisters an event for the camera Events should be unregistered first before calling camera DeInit(). Otherwise an exception will be thrown in the DeInit() call and require the user to unregister events before the camera can be re-initialized again.

See: DeInit()

evtToUnregister: The event to unregister from the camera

thisown

The membership flag

class PySpin.**CameraList** (**args*)

Bases: object

Used to hold a list of camera objects.

C++ includes: CameraList.h

Append (*self, otherList*)

Parameters `otherList` (*Spinnaker::CameraList &*) –

void Spinnaker::CameraList::Append(CameraList &otherList)

Appends a camera list to the current list.

`otherList`: The other list to append to this list

Clear (*self*)

Parameters `self` (*Spinnaker::CameraList **) –

void Spinnaker::CameraList::Clear()

Clears the list of cameras and destroys their corresponding reference counted objects. This is necessary in order to clean up the parent interface. It is important that the camera list is destroyed or is cleared before calling `system->ReleaseInstance()` or else the call to `system->ReleaseInstance()` will result in an error message thrown that a reference to the camera is still held.

See: `System:ReleaseInstance()`

GetByIndex (*self, index*) → CameraPtr

Parameters `index` (*int*) –

CameraPtr Spinnaker::CameraList::GetByIndex(int index) const

Returns a pointer to a camera object at the “index”.

`index`: The index at which to retrieve the camera object

A pointer to an camera object.

GetBySerial (*self, serialNumber*) → CameraPtr

Parameters `serialNumber` (*std::string*) –

CameraPtr Spinnaker::CameraList::GetBySerial(std::string serialNumber) const

Returns a pointer to a camera object with the specified serial number.

`serialNumber`: The serial number of the camera object to retrieve

A pointer to an camera object.

GetSize (*self*) → int

Parameters `self` (*Spinnaker::CameraList const **) –

int Spinnaker::CameraList::GetSize() const

Returns the size of the camera list. The size is the number of Camera objects stored in the list.

An integer that represents the list size.

RemoveByIndex (*self, index*)

Parameters `index` (*int*) –

void Spinnaker::CameraList::RemoveByIndex(int index)

Removes a camera at “index” and destroys its corresponding reference counted object.

`index`: The index at which to remove the Camera object

RemoveBySerial (*self, serialNumber*)

Parameters `serialNumber` (*std::string*) –

void Spinnaker::CameraList::RemoveBySerial(std::string serialNumber)

Removes a camera using its serial number and destroys its corresponding reference counted object.

serialNumber: The serial number of the Camera object to remove

thisown

The membership flag

class PySpin.**CameraPtr** (*args)

Bases: PySpin._SWIG_CamPtr

A reference tracked pointer to a camera object.

C++ includes: CameraPtr.h

thisown

The membership flag

class PySpin.**CategoryNode** (*args, **kwargs)

Bases: *PySpin.ICategory, PySpin.ValueNode*

Interface for string properties.

C++ includes: CategoryNode.h

GetFeatures (*self*)

Parameters **self** (*Spinnaker::GenApi::CategoryNode const **) –

virtual void Spinnaker::GenApi::CategoryNode::GetFeatures(FeatureList_t &Features) const

Get all features of the category (including sub-categories)

SetReference (*self, pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::CategoryNode::SetReference(INode *pBase)

overload SetReference for Value

thisown

The membership flag

class PySpin.**ChannelStatistics** (*image, channel*)

Bases: object

Class used to store statistics (as properties) for one channel of an image. Properties:

- channel: The image channel that the statistics are based on (as an int).
- range_min: The smallest possible pixel value.
- range_max: The largest possible pixel value.
- pixel_value_min: The smallest pixel value in the current channel.
- pixel_value_max: The largest pixel value in the current channel.
- num_pixel_values: The total number of pixel values in the current channel.
- pixel_value_mean: The average pixel value in the current channel.
- histogram: NumPy array representing the histogram of the current channel.

channel

ChannelStatistics_channel_get(self) -> int

```

        Parameters self (ChannelStatistics *) -
histogram
    ChannelStatistics_histogram_get(self) -> PyObject *
        Parameters self (ChannelStatistics *) -
num_pixel_values
    ChannelStatistics_num_pixel_values_get(self) -> unsigned int
        Parameters self (ChannelStatistics *) -
pixel_value_max
    ChannelStatistics_pixel_value_max_get(self) -> unsigned int
        Parameters self (ChannelStatistics *) -
pixel_value_mean
    ChannelStatistics_pixel_value_mean_get(self) -> float
        Parameters self (ChannelStatistics *) -
pixel_value_min
    ChannelStatistics_pixel_value_min_get(self) -> unsigned int
        Parameters self (ChannelStatistics *) -
range_max
    ChannelStatistics_range_max_get(self) -> unsigned int
        Parameters self (ChannelStatistics *) -
range_min
    ChannelStatistics_range_min_get(self) -> unsigned int
        Parameters self (ChannelStatistics *) -
thisown
    The membership flag
class PySpin.ChunkData (*args)
    Bases: PySpin.IChunkData
    The chunk data which contains additional information about an image.
    C++ includes: ChunkData.h
GetBlackLevel (self) -> float64_t
        Parameters self (Spinnaker::ChunkData const *) -
    float64_t Spinnaker::ChunkData::GetBlackLevel() const
    Description: Returns the black level used to capture the image included in the payload. Visibility: Expert
GetCRC (self) -> int64_t
        Parameters self (Spinnaker::ChunkData const *) -
GetCounterValue (self) -> int64_t
        Parameters self (Spinnaker::ChunkData const *) -
    int64_t Spinnaker::ChunkData::GetCounterValue() const
    Description: Returns the value of the selected Chunk counter at the time of the FrameStart event. Visibility:
    Expert

```

GetEncoderValue (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetEncoderValue() const

Description: Returns the counter's value of the selected Encoder at the time of the FrameStart in area scan mode or the counter's value at the time of the LineStart selected by ChunkScanLineSelector in LineScan mode. Visibility: Expert

GetExposureEndLineStatusAll (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

GetExposureTime (*self*) → float64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetExposureTime() const

Description: Returns the exposure time used to capture the image. Visibility: Expert

GetFrameID (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetFrameID() const

Description: Returns the unique Identifier of the frame (or image) included in the payload. Visibility: Expert

GetGain (*self*) → float64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetGain() const

Description: Returns the gain used to capture the image. Visibility: Expert

GetHeight (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetHeight() const

Description: Returns the Height of the image included in the payload. Visibility: Expert

GetImage (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

GetLinePitch (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetLinePitch() const

Description: Returns the LinePitch of the image included in the payload. Visibility: Expert

GetLineStatusAll (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetLineStatusAll() const

Description: Returns the status of all the I/O lines at the time of the FrameStart internal event. Visibility: Expert

GetOffsetX (*self*) → int64_t

Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetOffsetX() const
 Description: Returns the OffsetX of the image included in the payload. Visibility: Expert

GetOffsetY (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetOffsetY() const
 Description: Returns the OffsetY of the image included in the payload. Visibility: Expert

GetPartSelector (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetPartSelector() const
 Description: Selects the part to access in chunk data in a multipart transmission. Visibility: Expert

GetPixelDynamicRangeMax (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetPixelDynamicRangeMax() const
 Description: Returns the maximum value of dynamic range of the image included in the payload. Visibility: Expert

GetPixelDynamicRangeMin (*self*) → int64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 int64_t Spinnaker::ChunkData::GetPixelDynamicRangeMin() const
 Description: Returns the minimum value of dynamic range of the image included in the payload. Visibility: Expert

GetScan3dAxisMax (*self*) → float64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 float64_t Spinnaker::ChunkData::GetScan3dAxisMax() const
 Description: Returns the Maximum Axis value for the selected coordinate axis of the image included in the payload. Visibility: Expert

GetScan3dAxisMin (*self*) → float64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 float64_t Spinnaker::ChunkData::GetScan3dAxisMin() const
 Description: Returns the Minimum Axis value for the selected coordinate axis of the image included in the payload. Visibility: Expert

GetScan3dCoordinateOffset (*self*) → float64_t
Parameters **self** (*Spinnaker::ChunkData const **) –
 float64_t Spinnaker::ChunkData::GetScan3dCoordinateOffset() const
 Description: Returns the Offset for the selected coordinate axis of the image included in the payload. Visibility: Expert

GetScan3dCoordinateReferenceValue (*self*) → float64_t
Parameters **self** (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dCoordinateReferenceValue() const

Description: Reads the value of a position or pose coordinate for the anchor or transformed coordinate systems relative to the reference point. Visibility: Expert

GetScan3dCoordinateScale (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dCoordinateScale() const

Description: Returns the Scale for the selected coordinate axis of the image included in the payload. Visibility: Expert

GetScan3dInvalidDataValue (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dInvalidDataValue() const

Description: Returns the Invalid Data Value used for the image included in the payload. Visibility: Expert

GetScan3dTransformValue (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetScan3dTransformValue() const

Description: Returns the transform value. Visibility: Expert

GetScanLineSelector (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetScanLineSelector() const

Description: Index for vector representation of one chunk value per line in an image. Visibility: Expert

GetSequencerSetActive (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetSequencerSetActive() const

Description: Return the index of the active set of the running sequencer included in the payload. Visibility: Expert

GetSerialDataLength (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

GetStreamChannelID (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetStreamChannelID() const

Description: Returns identifier of the stream channel used to carry the block. Visibility: Expert

GetTimerValue (*self*) → float64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

float64_t Spinnaker::ChunkData::GetTimerValue() const

Description: Returns the value of the selected Timer at the time of the FrameStart internal event. Visibility: Expert

GetTimestamp (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetTimestamp() const

Description: Returns the Timestamp of the image included in the payload at the time of the FrameStart internal event. Visibility: Expert

GetTimestampLatchValue (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetTimestampLatchValue() const

Description: Returns the last Timestamp latched with the TimestampLatch command. Visibility: Expert

GetTransferBlockID (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetTransferBlockID() const

Description: Returns the unique identifier of the transfer block used to transport the payload. Visibility: Expert

GetTransferQueueCurrentBlockCount (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetTransferQueueCurrentBlockCount() const

Description: Returns the current number of blocks in the transfer queue. Visibility: Expert

GetWidth (*self*) → int64_t

Parameters *self* (*Spinnaker::ChunkData const **) –

int64_t Spinnaker::ChunkData::GetWidth() const

Description: Returns the Width of the image included in the payload. Visibility: Expert

SetChunks (*self, pNodeMap*)

Parameters *pNodeMap* (*Spinnaker::GenApi::INodeMap &*) –

void Spinnaker::ChunkData::SetChunks(GenApi::INodeMap &pNodeMap)

thisown

The membership flag

PySpin.**Combine** (*Peter, Paul*) → Spinnaker::GenApi::EAccessMode

Parameters

- **Peter** (*enum Spinnaker::GenApi::EAccessMode*) –
- **Paul** (*enum Spinnaker::GenApi::EAccessMode*) –

:param Combine(Peter, Paul) -> Spinnaker::GenApi::EVisibility:

Parameters

- **Peter** (*enum Spinnaker::GenApi::EVisibility*) –
- **Paul** (*enum Spinnaker::GenApi::EVisibility*) –

:param Combine(Peter, Paul) -> Spinnaker::GenApi::ECachingMode:

Parameters

- **Peter** (*enum Spinnaker::GenApi::ECachingMode*) –

- **Paul** (*enum Spinnaker::GenApi::ECachingMode*) –

ECachingMode Spinnaker::GenApi::Combine(ECachingMode Peter, ECachingMode Paul)

Computes which CachingMode results from a combination

class PySpin.**CommandNode** (*args, **kwargs)

Bases: *PySpin.ICommand, PySpin.ValueNode*

Interface for string properties.

C++ includes: CommandNode.h

Execute (*self, Verify=True*)

Parameters

- **Verify** (*bool*) –
- **Execute** (**self**) –
- **self** (*Spinnaker::GenApi::CommandNode **) –

virtual void Spinnaker::GenApi::CommandNode::Execute(bool Verify=true)

Execute the command

Verify: Enables AccessMode and Range verification (default = true)

IsDone (*self, Verify=True*) → bool

Parameters

- **Verify** (*bool*) –
- → **bool** (*IsDone (self)*) –
- **self** (*Spinnaker::GenApi::CommandNode **) –

virtual bool Spinnaker::GenApi::CommandNode::IsDone(bool Verify=true)

Query whether the command is executed

Verify: Enables Range verification (default = false). The AccessMode is always checked

True if the Execute command has finished; false otherwise

SetReference (*self, pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::CommandNode::SetReference(INode *pBase)

overload SetReference for Value

thisown

The membership flag

PySpin.**DeregisterNodeCallback** (*f*)

Parameters **f** (*NodeCallback &*) –

class PySpin.**DeviceEvent**

Bases: *PySpin.IDeviceEvent*

A handler to device events.

C++ includes: DeviceEvent.h

GetDeviceEventId (*self*) → uint64_t

Parameters **self** (*Spinnaker::DeviceEvent const **)–

uint64_t Spinnaker::DeviceEvent::GetDeviceEventId() const

Get the ID of the device event.

The device event ID

GetDeviceEventName (*self*) → gcstring

Parameters **self** (*Spinnaker::DeviceEvent const **)–

GenICam::gcstring Spinnaker::DeviceEvent::GetDeviceEventName() const

Get the name of the device event.

The device event name

OnDeviceEvent (*self, eventName*)

Parameters **eventName** (*Spinnaker::GenICam::gcstring*)–

virtual void Spinnaker::DeviceEvent::OnDeviceEvent(Spinnaker::GenICam::gcstring eventName)=0

Device event callback.

eventName: The name of the event

thisown

The membership flag

PySpin.**DoesEnvironmentVariableExist** (*VariableName*) → bool

Parameters **VariableName** (*Spinnaker::GenICam::gcstring const &*)–

SPINNAKER_API bool Spinnaker::GenICam::DoesEnvironmentVariableExist(const Spinnaker::GenICam::gcstring &VariableName)

Returns true if an environment variable exists

class PySpin.**EAccessModeClass**

Bases: object

Holds conversion methods for the access mode enumeration.

C++ includes: EnumClasses.h

static **FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::EAccessMode **)–

static **ToString** (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::EAccessMode **)–
- **-> gcstring** (*ToString(Value)*)–
- **Value** (*enum Spinnaker::GenApi::EAccessMode*)–

thisown

The membership flag

PySpin.**EAccessModeClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::EAccessMode **) –

PySpin.**EAccessModeClass_ToString** (**args*)
ToString(*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::EAccessMode **) –
- → **gcstring** (*EAccessModeClass_ToString (Value)*) –
- **Value** (*enum Spinnaker::GenApi::EAccessMode*) –

class PySpin.**ECachingModeClass**

Bases: object

Holds conversion methods for the caching mode enumeration.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::ECachingMode **) –

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::ECachingMode **) –
- → **gcstring** (*ToString (Value)*) –
- **Value** (*enum Spinnaker::GenApi::ECachingMode*) –

thisown

The membership flag

PySpin.**ECachingModeClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::ECachingMode **) –

PySpin.**ECachingModeClass_ToString** (**args*)
ToString(*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::ECachingMode **) –
- → **gcstring** (*ECachingModeClass_ToString (Value)*) –

- **Value** (*enum Spinnaker::GenApi::ECachingMode*) –

class PySpin.**EDisplayNotationClass**

Bases: object

Holds conversion methods for the notation type of floats.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::EDisplayNotation **) –

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::EDisplayNotation **) –
- → **gcstring** (*ToString(Value)*) –
- **Value** (*enum Spinnaker::GenApi::EDisplayNotation*) –

thisown

The membership flag

PySpin.**EDisplayNotationClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::EDisplayNotation **) –

PySpin.**EDisplayNotationClass_ToString** (**args*)

ToString(*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::EDisplayNotation **) –
- → **gcstring** (*EDisplayNotationClass_ToString(Value)*) –
- **Value** (*enum Spinnaker::GenApi::EDisplayNotation*) –

class PySpin.**EEndianessClass**

Bases: object

Holds conversion methods for the endianess enumeration.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::EEndianess **) –

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)-
- **pValue** (*Spinnaker::GenApi::EEndianness **)-
- **-> gcstring** (*ToStdString (Value)*)-
- **Value** (*enum Spinnaker::GenApi::EEndianness*)-

thisown

The membership flag

PySpin.**EEndiannessClass_FromString** (*ValueStr, pValue*) → bool**Parameters**

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)-
- **pValue** (*Spinnaker::GenApi::EEndianness **)-

PySpin.**EEndiannessClass_ToString** (**args*)ToString(*ValueStr, pValue*)**Parameters**

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)-
- **pValue** (*Spinnaker::GenApi::EEndianness **)-
- **-> gcstring** (*EEndiannessClass_ToString (Value)*)-
- **Value** (*enum Spinnaker::GenApi::EEndianness*)-

class PySpin.**EGenApiSchemaVersionClass**

Bases: object

helper class converting EGenApiSchemaVersion from and to string

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool**Parameters**

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)-
- **pValue** (*Spinnaker::GenApi::EGenApiSchemaVersion **)-

static ToString (*ValueStr, pValue*)**Parameters**

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)-
- **pValue** (*Spinnaker::GenApi::EGenApiSchemaVersion **)-
- **-> gcstring** (*ToStdString (Value)*)-
- **Value** (*enum Spinnaker::GenApi::EGenApiSchemaVersion*)-

thisown

The membership flag

PySpin.**EGenApiSchemaVersionClass_FromString** (*ValueStr, pValue*) → bool**Parameters**

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)-

- **pValue** (*Spinnaker::GenApi::EGenApiSchemaVersion **)–

PySpin.**EGenApiSchemaVersionClass_ToString** (*args)
ToString(ValueStr, pValue)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::EGenApiSchemaVersion **)–
- **-> gcstring** (*EGenApiSchemaVersionClass_ToString (Value)*)–
- **Value** (*enum Spinnaker::GenApi::EGenApiSchemaVersion*)–

class PySpin.**EInputDirectionClass**

Bases: object

Holds conversion methods for the notation type of floats.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::EInputDirection **)–

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::EInputDirection **)–
- **-> gcstring** (*ToString (Value)*)–
- **Value** (*enum Spinnaker::GenApi::EInputDirection*)–

thisown

The membership flag

PySpin.**EInputDirectionClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::EInputDirection **)–

PySpin.**EInputDirectionClass_ToString** (*args)
ToString(ValueStr, pValue)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::EInputDirection **)–
- **-> gcstring** (*EInputDirectionClass_ToString (Value)*)–
- **Value** (*enum Spinnaker::GenApi::EInputDirection*)–

class PySpin.**ENamespaceClass**

Bases: object

Holds conversion methods for the namespace enumeration.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::ENamespace **)–

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::ENamespace **)–
- → **gcstring** (*ToString (Value)*)–
- **Value** (*enum Spinnaker::GenApi::ENamespace*)–

thisown

The membership flag

PySpin.**ENamespaceClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::ENamespace **)–

PySpin.**ENamespaceClass_ToString** (**args*)

ToString(*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::ENamespace **)–
- → **gcstring** (*ENamespaceClass_ToString (Value)*)–
- **Value** (*enum Spinnaker::GenApi::ENamespace*)–

class PySpin.**ERepresentationClass**

Bases: object

Holds conversion methods for the representation enumeration.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::ERepresentation **)–

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::ERepresentation **)–
- → **gcstring** (*ToString (Value)*)–

- **Value** (*enum Spinnaker::GenApi::ERepresentation*)–

thisown

The membership flag

PySpin.**ERepresentationClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::ERepresentation **)–

PySpin.**ERepresentationClass_ToString** (**args*)

ToString(*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::ERepresentation **)–
- → **gcstring** (*ERepresentationClass_ToString (Value)*)–
- **Value** (*enum Spinnaker::GenApi::ERepresentation*)–

class PySpin.**ESignClass**

Bases: object

Holds conversion methods for the sign enumeration.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::ESign **)–

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::ESign **)–
- → **gcstring** (*ToString (Value)*)–
- **Value** (*enum Spinnaker::GenApi::ESign*)–

thisown

The membership flag

PySpin.**ESignClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::ESign **)–

PySpin.**ESignClass_ToString** (**args*)

ToString(*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–

- **pValue** (*Spinnaker::GenApi::ESign **) –
- **-> gcstring** (*ESignClass_ToString (Value)*) –
- **Value** (*enum Spinnaker::GenApi::ESign*) –

class PySpin.**ESlopeClass**

Bases: object

Holds conversion methods for the converter formulas.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::ESlope **) –

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::ESlope **) –
- **-> gcstring** (*ToString (Value)*) –
- **Value** (*enum Spinnaker::GenApi::ESlope*) –

thisown

The membership flag

PySpin.**ESlopeClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::ESlope **) –

PySpin.**ESlopeClass_ToString** (**args*)

ToString(*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::ESlope **) –
- **-> gcstring** (*ESlopeClass_ToString (Value)*) –
- **Value** (*enum Spinnaker::GenApi::ESlope*) –

class PySpin.**EStandardNameSpaceClass**

Bases: object

Holds conversion methods for the standard namespace enumeration.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –

- **pValue** (*Spinnaker::GenApi::EStandardNameSpace **)–

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::EStandardNameSpace **)–
- **-> gcstring** (*ToString* (*Value*))–
- **Value** (*enum Spinnaker::GenApi::EStandardNameSpace*)–

thisown

The membership flag

PySpin.**EStandardNameSpaceClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::EStandardNameSpace **)–

PySpin.**EStandardNameSpaceClass_ToString** (**args*)
 ToString(*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::EStandardNameSpace **)–
- **-> gcstring** (*EStandardNameSpaceClass_ToString* (*Value*))–
- **Value** (*enum Spinnaker::GenApi::EStandardNameSpace*)–

class PySpin.**EVisibilityClass**

Bases: object

Holds conversion methods for the visibility enumeration.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*)–
- **pValue** (*Spinnaker::GenApi::EVisibility **)–

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **pValue** (*Spinnaker::GenApi::EVisibility **)–
- **-> gcstring** (*ToString* (*Value*))–
- **Value** (*enum Spinnaker::GenApi::EVisibility*)–

thisown

The membership flag

PySpin.**EVisibilityClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::EVisibility **) –

PySpin.**EVisibilityClass_ToString** (*args)
ToString(ValueStr, pValue)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::EVisibility **) –
- **-> gcstring** (*EVisibilityClass_ToString (Value)*) –
- **Value** (*enum Spinnaker::GenApi::EVisibility*) –

class PySpin.**EYesNoClass**

Bases: object

Holds conversion methods for the standard namespace enumeration.

C++ includes: EnumClasses.h

static FromString (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::EYesNo **) –

static ToString (*ValueStr, pValue*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::EYesNo **) –
- **-> gcstring** (*ToString (Value)*) –
- **Value** (*enum Spinnaker::GenApi::EYesNo*) –

thisown

The membership flag

PySpin.**EYesNoClass_FromString** (*ValueStr, pValue*) → bool

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **pValue** (*Spinnaker::GenApi::EYesNo **) –

PySpin.**EYesNoClass_ToString** (*args)
ToString(ValueStr, pValue)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **pValue** (*Spinnaker::GenApi::EYesNo **) –
- **-> gcstring** (*EYesNoClass_ToString (Value)*) –
- **Value** (*enum Spinnaker::GenApi::EYesNo*) –

PySpin.**EatComments** (*arg1*) → std::istream &

Parameters **is** (*std::istream &*) –

SPINNAKER_API std::istream& Spinnaker::GenApi::EatComments(std::istream &is)

Helper function ignoring lines starting with comment character '#'.

class PySpin.**EnumEntryNode** (**args, **kwargs*)

Bases: *PySpin.IEnumEntry, PySpin.ValueNode*

Interface for string properties.

C++ includes: EnumEntryNode.h

GetNumericValue (*self*) → double

Parameters **self** (*Spinnaker::GenApi::EnumEntryNode **) –

virtual double Spinnaker::GenApi::EnumEntryNode::GetNumericValue()

Get double number associated with the entry

GetSymbolic (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::EnumEntryNode const **) –

virtual GenICam::gcstring Spinnaker::GenApi::EnumEntryNode::GetSymbolic() const

Get symbolic enum value

GetValue (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::EnumEntryNode **) –

virtual int64_t Spinnaker::GenApi::EnumEntryNode::GetValue()

Get numeric enum value

IsSelfClearing (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::EnumEntryNode **) –

virtual bool Spinnaker::GenApi::EnumEntryNode::IsSelfClearing()

Indicates if the corresponding EnumEntry is self clearing

SetReference (*self, pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::EnumEntryNode::SetReference(INode *pBase)

overload SetReference for EnumEntry

thisown

The membership flag

class PySpin.**EnumNode** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.ValueNode*

Interface for string properties.

C++ includes: EnumNode.h

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False**) → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::EnumNode **) –

virtual IEnumEntry* Spinnaker::GenApi::EnumNode::GetCurrentEntry(bool Verify=false, bool IgnoreCache=false)

Get the current entry

GetEntries (*self*)

Parameters self (*Spinnaker::GenApi::EnumNode **) –

virtual void Spinnaker::GenApi::EnumNode::GetEntries(NodeList_t &Entries)

Get list of entry nodes

GetEntry (*self, IntValue*) → IEnumEntry

Parameters IntValue (*int64_t const*) –

virtual IEnumEntry* Spinnaker::GenApi::EnumNode::GetEntry(const int64_t IntValue)

Get an entry node by its IntValue

GetEntryByName (*self, Symbolic*) → IEnumEntry

Parameters Symbolic (*Spinnaker::GenICam::gcstring const &*) –

virtual IEnumEntry* Spinnaker::GenApi::EnumNode::GetEntryByName(const GenICam::gcstring &Symbolic)

Get an entry node by name

GetIntValue (*self, Verify=False, IgnoreCache=False*) → int64_t

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → **int64_t** (*GetIntValue (self,)*) –
- **Verify** –
- → **int64_t** (*GetIntValue (self)*) –
- **self** (*Spinnaker::GenApi::EnumNode **) –

virtual int64_t Spinnaker::GenApi::EnumNode::GetIntValue(bool Verify=false, bool IgnoreCache=false)

Get integer node value

Verify: Enables Range verification (default = false). The AccessMode is always checked

IgnoreCache: If true the value is read ignoring any caches (default = false)

The value read

GetSymbolics (*self, Symbolics*)

Parameters Symbolics (*Spinnaker::GenApi::StringList_t &*) –

virtual void Spinnaker::GenApi::EnumNode::GetSymbolics(StringList_t &Symbolics)

Get list of symbolic Values

SetIntValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*int64_t*) –
- **Verify** (*bool*) –
- **Value** (*SetIntValue* (*self*,)) –
- **Value** –

virtual void Spinnaker::GenApi::EnumNode::SetIntValue(int64_t Value, bool Verify=true)

Set integer node value

Value: The value to set

Verify: Enables AccessMode and Range verification (default = true)

SetReference (*self*, *pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::EnumNode::SetReference(INode *pBase)

overload SetReference for Enumeration

thisown

The membership flag

class PySpin.**Event** (**args*, ***kwargs*)

Bases: object

The base class for all event types.

C++ includes: Event.h

GetEventPayloadData (*self*) → PyObject *

Parameters **self** (*Spinnaker::Event **) –

const uint8_t* Spinnaker::Event::GetEventPayloadData()

Gets the event payload data

The event payload data

GetEventPayloadDataSize (*self*) → size_t const

Parameters **self** (*Spinnaker::Event **) –

const size_t Spinnaker::Event::GetEventPayloadDataSize()

Gets the event payload data size

The event payload data size

GetEventType (*self*) → Spinnaker::EventType

Parameters **self** (*Spinnaker::Event **) –

EventType Spinnaker::Event::GetEventType()

Gets the event type

The event type

SetEventType (*self*, *eventType*)

Parameters **eventType** (*enum Spinnaker::EventType*) –

void Spinnaker::Event::SetEventType(EventType eventType)

Sets the event type

eventType: The event type

thisown

The membership flag

class PySpin.**FloatNode** (**args*, ***kwargs*)

Bases: *PySpin.IFloat*, *PySpin.ValueNode*

Interface for string properties.

C++ includes: FloatNode.h

GetDisplayNotation (*self*) → Spinnaker::GenApi::EDisplayNotation

Parameters **self** (*Spinnaker::GenApi::FloatNode const **) –

virtual EDisplayNotation Spinnaker::GenApi::FloatNode::GetDisplayNotation() const

Get the way the float should be converted to a string

GetDisplayPrecision (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::FloatNode const **) –

virtual int64_t Spinnaker::GenApi::FloatNode::GetDisplayPrecision() const

Get the precision to be used when converting the float to a string

GetEnumAlias (*self*) → IEnumeration

Parameters **self** (*Spinnaker::GenApi::FloatNode **) –

IEnumeration* Spinnaker::GenApi::FloatNode::GetEnumAlias()

gets the interface of an alias node.

GetInc (*self*) → double

Parameters **self** (*Spinnaker::GenApi::FloatNode **) –

virtual double Spinnaker::GenApi::FloatNode::GetInc()

Get the constant increment if there is any

GetIncMode (*self*) → Spinnaker::GenApi::EIncMode

Parameters **self** (*Spinnaker::GenApi::FloatNode **) –

virtual EIncMode Spinnaker::GenApi::FloatNode::GetIncMode()

Get increment mode

GetIntAlias (*self*) → IInteger

Parameters **self** (*Spinnaker::GenApi::FloatNode **) –

IInteger* Spinnaker::GenApi::FloatNode::GetIntAlias()

gets the interface of an alias node.

GetListOfValidValues (*self*, *bounded=True*) → double_autovector_t

Parameters

- **bounded** (*bool*) –
- **-> double_autovector_t** (*GetListOfValidValues (self)*) –
- **self** (*Spinnaker::GenApi::FloatNode **) –

virtual double_autovector_t Spinnaker::GenApi::FloatNode::GetListOfValidValues(bool bounded=true)

Get list of valid value

GetMax (*self*) → double

Parameters **self** (*Spinnaker::GenApi::FloatNode **) –

virtual double Spinnaker::GenApi::FloatNode::GetMax()

Get maximum value allowed

GetMin (*self*) → double

Parameters **self** (*Spinnaker::GenApi::FloatNode **) –

virtual double Spinnaker::GenApi::FloatNode::GetMin()

Get minimum value allowed

GetRepresentation (*self*) → Spinnaker::GenApi::ERepresentation

Parameters **self** (*Spinnaker::GenApi::FloatNode **) –

virtual ERepresentation Spinnaker::GenApi::FloatNode::GetRepresentation()

Get recommended representation

GetUnit (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::FloatNode const **) –

virtual GenICam::gcstring Spinnaker::GenApi::FloatNode::GetUnit() const

Get the physical unit name

GetValue (*self, Verify=False, IgnoreCache=False*) → double

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** **-> double** (*GetValue (self,)*) –
- **Verify** –
- **-> double** (*GetValue (self)*) –
- **self** (*Spinnaker::GenApi::FloatNode **) –

virtual double Spinnaker::GenApi::FloatNode::GetValue(bool Verify=false, bool IgnoreCache=false)

Get node value

Verify: Enables Range verification (default = false). The AccessMode is always checked

IgnoreCache: If true the value is read ignoring any caches (default = false)

The value read

HasInc (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::FloatNode **) –

virtual bool Spinnaker::GenApi::FloatNode::HasInc()

True if the float has a constant increment

ImposeMax (*self*, *Value*)

Parameters **Value** (*double*) –

virtual void Spinnaker::GenApi::FloatNode::ImposeMax(double Value)

Restrict maximum value

ImposeMin (*self*, *Value*)

Parameters **Value** (*double*) –

virtual void Spinnaker::GenApi::FloatNode::ImposeMin(double Value)

Restrict minimum value

SetReference (*self*, *pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::FloatNode::SetReference(INode *pBase)

overload SetReference for Float

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*double*) –
- **Verify** (*bool*) –
- **Value**) (*SetValue (self,)*) –
- **Value** –

virtual void Spinnaker::GenApi::FloatNode::SetValue(double Value, bool Verify=true)

Set node value

Value: The value to set

Verify: Enables AccessMode and Range verification (default = true)

thisown

The membership flag

class PySpin.**FloatRegNode** (**args*, ***kwargs*)

Bases: *PySpin.FloatNode*, *PySpin.RegisterNode*

Interface for string properties.

C++ includes: FloatRegNode.h

SetReference (*self*, *pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::FloatRegNode::SetReference(INode *pBase)

overload SetReference for Value

thisown

The membership flag

PySpin.**GetErrorMessage** () → char const *

PySpin.**GetFiles** (*FileTemplate*, *DirectoriesOnly=False*)

Parameters

- **FileTemplate** (*Spinnaker::GenICam::gcstring const &*) –
- **DirectoriesOnly** (*bool const*) –
- **GetFiles (FileTemplate)** –
- **FileTemplate** –

SPINNAKER_API void Spinnaker::GenICam::GetFiles(const gcstring &FileTemplate, gcstring_vector &FileNames, const bool DirectoriesOnly=false)

Gets a list of files or directories matching a given FileTemplate

PySpin.**GetGenICamCLProtocolFolder** () → gcstring

SPINNAKER_API gcstring Spinnaker::GenICam::GetGenICamCLProtocolFolder(void)

Retrieve the path of the CLProtocol folder The path to the CLProtocol folder can be stored by calling SetGenICamCLProtocolFolder(). If GetGenICamCLProtocolFolder() is called before SetGenICamCLProtocolFolder(), it will return the value of environment variable GENICAM_CLPROTOCOL. If this environment variable does not exist, an exception will be thrown.

PySpin.**GetGenICamCacheFolder** () → gcstring

SPINNAKER_API gcstring Spinnaker::GenICam::GetGenICamCacheFolder(void)

Retrieve the path of the GenICam cache folder The path to the cache folder can be stored by calling SetGenICamCacheFolder(). If GetGenICamCacheFolder() is called before SetGenICamCacheFolder(), it will return the value of environment variable GENICAM_CACHE_Vx_y. If this environment variable does not exist, an exception will be thrown.

PySpin.**GetGenICamLogConfig** () → gcstring

SPINNAKER_API gcstring Spinnaker::GenICam::GetGenICamLogConfig(void)

Retrieve the path of the GenICam logging properties file

The path to the logging properties file can be stored by calling SetGenICamLogConfig(). If GetGenICamLogConfig() is called before SetGenICamLogConfig(), it will return the value of environment variable GENICAM_LOG_CONFIG_Vx_y. If this environment variable does not exist, an exception will be thrown.

PySpin.**GetInterfaceName** (*pBase*) → gcstring

Parameters *pBase* (*Spinnaker::GenApi::IBase **) –

GenICam::gcstring Spinnaker::GenApi::GetInterfaceName(IBase *pBase)

Returns the name of the main interface as string DEPRECATED, use IBase::GetPrincipalInterfaceType() instead

PySpin.**GetModulePathFromFunction** (*pFunction*) → gcstring

Parameters *pFunction* (*void **) –

SPINNAKER_API gcstring Spinnaker::GenICam::GetModulePathFromFunction(void *pFunction)

true = only subdirectories (ex . and ..) are retrieved; false = only files are retrieved

Gets the full path to the module (DLL/SO) containing the given pFunction; empty string if not found.

PySpin.**GetValueOfEnvironmentVariable** (*VariableName*) → gcstring

Parameters

- **VariableName** (*Spinnaker::GenICam::gcstring const &*) –

- **VariableContent** -> `bool` (`GetValueOfEnvironmentVariable (VariableName,)`)-
- **VariableName** -
- **VariableContent** (`Spinnaker::GenICam::gcstring &`)-

SPINNAKER_API `bool` `Spinnaker::GenICam::GetValueOfEnvironmentVariable(const gcstring &VariableName, gcstring &VariableContent)`

Retrieve the value of an environment variable true if environment variable was found, otherwise false

class `PySpin.H264Option`

Bases: `object`

Options for saving H264 files.

C++ includes: `SpinnakerDefs.h`

bitrate

`H264Option_bitrate_get(self)` -> `unsigned int`

Parameters `self` (`Spinnaker::H264Option *`)-

frameRate

`H264Option_frameRate_get(self)` -> `float`

Parameters `self` (`Spinnaker::H264Option *`)-

height

`H264Option_height_get(self)` -> `unsigned int`

Parameters `self` (`Spinnaker::H264Option *`)-

reserved

`H264Option_reserved_get(self)` -> `unsigned int [256]`

Parameters `self` (`Spinnaker::H264Option *`)-

thisown

The membership flag

width

`H264Option_width_get(self)` -> `unsigned int`

Parameters `self` (`Spinnaker::H264Option *`)-

class `PySpin.IArrivalEvent (*args, **kwargs)`

Bases: `PySpin.Event`

Proxy of C++ `Spinnaker::IArrivalEvent` class.

OnDeviceArrival (`self, serialNumber`)

Parameters `serialNumber` (`uint64_t`)-

thisown

The membership flag

class `PySpin.IBase (*args, **kwargs)`

Bases: `object`

Proxy of C++ `Spinnaker::GenApi::IBase` class.

GetAccessMode (`self`) -> `Spinnaker::GenApi::EAccessMode`

Parameters `self` (`Spinnaker::GenApi::IBase const *`)-

thisown

The membership flag

class PySpin.IBoolean (*args, **kwargs)

Bases: *PySpin.IValue*

Proxy of C++ Spinnaker::GenApi::IBoolean class.

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → bool

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → bool (*GetValue* (*self*,) –
- **Verify** –
- → bool (*GetValue* (*self*)) –
- **self** (*Spinnaker::GenApi::IBoolean const **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*bool*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.ICategory (*args, **kwargs)

Bases: *PySpin.IValue*

Proxy of C++ Spinnaker::GenApi::ICategory class.

GetFeatures (*self*)

Parameters **self** (*Spinnaker::GenApi::ICategory const **) –

thisown

The membership flag

class PySpin.IChunkData (*args, **kwargs)

Bases: object

Proxy of C++ Spinnaker::IChunkData class.

GetBlackLevel (*self*) → float64_t

Parameters **self** (*Spinnaker::IChunkData const **) –

GetCRC (*self*) → int64_t

Parameters **self** (*Spinnaker::IChunkData const **) –

GetCounterValue (*self*) → int64_t

Parameters **self** (*Spinnaker::IChunkData const **) –

GetEncoderValue (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetExposureEndLineStatusAll (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetExposureTime (*self*) → float64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetFrameID (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetGain (*self*) → float64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetHeight (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetImage (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetLinePitch (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetLineStatusAll (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetOffsetX (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetOffsetY (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetPartSelector (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetPixelDynamicRangeMax (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetPixelDynamicRangeMin (*self*) → int64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetScan3dAxisMax (*self*) → float64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetScan3dAxisMin (*self*) → float64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetScan3dCoordinateOffset (*self*) → float64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetScan3dCoordinateReferenceValue (*self*) → float64_t

Parameters *self* (*Spinnaker::IChunkData const **) –
GetScan3dCoordinateScale (*self*) → float64_t

```

    Parameters self (Spinnaker::IChunkData const *)-
GetScan3dInvalidDataValue (self) → float64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetScan3dTransformValue (self) → float64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetScanLineSelector (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetSequencerSetActive (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetSerialDataLength (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetStreamChannelID (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetTimerValue (self) → float64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetTimestamp (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetTimestampLatchValue (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetTransferBlockID (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetTransferQueueCurrentBlockCount (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
GetWidth (self) → int64_t
    Parameters self (Spinnaker::IChunkData const *)-
SetChunks (self, pNodeMap)
    Parameters pNodeMap (Spinnaker::GenApi::INodeMap &)-

```

thisown

The membership flag

```
class PySpin.ICommand (*args, **kwargs)
```

Bases: *PySpin.IValue*

Proxy of C++ Spinnaker::GenApi::ICommand class.

```
Execute (self, Verify=True)
```

Parameters

- **Verify** (*bool*)-
- **Execute** (**self**) -
- **self** (*Spinnaker::GenApi::ICommand **)-

IsDone (*self*, *Verify=True*) → bool

Parameters

- **Verify** (*bool*) –
- → **bool** (*IsDone* (*self*)) –
- **self** (*Spinnaker::GenApi::ICommand **) –

thisown

The membership flag

class `PySpin.IDestroy` (**args*, ***kwargs*)

Bases: `object`

Proxy of C++ `Spinnaker::GenApi::IDestroy` class.

Destroy (*self*)

Parameters **self** (*Spinnaker::GenApi::IDestroy **) –

thisown

The membership flag

class `PySpin.IDeviceEvent` (**args*, ***kwargs*)

Bases: `PySpin.Event`

Proxy of C++ `Spinnaker::IDeviceEvent` class.

GetDeviceEventId (*self*) → `uint64_t`

Parameters **self** (*Spinnaker::IDeviceEvent const **) –

GetDeviceEventName (*self*) → `gcstring`

Parameters **self** (*Spinnaker::IDeviceEvent const **) –

OnDeviceEvent (*self*, *eventName*)

Parameters **eventName** (*Spinnaker::GenICam::gcstring*) –

thisown

The membership flag

class `PySpin.IDeviceInfo` (**args*, ***kwargs*)

Bases: `object`

Proxy of C++ `Spinnaker::GenApi::IDeviceInfo` class.

GetDeviceVersion (*self*, *Version*)

Parameters **Version** (*Spinnaker::GenICam::Version_t &*) –

GetGenApiVersion (*self*, *Version*, *Build*)

Parameters

- **Version** (*Spinnaker::GenICam::Version_t &*) –
- **Build** (*uint16_t &*) –

GetModelName (*self*) → `gcstring`

Parameters **self** (*Spinnaker::GenApi::IDeviceInfo **) –

GetProductGuid (*self*) → `gcstring`

Parameters **self** (*Spinnaker::GenApi::IDeviceInfo **) –

GetSchemaVersion (*self*, *Version*)

Parameters **Version** (*Spinnaker::GenICam::Version_t* &)-

GetStandardNameSpace (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::IDeviceInfo* *)-

GetToolTip (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::IDeviceInfo* *)-

GetVendorName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::IDeviceInfo* *)-

GetVersionGuid (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::IDeviceInfo* *)-

thisown

The membership flag

class PySpin.**IEnumEntry** (*args, **kwargs)

Bases: *PySpin.IValue*

Proxy of C++ Spinnaker::GenApi::IEnumEntry class.

GetNumericValue (*self*) → double

Parameters **self** (*Spinnaker::GenApi::IEnumEntry* *)-

GetSymbolic (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::IEnumEntry const* *)-

GetValue (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::IEnumEntry* *)-

IsSelfClearing (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::IEnumEntry* *)-

thisown

The membership flag

class PySpin.**IEnumReference** (*args, **kwargs)

Bases: object

Proxy of C++ Spinnaker::GenApi::IEnumReference class.

SetEnumReference (*self*, *Index*, *Name*)

Parameters

- **Index** (*int*)-
- **Name** (*Spinnaker::GenICam::gcstring*)-

SetNumEnums (*self*, *NumEnums*)

Parameters **NumEnums** (*int*)-

thisown

The membership flag

class PySpin.IEnumeration (*args, **kwargs)

Bases: *PySpin.IValue*

Proxy of C++ Spinnaker::GenApi::IEnumeration class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumeration **) –

GetEntries (*self*)

Parameters **self** (*Spinnaker::GenApi::IEnumeration **) –

GetEntry (*self*, *IntValue*) → IEnumEntry

Parameters **IntValue** (*int64_t const*) –

GetEntryByName (*self*, *Symbolic*) → IEnumEntry

Parameters **Symbolic** (*Spinnaker::GenICam::gcstring const &*) –

GetIntValue (*self*, *Verify=False*, *IgnoreCache=False*) → int64_t

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **int64_t** (*GetIntValue* (*self*,) –
- **Verify** –
- → **int64_t** (*GetIntValue* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumeration **) –

GetSymbolics (*self*, *Symbolics*)

Parameters **Symbolics** (*Spinnaker::GenApi::StringList_t &*) –

SetIntValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*int64_t*) –
- **Verify** (*bool*) –
- **Value** (*SetIntValue* (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_AcquisitionModeEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(AcquisitionModeEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT< AcquisitionModeEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::AcquisitionModeEnums const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::AcquisitionModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::AcquisitionModeEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::AcquisitionModeEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT< AcquisitionModeEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::AcquisitionModeEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_AcquisitionStatusSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(AcquisitionStatusSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (Spinnaker::GenApi::IEnumerationT<AcquisitionStatusSelectorEnums > *)-

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (enum Spinnaker::AcquisitionStatusSelectorEnums *const*)-

GetValue (*self, Verify=False, IgnoreCache=False*) → Spinnaker::AcquisitionStatusSelectorEnums

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self, Verify=False*) -> Spinnaker::AcquisitionStatusSelectorEnums:

Parameters Verify (*bool*)-

:param GetValue(*self*) -> Spinnaker::AcquisitionStatusSelectorEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<AcquisitionStatusSelectorEnums > *)-

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (enum Spinnaker::AcquisitionStatusSelectorEnums)-
- **Verify** (*bool*)-
- **Value** (*SetValue (self,)*)-
- **Value** -

thisown

The membership flag

class PySpin.**IEnumerationT_ActionUnconditionalModeEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ActionUnconditionalModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (Spinnaker::GenApi::IEnumerationT<ActionUnconditionalModeEnums > *)-

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::ActionUnconditionalModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ActionUnconditionalModeEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::ActionUnconditionalModeEnums*:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> *Spinnaker::ActionUnconditionalModeEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT< ActionUnconditionalModeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ActionUnconditionalModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_AdcBitDepthEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(AdcBitDepthEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< AdcBitDepthEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::AdcBitDepthEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::AdcBitDepthEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::AdcBitDepthEnums*:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::AdcBitDepthEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< AdcBitDepthEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::AdcBitDepthEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_AutoAlgorithmSelectorEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(AutoAlgorithmSelectorEnums)>` class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< AutoAlgorithmSelectorEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::AutoAlgorithmSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::AutoAlgorithmSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::AutoAlgorithmSelectorEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::AutoAlgorithmSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< AutoAlgorithmSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::AutoAlgorithmSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_AutoExposureControlPriorityEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(AutoExposureControlPriorityEnums)>` class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<AutoExposureControlPriorityEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::AutoExposureControlPriorityEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::AutoExposureControlPriorityEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::AutoExposureControlPriorityEnums`:

Parameters Verify (*bool*) –

:param `GetValue(self)` -> `Spinnaker::AutoExposureControlPriorityEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT<AutoExposureControlPriorityEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::AutoExposureControlPriorityEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_AutoExposureLightingModeEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(AutoExposureLightingModeEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<AutoExposureLightingModeEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::AutoExposureLightingModeEnums` *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::AutoExposureLightingModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::AutoExposureLightingModeEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::AutoExposureLightingModeEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<AutoExposureLightingModeEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::AutoExposureLightingModeEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_AutoExposureMeteringModeEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(AutoExposureMeteringModeEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<AutoExposureMeteringModeEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::AutoExposureMeteringModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::AutoExposureMeteringModeEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::AutoExposureMeteringModeEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::AutoExposureMeteringModeEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<AutoExposureMeteringModeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::AutoExposureMeteringModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_AutoExposureTargetGreyValueAutoEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<(AutoExposureTargetGreyValueAutoEnums)>** class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<AutoExposureTargetGreyValueAutoEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::AutoExposureTargetGreyValueAutoEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::AutoExposureTargetGreyValueAutoEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::AutoExposureTargetGreyValueAutoEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::AutoExposureTargetGreyValueAutoEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<AutoExposureTargetGreyValueAutoEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::AutoExposureTargetGreyValueAutoEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_BalanceRatioSelectorEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<BalanceRatioSelectorEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- -> **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<BalanceRatioSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::BalanceRatioSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::BalanceRatioSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::BalanceRatioSelectorEnums:

Parameters **Verify** (*bool*) -

:param GetValue(self) -> Spinnaker::BalanceRatioSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<BalanceRatioSelectorEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::BalanceRatioSelectorEnums*) -
- **Verify** (*bool*) -
- **Value** (*SetValue (self,)*) -
- **Value** -

thisown

The membership flag

class PySpin.**IEnumerationT_BalanceWhiteAutoEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(BalanceWhiteAutoEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) -
- **Verify** -
- → *IEnumEntry* (*GetCurrentEntry (self)*) -
- **self** (*Spinnaker::GenApi::IEnumerationT<BalanceWhiteAutoEnums > **) -

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::BalanceWhiteAutoEnums const*) -

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::BalanceWhiteAutoEnums*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -

:param GetValue(self, Verify=False) -> Spinnaker::BalanceWhiteAutoEnums:

Parameters **Verify** (*bool*) -

:param GetValue(self) -> Spinnaker::BalanceWhiteAutoEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<BalanceWhiteAutoEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::BalanceWhiteAutoEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_BalanceWhiteAutoProfileEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(BalanceWhiteAutoProfileEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<BalanceWhiteAutoProfileEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::BalanceWhiteAutoProfileEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::BalanceWhiteAutoProfileEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::BalanceWhiteAutoProfileEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self)` -> `Spinnaker::BalanceWhiteAutoProfileEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<BalanceWhiteAutoProfileEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::BalanceWhiteAutoProfileEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_BinningHorizontalModeEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<BinningHorizontalModeEnums>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<BinningHorizontalModeEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::BinningHorizontalModeEnums const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::BinningHorizontalModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::BinningHorizontalModeEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::BinningHorizontalModeEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<BinningHorizontalModeEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::BinningHorizontalModeEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_BinningSelectorEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<BinningSelectorEnums>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< BinningSelectorEnums > **) –

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::BinningSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → **Spinnaker::BinningSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) → **Spinnaker::BinningSelectorEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::BinningSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT< BinningSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::BinningSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_BinningVerticalModeEnums** (**args, **kwargs*)
 Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<(BinningVerticalModeEnums)>** class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< BinningVerticalModeEnums > **) –

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::BinningVerticalModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::BinningVerticalModeEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::BinningVerticalModeEnums*:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> *Spinnaker::BinningVerticalModeEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<BinningVerticalModeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::BinningVerticalModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_BlackLevelAutoBalanceEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(BlackLevelAutoBalanceEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<BlackLevelAutoBalanceEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::BlackLevelAutoBalanceEnums const*) –

–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::BlackLevelAutoBalanceEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::BlackLevelAutoBalanceEnums*:

Parameters `Verify` (*bool*) –

:param `GetValue(self)` -> `Spinnaker::BlackLevelAutoBalanceEnums`:

Parameters `self` (`Spinnaker::GenApi::IEnumerationT<BlackLevelAutoBalanceEnums > *`) –

`SetValue` (*self*, *Value*, *Verify=True*)

Parameters

- `Value` (*enum Spinnaker::BlackLevelAutoBalanceEnums*) –
- `Verify` (*bool*) –
- `Value` (`SetValue` (*self*,)) –
- `Value` –

`thisown`

The membership flag

class `PySpin.IEnumerationT_BlackLevelAutoEnums` (**args*, ***kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<BlackLevelAutoEnums>` class.

`GetCurrentEntry` (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- `Verify` (*bool*) –
- `IgnoreCache` (*bool*) –
- `Verify=False` → `IEnumEntry` (`GetCurrentEntry` (*self*,)) –
- `Verify` –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- `self` (`Spinnaker::GenApi::IEnumerationT<BlackLevelAutoEnums > *`) –

`GetEntry` (*self*, *Value*) → `IEnumEntry`

Parameters `Value` (*enum Spinnaker::BlackLevelAutoEnums const*) –

`GetValue` (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::BlackLevelAutoEnums`

Parameters

- `Verify` (*bool*) –
- `IgnoreCache` (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::BlackLevelAutoEnums`:

Parameters `Verify` (*bool*) –

:param `GetValue(self)` -> `Spinnaker::BlackLevelAutoEnums`:

Parameters `self` (`Spinnaker::GenApi::IEnumerationT<BlackLevelAutoEnums > *`) –

`SetValue` (*self*, *Value*, *Verify=True*)

Parameters

- `Value` (*enum Spinnaker::BlackLevelAutoEnums*) –

- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_BlackLevelSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(BlackLevelSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (`Spinnaker::GenApi::IEnumerationT<BlackLevelSelectorEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::BlackLevelSelectorEnums const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::BlackLevelSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::BlackLevelSelectorEnums:`

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::BlackLevelSelectorEnums:`

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<BlackLevelSelectorEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::BlackLevelSelectorEnums`) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_BsiFlatFieldCorrectionAutoEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<BsiFlatFieldCorrectionAutoEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<BsiFlatFieldCorrectionAutoEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::BsiFlatFieldCorrectionAutoEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::BsiFlatFieldCorrectionAutoEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::BsiFlatFieldCorrectionAutoEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::BsiFlatFieldCorrectionAutoEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<BsiFlatFieldCorrectionAutoEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::BsiFlatFieldCorrectionAutoEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_BsiFlatFieldCorrectionGainSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<BsiFlatFieldCorrectionGainSelectorEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<BsiFlatFieldCorrectionGainSelectorEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::BsiFlatFieldCorrectionGainSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::BsiFlatFieldCorrectionGainSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::BsiFlatFieldCorrectionGainSelectorEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::BsiFlatFieldCorrectionGainSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<BsiFlatFieldCorrectionGainSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::BsiFlatFieldCorrectionGainSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_ChunkBlackLevelSelectorEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<(ChunkBlackLevelSelectorEnums)>** class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –

- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkBlackLevelSelectorEnums > **)–

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::ChunkBlackLevelSelectorEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ChunkBlackLevelSelectorEnums*

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–

:param GetValue(*self, Verify=False*) -> *Spinnaker::ChunkBlackLevelSelectorEnums*:

Parameters Verify (*bool*)–

:param GetValue(*self*) -> *Spinnaker::ChunkBlackLevelSelectorEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkBlackLevelSelectorEnums > **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkBlackLevelSelectorEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_ChunkCounterSelectorEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(ChunkCounterSelectorEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*)–
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*)–
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkCounterSelectorEnums > **)–

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::ChunkCounterSelectorEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ChunkCounterSelectorEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ChunkCounterSelectorEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ChunkCounterSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<ChunkCounterSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkCounterSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue(self,)*) –
- **Value** –

thisown
The membership flag

class PySpin.**IEnumerationT_ChunkEncoderSelectorEnums** (**args, **kwargs*)
Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ChunkEncoderSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry(self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry(self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkEncoderSelectorEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::ChunkEncoderSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ChunkEncoderSelectorEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ChunkEncoderSelectorEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ChunkEncoderSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<ChunkEncoderSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkEncoderSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ChunkEncoderStatusEnums` (**args*, ***kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(ChunkEncoderStatusEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry (GetCurrentEntry (self,))` –
- **Verify** –
- → `IEnumEntry (GetCurrentEntry (self))` –
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkEncoderStatusEnums > **) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::ChunkEncoderStatusEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::ChunkEncoderStatusEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::ChunkEncoderStatusEnums`:

Parameters Verify (*bool*) –

:param `GetValue(self) -> Spinnaker::ChunkEncoderStatusEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkEncoderStatusEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkEncoderStatusEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_ChunkExposureTimeSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ChunkExposureTimeSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*,) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkExposureTimeSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::ChunkExposureTimeSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ChunkExposureTimeSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::ChunkExposureTimeSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::ChunkExposureTimeSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkExposureTimeSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkExposureTimeSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (SetValue (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_ChunkGainSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ChunkGainSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkGainSelectorEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::ChunkGainSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::ChunkGainSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::ChunkGainSelectorEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::ChunkGainSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkGainSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkGainSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_ChunkImageComponentEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(ChunkImageComponentEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –

- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkImageComponentEnums > **)–

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::ChunkImageComponentEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ChunkImageComponentEnums*

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–

:param GetValue(*self, Verify=False*) -> *Spinnaker::ChunkImageComponentEnums*:

Parameters Verify (*bool*)–

:param GetValue(*self*) -> *Spinnaker::ChunkImageComponentEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkImageComponentEnums > **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkImageComponentEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_ChunkPixelFormatEnums* (**args, **kwargs*)
 Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(ChunkPixelFormatEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*)–
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*)–
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkPixelFormatEnums > **)–

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::ChunkPixelFormatEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ChunkPixelFormatEnums*

Parameters

- **Verify** (*bool*)–

- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ChunkPixelFormatEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ChunkPixelFormatEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< ChunkPixelFormatEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkPixelFormatEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown
The membership flag

class PySpin.**IEnumerationT_ChunkRegionIDEnums** (**args, **kwargs*)
Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ChunkRegionIDEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< ChunkRegionIDEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::ChunkRegionIDEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ChunkRegionIDEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ChunkRegionIDEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ChunkRegionIDEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< ChunkRegionIDEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkRegionIDEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_ChunkScan3dCoordinateReferenceSelectorEnums (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ChunkScan3dCoordinateReferenceSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateReferenceSelectorEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::ChunkScan3dCoordinateReferenceSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ChunkScan3dCoordinateReferenceSelectorEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param *GetValue(self, Verify=False)* → *Spinnaker::ChunkScan3dCoordinateReferenceSelectorEnums*:

Parameters Verify (*bool*) –

:param *GetValue(self)* → *Spinnaker::ChunkScan3dCoordinateReferenceSelectorEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateReferenceSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkScan3dCoordinateReferenceSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –

- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ChunkScan3dCoordinateSelectorEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(ChunkScan3dCoordinateSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateSelectorEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (`enum Spinnaker::ChunkScan3dCoordinateSelectorEnums` *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::ChunkScan3dCoordinateSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::ChunkScan3dCoordinateSelectorEnums`:

Parameters Verify (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::ChunkScan3dCoordinateSelectorEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateSelectorEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::ChunkScan3dCoordinateSelectorEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ChunkScan3dCoordinateSystemEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(ChunkScan3dCoordinateSystemEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateSystemEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (enum Spinnaker::ChunkScan3dCoordinateSystemEnums *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ChunkScan3dCoordinateSystemEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::ChunkScan3dCoordinateSystemEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::ChunkScan3dCoordinateSystemEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateSystemEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (enum Spinnaker::ChunkScan3dCoordinateSystemEnums) –
- **Verify** (*bool*) –
- **Value** (SetValue (*self*),) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_ChunkScan3dCoordinateSystemReferenceEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ChunkScan3dCoordinateSystemReferenceEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –

- **Verify** –
- **-> IEnumEntry** (`GetCurrentEntry (self)`) –
- **self** (`Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateSystemReferenceEnums > *`) –

GetEntry (`self, Value`) → `IEnumEntry`

Parameters `Value` (`enum Spinnaker::ChunkScan3dCoordinateSystemReferenceEnums const`) –

GetValue (`self, Verify=False, IgnoreCache=False`) → `Spinnaker::ChunkScan3dCoordinateSystemReferenceEnums`

Parameters

- **Verify** (`bool`) –
- **IgnoreCache** (`bool`) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::ChunkScan3dCoordinateSystemReferenceEnums`:

Parameters `Verify` (`bool`) –

:param `GetValue(self)` -> `Spinnaker::ChunkScan3dCoordinateSystemReferenceEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateSystemReferenceEnums > *`) –

SetValue (`self, Value, Verify=True`)

Parameters

- **Value** (`enum Spinnaker::ChunkScan3dCoordinateSystemReferenceEnums`) –
- **Verify** (`bool`) –
- **Value** (`SetValue (self,)`) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ChunkScan3dCoordinateTransformSelectorEnums` (`*args, **kwargs`)

Bases: `PySpin.IEnumeration, PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateTransformSelectorEnums>` class.

GetCurrentEntry (`self, Verify=False, IgnoreCache=False`) → `IEnumEntry`

Parameters

- **Verify** (`bool`) –
- **IgnoreCache** (`bool`) –
- **Verify=False** -> **IEnumEntry** (`GetCurrentEntry (self,)`) –
- **Verify** –
- **-> IEnumEntry** (`GetCurrentEntry (self)`) –
- **self** (`Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateTransformSelectorEnums > *`) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::ChunkScan3dCoordinateTransformSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ChunkScan3dCoordinateTransformSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::ChunkScan3dCoordinateTransformSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::ChunkScan3dCoordinateTransformSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkScan3dCoordinateTransformSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkScan3dCoordinateTransformSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_ChunkScan3dDistanceUnitEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ChunkScan3dDistanceUnitEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** -> IEnumEntry (GetCurrentEntry (*self*,) –
- **Verify** –
- -> IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkScan3dDistanceUnitEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::ChunkScan3dDistanceUnitEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ChunkScan3dDistanceUnitEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ChunkScan3dDistanceUnitEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ChunkScan3dDistanceUnitEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<ChunkScan3dDistanceUnitEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkScan3dDistanceUnitEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue(self,)*) –
- **Value** –

thisown
The membership flag

class `PySpin.IEnumerationT_ChunkScan3dOutputModeEnums` (**args, **kwargs*)
Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ChunkScan3dOutputModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry(self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry(self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkScan3dOutputModeEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::ChunkScan3dOutputModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::ChunkScan3dOutputModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ChunkScan3dOutputModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ChunkScan3dOutputModeEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< ChunkScan3dOutputModeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkScan3dOutputModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ChunkSelectorEnums` (**args, **kwargs*)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(ChunkSelectorEnums)>` class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< ChunkSelectorEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::ChunkSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::ChunkSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::ChunkSelectorEnums`:

Parameters Verify (*bool*) –

:param `GetValue(self)` -> `Spinnaker::ChunkSelectorEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT< ChunkSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –

- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ChunkSourceIDEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(ChunkSourceIDEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT< ChunkSourceIDEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::ChunkSourceIDEnums const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::ChunkSourceIDEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::ChunkSourceIDEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::ChunkSourceIDEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT< ChunkSourceIDEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::ChunkSourceIDEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ChunkTimerSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(ChunkTimerSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkTimerSelectorEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::ChunkTimerSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::ChunkTimerSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param *GetValue*(*self*, *Verify=False*) → **Spinnaker::ChunkTimerSelectorEnums**:

Parameters Verify (*bool*) –

:param *GetValue*(*self*) → **Spinnaker::ChunkTimerSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkTimerSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkTimerSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_ChunkTransferStreamIDEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(ChunkTransferStreamIDEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –

- **self** (*Spinnaker::GenApi::IEnumerationT<ChunkTransferStreamIDEnums > **)–

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::ChunkTransferStreamIDEnums const*)–

–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ChunkTransferStreamIDEnums*

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–

:param GetValue(*self, Verify=False*) -> *Spinnaker::ChunkTransferStreamIDEnums*:

Parameters Verify (*bool*)–

:param GetValue(*self*) -> *Spinnaker::ChunkTransferStreamIDEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ChunkTransferStreamIDEnums > **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ChunkTransferStreamIDEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_ClConfigurationEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(ClConfigurationEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*)–
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*)–
- **self** (*Spinnaker::GenApi::IEnumerationT< ClConfigurationEnums > **)–

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::ClConfigurationEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ClConfigurationEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ClConfigurationEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::ClConfigurationEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ClConfigurationEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ClConfigurationEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue(self,)*) –
- **Value** –

thisown
The membership flag

class PySpin.**IEnumerationT_ClTimeSlotsCountEnums** (**args, **kwargs*)
Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ClTimeSlotsCountEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry(self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry(self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ClTimeSlotsCountEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::ClTimeSlotsCountEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ClTimeSlotsCountEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ClTimeSlotsCountEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::ClTimeSlotsCountEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ClTimeSlotsCountEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ClTimeSlotsCountEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ColorTransformationSelectorEnums` (**args*, ***kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(ColorTransformationSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry (GetCurrentEntry (self,))` –
- **Verify** –
- → `IEnumEntry (GetCurrentEntry (self))` –
- **self** (*Spinnaker::GenApi::IEnumerationT<ColorTransformationSelectorEnums > **) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::ColorTransformationSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::ColorTransformationSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::ColorTransformationSelectorEnums`:

Parameters Verify (*bool*) –

:param `GetValue(self) -> Spinnaker::ColorTransformationSelectorEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ColorTransformationSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ColorTransformationSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ColorTransformationValueSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ColorTransformationValueSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<ColorTransformationValueSelectorEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::ColorTransformationValueSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::ColorTransformationValueSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) → `Spinnaker::ColorTransformationValueSelectorEnums`:

Parameters Verify (*bool*) –

:param `GetValue`(*self*) → `Spinnaker::ColorTransformationValueSelectorEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT<ColorTransformationValueSelectorEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ColorTransformationValueSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_CounterEventActivationEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CounterEventActivationEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<CounterEventActivationEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (enum Spinnaker::CounterEventActivationEnums *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::CounterEventActivationEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::CounterEventActivationEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::CounterEventActivationEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<CounterEventActivationEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (enum Spinnaker::CounterEventActivationEnums) –
- **Verify** (*bool*) –
- **Value** (SetValue (*self*),) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_CounterEventSourceEnums (*args, **kwargs)

Bases: PySpin.IEnumeration, PySpin.IEnumReference

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CounterEventSourceEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –
- **Verify** –

- `-> IEnumEntry (GetCurrentEntry (self))-`
- **self** `(Spinnaker::GenApi::IEnumerationT< CounterEventSourceEnums > *)-`

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::CounterEventSourceEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::CounterEventSourceEnums

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self*, *Verify=False*) -> Spinnaker::CounterEventSourceEnums:

Parameters Verify (*bool*)-

:param GetValue(*self*) -> Spinnaker::CounterEventSourceEnums:

Parameters self `(Spinnaker::GenApi::IEnumerationT< CounterEventSourceEnums > *)-`

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CounterEventSourceEnums*)-
- **Verify** (*bool*)-
- **Value** (*SetValue (self,)*)-
- **Value** -

thisown

The membership flag

class PySpin.IEnumerationT_CounterResetActivationEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CounterResetActivationEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- `-> IEnumEntry (GetCurrentEntry (self))-`
- **self** `(Spinnaker::GenApi::IEnumerationT< CounterResetActivationEnums > *)-`

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::CounterResetActivationEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::CounterResetActivationEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::CounterResetActivationEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::CounterResetActivationEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<CounterResetActivationEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CounterResetActivationEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue(self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_CounterResetSourceEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CounterResetSourceEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry(self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry(self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<CounterResetSourceEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::CounterResetSourceEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::CounterResetSourceEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::CounterResetSourceEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::CounterResetSourceEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< CounterResetSourceEnums > **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CounterResetSourceEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_CounterSelectorEnums` (**args, **kwargs*)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(CounterSelectorEnums)>` class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*)–
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*)–
- **self** (*Spinnaker::GenApi::IEnumerationT< CounterSelectorEnums > **)–

GetEntry (*self, Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::CounterSelectorEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::CounterSelectorEnums`

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–

:param `GetValue(self, Verify=False)` -> `Spinnaker::CounterSelectorEnums`:

Parameters Verify (*bool*)–

:param `GetValue(self)` -> `Spinnaker::CounterSelectorEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT< CounterSelectorEnums > **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CounterSelectorEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–

- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_CounterStatusEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CounterStatusEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT< CounterStatusEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::CounterStatusEnums const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::CounterStatusEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::CounterStatusEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::CounterStatusEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT< CounterStatusEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::CounterStatusEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_CounterTriggerActivationEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CounterTriggerActivationEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<CounterTriggerActivationEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::CounterTriggerActivationEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::CounterTriggerActivationEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param *GetValue*(*self*, *Verify=False*) → **Spinnaker::CounterTriggerActivationEnums**:

Parameters Verify (*bool*) –

:param *GetValue*(*self*) → **Spinnaker::CounterTriggerActivationEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<CounterTriggerActivationEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CounterTriggerActivationEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_CounterTriggerSourceEnums** (**args*, ***kwargs*)
 Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(CounterTriggerSourceEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –

```

    • self (Spinnaker::GenApi::IEnumerationT<
      CounterTriggerSourceEnums > *)-
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::CounterTriggerSourceEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::CounterTriggerSourceEnums
Parameters
    • Verify (bool)-
    • IgnoreCache (bool)-
:param GetValue(self, Verify=False) -> Spinnaker::CounterTriggerSourceEnums:
Parameters Verify (bool)-
:param GetValue(self) -> Spinnaker::CounterTriggerSourceEnums:
Parameters self (Spinnaker::GenApi::IEnumerationT<
  CounterTriggerSourceEnums > *)-
SetValue (self, Value, Verify=True)
Parameters
    • Value (enum Spinnaker::CounterTriggerSourceEnums)-
    • Verify (bool)-
    • Value (SetValue (self,)-)
    • Value -
thisown
  The membership flag
class PySpin.IEnumerationT_CxpConnectionTestModeEnums (*args, **kwargs)
  Bases: PySpin.IEnumeration, PySpin.IEnumReference
  Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CxpConnectionTestModeEnums)> class.
GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry
Parameters
    • Verify (bool)-
    • IgnoreCache (bool)-
    • Verify=False -> IEnumEntry (GetCurrentEntry (self,)-)
    • Verify -
    • -> IEnumEntry (GetCurrentEntry (self))-
    • self (Spinnaker::GenApi::IEnumerationT<
      CxpConnectionTestModeEnums > *)-
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::CxpConnectionTestModeEnums const)
    -
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::CxpConnectionTestModeEnums
Parameters

```

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::CxpConnectionTestModeEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::CxpConnectionTestModeEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<CxpConnectionTestModeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CxpConnectionTestModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue(self,)*) –
- **Value** –

thisown
The membership flag

class PySpin.**IEnumerationT_CxpLinkConfigurationEnums** (**args, **kwargs*)
Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CxpLinkConfigurationEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry(self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry(self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<CxpLinkConfigurationEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::CxpLinkConfigurationEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::CxpLinkConfigurationEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::CxpLinkConfigurationEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::CxpLinkConfigurationEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<CxpLinkConfigurationEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CxpLinkConfigurationEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_CxpLinkConfigurationPreferredEnums` (**args*, ***kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CxpLinkConfigurationPreferredEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*)–
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*)–
- **self** (*Spinnaker::GenApi::IEnumerationT<CxpLinkConfigurationPreferredEnums > **)–

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::CxpLinkConfigurationPreferredEnums const*)–

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::CxpLinkConfigurationPreferredEnums`

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–

:param `GetValue(self, Verify=False)` -> `Spinnaker::CxpLinkConfigurationPreferredEnums`:

Parameters **Verify** (*bool*)–

:param `GetValue(self)` -> `Spinnaker::CxpLinkConfigurationPreferredEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<CxpLinkConfigurationPreferredEnums > **)–

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CxpLinkConfigurationPreferredEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_CxpLinkConfigurationStatusEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CxpLinkConfigurationStatusEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<CxpLinkConfigurationStatusEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::CxpLinkConfigurationStatusEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::CxpLinkConfigurationStatusEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::CxpLinkConfigurationStatusEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::CxpLinkConfigurationStatusEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<CxpLinkConfigurationStatusEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CxpLinkConfigurationStatusEnums*) –
- **Verify** (*bool*) –
- **Value** (SetValue (*self*),) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_CxpPoCxpStatusEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(CxpPoCxpStatusEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< CxpPoCxpStatusEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::CxpPoCxpStatusEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::CxpPoCxpStatusEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::CxpPoCxpStatusEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::CxpPoCxpStatusEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT< CxpPoCxpStatusEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::CxpPoCxpStatusEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_DecimationHorizontalModeEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(DecimationHorizontalModeEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –

- **self** (*Spinnaker::GenApi::IEnumerationT<DecimationHorizontalModeEnums > **)–

GetEntry (*self, Value*) → *IEnumEntry*

- Parameters Value** (*enum Spinnaker::DecimationHorizontalModeEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::DecimationHorizontalModeEnums*

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–

:param GetValue(*self, Verify=False*) -> *Spinnaker::DecimationHorizontalModeEnums*:

- Parameters Verify** (*bool*)–

:param GetValue(*self*) -> *Spinnaker::DecimationHorizontalModeEnums*:

- Parameters self** (*Spinnaker::GenApi::IEnumerationT<DecimationHorizontalModeEnums > **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DecimationHorizontalModeEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_DecimationSelectorEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(DecimationSelectorEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*)–
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*)–
- **self** (*Spinnaker::GenApi::IEnumerationT<DecimationSelectorEnums > **)–

GetEntry (*self, Value*) → *IEnumEntry*

- Parameters Value** (*enum Spinnaker::DecimationSelectorEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::DecimationSelectorEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::DecimationSelectorEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::DecimationSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<DecimationSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DecimationSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_DecimationVerticalModeEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DecimationVerticalModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<DecimationVerticalModeEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::DecimationVerticalModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::DecimationVerticalModeEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::DecimationVerticalModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::DecimationVerticalModeEnums:

```

Parameters self (Spinnaker::GenApi::IEnumerationT<
    DecimationVerticalModeEnums > *)-
SetValue (self, Value, Verify=True)
Parameters
    • Value (enum Spinnaker::DecimationVerticalModeEnums)-
    • Verify (bool)-
    • Value (SetValue (self,))-
    • Value -
thisown
    The membership flag
class PySpin.IEnumerationT_DeinterlacingEnums (*args, **kwargs)
    Bases: PySpin.IEnumeration, PySpin.IEnumReference
    Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeinterlacingEnums)> class.
GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry
Parameters
    • Verify (bool)-
    • IgnoreCache (bool)-
    • Verify=False → IEnumEntry (GetCurrentEntry (self,))-
    • Verify -
    • → IEnumEntry (GetCurrentEntry (self))-
    • self (Spinnaker::GenApi::IEnumerationT< DeinterlacingEnums >
        *)-
GetEntry (self, Value) → IEnumEntry
Parameters Value (enum Spinnaker::DeinterlacingEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::DeinterlacingEnums
Parameters
    • Verify (bool)-
    • IgnoreCache (bool)-
:param GetValue(self, Verify=False) -> Spinnaker::DeinterlacingEnums:
Parameters Verify (bool) -
:param GetValue(self) -> Spinnaker::DeinterlacingEnums:
Parameters self (Spinnaker::GenApi::IEnumerationT<
    DeinterlacingEnums > *)-
SetValue (self, Value, Verify=True)
Parameters
    • Value (enum Spinnaker::DeinterlacingEnums)-
    • Verify (bool)-
    • Value (SetValue (self,))-

```

- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceAccessStatusEnum` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(DeviceAccessStatusEnum)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<DeviceAccessStatusEnum > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::DeviceAccessStatusEnum const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::DeviceAccessStatusEnum`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) → `Spinnaker::DeviceAccessStatusEnum`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) → `Spinnaker::DeviceAccessStatusEnum`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<DeviceAccessStatusEnum > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::DeviceAccessStatusEnum`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceCharacterSetEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(DeviceCharacterSetEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<DeviceCharacterSetEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters **Value** (*enum Spinnaker::DeviceCharacterSetEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::DeviceCharacterSetEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::DeviceCharacterSetEnums**:

Parameters **Verify** (*bool*) –

:param GetValue(*self*) → **Spinnaker::DeviceCharacterSetEnums**:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<DeviceCharacterSetEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceCharacterSetEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_DeviceClockSelectorEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(DeviceClockSelectorEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –

```

    • self (Spinnaker::GenApi::IEnumerationT<
      DeviceClockSelectorEnums > *)-
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::DeviceClockSelectorEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::DeviceClockSelectorEnums
Parameters
    • Verify (bool)-
    • IgnoreCache (bool)-
:param GetValue(self, Verify=False) -> Spinnaker::DeviceClockSelectorEnums:
    Parameters Verify (bool)-
:param GetValue(self) -> Spinnaker::DeviceClockSelectorEnums:
    Parameters self (Spinnaker::GenApi::IEnumerationT<
      DeviceClockSelectorEnums > *)-
SetValue (self, Value, Verify=True)
Parameters
    • Value (enum Spinnaker::DeviceClockSelectorEnums)-
    • Verify (bool)-
    • Value (SetValue (self,)-)
    • Value -
thisown
    The membership flag
class PySpin.IEnumerationT_DeviceConnectionStatusEnums (*args, **kwargs)
    Bases: PySpin.IEnumeration, PySpin.IEnumReference
    Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceConnectionStatusEnums)> class.
GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry
Parameters
    • Verify (bool)-
    • IgnoreCache (bool)-
    • Verify=False -> IEnumEntry (GetCurrentEntry (self,)-)
    • Verify -
    • -> IEnumEntry (GetCurrentEntry (self))-
    • self (Spinnaker::GenApi::IEnumerationT<
      DeviceConnectionStatusEnums > *)-
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::DeviceConnectionStatusEnums
      const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::DeviceConnectionStatusEnums
Parameters

```

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::DeviceConnectionStatusEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::DeviceConnectionStatusEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<DeviceConnectionStatusEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceConnectionStatusEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_DeviceCurrentSpeedEnum** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceCurrentSpeedEnum)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<DeviceCurrentSpeedEnum > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::DeviceCurrentSpeedEnum const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::DeviceCurrentSpeedEnum*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::DeviceCurrentSpeedEnum:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::DeviceCurrentSpeedEnum:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<DeviceCurrentSpeedEnum > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceCurrentSpeedEnum*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_DeviceEndiannessMechanismEnum** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceEndiannessMechanismEnum)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< DeviceEndiannessMechanismEnum > **) –

GetEntry (*self*, *Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::DeviceEndiannessMechanismEnum const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → *Spinnaker::DeviceEndiannessMechanismEnum*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param *GetValue*(*self*, *Verify=False*) -> *Spinnaker::DeviceEndiannessMechanismEnum*:

Parameters Verify (*bool*) –

:param *GetValue*(*self*) -> *Spinnaker::DeviceEndiannessMechanismEnum*:

Parameters self (*Spinnaker::GenApi::IEnumerationT< DeviceEndiannessMechanismEnum > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceEndiannessMechanismEnum*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceIndicatorModeEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(DeviceIndicatorModeEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<DeviceIndicatorModeEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::DeviceIndicatorModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::DeviceIndicatorModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) → `Spinnaker::DeviceIndicatorModeEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) → `Spinnaker::DeviceIndicatorModeEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<DeviceIndicatorModeEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceIndicatorModeEnums*) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceLinkHeartbeatModeEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(DeviceLinkHeartbeatModeEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<DeviceLinkHeartbeatModeEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters **Value** (*enum Spinnaker::DeviceLinkHeartbeatModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::DeviceLinkHeartbeatModeEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::DeviceLinkHeartbeatModeEnums**:

Parameters **Verify** (*bool*) –

:param GetValue(*self*) → **Spinnaker::DeviceLinkHeartbeatModeEnums**:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<DeviceLinkHeartbeatModeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceLinkHeartbeatModeEnums*) –
- **Verify** (*bool*) –
- **Value**) (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_DeviceLinkThroughputLimitModeEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<DeviceLinkThroughputLimitModeEnums>** class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –

- **self** (*Spinnaker::GenApi::IEnumerationT<DeviceLinkThroughputLimitModeEnums > **)–

GetEntry (*self, Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::DeviceLinkThroughputLimitModeEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → Spinnaker::DeviceLinkThroughputLimitModeEnums

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–

:param GetValue(*self, Verify=False*) -> Spinnaker::DeviceLinkThroughputLimitModeEnums:

Parameters Verify (*bool*)–

:param GetValue(*self*) -> Spinnaker::DeviceLinkThroughputLimitModeEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<DeviceLinkThroughputLimitModeEnums > **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceLinkThroughputLimitModeEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_DevicePowerSupplySelectorEnums (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DevicePowerSupplySelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → IEnumEntry (*GetCurrentEntry (self,)*)–
- **Verify** –
- → IEnumEntry (*GetCurrentEntry (self)*)–
- **self** (*Spinnaker::GenApi::IEnumerationT<DevicePowerSupplySelectorEnums > **)–

GetEntry (*self, Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::DevicePowerSupplySelectorEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → Spinnaker::DevicePowerSupplySelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::DevicePowerSupplySelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::DevicePowerSupplySelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<DevicePowerSupplySelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DevicePowerSupplySelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue(self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_DeviceRegistersEndiannessEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceRegistersEndiannessEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry(self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry(self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<DeviceRegistersEndiannessEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::DeviceRegistersEndiannessEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::DeviceRegistersEndiannessEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::DeviceRegistersEndiannessEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::DeviceRegistersEndiannessEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< DeviceRegistersEndiannessEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceRegistersEndiannessEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceScanTypeEnums` (**args, **kwargs*)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(DeviceScanTypeEnums)>` class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< DeviceScanTypeEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::DeviceScanTypeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::DeviceScanTypeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::DeviceScanTypeEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self)` -> `Spinnaker::DeviceScanTypeEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< DeviceScanTypeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceScanTypeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –

- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceSerialPortBaudRateEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(DeviceSerialPortBaudRateEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<DeviceSerialPortBaudRateEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::DeviceSerialPortBaudRateEnums` *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::DeviceSerialPortBaudRateEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::DeviceSerialPortBaudRateEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::DeviceSerialPortBaudRateEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<DeviceSerialPortBaudRateEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::DeviceSerialPortBaudRateEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceSerialPortSelectorEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(DeviceSerialPortSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<DeviceSerialPortSelectorEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (enum Spinnaker::DeviceSerialPortSelectorEnums *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::DeviceSerialPortSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::DeviceSerialPortSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::DeviceSerialPortSelectorEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<DeviceSerialPortSelectorEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (enum Spinnaker::DeviceSerialPortSelectorEnums) –
- **Verify** (*bool*) –
- **Value** (SetValue (*self*),) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_DeviceStreamChannelEndiannessEnums (*args, **kwargs)

Bases: PySpin.IEnumeration, PySpin.IEnumReference

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceStreamChannelEndiannessEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –
- **Verify** –

- `-> IEnumEntry (GetCurrentEntry (self))-`
- `self` `(Spinnaker::GenApi::IEnumerationT< DeviceStreamChannelEndiannessEnums > *)-`

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::DeviceStreamChannelEndiannessEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::DeviceStreamChannelEndiannessEnums

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self*, *Verify=False*) -> Spinnaker::DeviceStreamChannelEndiannessEnums:

Parameters Verify (*bool*)-

:param GetValue(*self*) -> Spinnaker::DeviceStreamChannelEndiannessEnums:

Parameters self `(Spinnaker::GenApi::IEnumerationT< DeviceStreamChannelEndiannessEnums > *)-`

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceStreamChannelEndiannessEnums*)-
- **Verify** (*bool*)-
- **Value** (*SetValue (self,)*)-
- **Value** -

thisown

The membership flag

class PySpin.IEnumerationT_DeviceStreamChannelTypeEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceStreamChannelTypeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False**) → IEnumEntry (GetCurrentEntry (self,))-
- **Verify** -
- `-> IEnumEntry (GetCurrentEntry (self))-`
- `self` `(Spinnaker::GenApi::IEnumerationT< DeviceStreamChannelTypeEnums > *)-`

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::DeviceStreamChannelTypeEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::DeviceStreamChannelTypeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::DeviceStreamChannelTypeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(*self*) -> Spinnaker::DeviceStreamChannelTypeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< DeviceStreamChannelTypeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceStreamChannelTypeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_DeviceTLTypeEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceTLTypeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- -> **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< DeviceTLTypeEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters **Value** (*enum Spinnaker::DeviceTLTypeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::DeviceTLTypeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::DeviceTLTypeEnums:

Parameters **Verify** (*bool*) –

```

:param GetValue(self) -> Spinnaker::DeviceTLTypeEnums:
    Parameters self (Spinnaker::GenApi::IEnumerationT<
        DeviceTLTypeEnums > *)-
SetValue (self, Value, Verify=True)
    Parameters
        • Value (enum Spinnaker::DeviceTLTypeEnums)-
        • Verify (bool)-
        • Value (SetValue (self,))-
        • Value -

thisown
    The membership flag

class PySpin.IEnumerationT_DeviceTapGeometryEnums (*args, **kwargs)
    Bases: PySpin.IEnumeration, PySpin.IEnumReference
    Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceTapGeometryEnums)> class.
GetCurrentEntry (self, Verify=False, IgnoreCache=False) -> IEnumEntry
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
        • Verify=False -> IEnumEntry (GetCurrentEntry (self,))-
        • Verify -
        • -> IEnumEntry (GetCurrentEntry (self))-
        • self (Spinnaker::GenApi::IEnumerationT<
            DeviceTapGeometryEnums > *)-

GetEntry (self, Value) -> IEnumEntry
    Parameters Value (enum Spinnaker::DeviceTapGeometryEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) -> Spinnaker::DeviceTapGeometryEnums
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
:param GetValue(self, Verify=False) -> Spinnaker::DeviceTapGeometryEnums:
    Parameters Verify (bool)-
:param GetValue(self) -> Spinnaker::DeviceTapGeometryEnums:
    Parameters self (Spinnaker::GenApi::IEnumerationT<
        DeviceTapGeometryEnums > *)-
SetValue (self, Value, Verify=True)
    Parameters
        • Value (enum Spinnaker::DeviceTapGeometryEnums)-
        • Verify (bool)-

```

- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceTemperatureSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceTemperatureSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*)–
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*)–
- **self** (*Spinnaker::GenApi::IEnumerationT< DeviceTemperatureSelectorEnums > **)–

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::DeviceTemperatureSelectorEnums const*)–

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::DeviceTemperatureSelectorEnums`

Parameters

- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–

:param `GetValue(self, Verify=False)` -> `Spinnaker::DeviceTemperatureSelectorEnums`:

Parameters **Verify** (*bool*)–

:param `GetValue(self)` -> `Spinnaker::DeviceTemperatureSelectorEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< DeviceTemperatureSelectorEnums > **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceTemperatureSelectorEnums*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceTypeEnum` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceTypeEnum)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT< DeviceTypeEnum > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::DeviceTypeEnum const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::DeviceTypeEnum`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) → `Spinnaker::DeviceTypeEnum`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) → `Spinnaker::DeviceTypeEnum`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT< DeviceTypeEnum > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::DeviceTypeEnum`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_DeviceTypeEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(DeviceTypeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False**) -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (*Spinnaker::GenApi::IEnumerationT< DeviceTypeEnums > **)-

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::DeviceTypeEnums const*)-

GetValue (*self, Verify=False, IgnoreCache=False*) → **Spinnaker::DeviceTypeEnums**

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self, Verify=False*) -> **Spinnaker::DeviceTypeEnums**:

Parameters Verify (*bool*)-

:param GetValue(*self*) -> **Spinnaker::DeviceTypeEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT< DeviceTypeEnums > **)-

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::DeviceTypeEnums*)-
- **Verify** (*bool*)-
- **Value**) (*SetValue (self,)*)-
- **Value** -

thisown

The membership flag

class **PySpin.IEnumerationT_EncoderModeEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(EncoderModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False**) -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (*Spinnaker::GenApi::IEnumerationT< EncoderModeEnums > **)
-

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::EncoderModeEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::EncoderModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::EncoderModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(*self*) -> Spinnaker::EncoderModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< EncoderModeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::EncoderModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_EncoderOutputModeEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(EncoderOutputModeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< EncoderOutputModeEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters **Value** (*enum Spinnaker::EncoderOutputModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::EncoderOutputModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::EncoderOutputModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::EncoderOutputModeEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<EncoderOutputModeEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::EncoderOutputModeEnums*) -
- **Verify** (*bool*) -
- **Value** (*SetValue (self,)*) -
- **Value** -

thisown

The membership flag

class PySpin.**IEnumerationT_EncoderResetActivationEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(EncoderResetActivationEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) -
- **Verify** -
- → *IEnumEntry* (*GetCurrentEntry (self)*) -
- **self** (*Spinnaker::GenApi::IEnumerationT<EncoderResetActivationEnums > **) -

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::EncoderResetActivationEnums const*) -

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::EncoderResetActivationEnums*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -

:param GetValue(self, Verify=False) -> Spinnaker::EncoderResetActivationEnums:

Parameters Verify (*bool*) -

:param GetValue(self) -> Spinnaker::EncoderResetActivationEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<EncoderResetActivationEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::EncoderResetActivationEnums*) -

- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_EncoderResetSourceEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<EncoderResetSourceEnums> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<EncoderResetSourceEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::EncoderResetSourceEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::EncoderResetSourceEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::EncoderResetSourceEnums:`

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::EncoderResetSourceEnums:`

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<EncoderResetSourceEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::EncoderResetSourceEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_EncoderSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(EncoderSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< EncoderSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::EncoderSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::EncoderSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::EncoderSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::EncoderSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< EncoderSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::EncoderSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_EncoderSourceAEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(EncoderSourceAEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- -> **IEnumEntry** (`GetCurrentEntry (self)`)-
- **self** (`Spinnaker::GenApi::IEnumerationT< EncoderSourceAEnums > *`)-

GetEntry (`self, Value`) → **IEnumEntry**

Parameters Value (`enum Spinnaker::EncoderSourceAEnums const`)-

GetValue (`self, Verify=False, IgnoreCache=False`) → `Spinnaker::EncoderSourceAEnums`

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-

:param `GetValue(self, Verify=False)` -> `Spinnaker::EncoderSourceAEnums`:

Parameters Verify (`bool`)-

:param `GetValue(self)` -> `Spinnaker::EncoderSourceAEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT< EncoderSourceAEnums > *`)-

SetValue (`self, Value, Verify=True`)

Parameters

- **Value** (`enum Spinnaker::EncoderSourceAEnums`)-
- **Verify** (`bool`)-
- **Value**) (`SetValue (self,)`)-
- **Value** -

thisown

The membership flag

class `PySpin.IEnumerationT_EncoderSourceBEnums` (`*args, **kwargs`)

Bases: `PySpin.IEnumeration, PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(EncoderSourceBEnums)>` class.

GetCurrentEntry (`self, Verify=False, IgnoreCache=False`) → **IEnumEntry**

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-
- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- -> **IEnumEntry** (`GetCurrentEntry (self)`)-
- **self** (`Spinnaker::GenApi::IEnumerationT< EncoderSourceBEnums > *`)-

GetEntry (`self, Value`) → **IEnumEntry**

Parameters Value (`enum Spinnaker::EncoderSourceBEnums const`)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::EncoderSourceBEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::EncoderSourceBEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::EncoderSourceBEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< EncoderSourceBEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::EncoderSourceBEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_EncoderStatusEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(EncoderStatusEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< EncoderStatusEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::EncoderStatusEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::EncoderStatusEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::EncoderStatusEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::EncoderStatusEnums:

Parameters **self** (Spinnaker::GenApi::IEnumerationT<EncoderStatusEnums > *)-

SetValue (self, Value, Verify=True)

Parameters

- **Value** (enum Spinnaker::EncoderStatusEnums)-
- **Verify** (bool)-
- **Value** (SetValue (self,))-
- **Value** -

thisown

The membership flag

class PySpin.IEnumerationT_EventNotificationEnums (*args, **kwargs)

Bases: PySpin.IEnumeration, PySpin.IEnumReference

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(EventNotificationEnums)> class.

GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry

Parameters

- **Verify** (bool)-
- **IgnoreCache** (bool)-
- **Verify=False** -> IEnumEntry (GetCurrentEntry (self,))-
- **Verify** -
- -> IEnumEntry (GetCurrentEntry (self))-
- **self** (Spinnaker::GenApi::IEnumerationT<EventNotificationEnums > *)-

GetEntry (self, Value) → IEnumEntry

Parameters **Value** (enum Spinnaker::EventNotificationEnums const)-

GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::EventNotificationEnums

Parameters

- **Verify** (bool)-
- **IgnoreCache** (bool)-

:param GetValue(self, Verify=False) -> Spinnaker::EventNotificationEnums:

Parameters **Verify** (bool)-

:param GetValue(self) -> Spinnaker::EventNotificationEnums:

Parameters **self** (Spinnaker::GenApi::IEnumerationT<EventNotificationEnums > *)-

SetValue (self, Value, Verify=True)

Parameters

- **Value** (enum Spinnaker::EventNotificationEnums)-
- **Verify** (bool)-

- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_EventSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(EventSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< EventSelectorEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::EventSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::EventSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::EventSelectorEnums:`

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::EventSelectorEnums:`

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< EventSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::EventSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ExposureActiveModeEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ExposureActiveModeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → IEnumEntry (GetCurrentEntry (*self*,) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<ExposureActiveModeEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::ExposureActiveModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ExposureActiveModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::ExposureActiveModeEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::ExposureActiveModeEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<ExposureActiveModeEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ExposureActiveModeEnums*) –
- **Verify** (*bool*) –
- **Value**) (SetValue (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_ExposureAutoEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ExposureAutoEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → IEnumEntry (GetCurrentEntry (*self*,) –
- **Verify** –

- `-> IEnumEntry (GetCurrentEntry (self))-`
- `self (Spinnaker::GenApi::IEnumerationT< ExposureAutoEnums > *)-`

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::ExposureAutoEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ExposureAutoEnums

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self*, *Verify=False*) -> Spinnaker::ExposureAutoEnums:

Parameters Verify (*bool*)-

:param GetValue(*self*) -> Spinnaker::ExposureAutoEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< ExposureAutoEnums > **)-

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ExposureAutoEnums*)-
- **Verify** (*bool*)-
- **Value** (*SetValue (self,)*)-
- **Value** -

thisown

The membership flag

class PySpin.IEnumerationT_ExposureModeEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ExposureModeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- `-> IEnumEntry (GetCurrentEntry (self))-`
- `self (Spinnaker::GenApi::IEnumerationT< ExposureModeEnums > *)-`

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::ExposureModeEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ExposureModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ExposureModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ExposureModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<ExposureModeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ExposureModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown
The membership flag

class `PySpin.IEnumerationT_ExposureTimeModeEnums` (**args, **kwargs*)
Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`
Proxy of C++ Spinnaker::GenApi::IEnumerationT<(ExposureTimeModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ExposureTimeModeEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::ExposureTimeModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::ExposureTimeModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ExposureTimeModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ExposureTimeModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<ExposureTimeModeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ExposureTimeModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ExposureTimeSelectorEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<ExposureTimeSelectorEnums>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ExposureTimeSelectorEnums > **) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::ExposureTimeSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::ExposureTimeSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` → `Spinnaker::ExposureTimeSelectorEnums`:

Parameters Verify (*bool*) –

:param `GetValue(self)` → `Spinnaker::ExposureTimeSelectorEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ExposureTimeSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ExposureTimeSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_FileOpenModeEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(FileOpenModeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → IEnumEntry (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< FileOpenModeEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters **Value** (*enum Spinnaker::FileOpenModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::FileOpenModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param *GetValue*(*self*, *Verify=False*) -> Spinnaker::FileOpenModeEnums:

Parameters **Verify** (*bool*) –

:param *GetValue*(*self*) -> Spinnaker::FileOpenModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< FileOpenModeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::FileOpenModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_FileOperationSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(FileOperationSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<FileOperationSelectorEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::FileOperationSelectorEnums const*)

–

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::FileOperationSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::FileOperationSelectorEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::FileOperationSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<FileOperationSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::FileOperationSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_FileOperationStatusEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(FileOperationStatusEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –

```

    • self (Spinnaker::GenApi::IEnumerationT<
      FileOperationStatusEnums > *)-
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::FileOperationStatusEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::FileOperationStatusEnums
Parameters
    • Verify (bool)-
    • IgnoreCache (bool)-
:param GetValue(self, Verify=False) -> Spinnaker::FileOperationStatusEnums:
Parameters Verify (bool)-
:param GetValue(self) -> Spinnaker::FileOperationStatusEnums:
Parameters self (Spinnaker::GenApi::IEnumerationT<
  FileOperationStatusEnums > *)-
SetValue (self, Value, Verify=True)
Parameters
    • Value (enum Spinnaker::FileOperationStatusEnums)-
    • Verify (bool)-
    • Value (SetValue (self,)-
    • Value -
thisown
  The membership flag
class PySpin.IEnumerationT_FileSelectorEnums (*args, **kwargs)
  Bases: PySpin.IEnumeration, PySpin.IEnumReference
  Proxy of C++ Spinnaker::GenApi::IEnumerationT<(FileSelectorEnums)> class.
GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry
Parameters
    • Verify (bool)-
    • IgnoreCache (bool)-
    • Verify=False) → IEnumEntry (GetCurrentEntry (self,)-
    • Verify -
    • -> IEnumEntry (GetCurrentEntry (self))-
    • self (Spinnaker::GenApi::IEnumerationT< FileSelectorEnums >
      *)-
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::FileSelectorEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::FileSelectorEnums
Parameters
    • Verify (bool)-

```

- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::FileSelectorEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::FileSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< FileSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::FileSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue(self,)*) –
- **Value** –

thisown
The membership flag

class PySpin.IEnumerationT_GUIXMLLocationEnum (**args, **kwargs*)
Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GUIXMLLocationEnum)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry(self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry(self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< GUIXMLLocationEnum > **) –

GetEntry (*self, Value*) → IEnumEntry

Parameters **Value** (*enum Spinnaker::GUIXMLLocationEnum const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → Spinnaker::GUIXMLLocationEnum

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::GUIXMLLocationEnum:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::GUIXMLLocationEnum:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< GUIXMLLocationEnum > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GUIXMLLocationEnum*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_GainAutoBalanceEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<GainAutoBalanceEnums>` class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< GainAutoBalanceEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::GainAutoBalanceEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::GainAutoBalanceEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::GainAutoBalanceEnums`:

Parameters Verify (*bool*) –

:param `GetValue(self) -> Spinnaker::GainAutoBalanceEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT< GainAutoBalanceEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GainAutoBalanceEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_GainAutoEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GainAutoEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< GainAutoEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::GainAutoEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::GainAutoEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::GainAutoEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::GainAutoEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< GainAutoEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GainAutoEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_GainSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GainSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- -> **IEnumEntry** (`GetCurrentEntry (self)`)-
- **self** (`Spinnaker::GenApi::IEnumerationT< GainSelectorEnums > *`)-

GetEntry (`self, Value`) -> **IEnumEntry**

Parameters Value (`enum Spinnaker::GainSelectorEnums const`)-

GetValue (`self, Verify=False, IgnoreCache=False`) -> `Spinnaker::GainSelectorEnums`

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-

:param `GetValue(self, Verify=False)` -> `Spinnaker::GainSelectorEnums`:

Parameters Verify (`bool`)-

:param `GetValue(self)` -> `Spinnaker::GainSelectorEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT< GainSelectorEnums > *`)-

SetValue (`self, Value, Verify=True`)

Parameters

- **Value** (`enum Spinnaker::GainSelectorEnums`)-
- **Verify** (`bool`)-
- **Value**) (`SetValue (self,)`)-
- **Value** -

thisown

The membership flag

class `PySpin.IEnumerationT_GenICamXMLLocationEnum` (`*args, **kwargs`)

Bases: `PySpin.IEnumeration, PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(GenICamXMLLocationEnum)>` class.

GetCurrentEntry (`self, Verify=False, IgnoreCache=False`) -> **IEnumEntry**

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-
- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- -> **IEnumEntry** (`GetCurrentEntry (self)`)-
- **self** (`Spinnaker::GenApi::IEnumerationT< GenICamXMLLocationEnum > *`)-

GetEntry (`self, Value`) -> **IEnumEntry**

Parameters Value (`enum Spinnaker::GenICamXMLLocationEnum const`)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::GenICamXMLLocationEnum

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::GenICamXMLLocationEnum:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::GenICamXMLLocationEnum:

Parameters self (*Spinnaker::GenApi::IEnumerationT< GenICamXMLLocationEnum > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GenICamXMLLocationEnum*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_GevCCPEnum** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GevCCPEnum)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< GevCCPEnum > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::GevCCPEnum const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::GevCCPEnum

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::GevCCPEnum:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::GevCCPEnum:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< GevCCPEnum > **) –
SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevCCPEnum*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_GevCCPEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(GevCCPEnums)>` class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< GevCCPEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::GevCCPEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::GevCCPEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::GevCCPEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::GevCCPEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< GevCCPEnums > **)

–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevCCPEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

```
class PySpin.IEnumerationT_GevCurrentPhysicalLinkConfigurationEnums (*args,
                                                                    **kwargs)
```

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GevCurrentPhysicalLinkConfigurationEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → IEnumEntry (GetCurrentEntry (*self*,) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<GevCurrentPhysicalLinkConfigurationEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::GevCurrentPhysicalLinkConfigurationEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::GevCurrentPhysicalLinkConfigurationEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → Spinnaker::GevCurrentPhysicalLinkConfigurationEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) → Spinnaker::GevCurrentPhysicalLinkConfigurationEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<GevCurrentPhysicalLinkConfigurationEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevCurrentPhysicalLinkConfigurationEnums*) –
- **Verify** (*bool*) –
- **Value**) (SetValue (*self*,) –
- **Value** –

thisown

The membership flag

```
class PySpin.IEnumerationT_GevGVCPEExtendedStatusCodesSelectorEnums (*args,
                                                                    **kwargs)
```

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GevGVCPEExtendedStatusCodesSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<GevGVCPEExtendedStatusCodesSelectorEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::GevGVCPEExtendedStatusCodesSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::GevGVCPEExtendedStatusCodesSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::GevGVCPEExtendedStatusCodesSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::GevGVCPEExtendedStatusCodesSelectorEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<GevGVCPEExtendedStatusCodesSelectorEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevGVCPEExtendedStatusCodesSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (SetValue (*self*),) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_GevGVSPExtendedIDModeEnums (*args, **kwargs)

Bases: PySpin.IEnumeration, PySpin.IEnumReference

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GevGVSPExtendedIDModeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*),) –

- **Verify** –
- **-> IEnumEntry** (`GetCurrentEntry (self)`) –
- **self** (`Spinnaker::GenApi::IEnumerationT<GevGVSPExtendedIDModeEnums > *`) –

GetEntry (`self, Value`) → `IEnumEntry`

Parameters Value (`enum Spinnaker::GevGVSPExtendedIDModeEnums const`)

–

GetValue (`self, Verify=False, IgnoreCache=False`) → `Spinnaker::GevGVSPExtendedIDModeEnums`

Parameters

- **Verify** (`bool`) –
- **IgnoreCache** (`bool`) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::GevGVSPExtendedIDModeEnums`:

Parameters Verify (`bool`) –

:param `GetValue(self)` -> `Spinnaker::GevGVSPExtendedIDModeEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT<GevGVSPExtendedIDModeEnums > *`) –

SetValue (`self, Value, Verify=True`)

Parameters

- **Value** (`enum Spinnaker::GevGVSPExtendedIDModeEnums`) –
- **Verify** (`bool`) –
- **Value** (`SetValue (self,)`) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_GevIEEE1588ClockAccuracyEnums` (`*args, **kwargs`)
 Bases: `PySpin.IEnumeration, PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<GevIEEE1588ClockAccuracyEnums>` class.

GetCurrentEntry (`self, Verify=False, IgnoreCache=False`) → `IEnumEntry`

Parameters

- **Verify** (`bool`) –
- **IgnoreCache** (`bool`) –
- **Verify=False** → **IEnumEntry** (`GetCurrentEntry (self,)`) –
- **Verify** –
- **-> IEnumEntry** (`GetCurrentEntry (self)`) –
- **self** (`Spinnaker::GenApi::IEnumerationT<GevIEEE1588ClockAccuracyEnums > *`) –

GetEntry (`self, Value`) → `IEnumEntry`

Parameters Value (*enum Spinnaker::GevIEEE1588ClockAccuracyEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::GevIEEE1588ClockAccuracyEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::GevIEEE1588ClockAccuracyEnums*:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> *Spinnaker::GevIEEE1588ClockAccuracyEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT< GevIEEE1588ClockAccuracyEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevIEEE1588ClockAccuracyEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_GevIEEE1588ModeEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(GevIEEE1588ModeEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< GevIEEE1588ModeEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::GevIEEE1588ModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::GevIEEE1588ModeEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::GevIEEE1588ModeEnums*:

Parameters `Verify` (*bool*) –

:param `GetValue(self)` -> `Spinnaker::GevIEEE1588ModeEnums`:

Parameters `self` (`Spinnaker::GenApi::IEnumerationT<GevIEEE1588ModeEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevIEEE1588ModeEnums*) –
- **Verify** (*bool*) –
- **Value** (`SetValue(self,)`) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_GevIEEE1588StatusEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<GevIEEE1588StatusEnums>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry(self,)`) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry(self)`) –
- **self** (`Spinnaker::GenApi::IEnumerationT<GevIEEE1588StatusEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters `Value` (*enum Spinnaker::GevIEEE1588StatusEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::GevIEEE1588StatusEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::GevIEEE1588StatusEnums`:

Parameters `Verify` (*bool*) –

:param `GetValue(self)` -> `Spinnaker::GevIEEE1588StatusEnums`:

Parameters `self` (`Spinnaker::GenApi::IEnumerationT<GevIEEE1588StatusEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevIEEE1588StatusEnums*) –

- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_GevIPConfigurationStatusEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<GevIPConfigurationStatusEnums> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<GevIPConfigurationStatusEnums > **) –

GetEntry (*self, Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::GevIPConfigurationStatusEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → Spinnaker::GevIPConfigurationStatusEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> Spinnaker::GevIPConfigurationStatusEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::GevIPConfigurationStatusEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<GevIPConfigurationStatusEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevIPConfigurationStatusEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_GevPhysicalLinkConfigurationEnums (*args, **kwargs)
 Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GevPhysicalLinkConfigurationEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<GevPhysicalLinkConfigurationEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::GevPhysicalLinkConfigurationEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::GevPhysicalLinkConfigurationEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::GevPhysicalLinkConfigurationEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::GevPhysicalLinkConfigurationEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<GevPhysicalLinkConfigurationEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevPhysicalLinkConfigurationEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_GevSupportedOptionSelectorEnums (*args, **kwargs)
 Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(GevSupportedOptionSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<GevSupportedOptionSelectorEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::GevSupportedOptionSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::GevSupportedOptionSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::GevSupportedOptionSelectorEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::GevSupportedOptionSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<GevSupportedOptionSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::GevSupportedOptionSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_ImageComponentSelectorEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<ImageComponentSelectorEnums>** class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ImageComponentSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (enum Spinnaker::ImageComponentSelectorEnums
const) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ImageComponentSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::ImageComponentSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::ImageComponentSelectorEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<
ImageComponentSelectorEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (enum Spinnaker::ImageComponentSelectorEnums) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,)) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_ImageCompressionJPEGFormatOptionEnums (**args*,
***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<ImageCompressionJPEGFormatOptionEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) -> IEnumEntry (GetCurrentEntry (*self*,)) –
- **Verify** –
- -> IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<
ImageCompressionJPEGFormatOptionEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (enum Spinnaker::ImageCompressionJPEGFormatOptionEnums
const) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::ImageCompressionJPEGFormatOptionEnums

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ImageCompressionJPEGFormatOptionEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ImageCompressionJPEGFormatOptionEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<ImageCompressionJPEGFormatOptionEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ImageCompressionJPEGFormatOptionEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown
The membership flag

class PySpin.**IEnumerationT_ImageCompressionModeEnums** (**args, **kwargs*)
Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<ImageCompressionModeEnums> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ImageCompressionModeEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::ImageCompressionModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::ImageCompressionModeEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::ImageCompressionModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::ImageCompressionModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<ImageCompressionModeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ImageCompressionModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_ImageCompressionRateOptionEnums` (**args*, ***kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<ImageCompressionRateOptionEnums>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<ImageCompressionRateOptionEnums > **) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::ImageCompressionRateOptionEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::ImageCompressionRateOptionEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::ImageCompressionRateOptionEnums`:

Parameters Verify (*bool*) –

:param `GetValue(self)` -> `Spinnaker::ImageCompressionRateOptionEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT<ImageCompressionRateOptionEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::ImageCompressionRateOptionEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_LUTSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(LUTSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT< LUTSelectorEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::LUTSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::LUTSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) → `Spinnaker::LUTSelectorEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) → `Spinnaker::LUTSelectorEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT< LUTSelectorEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LUTSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_LineFormatEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(LineFormatEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< LineFormatEnums > **) –

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::LineFormatEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → **Spinnaker::LineFormatEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) → **Spinnaker::LineFormatEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::LineFormatEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT< LineFormatEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LineFormatEnums*) –
- **Verify** (*bool*) –
- **Value**) (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_LineInputFilterSelectorEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<LineInputFilterSelectorEnums>** class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< LineInputFilterSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::LineInputFilterSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::LineInputFilterSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::LineInputFilterSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::LineInputFilterSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< LineInputFilterSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LineInputFilterSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_LineModeEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<LineModeEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- -> **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< LineModeEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::LineModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::LineModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::LineModeEnums:

Parameters **Verify** (*bool*) -

:param GetValue(self) -> Spinnaker::LineModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< LineModeEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LineModeEnums*) -
- **Verify** (*bool*) -
- **Value** (*SetValue (self,)*) -
- **Value** -

thisown

The membership flag

class PySpin.**IEnumerationT_LineSelectorEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(LineSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -
- **Verify=False** → *IEnumEntry (GetCurrentEntry (self,))* -
- **Verify** -
- → *IEnumEntry (GetCurrentEntry (self))* -
- **self** (*Spinnaker::GenApi::IEnumerationT< LineSelectorEnums > **) -

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::LineSelectorEnums const*) -

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::LineSelectorEnums*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -

:param GetValue(self, Verify=False) -> Spinnaker::LineSelectorEnums:

Parameters **Verify** (*bool*) -

:param GetValue(self) -> Spinnaker::LineSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< LineSelectorEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LineSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_LineSourceEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(LineSourceEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< LineSourceEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::LineSourceEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::LineSourceEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::LineSourceEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::LineSourceEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< LineSourceEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LineSourceEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_LogicBlockLUTInputActivationEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<LogicBlockLUTInputActivationEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<LogicBlockLUTInputActivationEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (`enum Spinnaker::LogicBlockLUTInputActivationEnums` *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::LogicBlockLUTInputActivationEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::LogicBlockLUTInputActivationEnums`:

Parameters Verify (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::LogicBlockLUTInputActivationEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT<LogicBlockLUTInputActivationEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::LogicBlockLUTInputActivationEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_LogicBlockLUTInputSelectorEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<LogicBlockLUTInputSelectorEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<LogicBlockLUTInputSelectorEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::LogicBlockLUTInputSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::LogicBlockLUTInputSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::LogicBlockLUTInputSelectorEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::LogicBlockLUTInputSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<LogicBlockLUTInputSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LogicBlockLUTInputSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_LogicBlockLUTInputSourceEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<LogicBlockLUTInputSourceEnums>** class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<LogicBlockLUTInputSourceEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (enum Spinnaker::LogicBlockLUTInputSourceEnums
const) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::LogicBlockLUTInputSourceEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::LogicBlockLUTInputSourceEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::LogicBlockLUTInputSourceEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<
LogicBlockLUTInputSourceEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (enum Spinnaker::LogicBlockLUTInputSourceEnums) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,)) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_LogicBlockLUTSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<LogicBlockLUTSelectorEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** -> IEnumEntry (GetCurrentEntry (*self*,)) –
- **Verify** –
- -> IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<
LogicBlockLUTSelectorEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (enum Spinnaker::LogicBlockLUTSelectorEnums const)
–

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::LogicBlockLUTSelectorEnums

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::LogicBlockLUTSelectorEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::LogicBlockLUTSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<LogicBlockLUTSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LogicBlockLUTSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue(self,)*) –
- **Value** –

thisown
The membership flag

class PySpin.**IEnumerationT_LogicBlockSelectorEnums** (**args, **kwargs*)
Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(LogicBlockSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry(self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry(self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<LogicBlockSelectorEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::LogicBlockSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::LogicBlockSelectorEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::LogicBlockSelectorEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::LogicBlockSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<LogicBlockSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::LogicBlockSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_POEStatusEnum** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(POEStatusEnum)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< POEStatusEnum > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::POEStatusEnum const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::POEStatusEnum*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param *GetValue*(self, Verify=False) -> *Spinnaker::POEStatusEnum*:

Parameters Verify (*bool*) –

:param *GetValue*(self) -> *Spinnaker::POEStatusEnum*:

Parameters self (*Spinnaker::GenApi::IEnumerationT< POEStatusEnum > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::POEStatusEnum*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_PixelColorFilterEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<PixelColorFilterEnums>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<PixelColorFilterEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::PixelColorFilterEnums const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::PixelColorFilterEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) → `Spinnaker::PixelColorFilterEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) → `Spinnaker::PixelColorFilterEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<PixelColorFilterEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::PixelColorFilterEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_PixelFormatEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<PixelFormatEnums>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- -> **IEnumEntry** (`GetCurrentEntry (self)`)-
- **self** (`Spinnaker::GenApi::IEnumerationT< PixelFormatEnums > *`) -

GetEntry (`self, Value`) → **IEnumEntry**

Parameters Value (`enum Spinnaker::PixelFormatEnums const`)-

GetValue (`self, Verify=False, IgnoreCache=False`) → `Spinnaker::PixelFormatEnums`

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-

:param `GetValue(self, Verify=False)` -> `Spinnaker::PixelFormatEnums`:

Parameters Verify (`bool`)-

:param `GetValue(self)` -> `Spinnaker::PixelFormatEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT< PixelFormatEnums > *`)-

SetValue (`self, Value, Verify=True`)

Parameters

- **Value** (`enum Spinnaker::PixelFormatEnums`)-
- **Verify** (`bool`)-
- **Value**) (`SetValue (self,)`)-
- **Value** -

thisown

The membership flag

class `PySpin.IEnumerationT_PixelFormatInfoSelectorEnums` (`*args, **kwargs`)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(PixelFormatInfoSelectorEnums)>` class.

GetCurrentEntry (`self, Verify=False, IgnoreCache=False`) → **IEnumEntry**

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-
- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- -> **IEnumEntry** (`GetCurrentEntry (self)`)-
- **self** (`Spinnaker::GenApi::IEnumerationT< PixelFormatInfoSelectorEnums > *`)-

GetEntry (`self, Value`) → **IEnumEntry**

Parameters Value (*enum Spinnaker::PixelFormatInfoSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::PixelFormatInfoSelectorEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::PixelFormatInfoSelectorEnums*:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> *Spinnaker::PixelFormatInfoSelectorEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<PixelFormatInfoSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::PixelFormatInfoSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_PixelSizeEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<PixelSizeEnums>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< PixelSizeEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::PixelSizeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::PixelSizeEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::PixelSizeEnums*:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::PixelSizeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< PixelSizeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::PixelSizeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_RegionDestinationEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(RegionDestinationEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< RegionDestinationEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::RegionDestinationEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::RegionDestinationEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::RegionDestinationEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::RegionDestinationEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< RegionDestinationEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::RegionDestinationEnums*) –

- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_RegionModeEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(RegionModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< RegionModeEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::RegionModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::RegionModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::RegionModeEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::RegionModeEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< RegionModeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::RegionModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_RegionSelectorEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(RegionSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → IEnumEntry (GetCurrentEntry (*self*,) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT< RegionSelectorEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::RegionSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::RegionSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::RegionSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::RegionSelectorEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT< RegionSelectorEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::RegionSelectorEnums*) –
- **Verify** (*bool*) –
- **Value**) (SetValue (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_RgbTransformLightSourceEnums (*args, **kwargs)

Bases: PySpin.IEnumeration, PySpin.IEnumReference

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(RgbTransformLightSourceEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → IEnumEntry (GetCurrentEntry (*self*,) –
- **Verify** –

- `-> IEnumEntry (GetCurrentEntry (self))-`
- **self** (`Spinnaker::GenApi::IEnumerationT<RgbTransformLightSourceEnums > *`)-

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (`enum Spinnaker::RgbTransformLightSourceEnums const`)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::RgbTransformLightSourceEnums

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-

:param GetValue(*self*, *Verify=False*) -> Spinnaker::RgbTransformLightSourceEnums:

Parameters Verify (`bool`)-

:param GetValue(*self*) -> Spinnaker::RgbTransformLightSourceEnums:

Parameters self (`Spinnaker::GenApi::IEnumerationT<RgbTransformLightSourceEnums > *`)-

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::RgbTransformLightSourceEnums`)-
- **Verify** (`bool`)-
- **Value** (`SetValue (self,)`)-
- **Value** -

thisown

The membership flag

class `PySpin.IEnumerationT_Scan3dCoordinateReferenceSelectorEnums` (**args*, ***kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateReferenceSelectorEnums>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-
- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- `-> IEnumEntry (GetCurrentEntry (self))-`
- **self** (`Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateReferenceSelectorEnums > *`)-

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (`enum Spinnaker::Scan3dCoordinateReferenceSelectorEnums const`)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::Scan3dCoordinateReferenceSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::Scan3dCoordinateReferenceSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::Scan3dCoordinateReferenceSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateReferenceSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::Scan3dCoordinateReferenceSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_Scan3dCoordinateSelectorEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateSelectorEnums> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- -> **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::Scan3dCoordinateSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::Scan3dCoordinateSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::Scan3dCoordinateSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::Scan3dCoordinateSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< Scan3dCoordinateSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::Scan3dCoordinateSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_Scan3dCoordinateSystemEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(Scan3dCoordinateSystemEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< Scan3dCoordinateSystemEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::Scan3dCoordinateSystemEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::Scan3dCoordinateSystemEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::Scan3dCoordinateSystemEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::Scan3dCoordinateSystemEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< Scan3dCoordinateSystemEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::Scan3dCoordinateSystemEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_Scan3dCoordinateSystemReferenceEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration, PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateSystemReferenceEnums>` class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry (GetCurrentEntry (self,))` –
- **Verify** –
- → `IEnumEntry (GetCurrentEntry (self))` –
- **self** (*Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateSystemReferenceEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::Scan3dCoordinateSystemReferenceEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::Scan3dCoordinateSystemReferenceEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::Scan3dCoordinateSystemReferenceEnums:`

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::Scan3dCoordinateSystemReferenceEnums:`

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateSystemReferenceEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::Scan3dCoordinateSystemReferenceEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

```
class PySpin.IEnumerationT_Scan3dCoordinateTransformSelectorEnums (*args,
                                                                    **kwargs)
```

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(Scan3dCoordinateTransformSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → IEnumEntry (GetCurrentEntry (*self*,) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateTransformSelectorEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::Scan3dCoordinateTransformSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::Scan3dCoordinateTransformSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → Spinnaker::Scan3dCoordinateTransformSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) → Spinnaker::Scan3dCoordinateTransformSelectorEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<Scan3dCoordinateTransformSelectorEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::Scan3dCoordinateTransformSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (SetValue (*self*,) –
- **Value** –

thisown

The membership flag

```
class PySpin.IEnumerationT_Scan3dDistanceUnitEnums (*args, **kwargs)
```

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(Scan3dDistanceUnitEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<Scan3dDistanceUnitEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters **Value** (*enum Spinnaker::Scan3dDistanceUnitEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::Scan3dDistanceUnitEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param **GetValue**(*self*, *Verify=False*) → **Spinnaker::Scan3dDistanceUnitEnums**:

Parameters **Verify** (*bool*) –

:param **GetValue**(*self*) → **Spinnaker::Scan3dDistanceUnitEnums**:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<Scan3dDistanceUnitEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::Scan3dDistanceUnitEnums*) –
- **Verify** (*bool*) –
- **Value**) (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_Scan3dOutputModeEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(Scan3dOutputModeEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<Scan3dOutputModeEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters **Value** (*enum Spinnaker::Scan3dOutputModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::Scan3dOutputModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::Scan3dOutputModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(*self*) -> Spinnaker::Scan3dOutputModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< Scan3dOutputModeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::Scan3dOutputModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_SensorDigitizationTapsEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SensorDigitizationTapsEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- -> **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< SensorDigitizationTapsEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters **Value** (*enum Spinnaker::SensorDigitizationTapsEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::SensorDigitizationTapsEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::SensorDigitizationTapsEnums:

Parameters **Verify** (*bool*) -

:param GetValue(self) -> Spinnaker::SensorDigitizationTapsEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<SensorDigitizationTapsEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SensorDigitizationTapsEnums*) -
- **Verify** (*bool*) -
- **Value** (*SetValue (self,)*) -
- **Value** -

thisown

The membership flag

class PySpin.**IEnumerationT_SensorShutterModeEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SensorShutterModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -
- **Verify=False** → *IEnumEntry (GetCurrentEntry (self,))* -
- **Verify** -
- → *IEnumEntry (GetCurrentEntry (self))* -
- **self** (*Spinnaker::GenApi::IEnumerationT<SensorShutterModeEnums > **) -

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::SensorShutterModeEnums const*) -

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::SensorShutterModeEnums*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -

:param GetValue(self, Verify=False) -> Spinnaker::SensorShutterModeEnums:

Parameters **Verify** (*bool*) -

:param GetValue(self) -> Spinnaker::SensorShutterModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<SensorShutterModeEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SensorShutterModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_SensorTapsEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SensorTapsEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< SensorTapsEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::SensorTapsEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::SensorTapsEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::SensorTapsEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::SensorTapsEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< SensorTapsEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SensorTapsEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_SequencerConfigurationModeEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(SequencerConfigurationModeEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<SequencerConfigurationModeEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (`enum Spinnaker::SequencerConfigurationModeEnums` *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::SequencerConfigurationModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::SequencerConfigurationModeEnums`:

Parameters Verify (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::SequencerConfigurationModeEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT<SequencerConfigurationModeEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::SequencerConfigurationModeEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_SequencerConfigurationValidEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(SequencerConfigurationValidEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< SequencerConfigurationValidEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::SequencerConfigurationValidEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::SequencerConfigurationValidEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::SequencerConfigurationValidEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::SequencerConfigurationValidEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT< SequencerConfigurationValidEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SequencerConfigurationValidEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_SequencerFeatureSelectorEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<(SequencerFeatureSelectorEnums)>** class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< SequencerFeatureSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::SequencerFeatureSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::SequencerFeatureSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::SequencerFeatureSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::SequencerFeatureSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< SequencerFeatureSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SequencerFeatureSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_SequencerModeEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SequencerModeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- -> **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< SequencerModeEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::SequencerModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::SequencerModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

```

:param GetValue(self, Verify=False) -> Spinnaker::SequencerModeEnums:
    Parameters Verify (bool) -
:param GetValue(self) -> Spinnaker::SequencerModeEnums:
    Parameters self (Spinnaker::GenApi::IEnumerationT<
        SequencerModeEnums > *) -
SetValue (self, Value, Verify=True)
    Parameters
        • Value (enum Spinnaker::SequencerModeEnums) -
        • Verify (bool) -
        • Value (SetValue (self,)) -
        • Value -
thisown
    The membership flag
class PySpin.IEnumerationT_SequencerSetValidEnums (*args, **kwargs)
    Bases: PySpin.IEnumeration, PySpin.IEnumReference
    Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SequencerSetValidEnums)> class.
GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry
    Parameters
        • Verify (bool) -
        • IgnoreCache (bool) -
        • Verify=False → IEnumEntry (GetCurrentEntry (self,)) -
        • Verify -
        • → IEnumEntry (GetCurrentEntry (self)) -
        • self (Spinnaker::GenApi::IEnumerationT<
            SequencerSetValidEnums > *) -
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::SequencerSetValidEnums const) -
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::SequencerSetValidEnums
    Parameters
        • Verify (bool) -
        • IgnoreCache (bool) -
:param GetValue(self, Verify=False) -> Spinnaker::SequencerSetValidEnums:
    Parameters Verify (bool) -
:param GetValue(self) -> Spinnaker::SequencerSetValidEnums:
    Parameters self (Spinnaker::GenApi::IEnumerationT<
        SequencerSetValidEnums > *) -
SetValue (self, Value, Verify=True)
    Parameters

```

- **Value** (*enum Spinnaker::SequencerSetValidEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_SequencerTriggerActivationEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SequencerTriggerActivationEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<SequencerTriggerActivationEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::SequencerTriggerActivationEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::SequencerTriggerActivationEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::SequencerTriggerActivationEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self)` -> `Spinnaker::SequencerTriggerActivationEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<SequencerTriggerActivationEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SequencerTriggerActivationEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_SequencerTriggerSourceEnums` (*args, **kwargs)
Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(SequencerTriggerSourceEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<SequencerTriggerSourceEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (`enum Spinnaker::SequencerTriggerSourceEnums` *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::SequencerTriggerSourceEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::SequencerTriggerSourceEnums`:

Parameters Verify (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::SequencerTriggerSourceEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT<SequencerTriggerSourceEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::SequencerTriggerSourceEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_SerialPortBaudRateEnums` (*args, **kwargs)
Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(SerialPortBaudRateEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<SerialPortBaudRateEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::SerialPortBaudRateEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::SerialPortBaudRateEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) → **Spinnaker::SerialPortBaudRateEnums**:

Parameters Verify (*bool*) –

:param GetValue(*self*) → **Spinnaker::SerialPortBaudRateEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<SerialPortBaudRateEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SerialPortBaudRateEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_SerialPortParityEnums** (**args*, ***kwargs*)
 Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(SerialPortParityEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<SerialPortParityEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

```

    Parameters Value (enum Spinnaker::SerialPortParityEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::SerialPortParityEnums
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
    :param GetValue(self, Verify=False) -> Spinnaker::SerialPortParityEnums:
    Parameters Verify (bool)-
    :param GetValue(self) -> Spinnaker::SerialPortParityEnums:
    Parameters self (Spinnaker::GenApi::IEnumerationT<
        SerialPortParityEnums > *)-
SetValue (self, Value, Verify=True)
    Parameters
        • Value (enum Spinnaker::SerialPortParityEnums)-
        • Verify (bool)-
        • Value (SetValue (self,))-
        • Value -

thisown
    The membership flag

class PySpin.IEnumerationT_SerialPortSelectorEnums (*args, **kwargs)
    Bases: PySpin.IEnumeration, PySpin.IEnumReference
    Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SerialPortSelectorEnums)> class.
GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
        • Verify=False -> IEnumEntry (GetCurrentEntry (self,))-
        • Verify -
        • -> IEnumEntry (GetCurrentEntry (self))-
        • self (Spinnaker::GenApi::IEnumerationT<
            SerialPortSelectorEnums > *)-
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::SerialPortSelectorEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::SerialPortSelectorEnums
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
    :param GetValue(self, Verify=False) -> Spinnaker::SerialPortSelectorEnums:

```

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::SerialPortSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<SerialPortSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SerialPortSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_SerialPortSourceEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SerialPortSourceEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<SerialPortSourceEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::SerialPortSourceEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::SerialPortSourceEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::SerialPortSourceEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::SerialPortSourceEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<SerialPortSourceEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SerialPortSourceEnums*) –

- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_SerialPortStopBitsEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SerialPortStopBitsEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (`Spinnaker::GenApi::IEnumerationT<SerialPortStopBitsEnums > *`) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::SerialPortStopBitsEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::SerialPortStopBitsEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::SerialPortStopBitsEnums:`

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::SerialPortStopBitsEnums:`

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<SerialPortStopBitsEnums > *`) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SerialPortStopBitsEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_SoftwareSignalSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SoftwareSignalSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<SoftwareSignalSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::SoftwareSignalSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::SoftwareSignalSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::SoftwareSignalSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::SoftwareSignalSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<SoftwareSignalSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SoftwareSignalSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_SourceSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(SourceSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< SourceSelectorEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::SourceSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::SourceSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param **GetValue**(*self*, *Verify=False*) → **Spinnaker::SourceSelectorEnums**:

Parameters Verify (*bool*) –

:param **GetValue**(*self*) → **Spinnaker::SourceSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT< SourceSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::SourceSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_StreamBufferHandlingModeEnum** (**args*, ***kwargs*)
 Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ **Spinnaker::GenApi::IEnumerationT<(StreamBufferHandlingModeEnum)>** class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< StreamBufferHandlingModeEnum > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::StreamBufferHandlingModeEnum const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::StreamBufferHandlingModeEnum*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::StreamBufferHandlingModeEnum*:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> *Spinnaker::StreamBufferHandlingModeEnum*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<StreamBufferHandlingModeEnum > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::StreamBufferHandlingModeEnum*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_StreamDefaultBufferCountModeEnum* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(StreamDefaultBufferCountModeEnum)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<StreamDefaultBufferCountModeEnum > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::StreamDefaultBufferCountModeEnum const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::StreamDefaultBufferCountModeEnum*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::StreamDefaultBufferCountModeEnum:

Parameters **Verify** (*bool*) -

:param GetValue(self) -> Spinnaker::StreamDefaultBufferCountModeEnum:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< StreamDefaultBufferCountModeEnum > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::StreamDefaultBufferCountModeEnum*) -
- **Verify** (*bool*) -
- **Value** (*SetValue (self,)*) -
- **Value** -

thisown

The membership flag

class PySpin.IEnumerationT_StreamTypeEnum (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(StreamTypeEnum)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*) -
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*) -
- **self** (*Spinnaker::GenApi::IEnumerationT< StreamTypeEnum > **) -

GetEntry (*self, Value*) → IEnumEntry

Parameters **Value** (*enum Spinnaker::StreamTypeEnum const*) -

GetValue (*self, Verify=False, IgnoreCache=False*) → Spinnaker::StreamTypeEnum

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -

:param GetValue(self, Verify=False) -> Spinnaker::StreamTypeEnum:

Parameters **Verify** (*bool*) -

:param GetValue(self) -> Spinnaker::StreamTypeEnum:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< StreamTypeEnum > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::StreamTypeEnum*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_TestPatternEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TestPatternEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< TestPatternEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::TestPatternEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::TestPatternEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::TestPatternEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::TestPatternEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< TestPatternEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TestPatternEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_TestPatternGeneratorSelectorEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(TestPatternGeneratorSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*),) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<TestPatternGeneratorSelectorEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters Value (`enum Spinnaker::TestPatternGeneratorSelectorEnums` *const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::TestPatternGeneratorSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::TestPatternGeneratorSelectorEnums`:

Parameters Verify (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::TestPatternGeneratorSelectorEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT<TestPatternGeneratorSelectorEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::TestPatternGeneratorSelectorEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*),) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_TimerSelectorEnums` (*args, **kwargs)
 Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(TimerSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –

- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< TimerSelectorEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::TimerSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → **Spinnaker::TimerSelectorEnums**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param **GetValue**(*self*, *Verify=False*) → **Spinnaker::TimerSelectorEnums**:

Parameters Verify (*bool*) –

:param **GetValue**(*self*) → **Spinnaker::TimerSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT< TimerSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TimerSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class **PySpin.IEnumerationT_TimerStatusEnums** (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(TimerStatusEnums)>* class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< TimerStatusEnums > **) –

GetEntry (*self*, *Value*) → **IEnumEntry**

```

    Parameters Value (enum Spinnaker::TimerStatusEnums const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::TimerStatusEnums
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
    :param GetValue(self, Verify=False) -> Spinnaker::TimerStatusEnums:
    Parameters Verify (bool)-
    :param GetValue(self) -> Spinnaker::TimerStatusEnums:
    Parameters self (Spinnaker::GenApi::IEnumerationT< TimerStatusEnums
        > *)-
SetValue (self, Value, Verify=True)
    Parameters
        • Value (enum Spinnaker::TimerStatusEnums)-
        • Verify (bool)-
        • Value (SetValue (self,))-
        • Value -
thisown
    The membership flag
class PySpin.IEnumerationT_TimerTriggerActivationEnums (*args, **kwargs)
    Bases: PySpin.IEnumeration, PySpin.IEnumReference
    Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TimerTriggerActivationEnums)> class.
GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
        • Verify=False -> IEnumEntry (GetCurrentEntry (self,))-
        • Verify -
        • -> IEnumEntry (GetCurrentEntry (self))-
        • self (Spinnaker::GenApi::IEnumerationT<
            TimerTriggerActivationEnums > *)-
GetEntry (self, Value) → IEnumEntry
    Parameters Value (enum Spinnaker::TimerTriggerActivationEnums
        const)-
GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::TimerTriggerActivationEnums
    Parameters
        • Verify (bool)-
        • IgnoreCache (bool)-
    :param GetValue(self, Verify=False) -> Spinnaker::TimerTriggerActivationEnums:

```

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::TimerTriggerActivationEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<TimerTriggerActivationEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TimerTriggerActivationEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_TimerTriggerSourceEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TimerTriggerSourceEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<TimerTriggerSourceEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::TimerTriggerSourceEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::TimerTriggerSourceEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::TimerTriggerSourceEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::TimerTriggerSourceEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<TimerTriggerSourceEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TimerTriggerSourceEnums*) –

- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_TransferComponentSelectorEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TransferComponentSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferComponentSelectorEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters Value (*enum Spinnaker::TransferComponentSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::TransferComponentSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::TransferComponentSelectorEnums`:

Parameters Verify (*bool*) –

:param `GetValue(self)` -> `Spinnaker::TransferComponentSelectorEnums`:

Parameters self (*Spinnaker::GenApi::IEnumerationT<TransferComponentSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferComponentSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_TransferControlModeEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TransferControlModeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferControlModeEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::TransferControlModeEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::TransferControlModeEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::TransferControlModeEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::TransferControlModeEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT<TransferControlModeEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferControlModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_TransferOperationModeEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TransferOperationModeEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferOperationModeEnums > **)-

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::TransferOperationModeEnums const*)
-

GetValue (*self, Verify=False, IgnoreCache=False*) → **Spinnaker::TransferOperationModeEnums**

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self, Verify=False*) -> **Spinnaker::TransferOperationModeEnums**:

Parameters Verify (*bool*)-

:param GetValue(*self*) -> **Spinnaker::TransferOperationModeEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<TransferOperationModeEnums > **)-

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferOperationModeEnums*)-
- **Verify** (*bool*)-
- **Value** (*SetValue (self,)*)-
- **Value** -

thisown

The membership flag

class **PySpin.IEnumerationT_TransferQueueModeEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TransferQueueModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False** -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferQueueModeEnums > **)-

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::TransferQueueModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::TransferQueueModeEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::TransferQueueModeEnums*:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> *Spinnaker::TransferQueueModeEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<TransferQueueModeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferQueueModeEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class *PySpin.IEnumerationT_TransferSelectorEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(TransferSelectorEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → *IEnumEntry* (*GetCurrentEntry (self,)*) –
- **Verify** –
- → *IEnumEntry* (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferSelectorEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::TransferSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::TransferSelectorEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self, Verify=False*) -> *Spinnaker::TransferSelectorEnums*:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::TransferSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<TransferSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_TransferStatusSelectorEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TransferStatusSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferStatusSelectorEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::TransferStatusSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::TransferStatusSelectorEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::TransferStatusSelectorEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::TransferStatusSelectorEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<TransferStatusSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferStatusSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_TransferTriggerActivationEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TransferTriggerActivationEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferTriggerActivationEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::TransferTriggerActivationEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::TransferTriggerActivationEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::TransferTriggerActivationEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self)` -> `Spinnaker::TransferTriggerActivationEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<TransferTriggerActivationEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferTriggerActivationEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_TransferTriggerModeEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(TransferTriggerModeEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT<TransferTriggerModeEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::TransferTriggerModeEnums const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::TransferTriggerModeEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) → `Spinnaker::TransferTriggerModeEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) → `Spinnaker::TransferTriggerModeEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT<TransferTriggerModeEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::TransferTriggerModeEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_TransferTriggerSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(TransferTriggerSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False**) -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferTriggerSelectorEnums > **)-

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::TransferTriggerSelectorEnums const*)-

GetValue (*self, Verify=False, IgnoreCache=False*) → **Spinnaker::TransferTriggerSelectorEnums**

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self, Verify=False*) -> **Spinnaker::TransferTriggerSelectorEnums**:

Parameters Verify (*bool*)-

:param GetValue(*self*) -> **Spinnaker::TransferTriggerSelectorEnums**:

Parameters self (*Spinnaker::GenApi::IEnumerationT<TransferTriggerSelectorEnums > **)-

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferTriggerSelectorEnums*)-
- **Verify** (*bool*)-
- **Value**) (*SetValue (self,)*)-
- **Value** -

thisown

The membership flag

class **PySpin.IEnumerationT_TransferTriggerSourceEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TransferTriggerSourceEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → **IEnumEntry**

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False**) -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (*Spinnaker::GenApi::IEnumerationT<TransferTriggerSourceEnums > **)-

GetEntry (*self, Value*) → **IEnumEntry**

Parameters Value (*enum Spinnaker::TransferTriggerSourceEnums const*)

-

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::TransferTriggerSourceEnums*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -

:param GetValue(*self, Verify=False*) -> *Spinnaker::TransferTriggerSourceEnums*:

Parameters Verify (*bool*) -

:param GetValue(*self*) -> *Spinnaker::TransferTriggerSourceEnums*:

Parameters self (*Spinnaker::GenApi::IEnumerationT<TransferTriggerSourceEnums > **) -

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TransferTriggerSourceEnums*) -
- **Verify** (*bool*) -
- **Value** (*SetValue (self,)*) -
- **Value** -

thisown

The membership flag

class *PySpin.IEnumerationT_TriggerActivationEnums* (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ *Spinnaker::GenApi::IEnumerationT<(TriggerActivationEnums)>* class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) -
- **Verify** -
- → **IEnumEntry** (*GetCurrentEntry (self)*) -
- **self** (*Spinnaker::GenApi::IEnumerationT<TriggerActivationEnums > **) -

GetEntry (*self, Value*) → *IEnumEntry*

Parameters Value (*enum Spinnaker::TriggerActivationEnums const*) -

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::TriggerActivationEnums*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -

:param GetValue(*self, Verify=False*) -> *Spinnaker::TriggerActivationEnums*:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::TriggerActivationEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< TriggerActivationEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TriggerActivationEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.**IEnumerationT_TriggerModeEnums** (**args, **kwargs*)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TriggerModeEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → *IEnumEntry*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry (self,)*) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< TriggerModeEnums > **) –

GetEntry (*self, Value*) → *IEnumEntry*

Parameters **Value** (*enum Spinnaker::TriggerModeEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → *Spinnaker::TriggerModeEnums*

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(self, Verify=False) -> Spinnaker::TriggerModeEnums:

Parameters **Verify** (*bool*) –

:param GetValue(self) -> Spinnaker::TriggerModeEnums:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< TriggerModeEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TriggerModeEnums*) –

- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_TriggerOverlapEnums` (**args, **kwargs*)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TriggerOverlapEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT< TriggerOverlapEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::TriggerOverlapEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::TriggerOverlapEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False) -> Spinnaker::TriggerOverlapEnums:`

Parameters **Verify** (*bool*) –

:param `GetValue(self) -> Spinnaker::TriggerOverlapEnums:`

Parameters **self** (*Spinnaker::GenApi::IEnumerationT< TriggerOverlapEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TriggerOverlapEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_TriggerSelectorEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TriggerSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **IEnumEntry** (*GetCurrentEntry* (*self*,) –
- **Verify** –
- → **IEnumEntry** (*GetCurrentEntry* (*self*)) –
- **self** (*Spinnaker::GenApi::IEnumerationT< TriggerSelectorEnums > **) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::TriggerSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::TriggerSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::TriggerSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::TriggerSelectorEnums:

Parameters self (*Spinnaker::GenApi::IEnumerationT< TriggerSelectorEnums > **) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::TriggerSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_TriggerSourceEnums (*args, **kwargs)

Bases: *PySpin.IEnumeration, PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(TriggerSourceEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- -> **IEnumEntry** (`GetCurrentEntry (self)`)-
- **self** (`Spinnaker::GenApi::IEnumerationT< TriggerSourceEnums > *`)-

GetEntry (`self, Value`) → **IEnumEntry**

Parameters Value (`enum Spinnaker::TriggerSourceEnums const`)-

GetValue (`self, Verify=False, IgnoreCache=False`) → `Spinnaker::TriggerSourceEnums`

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-

:param `GetValue(self, Verify=False)` -> `Spinnaker::TriggerSourceEnums`:

Parameters Verify (`bool`)-

:param `GetValue(self)` -> `Spinnaker::TriggerSourceEnums`:

Parameters self (`Spinnaker::GenApi::IEnumerationT< TriggerSourceEnums > *`)-

SetValue (`self, Value, Verify=True`)

Parameters

- **Value** (`enum Spinnaker::TriggerSourceEnums`)-
- **Verify** (`bool`)-
- **Value**) (`SetValue (self,)`)-
- **Value** -

thisown

The membership flag

class `PySpin.IEnumerationT_U3VCurrentSpeedEnums` (`*args, **kwargs`)

Bases: `PySpin.IEnumeration, PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(U3VCurrentSpeedEnums)>` class.

GetCurrentEntry (`self, Verify=False, IgnoreCache=False`) → **IEnumEntry**

Parameters

- **Verify** (`bool`)-
- **IgnoreCache** (`bool`)-
- **Verify=False**) -> **IEnumEntry** (`GetCurrentEntry (self,)`)-
- **Verify** -
- -> **IEnumEntry** (`GetCurrentEntry (self)`)-
- **self** (`Spinnaker::GenApi::IEnumerationT< U3VCurrentSpeedEnums > *`)-

GetEntry (`self, Value`) → **IEnumEntry**

Parameters Value (`enum Spinnaker::U3VCurrentSpeedEnums const`)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::U3VCurrentSpeedEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::U3VCurrentSpeedEnums:

Parameters Verify (*bool*) –

:param GetValue(*self*) -> Spinnaker::U3VCurrentSpeedEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT<U3VCurrentSpeedEnums > *) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*enum Spinnaker::U3VCurrentSpeedEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,)) –
- **Value** –

thisown

The membership flag

class PySpin.IEnumerationT_UserOutputSelectorEnums (**args*, ***kwargs*)

Bases: *PySpin.IEnumeration*, *PySpin.IEnumReference*

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(UserOutputSelectorEnums)> class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → IEnumEntry

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False**) → IEnumEntry (GetCurrentEntry (*self*,)) –
- **Verify** –
- → IEnumEntry (GetCurrentEntry (*self*)) –
- **self** (Spinnaker::GenApi::IEnumerationT<UserOutputSelectorEnums > *) –

GetEntry (*self*, *Value*) → IEnumEntry

Parameters Value (*enum Spinnaker::UserOutputSelectorEnums const*) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → Spinnaker::UserOutputSelectorEnums

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param GetValue(*self*, *Verify=False*) -> Spinnaker::UserOutputSelectorEnums:

Parameters Verify (*bool*) –

:param GetValue(self) -> Spinnaker::UserOutputSelectorEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT< UserOutputSelectorEnums > *)-

SetValue (self, Value, Verify=True)

Parameters

- **Value** (enum Spinnaker::UserOutputSelectorEnums)-
- **Verify** (bool)-
- **Value** (SetValue (self,))-
- **Value** -

thisown

The membership flag

class PySpin.IEnumerationT_UserSetDefaultEnums (*args, **kwargs)

Bases: PySpin.IEnumeration, PySpin.IEnumReference

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(UserSetDefaultEnums)> class.

GetCurrentEntry (self, Verify=False, IgnoreCache=False) → IEnumEntry

Parameters

- **Verify** (bool)-
- **IgnoreCache** (bool)-
- **Verify=False** -> IEnumEntry (GetCurrentEntry (self,))-
- **Verify** -
- -> IEnumEntry (GetCurrentEntry (self))-
- **self** (Spinnaker::GenApi::IEnumerationT< UserSetDefaultEnums > *)-

GetEntry (self, Value) → IEnumEntry

Parameters Value (enum Spinnaker::UserSetDefaultEnums const)-

GetValue (self, Verify=False, IgnoreCache=False) → Spinnaker::UserSetDefaultEnums

Parameters

- **Verify** (bool)-
- **IgnoreCache** (bool)-

:param GetValue(self, Verify=False) -> Spinnaker::UserSetDefaultEnums:

Parameters Verify (bool)-

:param GetValue(self) -> Spinnaker::UserSetDefaultEnums:

Parameters self (Spinnaker::GenApi::IEnumerationT< UserSetDefaultEnums > *)-

SetValue (self, Value, Verify=True)

Parameters

- **Value** (enum Spinnaker::UserSetDefaultEnums)-
- **Verify** (bool)-

- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_UserSetFeatureSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ Spinnaker::GenApi::IEnumerationT<(UserSetFeatureSelectorEnums)> class.

GetCurrentEntry (*self, Verify=False, IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (*GetCurrentEntry (self,)*) –
- **Verify** –
- → `IEnumEntry` (*GetCurrentEntry (self)*) –
- **self** (*Spinnaker::GenApi::IEnumerationT<UserSetFeatureSelectorEnums > **) –

GetEntry (*self, Value*) → `IEnumEntry`

Parameters **Value** (*enum Spinnaker::UserSetFeatureSelectorEnums const*) –

GetValue (*self, Verify=False, IgnoreCache=False*) → `Spinnaker::UserSetFeatureSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue(self, Verify=False)` -> `Spinnaker::UserSetFeatureSelectorEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue(self)` -> `Spinnaker::UserSetFeatureSelectorEnums`:

Parameters **self** (*Spinnaker::GenApi::IEnumerationT<UserSetFeatureSelectorEnums > **) –

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::UserSetFeatureSelectorEnums*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_UserSetSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(UserSetSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → `IEnumEntry` (`GetCurrentEntry` (*self*,) –
- **Verify** –
- → `IEnumEntry` (`GetCurrentEntry` (*self*)) –
- **self** (`Spinnaker::GenApi::IEnumerationT< UserSetSelectorEnums > *`) –

GetEntry (*self*, *Value*) → `IEnumEntry`

Parameters **Value** (`enum Spinnaker::UserSetSelectorEnums const`) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → `Spinnaker::UserSetSelectorEnums`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

:param `GetValue`(*self*, *Verify=False*) -> `Spinnaker::UserSetSelectorEnums`:

Parameters **Verify** (*bool*) –

:param `GetValue`(*self*) -> `Spinnaker::UserSetSelectorEnums`:

Parameters **self** (`Spinnaker::GenApi::IEnumerationT< UserSetSelectorEnums > *`) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (`enum Spinnaker::UserSetSelectorEnums`) –
- **Verify** (*bool*) –
- **Value** (`SetValue` (*self*,) –
- **Value** –

thisown

The membership flag

class `PySpin.IEnumerationT_WhiteClipSelectorEnums` (*args, **kwargs)

Bases: `PySpin.IEnumeration`, `PySpin.IEnumReference`

Proxy of C++ `Spinnaker::GenApi::IEnumerationT<(WhiteClipSelectorEnums)>` class.

GetCurrentEntry (*self*, *Verify=False*, *IgnoreCache=False*) → `IEnumEntry`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –

- **Verify=False**) -> **IEnumEntry** (*GetCurrentEntry (self,)*)-
- **Verify** -
- -> **IEnumEntry** (*GetCurrentEntry (self)*)-
- **self** (Spinnaker::GenApi::IEnumerationT<WhiteClipSelectorEnums > *)-

GetEntry (*self, Value*) -> **IEnumEntry**

Parameters Value (*enum Spinnaker::WhiteClipSelectorEnums const*)-

GetValue (*self, Verify=False, IgnoreCache=False*) -> **Spinnaker::WhiteClipSelectorEnums**

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self, Verify=False*) -> **Spinnaker::WhiteClipSelectorEnums**:

Parameters Verify (*bool*)-

:param GetValue(*self*) -> **Spinnaker::WhiteClipSelectorEnums**:

Parameters self (Spinnaker::GenApi::IEnumerationT<WhiteClipSelectorEnums > *)-

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*enum Spinnaker::WhiteClipSelectorEnums*)-
- **Verify** (*bool*)-
- **Value**) (*SetValue (self,)*)-
- **Value** -

thisown

The membership flag

class **PySpin.IFloat** (*args, **kwargs)

Bases: *PySpin.IValue*

Proxy of C++ Spinnaker::GenApi::IFloat class.

GetDisplayNotation (*self*) -> **Spinnaker::GenApi::EDisplayNotation**

Parameters self (*Spinnaker::GenApi::IFloat const **)-

GetDisplayPrecision (*self*) -> **int64_t**

Parameters self (*Spinnaker::GenApi::IFloat const **)-

GetInc (*self*) -> **double**

Parameters self (*Spinnaker::GenApi::IFloat **)-

GetIncMode (*self*) -> **Spinnaker::GenApi::EIncMode**

Parameters self (*Spinnaker::GenApi::IFloat **)-

GetListOfValidValues (*self, bounded=True*) -> **double_autovector_t**

Parameters

- **bounded** (*bool*) –
- **-> double_autovector_t** (*GetListOfValidValues (self)*) –
- **self** (*Spinnaker::GenApi::IFloat **) –

GetMax (*self*) → double

Parameters **self** (*Spinnaker::GenApi::IFloat **) –

GetMin (*self*) → double

Parameters **self** (*Spinnaker::GenApi::IFloat **) –

GetRepresentation (*self*) → *Spinnaker::GenApi::ERepresentation*

Parameters **self** (*Spinnaker::GenApi::IFloat **) –

GetUnit (*self*) → *gcstring*

Parameters **self** (*Spinnaker::GenApi::IFloat const **) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → double

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** **-> double** (*GetValue (self,)*) –
- **Verify** –
- **-> double** (*GetValue (self)*) –
- **self** (*Spinnaker::GenApi::IFloat **) –

HasInc (*self*) → *bool*

Parameters **self** (*Spinnaker::GenApi::IFloat **) –

ImposeMax (*self*, *Value*)

Parameters **Value** (*double*) –

ImposeMin (*self*, *Value*)

Parameters **Value** (*double*) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*double*) –
- **Verify** (*bool*) –
- **Value** (*SetValue (self,)*) –
- **Value** –

thisown

The membership flag

class *PySpin.IImage* (**args*, ***kwargs*)

Bases: *object*

Proxy of C++ *Spinnaker::IImage* class.

CalculateStatistics (*self*, *pStatistics*)

Parameters `pStatistics` (`Spinnaker::ImageStatistics &`)–

CheckCRC (`self`) → `bool`

Parameters `self` (`Spinnaker::IImage const *`)–

Convert (`self, format, algorithm`) → `ImagePtr`

Parameters

- **format** (`enum Spinnaker::PixelFormatEnums`)–
- **algorithm** (`enum Spinnaker::ColorProcessingAlgorithm`)–
- **format** → `ImagePtr` (`Convert (self,)`)–
- **format** –

DeepCopy (`self, pSrcImage`)

Parameters `pSrcImage` (`Spinnaker::ImagePtr const`)–

GetBitsPerPixel (`self`) → `size_t`

Parameters `self` (`Spinnaker::IImage const *`)–

GetBufferSize (`self`) → `size_t`

Parameters `self` (`Spinnaker::IImage const *`)–

GetChunkData (`self`) → `ChunkData`

Parameters `self` (`Spinnaker::IImage const *`)–

GetChunkLayoutId (`self`) → `uint64_t`

Parameters `self` (`Spinnaker::IImage const *`)–

GetColorProcessing (`self`) → `Spinnaker::ColorProcessingAlgorithm`

Parameters `self` (`Spinnaker::IImage const *`)–

GetData (`self`)
 GetData(`self`) → `PyObject *`

Parameters `self` (`Spinnaker::IImage *`)–

GetFrameID (`self`) → `uint64_t`

Parameters `self` (`Spinnaker::IImage const *`)–

GetHeight (`self`) → `size_t`

Parameters `self` (`Spinnaker::IImage const *`)–

GetID (`self`) → `uint64_t`

Parameters `self` (`Spinnaker::IImage const *`)–

GetImageSize (`self`) → `size_t`

Parameters `self` (`Spinnaker::IImage const *`)–

GetImageStatus (`self`) → `Spinnaker::ImageStatus`

Parameters `self` (`Spinnaker::IImage const *`)–

GetNDArray (`self`) → `PyObject *`

Parameters `self` (`Spinnaker::IImage *`)–

GetNumChannels (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

GetPayloadType (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

GetPixelFormat (*self*) → Spinnaker::PixelFormatEnums
Parameters **self** (*Spinnaker::IImage const **) –

GetPixelFormatIntType (*self*) → Spinnaker::PixelFormatIntType
Parameters **self** (*Spinnaker::IImage const **) –

GetPixelFormatName (*self*) → gcstring
Parameters **self** (*Spinnaker::IImage const **) –

GetPrivateData (*self*) → void *
Parameters **self** (*Spinnaker::IImage const **) –

GetStride (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

GetTLPayloadType (*self*) → Spinnaker::PayloadTypeInfoIDs
Parameters **self** (*Spinnaker::IImage const **) –

GetTLPixelFormat (*self*) → uint64_t
Parameters **self** (*Spinnaker::IImage const **) –

GetTLPixelFormatNamespace (*self*) → Spinnaker::PixelFormatNamespaceID
Parameters **self** (*Spinnaker::IImage const **) –

GetTimeStamp (*self*) → uint64_t
Parameters **self** (*Spinnaker::IImage const **) –

GetValidPayloadSize (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

GetWidth (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

GetXOffset (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

GetXPadding (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

GetYOffset (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

GetYPadding (*self*) → size_t
Parameters **self** (*Spinnaker::IImage const **) –

HasCRC (*self*) → bool
Parameters **self** (*Spinnaker::IImage const **) –

IsInUse (*self*) → bool

Parameters **self** (*Spinnaker::IImage **) -

IsIncomplete (*self*) → bool

Parameters **self** (*Spinnaker::IImage const **) -

Release (*self*)

Parameters **self** (*Spinnaker::IImage **) -

ResetImage (*self, width, height, offsetX, offsetY, pixelFormat*)

Parameters

- **width** (*size_t*) -
- **height** (*size_t*) -
- **offsetX** (*size_t*) -
- **offsetY** (*size_t*) -
- **pixelFormat** (*enum Spinnaker::PixelFormatEnums*) -
- **width, height, offsetX, offsetY, pixelFormat, pData** (*ResetImage (self,)*) -
- **width** -
- **height** -
- **offsetX** -
- **offsetY** -
- **pixelFormat** -
- **pData** (*void **) -

Save (*self, pFilename, format*)

Parameters

- **pFilename** (*char const **) -
- **format** (*enum Spinnaker::ImageFileFormat*) -
- **pFilename** (*Save (self,)*) -
- **pFilename** -
- **pFilename, pOption** (*Save (self,)*) -
- **pFilename** -
- **pOption** (*Spinnaker::BMPOption &*) -
- **pFilename, pOption** -
- **pFilename** -
- **pOption** -
- **pFilename, pOption** -
- **pFilename** -
- **pOption** -

- `pFilename, pOption` –
- `pFilename` –
- `pOption` –
- `pFilename, pOption` –
- `pFilename` –
- `pOption` –
- `pFilename, pOption` –
- `pFilename` –
- `pOption` –
- `pFilename, pOption` –
- `pFilename` –
- `pOption` –

thisown

The membership flag

class `PySpin.IImageEvent` (**args, **kwargs*)

Bases: `PySpin.Event`

Proxy of C++ Spinnaker::IImageEvent class.

OnImageEvent (*self, image*)

Parameters `image` (`Spinnaker::ImagePtr`) –

thisown

The membership flag

class `PySpin.IInteger` (**args, **kwargs*)

Bases: `PySpin.IValue`

Proxy of C++ Spinnaker::GenApi::IInteger class.

GetInc (*self*) → `int64_t`

Parameters `self` (`Spinnaker::GenApi::IInteger *`) –

GetIncMode (*self*) → `Spinnaker::GenApi::EIncMode`

Parameters `self` (`Spinnaker::GenApi::IInteger *`) –

GetListOfValidValues (*self, bounded=True*) → `int64_autovector_t`

Parameters

- `bounded` (`bool`) –
- → `int64_autovector_t` (`GetListOfValidValues` (*self*)) –
- `self` (`Spinnaker::GenApi::IInteger *`) –

GetMax (*self*) → `int64_t`

Parameters `self` (`Spinnaker::GenApi::IInteger *`) –

GetMin (*self*) → `int64_t`

Parameters `self` (`Spinnaker::GenApi::IInteger *`) –

GetRepresentation (*self*) → Spinnaker::GenApi::ERepresentation

Parameters **self** (*Spinnaker::GenApi::IInteger **) –

GetUnit (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::IInteger **) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → int64_t

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → int64_t (*GetValue* (*self*,)) –
- **Verify** –
- → int64_t (*GetValue* (*self*)) –
- **self** (*Spinnaker::GenApi::IInteger **) –

ImposeMax (*self*, *Value*)

Parameters **Value** (*int64_t*) –

ImposeMin (*self*, *Value*)

Parameters **Value** (*int64_t*) –

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*int64_t*) –
- **Verify** (*bool*) –
- **Value** (*SetValue* (*self*,)) –
- **Value** –

thisown

The membership flag

class PySpin.IInterfaceEvent (**args*, ***kwargs*)

Bases: *PySpin.IArrivalEvent*, *PySpin.IRemovalEvent*

Proxy of C++ Spinnaker::IInterfaceEvent class.

OnDeviceArrival (*self*, *serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

OnDeviceRemoval (*self*, *serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

thisown

The membership flag

class PySpin.ILoggingEvent (**args*, ***kwargs*)

Bases: *PySpin.Event*

Proxy of C++ Spinnaker::ILoggingEvent class.

OnLogEvent (*self*, *eventPtr*)

Parameters `eventPtr` (*Spinnaker::LoggingEventDataPtr*) –

thisown
The membership flag

class `PySpin.INode` (**args, **kwargs*)
Bases: *PySpin.ISelector, PySpin.IReference*

Proxy of C++ `Spinnaker::GenApi::INode` class.

DeregisterCallback (*self, hCallback*) → `bool`

Parameters `hCallback` (*Spinnaker::GenApi::CallbackHandleType*) –

GetAlias (*self*) → `INode`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetCachingMode (*self*) → `Spinnaker::GenApi::ECachingMode`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetCastAlias (*self*) → `INode`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetChildren (*self, Children, LinkType*)

Parameters

- **Children** (*Spinnaker::GenApi::NodeList_t &*) –
- **LinkType** (*enum Spinnaker::GenApi::ELinkType*) –
- **Children** (*GetChildren (self,)*) –
- **Children** –

GetDescription (*self*) → `gcstring`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetDeviceName (*self*) → `gcstring`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetDisplayName (*self*) → `gcstring`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetDocuURL (*self*) → `gcstring`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetEventID (*self*) → `gcstring`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetName (*self, FullQualified=False*) → `gcstring`

Parameters

- **FullQualified** (*bool*) –
- → `gcstring` (*GetName (self)*) –
- **self** (*Spinnaker::GenApi::INode const **) –

GetNameSpace (*self*) → `Spinnaker::GenApi::ENamespace`

Parameters `self` (*Spinnaker::GenApi::INode const **) –

GetNodeMap (*self*) → INodeMap
Parameters **self** (*Spinnaker::GenApi::INode const **)–

GetParents (*self*, *Parents*)
Parameters **Parents** (*Spinnaker::GenApi::NodeList_t &*)–

GetPollingTime (*self*) → int64_t
Parameters **self** (*Spinnaker::GenApi::INode const **)–

GetPrincipalInterfaceType (*self*) → Spinnaker::GenApi::EInterfaceType
Parameters **self** (*Spinnaker::GenApi::INode const **)–

GetProperty (*self*, *PropertyName*, *ValueStr*, *AttributeStr*) → bool
Parameters

- **PropertyName** (*Spinnaker::GenICam::gcstring const &*)–
- **ValueStr** (*Spinnaker::GenICam::gcstring &*)–
- **AttributeStr** (*Spinnaker::GenICam::gcstring &*)–

GetPropertyNames (*self*)
Parameters **self** (*Spinnaker::GenApi::INode const **)–

GetToolTip (*self*) → gcstring
Parameters **self** (*Spinnaker::GenApi::INode const **)–

GetVisibility (*self*) → Spinnaker::GenApi::EVisibility
Parameters **self** (*Spinnaker::GenApi::INode const **)–

ImposeAccessMode (*self*, *ImposedAccessMode*)
Parameters **ImposedAccessMode** (*enum Spinnaker::GenApi::EAccessMode*)–

ImposeVisibility (*self*, *ImposedVisibility*)
Parameters **ImposedVisibility** (*enum Spinnaker::GenApi::EVisibility*)–

InvalidateNode (*self*)
Parameters **self** (*Spinnaker::GenApi::INode **)–

IsAccessModeCacheable (*self*) → Spinnaker::GenApi::EYesNo
Parameters **self** (*Spinnaker::GenApi::INode const **)–

IsCachable (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::INode const **)–

IsDeprecated (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::INode const **)–

IsFeature (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::INode const **)–

IsStreamable (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::INode const **)–

RegisterCallback (*self*, *pCallback*) → Spinnaker::GenApi::CallbackHandleType

Parameters `pCallback` (`Spinnaker::GenApi::CNodeCallback *`)–

thisown
The membership flag

class `PySpin.INodeMap` (`*args, **kwargs`)
Bases: `object`
Proxy of C++ `Spinnaker::GenApi::INodeMap` class.

Connect (`self, pPort, PortName`) → `bool`

Parameters

- `pPort` (`IPort *`)–
- `PortName` (`Spinnaker::GenICam::gcstring const &`)–
- `pPort` → `bool` (`Connect(self,)`)–
- `pPort` –

GetDeviceName (`self`) → `gcstring`

Parameters `self` (`Spinnaker::GenApi::INodeMap *`)–

GetNode (`self, Name`) → `INode`

Parameters `Name` (`Spinnaker::GenICam::gcstring const &`)–

GetNodes (`self`)

Parameters `self` (`Spinnaker::GenApi::INodeMap const *`)–

GetNumNodes (`self`) → `uint64_t`

Parameters `self` (`Spinnaker::GenApi::INodeMap const *`)–

InvalidateNodes (`self`)

Parameters `self` (`Spinnaker::GenApi::INodeMap const *`)–

Poll (`self, ElapsedTime`)

Parameters `ElapsedTime` (`int64_t`)–

thisown
The membership flag

class `PySpin.INodeMapDyn` (`*args, **kwargs`)
Bases: `PySpin.INodeMap`
Proxy of C++ `Spinnaker::GenApi::INodeMapDyn` class.

ClearAllNodes (`self`)

Parameters `self` (`Spinnaker::GenApi::INodeMapDyn *`)–

ExtractIndependentSubtree (`self, XMLData, InjectXMLData, SubTreeRootNodeName, ExtractedSubtree`)

Parameters

- `XMLData` (`Spinnaker::GenICam::gcstring const &`)–
- `InjectXMLData` (`Spinnaker::GenICam::gcstring const &`)–
- `SubTreeRootNodeName` (`Spinnaker::GenICam::gcstring const &`)–
- `ExtractedSubtree` (`Spinnaker::GenICam::gcstring &`)–

GetSupportedSchemaVersions (*self*)

Parameters **self** (*Spinnaker::GenApi::INodeMapDyn **)–

LoadXMLFromFile (*self, FileName*)

Parameters **FileName** (*Spinnaker::GenICam::gcstring const &*)–

LoadXMLFromFileInject (*self, TargetFileName, InjectFileName*)

Parameters

- **TargetFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **InjectFileName** (*Spinnaker::GenICam::gcstring const &*)–

LoadXMLFromString (*self, XMLData*)

Parameters **XMLData** (*Spinnaker::GenICam::gcstring const &*)–

LoadXMLFromStringInject (*self, TargetXMLData, InjectXMLData*)

Parameters

- **TargetXMLData** (*Spinnaker::GenICam::gcstring const &*)–
- **InjectXMLData** (*Spinnaker::GenICam::gcstring const &*)–

LoadXMLFromZIPData (*self, zipData, zipSize*)

Parameters

- **zipData** (*void const **)–
- **zipSize** (*size_t*)–

LoadXMLFromZIPFile (*self, ZipFileName*)

Parameters **ZipFileName** (*Spinnaker::GenICam::gcstring const &*)–

MergeXMLFiles (*self, TargetFileName, InjectedFileName, OutputFileName*)

Parameters

- **TargetFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **InjectedFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **OutputFileName** (*Spinnaker::GenICam::gcstring const &*)–

PreprocessXMLFromFile (*self, XMLFileName, StyleSheetFileName, OutputFileName, XMLValidation*)

Parameters

- **XMLFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **StyleSheetFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **OutputFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **XMLValidation** (*uint32_t const*)–
- **XMLFileName, StyleSheetFileName, OutputFileName**
(*PreprocessXMLFromFile(self,)*)–
- **XMLFileName** –
- **StyleSheetFileName** –
- **OutputFileName** –

PreprocessXMLFromZIPFile (*self*, *XMLFileName*, *StyleSheetFileName*, *OutputFileName*, *XMLValidation*)

Parameters

- **XMLFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **StyleSheetFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **OutputFileName** (*Spinnaker::GenICam::gcstring const &*)–
- **XMLValidation** (*uint32_t const*)–
- **XMLFileName, StyleSheetFileName, OutputFileName** (*PreprocessXMLFromZIPFile (self,)*)–
- **XMLFileName** –
- **StyleSheetFileName** –
- **OutputFileName** –

thisown

The membership flag

class PySpin.**IPersistScript** (**args*, ***kwargs*)

Bases: object

Proxy of C++ Spinnaker::GenApi::IPersistScript class.

PersistFeature (*self*, *item*)

Parameters *item* (*Spinnaker::GenApi::IValue &*)–

SetInfo (*self*, *Info*)

Parameters *Info* (*Spinnaker::GenICam::gcstring &*)–

thisown

The membership flag

class PySpin.**IReference** (**args*, ***kwargs*)

Bases: object

Proxy of C++ Spinnaker::GenApi::IReference class.

SetReference (*self*, *pBase*)

Parameters *pBase* (*INode **)–

thisown

The membership flag

class PySpin.**IRegister** (**args*, ***kwargs*)

Bases: *PySpin.IValue*

Proxy of C++ Spinnaker::GenApi::IRegister class.

Get (*self*, *pBuffer*, *Verify=False*, *IgnoreCache=False*)

Parameters

- **pBuffer** (*uint8_t **)–
- **Verify** (*bool*)–
- **IgnoreCache** (*bool*)–
- **pBuffer, Verify=False** (*Get (self,)*)–

- **pBuffer** –
- **Verify** –
- **pBuffer** (*Get (self,)*) –
- **pBuffer** –

Gets a NumPy array representing the contents of the register, as 8-bit unsigned ints.

pBuffer: The number of bytes to retrieve

Verify: Enables Range verification (default = false). The **AccessMode** is always checked

IgnoreCache: If true the value is read ignoring any caches (default = false)

GetAddress (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::IRegister **) –

GetLength (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::IRegister **) –

Set (*self, pBuffer, Verify=True*)

Parameters

- **pBuffer** (*uint8_t const **) –
- **Verify** (*bool*) –
- **pBuffer** (*Set (self,)*) –
- **pBuffer** –

Set the register's contents with the contents (as 8-bit unsigned ints) of the given array.

pBuffer: The NumPy array containing the data to set

Verify: Enables **AccessMode** and Range verification (default = true)

thisown

The membership flag

class PySpin.**IRemovalEvent** (**args, **kwargs*)

Bases: *PySpin.Event*

Proxy of C++ Spinnaker::IRemovalEvent class.

OnDeviceRemoval (*self, serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

thisown

The membership flag

class PySpin.**ISelector** (**args, **kwargs*)

Bases: *PySpin.IBase*

Proxy of C++ Spinnaker::GenApi::ISelector class.

GetSelectedFeatures (*self, arg2*)

Parameters **arg2** (*FeatureList_t &*) –

GetSelectingFeatures (*self, arg2*)

Parameters **arg2** (*FeatureList_t &*) –

IsSelector (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::ISelector const **) –

thisown

The membership flag

class PySpin.**ISelectorDigit** (*args, **kwargs)

Bases: object

Proxy of C++ Spinnaker::GenApi::ISelectorDigit class.

GetSelectorList (*self*, *Incremental=False*)

Parameters

- **Incremental** (*bool*) –
- **GetSelectorList** (**self**) –
- **self** (*Spinnaker::GenApi::ISelectorDigit **) –

Restore (*self*)

Parameters **self** (*Spinnaker::GenApi::ISelectorDigit **) –

SetFirst (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::ISelectorDigit **) –

SetNext (*self*, *Tick=True*) → bool

Parameters

- **Tick** (*bool*) –
- → **bool** (*SetNext* (*self*)) –
- **self** (*Spinnaker::GenApi::ISelectorDigit **) –

ToString (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::ISelectorDigit **) –

thisown

The membership flag

class PySpin.**IString** (*args, **kwargs)

Bases: *PySpin.IValue*

Proxy of C++ Spinnaker::GenApi::IString class.

GetMaxLength (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::IString **) –

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → gcstring

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **gcstring** (*GetValue* (*self*,)) –
- **Verify** –
- → **gcstring** (*GetValue* (*self*)) –

- **self** (*Spinnaker::GenApi::IString **)–

SetValue (*self, Value, Verify=True*)

Parameters

- **Value** (*Spinnaker::GenICam::gcstring const &*)–
- **Verify** (*bool*)–
- **Value** (*SetValue (self,)*)–
- **Value** –

thisown

The membership flag

class PySpin.**ISystem** (**args, **kwargs*)

Bases: object

Proxy of C++ Spinnaker::ISystem class.

GetCameras (*self, updateInterfaces=True, updateCameras=True*) → CameraList

Parameters

- **updateInterfaces** (*bool*)–
- **updateCameras** (*bool*)–
- **updateInterfaces=True** → **CameraList** (*GetCameras (self,)*)–
- **updateInterfaces** –
- → **CameraList** (*GetCameras (self)*)–
- **self** (*Spinnaker::ISystem **)–

GetInterfaces (*self, updateInterface=True*) → InterfaceList

Parameters

- **updateInterface** (*bool*)–
- → **InterfaceList** (*GetInterfaces (self)*)–
- **self** (*Spinnaker::ISystem **)–

GetLoggingEventPriorityLevel (*self*) → Spinnaker::SpinnakerLogLevel

Parameters **self** (*Spinnaker::ISystem **)–

IsInUse (*self*) → bool

Parameters **self** (*Spinnaker::ISystem **)–

RegisterInterfaceEvent (*self, evtToRegister, updateInterface=True*)

Parameters

- **evtToRegister** (*Spinnaker::Event &*)–
- **updateInterface** (*bool*)–
- **evtToRegister** (*RegisterInterfaceEvent (self,)*)–
- **evtToRegister** –

RegisterLoggingEvent (*self, handler*)

Parameters **handler** (*Spinnaker::LoggingEvent &*)–

ReleaseInstance (*self*)

Parameters **self** (*Spinnaker::ISystem **) –

SendActionCommand (*self, deviceKey, groupKey, groupMask, actionTime=0, pResultSize=None, results=0*)

Parameters

- **deviceKey** (*unsigned int*) –
- **groupKey** (*unsigned int*) –
- **groupMask** (*unsigned int*) –
- **actionTime** (*unsigned long long*) –
- **pResultSize** (*unsigned int **) –
- **results** (*Spinnaker::ActionCommandResult []*) –
- **deviceKey, groupKey, groupMask, actionTime=0, pResultSize=None** (**SendActionCommand** (*self,*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **pResultSize** –
- **deviceKey, groupKey, groupMask, actionTime=0** (**SendActionCommand** (*self,*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **deviceKey, groupKey, groupMask** (**SendActionCommand** (*self,*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –

SetLoggingEventPriorityLevel (*self, level*)

Parameters **level** (*enum Spinnaker::SpinnakerLogLevel*) –

UnregisterAllLoggingEvent (*self*)

Parameters **self** (*Spinnaker::ISystem **) –

UnregisterInterfaceEvent (*self, evtToUnregister*)

Parameters **evtToUnregister** (*Spinnaker::Event &*) –

UnregisterLoggingEvent (*self, handler*)

Parameters **handler** (*Spinnaker::LoggingEvent &*) –

UpdateCameras (*self, updateInterfaces=True*) → bool

Parameters

- **updateInterfaces** (*bool*) –
- **-> bool** (*UpdateCameras (self)*) –
- **self** (*Spinnaker::ISystem **) –

thisown

The membership flag

class `PySpin.IValue` (**args, **kwargs*)

Bases: `PySpin.INode`

Proxy of C++ Spinnaker::GenApi::IValue class.

FromString (*self, ValueStr, Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **Verify** (*bool*) –
- **ValueStr** (*FromString (self,)*) –
- **ValueStr** –

GetNode (*self*) \rightarrow `INode`

Parameters **self** (*Spinnaker::GenApi::IValue **) –

IsValueCacheValid (*self*) \rightarrow `bool`

Parameters **self** (*Spinnaker::GenApi::IValue const **) –

ToString (*self, Verify=False, IgnoreCache=False*) \rightarrow `gcstring`

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** \rightarrow `gcstring` (*ToString (self,)*) –
- **Verify** –
- **-> gcstring** (*ToString (self)*) –
- **self** (*Spinnaker::GenApi::IValue **) –

thisown

The membership flag

class `PySpin.Image` (**args, **kwargs*)

Bases: `PySpin.IImage`

The image object class.

C++ includes: `Image.h`

CalculateChannelStatistics (*self, channel*) \rightarrow `ChannelStatistics`

Parameters **channel** (*enum Spinnaker::StatisticsChannel*) –

Returns a `ChannelStatistics` instance for the current image on a given channel.

channel: Channel to generate statistics on.

CheckCRC (*self*) → bool

Parameters **self** (*Spinnaker::Image const **)–

bool Spinnaker::Image::CheckCRC() const

Checks if the computed checksum matches with chunk data's ImageCRC

Returns true if computed checksum matches with the chunk data's CRC and false otherwise.

Convert (*self, format, algorithm*) → ImagePtr

Parameters

- **format** (*enum Spinnaker::PixelFormatEnums*)–
- **algorithm** (*enum Spinnaker::ColorProcessingAlgorithm*)–
- **format** → **ImagePtr** (*Convert (self,)*)–
- **format** –

ImagePtr Spinnaker::Image::Convert(Spinnaker::PixelFormatEnums format, ColorProcessingAlgorithm algorithm=DEFAULT) const

Converts the current image buffer to the specified output pixel format and stores the result in the specified image. The destination image does not need to be configured in any way before the call is made.

See: PixelFormatEnums

format: Output format of the converted image.

algorithm: processing algorithm for producing the converted image

The converted image.

static Create () → ImagePtr

Create(image) → ImagePtr

Parameters

- **image** (*Spinnaker::ImagePtr const*)–
- **height, offsetX, offsetY, pixelFormat, pData** → **ImagePtr** (*Create (width,)*)–
- **width** (*size_t*)–
- **height** (*size_t*)–
- **offsetX** (*size_t*)–
- **offsetY** (*size_t*)–
- **pixelFormat** (*enum Spinnaker::PixelFormatEnums*)–
- **pData** (*void **)–

Creates a new Image object, either using a default constructor, copied from another ImagePtr, or using width, height, offset_x, offset_y, pixel format, and a NumPy array containing 8-bit unsigned ints representing the image data (replaces the void* pData argument).

DeepCopy (*self, pSrcImage*)

Parameters **pSrcImage** (*Spinnaker::ImagePtr const*)–

void Spinnaker::Image::DeepCopy(const ImagePtr pSrcImage)

Performs a deep copy of the Image. After this operation, the image contents and member variables will be the same. The Images will not share a buffer. The Image's current buffer will not be released.

pSrcImage: The Image to copy the data from.

GetBitsPerPixel (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetBitsPerPixel() const

Gets the number of bits used per pixel in the image. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The number of bits used per pixel.

GetBufferSize (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetBufferSize() const

Gets the size of the buffer associated with the image in bytes.

The size of the buffer, in bytes.

GetChunkData (*self*) → ChunkData

Parameters **self** (*Spinnaker::Image const **) –

const ChunkData& Spinnaker::Image::GetChunkData() const

Returns a pointer to a chunk data interface. No ownership is transferred, the chunk data interface reference is valid until Image::Release() is called on this image.

ChunkData interface that provides access to image chunks.

GetChunkLayoutId (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetChunkLayoutId() const

Returns the id of the chunk data layout.

uint64_t value representing the id of the chunk data layout.

GetColorProcessing (*self*) → Spinnaker::ColorProcessingAlgorithm

Parameters **self** (*Spinnaker::Image const **) –

ColorProcessingAlgorithm Spinnaker::Image::GetColorProcessing() const

Gets the algorithm used to produce the image.

See: Convert()

The color processing algorithm used to produce the image.

static GetDefaultColorProcessing () → Spinnaker::ColorProcessingAlgorithm

GetFrameID (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetFrameID() const

Gets the frame ID for this image.

The frame ID.

GetHeight (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetHeight() const

Gets the height of the image in pixels. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The height in pixels.

GetID (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetID() const

Gets a unique ID for this image. Each image in a stream will have a unique ID to help identify it.

The 64 bit unique id for this image.

GetImageSize (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetImageSize() const

Returns the size of the image

The image size in bytes.

GetImageStatus (*self*) → Spinnaker::ImageStatus

Parameters **self** (*Spinnaker::Image const **) –

ImageStatus Spinnaker::Image::GetImageStatus() const

Returns data integrity status of the image returned from GetNextImage()

Returns whether image has any data integrity issues.

static GetImageStatusDescription (*status*) → char const *

Parameters **status** (*enum Spinnaker::ImageStatus*) –

GetNumChannels (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

GetPayloadType (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetPayloadType() const

Gets the payload type that was transmitted. This is a device types specific value that identifies how the image was transmitted. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

Device types specific payload type.

GetPixelFormat (*self*) → Spinnaker::PixelFormatEnums

Parameters **self** (*Spinnaker::Image const **) –

Spinnaker::PixelFormatEnums Spinnaker::Image::GetPixelFormat() const

Returns an enum value that represents the pixel format of this image. The enum can be used with the easy access GenICam features available through the Camera.h header file. This easy access enum can also be used in the Convert() function.

See: Convert()

enum value representing the PixelFormat.

GetPixelFormatIntType (*self*) → Spinnaker::PixelFormatIntType

Parameters **self** (*Spinnaker::Image const **) –

GetPixelFormatName (*self*) → gcstring

Parameters **self** (*Spinnaker::Image const **) –

GenICam::gcstring Spinnaker::Image::GetPixelFormatName() const

Returns a string value that represents this image's pixel format. The string is a valid SFNC name that maps to the underlying TL specific pixel format. This is the most generic way to identify the pixel format of the image.

string value representing the PixelFormat.

GetPrivateData (*self*) → void *

Parameters **self** (*Spinnaker::Image const **) –

void* Spinnaker::Image::GetPrivateData() const

Gets a pointer to the user passed data associated with the image. This function is considered unsafe. The pointer returned could be invalidated if the buffer is released. The pointer may also be invalidated if the Image object is passed to Image::Release().

TODO: no way to set private data for image yet.

A pointer to the user passed data pointer.

GetStride (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetStride() const

Gets the stride of the image in bytes. The stride of an image is how many bytes are in each row. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The stride in bytes.

GetTLPayloadType (*self*) → Spinnaker::PayloadTypeInfoIDs

Parameters **self** (*Spinnaker::Image const **) –

PayloadTypeInfoIDs Spinnaker::Image::GetTLPayloadType() const

Gets the GenTL specific payload type that was transmitted. This is a Transport Layer specific value that identifies how the image was transmitted. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

Transport Layer specific payload type.

GetTLPixelFormat (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetTLPixelFormat() const

Gets the pixel format of the image. This is a Transport Layer specific pixel format that identifies how the pixels in the image should be interpreted. To understand how to interpret this value it is necessary to know what the transport layer namespace is. This can be retrieved through a call to `GetTLPixelFormatNamespace()`. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

See: `GetTLPixelFormatNamespace()`

Transport Layer specific pixel format.

GetTLPixelFormatNamespace (*self*) → Spinnaker::PixelFormatNamespaceID

Parameters **self** (*Spinnaker::Image const **) –

PixelFormatNamespaceID Spinnaker::Image::GetTLPixelFormatNamespace() const

Returns an enum value that represents the namespace in which this image's TL specific pixel format resides. This information is important to properly interpret the value returned by `GetTLPixelFormat()`

See: `GetTLPixelFormat()`

enum value representing the PixelFormatNamespace.

GetTimeStamp (*self*) → uint64_t

Parameters **self** (*Spinnaker::Image const **) –

uint64_t Spinnaker::Image::GetTimeStamp() const

Gets the time stamp for the image in nanoseconds.

The time stamp of the image.

GetValidPayloadSize (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetValidPayloadSize() const

Returns the size of valid data in the image payload. This is the actual amount of data read from the device. A user created image has a payload size of zero. `GetBufferSize()` returns the total size of bytes allocated for the image.

See: `GetBufferSize()`

size_t value representing valid payload.

GetWidth (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetWidth() const

Gets the width of the image in pixels. This information is retrieved from the Transport Layer image format headers. It is retrieved on a per image basis.

The width in pixels.

GetXOffset (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetXOffset() const

Gets the ROI x offset in pixels for this image. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The x offset in pixels.

GetXPadding (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetXPadding() const

Gets the x padding in bytes for this image. This is the number of bytes at the end of each line to facilitate alignment in buffers. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The x padding in bytes.

GetYOffset (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetYOffset() const

Gets the ROI y offset in pixels for this image. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The y offset in pixels.

GetYPadding (*self*) → size_t

Parameters **self** (*Spinnaker::Image const **) –

size_t Spinnaker::Image::GetYPadding() const

Gets the y padding in bytes for this image. This is the number of bytes at the end of each image to facilitate alignment in buffers. This information is retrieved from the Transport Layer Image format headers. It is retrieved on a per image basis.

The y padding in bytes.

HasCRC (*self*) → bool

Parameters **self** (*Spinnaker::Image const **) –

bool Spinnaker::Image::HasCRC() const

Checks if the image contains ImageCRC checksum from chunk data

Returns true if image contains ImageCRC checksum from chunk data and false otherwise.

IsInUse (*self*) → bool

Parameters **self** (*Spinnaker::Image **) –

bool Spinnaker::Image::IsInUse()

Returns true if the image is still in use by the stream

Returns true if the image is in use and false otherwise.

IsIncomplete (*self*) → bool

Parameters **self** (*Spinnaker::Image const **) –

bool Spinnaker::Image::IsIncomplete() const

Returns a boolean value indicating if this image was incomplete. An image is marked as incomplete if the transport layer received less data than it requested.

Returns true if image is incomplete, false otherwise.

Release (*self*)

Parameters `self (Spinnaker::Image *)` -

`void Spinnaker::Image::Release()`

ResetImage (`self, width, height, offsetX, offsetY, pixelFormat`)

Parameters

- **width** (`size_t`) -
- **height** (`size_t`) -
- **offsetX** (`size_t`) -
- **offsetY** (`size_t`) -
- **pixelFormat** (`enum Spinnaker::PixelFormatEnums`) -
- **width, height, offsetX, offsetY, pixelFormat, pData** (`ResetImage (self,)`) -
- **width** -
- **height** -
- **offsetX** -
- **offsetY** -
- **pixelFormat** -
- **pData** (`void *`) -

`void Spinnaker::Image::ResetImage(size_t width, size_t height, size_t offsetX, size_t offsetY, Spinnaker::PixelFormatEnums pixelFormat, void *pData)`

Sets new dimensions of the image object.

width: The width of image in pixels to set.

height: The height of image in pixels to set.

offsetX: The x offset in pixels to set.

offsetY: The y offset in pixels to set.

pixelFormat: Pixel format to set.

pData: Pointer to the image buffer.

Save (`self, pFilename, format`)

Parameters

- **pFilename** (`char const *`) -
- **format** (`enum Spinnaker::ImageFileFormat`) -
- **pFilename** (`Save (self,)`) -
- **pFilename** -
- **pFilename, pOption** (`Save (self,)`) -
- **pFilename** -
- **pOption** (`Spinnaker::BMPOption &`) -
- **pFilename, pOption** -
- **pFilename** -

- `pOption` –
- `pFilename, pOption` –
- `pFilename` –
- `pOption` –
- `pFilename, pOption` –
- `pFilename` –
- `pOption` –
- `pFilename, pOption` –
- `pFilename` –
- `pOption` –
- `pFilename, pOption` –
- `pFilename` –
- `pOption` –
- `pFilename, pOption` –
- `pFilename` –
- `pOption` –

`void Spinnaker::Image::Save(const char *pFilename, BMPOption &pOption)`

Saves the image to the specified file name with the options specified.

`pFilename`: Filename to save image with.

`pOption`: Options to use while saving image.

static `SetDefaultColorProcessing` (*defaultMethod*)

Parameters `defaultMethod` (*enum Spinnaker::ColorProcessingAlgorithm*)

–

thisown

The membership flag

class `PySpin.ImageEvent`

Bases: *PySpin.IImageEvent*

A handler for capturing image arrival events.

C++ includes: `ImageEvent.h`

OnImageEvent (*self, image*)

Parameters `image` (*Spinnaker::ImagePtr*) –

virtual `void Spinnaker::ImageEvent::OnImageEvent(ImagePtr image)=0`

Image event callback

`image`: The `ImagePtr` object

thisown

The membership flag

class `PySpin.ImagePtr` (*args)
Bases: `PySpin._SWIG_ImgPtr`

A reference tracked pointer to an image object. When the ImagePtr goes out of scope, it will trigger an auto release of the image from the stream.

C++ includes: `ImagePtr.h`

thisown
The membership flag

`PySpin.Image_Create` (*args)
`Create()` -> `ImagePtr` `Create(image)` -> `ImagePtr`

Parameters

- **image** (*Spinnaker::ImagePtr const*) -
- **height, offsetX, offsetY, pixelFormat, pData** -> `ImagePtr`
(`Image_Create` (*width*,)-
- **width** (*size_t*) -
- **height** (*size_t*) -
- **offsetX** (*size_t*) -
- **offsetY** (*size_t*) -
- **pixelFormat** (*enum Spinnaker::PixelFormatEnums*) -
- **pData** (*void **) -

Creates a new Image object, either using a default constructor, copied from another ImagePtr, or using width, height, offset_x, offset_y, pixel format, and a NumPy array containing 8-bit unsigned ints representing the image data (replaces the void* pData argument).

`PySpin.Image_GetDefaultColorProcessing` () -> `Spinnaker::ColorProcessingAlgorithm`

`PySpin.Image_GetImageStatusDescription` (*status*) -> `char const *`

Parameters **status** (*enum Spinnaker::ImageStatus*) -

`PySpin.Image_SetDefaultColorProcessing` (*defaultMethod*)

Parameters **defaultMethod** (*enum Spinnaker::ColorProcessingAlgorithm*) -

class `PySpin.IntRegNode` (*args, **kwargs)
Bases: `PySpin.IntegerNode`, `PySpin.RegisterNode`

Interface for string properties.

C++ includes: `IntRegNode.h`

SetReference (*self, pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) -

virtual void `Spinnaker::GenApi::IntRegNode::SetReference(INode *pBase)`

overload `SetReference` for Value

thisown
The membership flag

class `PySpin.IntegerNode` (*args, **kwargs)
Bases: `PySpin.IInteger`, `PySpin.ValueNode`

Interface for string properties.

C++ includes: IntegerNode.h

GetFloatAlias (*self*) → IFloat

Parameters **self** (*Spinnaker::GenApi::IntegerNode **) –
virtual IFloat* Spinnaker::GenApi::IntegerNode::GetFloatAlias()
gets the interface of an alias node.

GetInc (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::IntegerNode **) –
virtual int64_t Spinnaker::GenApi::IntegerNode::GetInc()
Get increment

GetIncMode (*self*) → Spinnaker::GenApi::EIncMode

Parameters **self** (*Spinnaker::GenApi::IntegerNode **) –
virtual EIncMode Spinnaker::GenApi::IntegerNode::GetIncMode()
Get increment mode

GetListOfValidValues (*self, bounded=True*) → int64_autovector_t

Parameters

- **bounded** (*bool*) –
- **-> int64_autovector_t** (*GetListOfValidValues (self)*) –
- **self** (*Spinnaker::GenApi::IntegerNode **) –

virtual int64_autovector_t Spinnaker::GenApi::IntegerNode::GetListOfValidValues(bool bounded=true)
Get list of valid value

GetMax (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::IntegerNode **) –
virtual int64_t Spinnaker::GenApi::IntegerNode::GetMax()
Get maximum value allowed

GetMin (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::IntegerNode **) –
virtual int64_t Spinnaker::GenApi::IntegerNode::GetMin()
Get minimum value allowed

GetRepresentation (*self*) → Spinnaker::GenApi::ERepresentation

Parameters **self** (*Spinnaker::GenApi::IntegerNode **) –
virtual ERepresentation Spinnaker::GenApi::IntegerNode::GetRepresentation()
Get recommended representation

GetUnit (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::IntegerNode **) –

virtual GenICam::gcstring Spinnaker::GenApi::IntegerNode::GetUnit()

Get the physical unit name

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) → int64_t

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → int64_t (GetValue (*self*,)) –
- **Verify** –
- → int64_t (GetValue (*self*)) –
- **self** (*Spinnaker::GenApi::IntegerNode **) –

virtual int64_t Spinnaker::GenApi::IntegerNode::GetValue(bool Verify=false, bool IgnoreCache=false)

Get node value

Verify: Enables Range verification (default = false). The AccessMode is always checked

IgnoreCache: If true the value is read ignoring any caches (default = false)

The value read

ImposeMax (*self*, *Value*)

Parameters Value (*int64_t*) –

virtual void Spinnaker::GenApi::IntegerNode::ImposeMax(int64_t Value)

Restrict maximum value

ImposeMin (*self*, *Value*)

Parameters Value (*int64_t*) –

virtual void Spinnaker::GenApi::IntegerNode::ImposeMin(int64_t Value)

Restrict minimum value

SetReference (*self*, *pBase*)

Parameters pBase (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::IntegerNode::SetReference(INode *pBase)

overload SetReference for Integer

SetValue (*self*, *Value*, *Verify=True*)

Parameters

- **Value** (*int64_t*) –
- **Verify** (*bool*) –
- **Value** (SetValue (*self*,)) –
- **Value** –

virtual void Spinnaker::GenApi::IntegerNode::SetValue(int64_t Value, bool Verify=true)

Set node value

Value: The value to set

Verify: Enables AccessMode and Range verification (default = true)

thisown

The membership flag

class PySpin.**Interface** (*args, **kwargs)

Bases: object

An interface object which holds a list of cameras.

C++ includes: Interface.h

GetCameras (*self*, *updateCameras=True*) → CameraList

Parameters

- **updateCameras** (*bool*) –
- → **CameraList** (*GetCameras (self)*) –
- **self** (*Spinnaker::Interface const **) –

CameraList Spinnaker::Interface::GetCameras(bool updateCameras=true) const

Returns a list of cameras available on this interface. This call returns either usb3 vision or gige vision cameras depending on the underlying transport layer of this interface. The camera list object will reference count the cameras that it holds. It is important that the CameraList is destroyed or is cleared before System::ReleaseInstance() can be called or an InterfaceList that holds this interface can be cleared.

See: System::ReleaseInstance()

See: InterfaceList::Clear()

See: CameraList::Clear()

updateCameras: A flag used to issue an updateCameras() call internally before getting the camera list

An CameraList object that contains a list of cameras on this interface.

GetTLNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::Interface const **) –

GenApi::INodeMap& Spinnaker::Interface::GetTLNodeMap() const

Gets a nodeMap that is generated from a GenICam XML file for the GenTL interface Module.

A reference to a INodeMap object.

IsInUse (*self*) → bool

Parameters **self** (*Spinnaker::Interface const **) –

bool Spinnaker::Interface::IsInUse() const

Checks if the interface is in use by any camera objects

Returns true if the interface is in use and false otherwise.

RegisterEvent (*self*, *evtToRegister*)

Parameters **evtToRegister** (*Spinnaker::Event &*) –

void Spinnaker::Interface::RegisterEvent(Event &evtToRegister)

Registers an event for the interface

evtToRegister: The event to register for the interface

SendActionCommand (*self*, *deviceKey*, *groupKey*, *groupMask*, *actionTime=0*, *pResultSize=None*, *results=0*)

Parameters

- **deviceKey** (*unsigned int*) –
- **groupKey** (*unsigned int*) –
- **groupMask** (*unsigned int*) –
- **actionTime** (*unsigned long long*) –
- **pResultSize** (*unsigned int **) –
- **results** (*Spinnaker::ActionCommandResult []*) –
- **deviceKey**, **groupKey**, **groupMask**, **actionTime=0**, **pResultSize=None**) (*SendActionCommand(self,)*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **pResultSize** –
- **deviceKey**, **groupKey**, **groupMask**, **actionTime=0**) (*SendActionCommand(self,)*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **deviceKey**, **groupKey**, **groupMask**) (*SendActionCommand(self,)*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –

`void Spinnaker::Interface::SendActionCommand(unsigned int deviceKey, unsigned int groupKey, unsigned int groupMask, unsigned long long actionTime=0, unsigned int *pResultSize=0, ActionCommandResult results[]=NULL) const`

Broadcast an Action Command to all devices on interface

deviceKey: The Action Command's device key

groupKey: The Action Command's group key

groupMask: The Action Command's group mask

actionTime: (Optional) Time when to assert a future action. Zero means immediate action.

pResultSize: (Optional) The number of results in the results array. The value passed should be equal to the expected number of devices that acknowledge the command. Returns the number of received results.

results: (Optional) An Array with **pResultSize* elements to hold the action command result status. The buffer is filled starting from index 0. If received results are less than expected number of devices that acknowledge the command, remaining results are not changed. If received results are more than expected

number of devices that acknowledge the command, extra results are ignored and not appended to array. This parameter is ignored if pResultSize is 0. Thus this parameter can be NULL if pResultSize is 0 or NULL.

TLInterface

Interface_TLInterface_get(self) -> TransportLayerInterface

Parameters **self** (*Spinnaker::Interface **) -

UnregisterEvent (*self, evtToUnregister*)

Parameters **evtToUnregister** (*Spinnaker::Event &*) -

void Spinnaker::Interface::UnregisterEvent(Event &evtToUnregister)

Unregisters an event for the interface

evtToUnregister: The event to unregister from the interface

UpdateCameras (*self*) → bool

Parameters **self** (*Spinnaker::Interface **) -

bool Spinnaker::Interface::UpdateCameras()

Updates the list of cameras on this interface. This function needs to be called before any cameras can be discovered using GetCameras(). System::GetCameras() will automatically call this function for each interface it enumerates. If the list changed after the last time System::GetCameras() or UpdateCameras() was called then the return value will be true, otherwise it is false.

See: System::GetCameras()

See: GetCameras()

true if cameras changed on interface and false otherwise.

thisown

The membership flag

class PySpin.InterfaceEvent

Bases: *PySpin.IInterfaceEvent*

A handler to device arrival and removal events on all interfaces.

C++ includes: InterfaceEvent.h

OnDeviceArrival (*self, serialNumber*)

Parameters **serialNumber** (*uint64_t*) -

virtual void Spinnaker::InterfaceEvent::OnDeviceArrival(uint64_t serialNumber)=0

Device arrival event callback.

OnDeviceRemoval (*self, serialNumber*)

Parameters **serialNumber** (*uint64_t*) -

virtual void Spinnaker::InterfaceEvent::OnDeviceRemoval(uint64_t serialNumber)=0

Callback to the device removal event.

serialNumber: The serial number of the removed device

thisown

The membership flag

class PySpin.**InterfaceList** (*args)

Bases: object

A list of the available interfaces on the system.

C++ includes: InterfaceList.h

Clear (*self*)

Parameters **self** (*Spinnaker::InterfaceList **) –

void Spinnaker::InterfaceList::Clear()

Clears the list of interfaces and destroys their corresponding objects. It is important to first make sure there are no referenced cameras still in use before calling Clear(). If a camera on any of the interfaces is still in use this function will throw an exception.

GetByIndex (*self, index*) → InterfacePtr

Parameters **index** (*int*) –

InterfacePtr Spinnaker::InterfaceList::GetByIndex(int index) const

Returns a pointer to an Interface object at the “index”.

index: The index at which to retrieve the Interface object

A pointer to an Interface object.

GetSize (*self*) → int

Parameters **self** (*Spinnaker::InterfaceList const **) –

int Spinnaker::InterfaceList::GetSize() const

Returns the size of the interface list. The size is the number of Interface objects stored in the list.

An integer that represents the list size.

thisown

The membership flag

class PySpin.**InterfacePtr** (*args)

Bases: PySpin._SWIG_IFacePtr

A reference tracked pointer to the interface object.

C++ includes: InterfacePtr.h

thisown

The membership flag

PySpin.**IsAvailable** (*AccessMode*) → bool

Parameters

- **AccessMode** (*enum Spinnaker::GenApi::EAccessMode*) –
- → **bool** (*IsAvailable(ptr)*) –
- **p** (*Spinnaker::GenApi::IBase const **) –
- → **bool** –
- **r** (*Spinnaker::GenApi::IBase const &*) –
- → **bool** –

bool Spinnaker::GenApi::IsWritable(const Spinnaker::GenApi::CPointer< T, B > &ptr)

Checks if a node is Writable

class PySpin.JPEGOption

Bases: object

Options for saving JPEG image.

C++ includes: SpinnakerDefs.h

progressive

JPEGOption_progressive_get(self) -> bool

Parameters **self** (*Spinnaker::JPEGOption **) -

quality

JPEGOption_quality_get(self) -> unsigned int

Parameters **self** (*Spinnaker::JPEGOption **) -

reserved

JPEGOption_reserved_get(self) -> unsigned int [16]

Parameters **self** (*Spinnaker::JPEGOption **) -

thisown

The membership flag

class PySpin.JPG2Option

Bases: object

Options for saving JPEG2000 image.

C++ includes: SpinnakerDefs.h

quality

JPG2Option_quality_get(self) -> unsigned int

Parameters **self** (*Spinnaker::JPG2Option **) -

reserved

JPG2Option_reserved_get(self) -> unsigned int [16]

Parameters **self** (*Spinnaker::JPG2Option **) -

thisown

The membership flag

class PySpin.LoggingEvent

Bases: *PySpin.ILoggingEvent*

An event handler for capturing the device logging event.

C++ includes: LoggingEvent.h

OnLogEvent (*self, eventPtr*)

Parameters **eventPtr** (*Spinnaker::LoggingEventDataPtr*) -

virtual void Spinnaker::LoggingEvent::OnLogEvent(LoggingEventDataPtr eventPtr)=0

The callback for the log event.

eventPtr: The logging event pointer

thisown

The membership flag

class PySpin.LoggingEventData (*args, **kwargs)

Bases: object

The LoggingEventData object.

C++ includes: LoggingEventData.h

GetCategoryName (*self*) → char const *

Parameters *self* (Spinnaker::LoggingEventData *) –

const char* Spinnaker::LoggingEventData::GetCategoryName()

Gets the logging event category name.

The category name

GetLogMessage (*self*) → char const *

Parameters *self* (Spinnaker::LoggingEventData *) –

const char* Spinnaker::LoggingEventData::GetLogMessage()

Gets the logging event message.

The log message

GetNDC (*self*) → char const *

Parameters *self* (Spinnaker::LoggingEventData *) –

const char* Spinnaker::LoggingEventData::GetNDC()

Gets the logging event's Nested Diagnostic Context (NDC).

The log event's NDC

GetPriority (*self*) → int const

Parameters *self* (Spinnaker::LoggingEventData *) –

const int Spinnaker::LoggingEventData::GetPriority()

Gets the logging event priority.

The log priority

GetPriorityName (*self*) → char const *

Parameters *self* (Spinnaker::LoggingEventData *) –

const char* Spinnaker::LoggingEventData::GetPriorityName()

Gets the logging event priority name.

The priority name of the log

GetThreadName (*self*) → char const *

Parameters *self* (Spinnaker::LoggingEventData *) –

const char* Spinnaker::LoggingEventData::GetThreadName()

Gets the logging event thread name.

The thread name

GetTimestamp (*self*) → char const *

Parameters *self* (Spinnaker::LoggingEventData *) –

```
const char* Spinnaker::LoggingEventData::GetTimestamp()
```

Gets the logging event time stamp.

The time stamp of the log

thisown

The membership flag

```
class PySpin.LoggingEventDataPtr (*args)
```

Bases: PySpin._SWIG_LogPtr

A reference tracked pointer to the LoggingEvent object.

C++ includes: LoggingEventDataPtr.h

thisown

The membership flag

```
class PySpin.MJPGOption
```

Bases: object

Options for saving MJPG files.

C++ includes: SpinnakerDefs.h

frameRate

MJPGOption_frameRate_get(self) -> float

Parameters **self** (*Spinnaker::MJPGOption **) –

quality

MJPGOption_quality_get(self) -> unsigned int

Parameters **self** (*Spinnaker::MJPGOption **) –

reserved

MJPGOption_reserved_get(self) -> unsigned int [256]

Parameters **self** (*Spinnaker::MJPGOption **) –

thisown

The membership flag

```
class PySpin.Node (*args, **kwargs)
```

Bases: *PySpin.INode*

class common to all nodes

C++ includes: Node.h

DeregisterCallback (*self, hCallback*) → bool

Parameters **hCallback** (*Spinnaker::GenApi::CallbackHandleType*) –

virtual bool Spinnaker::GenApi::Node::DeregisterCallback(CallbackHandleType hCallback)

De register change callback Destroys CNodeCallback object true if the callback handle was valid

GetAccessMode (*self*) → Spinnaker::GenApi::EAccessMode

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual EAccessMode Spinnaker::GenApi::Node::GetAccessMode() const

Base interface overrides.

Get the access mode of the node

GetAlias (*self*) → INode

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual INode* Spinnaker::GenApi::Node::GetAlias() const

Retrieves the a node which describes the same feature in a different way

GetCachingMode (*self*) → Spinnaker::GenApi::ECachingMode

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual ECachingMode Spinnaker::GenApi::Node::GetCachingMode() const

Get Caching Mode

GetCastAlias (*self*) → INode

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual INode* Spinnaker::GenApi::Node::GetCastAlias() const

Retrieves the a node which describes the same feature so that it can be casted

GetChildren (*self, LinkType*)

Parameters

• **LinkType** (*enum Spinnaker::GenApi::ELinkType*) –

• **GetChildren** (**self**) –

• **self** (*Spinnaker::GenApi::Node const **) –

virtual void Spinnaker::GenApi::Node::GetChildren(GenApi::NodeList_t &Children, ELinkType LinkType=ctReadingChildren) const

Get all nodes this node directly depends on.

Children: List of children nodes

LinkType: The link type

GetDescription (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual GenICam::gcstring Spinnaker::GenApi::Node::GetDescription() const

Get a long description of the node

GetDeviceName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual GenICam::gcstring Spinnaker::GenApi::Node::GetDeviceName() const

Get a name of the device

GetDisplayName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual GenICam::gcstring Spinnaker::GenApi::Node::GetDisplayName() const

Get a name string for display

GetDocuURL (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual GenICam::gcstring Spinnaker::GenApi::Node::GetDocuURL() const

Gets a URL pointing to the documentation of that feature

GetEventID (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual GenICam::gcstring Spinnaker::GenApi::Node::GetEventID() const

Get the EventId of the node

GetName (*self*, *FullQualified=False*) → gcstring

Parameters

- **FullQualified** (*bool*) –

- → **gcstring** (*GetName (self)*) –

- **self** (*Spinnaker::GenApi::Node const **) –

virtual GenICam::gcstring Spinnaker::GenApi::Node::GetName(bool FullQualified=false) const

Get node name

GetNameSpace (*self*) → Spinnaker::GenApi::ENamespace

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual GenApi::ENamespace Spinnaker::GenApi::Node::GetNameSpace() const

Get name space

GetNodeHandle (*self*) → std::shared_ptr< Spinnaker::GenApi::Node::NodeImpl >

Parameters **self** (*Spinnaker::GenApi::Node const **) –

std::shared_ptr<Node::NodeImpl> Spinnaker::GenApi::Node::GetNodeHandle() const

Get Node handle

GetNodeMap (*self*) → INodeMap

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual INodeMap* Spinnaker::GenApi::Node::GetNodeMap() const

Retrieves the central node map

GetParents (*self*)

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual void Spinnaker::GenApi::Node::GetParents(GenApi::NodeList_t &Parents) const

Gets all nodes this node is directly depending on.

Parents: List of parent nodes

GetPollingTime (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual int64_t Spinnaker::GenApi::Node::GetPollingTime() const

recommended polling time (for not cacheable nodes)

GetPrincipalInterfaceType (*self*) → Spinnaker::GenApi::EInterfaceType

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual EInterfaceType Spinnaker::GenApi::Node::GetPrincipalInterfaceType() const

Get the type of the main interface of a node

GetProperty (*self*, *PropertyName*, *ValueStr*, *AttributeStr*) → bool

Parameters

- **PropertyName** (*Spinnaker::GenICam::gcstring const &*) –
- **ValueStr** (*Spinnaker::GenICam::gcstring &*) –
- **AttributeStr** (*Spinnaker::GenICam::gcstring &*) –

virtual bool Spinnaker::GenApi::Node::GetProperty(const GenICam::gcstring &PropertyName, GenICam::gcstring &ValueStr, GenICam::gcstring &AttributeStr)

Retrieves a property plus an additional attribute by name If a property has multiple values/attribute they come with Tabs as delimiters

GetPropertyNames (*self*)

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual void Spinnaker::GenApi::Node::GetPropertyNames(GenICam::gcstring_vector &PropertyNames) const

Returns a list of the names all properties set during initialization

GetSelectedFeatures (*self*)

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual void Spinnaker::GenApi::Node::GetSelectedFeatures(FeatureList_t &) const

retrieve the group of selected features

GetSelectingFeatures (*self*)

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual void Spinnaker::GenApi::Node::GetSelectingFeatures(FeatureList_t &) const

retrieve the group of features selecting this node

GetToolTip (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual GenICam::gcstring Spinnaker::GenApi::Node::GetToolTip() const

Get a short description of the node

GetVisibility (*self*) → Spinnaker::GenApi::EVisibility

Parameters **self** (*Spinnaker::GenApi::Node const **) –

virtual EVisibility Spinnaker::GenApi::Node::GetVisibility() const

Get the recommended visibility of the node

ImposeAccessMode (*self*, *ImposedAccessMode*)

Parameters **ImposedAccessMode** (*enum Spinnaker::GenApi::EAccessMode*) –

virtual void Spinnaker::GenApi::Node::ImposeAccessMode(EAccessMode ImposedAccessMode)

Imposes an access mode to the natural access mode of the node

ImposeVisibility (*self*, *ImposedVisibility*)

Parameters **ImposedVisibility** (*enum Spinnaker::GenApi::EVisibility*) –
 virtual void Spinnaker::GenApi::Node::ImposeVisibility(EVisibility ImposedVisibility)
 Imposes a visibility to the natural visibility of the node

InvalidateNode (*self*)
Parameters **self** (*Spinnaker::GenApi::Node **) –
 virtual void Spinnaker::GenApi::Node::InvalidateNode()
 Indicates that the node’s value may have changed. Fires the callback on this and all dependent nodes

IsAccessModeCacheable (*self*) → Spinnaker::GenApi::EYesNo
Parameters **self** (*Spinnaker::GenApi::Node const **) –
 virtual EYesNo Spinnaker::GenApi::Node::IsAccessModeCacheable() const
 True if the AccessMode can be cached

IsCachable (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::Node const **) –
 virtual bool Spinnaker::GenApi::Node::IsCachable() const
 Is the node value cacheable

IsDeprecated (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::Node const **) –
 virtual bool Spinnaker::GenApi::Node::IsDeprecated() const
 True if the node should not be used any more

IsFeature (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::Node const **) –
 virtual bool Spinnaker::GenApi::Node::IsFeature() const
 True if the node can be reached via category nodes from a category node named “Root”

IsSelector (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::Node const **) –
 virtual bool Spinnaker::GenApi::Node::IsSelector() const
 Selector interface overrides.
 true if this feature selects a group of features

IsStreamable (*self*) → bool
Parameters **self** (*Spinnaker::GenApi::Node const **) –
 virtual bool Spinnaker::GenApi::Node::IsStreamable() const
 True if the node is streamable

RegisterCallback (*self, pCallback*) → Spinnaker::GenApi::CallbackHandleType
Parameters **pCallback** (*Spinnaker::GenApi::CNodeCallback **) –
 virtual CallbackHandleType Spinnaker::GenApi::Node::RegisterCallback(CNodeCallback *pCallback)
 Register change callback Takes ownership of the CNodeCallback object

SetNodeHandle (*self*, *pNodeHandle*)

Parameters **pNodeHandle** (*std::shared_ptr< Spinnaker::GenApi::Node::NodeImpl >*) –

void Spinnaker::GenApi::Node::SetNodeHandle(std::shared_ptr< Node::NodeImpl > pNodeHandle)

Set Node handle

SetNodeMap (*self*, *pNodeMap*)

Parameters **pNodeMap** (*Spinnaker::GenApi::INodeMap **) –

void Spinnaker::GenApi::Node::SetNodeMap(INodeMap *pNodeMap)

SetReference (*self*, *pBase*)

Parameters

- **pBase** (*Spinnaker::GenApi::ISelector **) –
- **pBase** (*SetReference (self,)*) –
- **pBase** –

virtual void Spinnaker::GenApi::Node::SetReference(ISelector *pBase)

thisown

The membership flag

class PySpin.**NodeCallback**

Bases: object

Proxy of C++ NodeCallback class.

CallbackFunction (*self*, *node*)

Parameters **node** (*Spinnaker::GenApi::INode **) –

Callback function used in node callbacks (see NodeMapCallback example for more details). Users should override this function when using node callbacks.

node: INode passed to the function during the callback.

thisown

The membership flag

class PySpin.**NodeMap** (*args)

Bases: *PySpin.INodeMap*, *PySpin.IDeviceInfo*

Smart pointer template for NodeMaps with create function.

TCameraParams: The camera specific parameter class (auto generated from camera xml file)

C++ includes: NodeMap.h

static ClearXMLCache () → bool

Connect (*self*, *pPort*, *PortName*) → bool

Parameters

- **pPort** (*IPort **) –
- **PortName** (*Spinnaker::GenICam::gcstring const &*) –
- **pPort** → **bool** (*Connect (self,)*) –
- **pPort** –

virtual bool Spinnaker::GenApi::NodeMap::Connect(IPort *pPort) const

Connects a port to the standard port “Device”

Destroy (*self*)

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

void Spinnaker::GenApi::NodeMap::Destroy()

Destroys the node map

GetDeviceName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

virtual GenICam::gcstring Spinnaker::GenApi::NodeMap::GetDeviceName()

Get device name

GetDeviceVersion (*self, Version*)

Parameters **Version** (*Spinnaker::GenICam::Version_t &*) –

virtual void Spinnaker::GenApi::NodeMap::GetDeviceVersion(GenICam::Version_t &Version)

Get the version of the device description file

GetGenApiVersion (*self, Version, Build*)

Parameters

- **Version** (*Spinnaker::GenICam::Version_t &*) –

- **Build** (*uint16_t &*) –

virtual void Spinnaker::GenApi::NodeMap::GetGenApiVersion(GenICam::Version_t &Version, uint16_t &Build)

Get the version of the DLL’s GenApi implementation

GetModelName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

virtual GenICam::gcstring Spinnaker::GenApi::NodeMap::GetModelName()

Get the model name

GetNode (*self, key*) → INode

Parameters **key** (*Spinnaker::GenICam::gcstring const &*) –

virtual INode* Spinnaker::GenApi::NodeMap::GetNode(const GenICam::gcstring &key) const

Retrieves the node from the central map by name

GetNodeMapHandle (*self*) → void *

Parameters **self** (*Spinnaker::GenApi::NodeMap const **) –

void* Spinnaker::GenApi::NodeMap::GetNodeMapHandle() const

GetNodes (*self*)

Parameters **self** (*Spinnaker::GenApi::NodeMap const **) –

virtual void Spinnaker::GenApi::NodeMap::GetNodes(NodeList_t &Nodes) const

Retrieves all nodes in the node map

GetNumNodes (*self*) → uint64_t

Parameters **self** (*Spinnaker::GenApi::NodeMap const **) –

virtual uint64_t Spinnaker::GenApi::NodeMap::GetNumNodes() const

Get the number of nodes in the map

GetProductGuid (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

virtual GenICam::gcstring Spinnaker::GenApi::NodeMap::GetProductGuid()

Get the GUID describing the product

GetSchemaVersion (*self, Version*)

Parameters **Version** (*Spinnaker::GenICam::Version_t &*) –

virtual void Spinnaker::GenApi::NodeMap::GetSchemaVersion(GenICam::Version_t &Version)

Get the schema version number

GetStandardNameSpace (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

virtual GenICam::gcstring Spinnaker::GenApi::NodeMap::GetStandardNameSpace()

Get the standard name space

GetSupportedSchemaVersions (*self*)

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

virtual void Spinnaker::GenApi::NodeMap::GetSupportedSchemaVersions(GenICam::gcstring_vector &SchemaVersions)

! Loads an XML, checks it for correctness, applies a style-sheet and outputs it void PreprocessXMLFromFile(const GenICam::gcstring& XMLFileName, const GenICam::gcstring& StyleSheetFileName, const GenICam::gcstring& OutputFileName, const uint32_t XMLValidation = xvDefault);

! Loads a Zipped XML, checks it for correctness, applies a style-sheet and outputs it void PreprocessXMLFromZipFile(const GenICam::gcstring& ZIPFileName, const GenICam::gcstring& StyleSheetFileName, const GenICam::gcstring& OutputFileName, const uint32_t XMLValidation = xvDefault);

! Injects an XML file into a target file virtual void MergeXMLFiles(const GenICam::gcstring& TargetFileName, *< Name of the target XML file to process const GenICam::gcstring& InjectedFileName, *< Name of the Injected XML file to process const GenICam::gcstring& OutputFileName *< Name of the output file);

! Extract independent subtree virtual void ExtractIndependentSubtree(const GenICam::gcstring& XMLData, *< The XML data the subtree is extracted from. const GenICam::gcstring& InjectXMLData, *< Optional XML data that is injected before extracting the subtree. No effect if an empty string is passed. const GenICam::gcstring& SubTreeRootNodeName, *< The name of the node that represents the root of the subtree that shall be extracted. GenICam::gcstring& ExtractedSubtree *< The returned extracted subtree as string.); Gets a list of supported schema versions Each list entry is a string with the format “{Major}.{Minor}” were {Major} and {Minor} are integers Example: {“1.1”, “1.2”} indicates that the schema v1.1 and v1.2 are supported. The SubMinor version number is not given since it is for fully compatible bug fixes only

GetToolTip (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

virtual GenICam::gcstring Spinnaker::GenApi::NodeMap::GetToolTip()

Get tool tip

GetVendorName (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

virtual GenICam::gcstring Spinnaker::GenApi::NodeMap::GetVendorName()

Get the vendor name

GetVersionGuid (*self*) → gcstring

Parameters **self** (*Spinnaker::GenApi::NodeMap **) –

virtual GenICam::gcstring Spinnaker::GenApi::NodeMap::GetVersionGuid()

Get the GUID describing the product version

InvalidateNodes (*self*)

Parameters **self** (*Spinnaker::GenApi::NodeMap const **) –

virtual void Spinnaker::GenApi::NodeMap::InvalidateNodes() const

Invalidates all nodes

LoadXMLFromFile (*self, FileName*)

Parameters **FileName** (*Spinnaker::GenICam::gcstring*) –

void Spinnaker::GenApi::NodeMap::LoadXMLFromFile(GenICam::gcstring FileName)

! Creates the object from the default DLL ! note Can only be used if the class TCameraParams was auto generated from a specific camera xml file void LoadDLL(void);

! Creates the object from a DLL whose name is deduced from vendor and model name void LoadDLL(GenICam::gcstring VendorName, GenICam::gcstring ModelName);

! Creates the object from a DLL with given file name void LoadDLL(GenICam::gcstring FileName);
Creates the object from a XML file with given file name

LoadXMLFromFileInject (*self, TargetFileName, InjectFileName*)

Parameters

• **TargetFileName** (*Spinnaker::GenICam::gcstring*) –

• **InjectFileName** (*Spinnaker::GenICam::gcstring*) –

void Spinnaker::GenApi::NodeMap::LoadXMLFromFileInject(GenICam::gcstring TargetFileName, GenICam::gcstring InjectFileName)

Creates the object from a XML target and an inject file with given file name

LoadXMLFromString (*self, XMLData*)

Parameters **XMLData** (*Spinnaker::GenICam::gcstring const &*) –

void Spinnaker::GenApi::NodeMap::LoadXMLFromString(const GenICam::gcstring &XMLData)

Creates the object from XML data given in a string

LoadXMLFromStringInject (*self, TargetXMLDataconst, InjectXMLData*)

Parameters

• **TargetXMLDataconst** (*Spinnaker::GenICam::gcstring const &*) –

- **InjectXMLData** (*Spinnaker::GenICam::gcstring const &*)–

void Spinnaker::GenApi::NodeMap::LoadXMLFromStringInject(const GenICam::gcstring &TargetXMLDataconst, const GenICam::gcstring &InjectXMLData)

Creates the object from XML data given in a string with injection

LoadXMLFromZIPData (*self, zipData, zipSize*)

Parameters

- **zipData** (*void const **)–
- **zipSize** (*size_t*)–

void Spinnaker::GenApi::NodeMap::LoadXMLFromZIPData(const void *zipData, size_t zipSize)

Creates the object from a ZIP'd XML file given in a string

LoadXMLFromZIPFile (*self, ZipFileName*)

Parameters **ZipFileName** (*Spinnaker::GenICam::gcstring*)–

void Spinnaker::GenApi::NodeMap::LoadXMLFromZIPFile(GenICam::gcstring ZipFileName)

Creates the object from a ZIP'd XML file with given file name

Poll (*self, ElapsedTime*)

Parameters **ElapsedTime** (*int64_t*)–

virtual void Spinnaker::GenApi::NodeMap::Poll(int64_t ElapsedTime)

Fires nodes which have a polling time

thisown

The membership flag

PySpin.**NodeMap_ClearXMLCache** () → bool

class PySpin.**PGMOption**

Bases: object

Options for saving PGM images.

C++ includes: SpinnakerDefs.h

binaryFile

PGMOption_binaryFile_get(self) -> bool

Parameters **self** (*Spinnaker::PGMOption **)–

reserved

PGMOption_reserved_get(self) -> unsigned int [16]

Parameters **self** (*Spinnaker::PGMOption **)–

thisown

The membership flag

class PySpin.**PNGOption**

Bases: object

Options for saving PNG images.

C++ includes: SpinnakerDefs.h

compressionLevel

PNGOption_compressionLevel_get(self) -> unsigned int

```

    Parameters self (Spinnaker::PNGOption *)-
interlaced
    PNGOption_interlaced_get(self) -> bool
    Parameters self (Spinnaker::PNGOption *)-
reserved
    PNGOption_reserved_get(self) -> unsigned int [16]
    Parameters self (Spinnaker::PNGOption *)-
thisown
    The membership flag
class PySpin.PPMOption
    Bases: object
    Options for saving PPM images.
    C++ includes: SpinnakerDefs.h
binaryFile
    PPMOption_binaryFile_get(self) -> bool
    Parameters self (Spinnaker::PPMOption *)-
reserved
    PPMOption_reserved_get(self) -> unsigned int [16]
    Parameters self (Spinnaker::PPMOption *)-
thisown
    The membership flag
class PySpin.RegisterNode (*args, **kwargs)
    Bases: PySpin.IRegister, PySpin.ValueNode
    Interface for string properties.
    C++ includes: RegisterNode.h
Get (self, pBuffer, Verify=False, IgnoreCache=False)
    Parameters
        • pBuffer (uint8_t *)-
        • Verify (bool)-
        • IgnoreCache (bool)-
        • pBuffer, Verify=False) (Get (self,))-
        • pBuffer -
        • Verify -
        • pBuffer) (Get (self,))-
        • pBuffer -
    virtual void Spinnaker::GenApi::RegisterNode::Get(uint8_t *pBuffer, int64_t Length, bool Verify=false,
    bool IgnoreCache=false)
    Fills a buffer with the register's contents
    pBuffer: The buffer receiving the data to read

```

Length: The number of bytes to retrieve

Verify: Enables Range verification (default = false). The AccessMode is always checked

IgnoreCache: If true the value is read ignoring any caches (default = false)

The value read

GetAddress (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::RegisterNode **) –

virtual int64_t Spinnaker::GenApi::RegisterNode::GetAddress()

Retrieves the Address of the register

GetLength (*self*) → int64_t

Parameters **self** (*Spinnaker::GenApi::RegisterNode **) –

virtual int64_t Spinnaker::GenApi::RegisterNode::GetLength()

Retrieves the Length of the register [Bytes]

Set (*self, pBuffer, Verify=True*)

Parameters

- **pBuffer** (*uint8_t const **) –
- **Verify** (*bool*) –
- **pBuffer** (*Set (self,)*) –
- **pBuffer** –

virtual void Spinnaker::GenApi::RegisterNode::Set(const uint8_t *pBuffer, int64_t Length, bool Verify=true)

Set the register's contents

pBuffer: The buffer containing the data to set

Length: The number of bytes in pBuffer

Verify: Enables AccessMode and Range verification (default = true)

SetReference (*self, pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::RegisterNode::SetReference(INode *pBase)

overload SetReference for Register

thisown

The membership flag

PySpin.**RegisterNodeCallback** (*pNode, f*)

Parameters

- **pNode** (*Spinnaker::GenApi::INode **) –
- **f** (*NodeCallback &*) –

class PySpin.**RemovalEvent**

Bases: *PySpin.IRemovalEvent*

An event handler for capturing the device removal event.

C++ includes: RemovalEvent.h

OnDeviceRemoval (*self, serialNumber*)

Parameters **serialNumber** (*uint64_t*) –

virtual void Spinnaker::RemovalEvent::OnDeviceRemoval(uint64_t serialNumber)=0

Device removal event callback.

serialNumber: The serial number of the device removed

thisown

The membership flag

PySpin.**ReplaceEnvironmentVariables** (*Buffer, ReplaceBlankBy20=False*)

Parameters

- **Buffer** (*Spinnaker::GenICam::gcstring &*) –
- **ReplaceBlankBy20** (*bool*) –
- **ReplaceEnvironmentVariables (Buffer)** –
- **Buffer** –

SPINNAKER_API void Spinnaker::GenICam::ReplaceEnvironmentVariables(gcstring &Buffer, bool ReplaceBlankBy20=false)

Replaces in a string and replace ‘ ‘ with %20

PySpin.**SetGenICamCLProtocolFolder** (*path*)

Parameters **path** (*Spinnaker::GenICam::gcstring const &*) –

SPINNAKER_API void Spinnaker::GenICam::SetGenICamCLProtocolFolder(const gcstring &path)

Stores the path of the CLProtocol folder

PySpin.**SetGenICamCacheFolder** (*path*)

Parameters **path** (*Spinnaker::GenICam::gcstring const &*) –

SPINNAKER_API void Spinnaker::GenICam::SetGenICamCacheFolder(const gcstring &path)

Stores the path of the GenICam cache folder

PySpin.**SetGenICamLogConfig** (*path*)

Parameters **path** (*Spinnaker::GenICam::gcstring const &*) –

SPINNAKER_API void Spinnaker::GenICam::SetGenICamLogConfig(const gcstring &path)

Stores the path of the GenICam logging properties file

PySpin.**SetMessageCallback** (*cb*)

Adds a callback to the updatator to handle messages from the updatator. Only gets called if the -P switch is present in the arguments passed to UpdateFirmware[Console]!

Parameters **cb** – Function to use as callback; this function must take exactly 1 argument.

PySpin.**SetProgressCallback** (*cb*)

Adds a callback to the updatator to represent update progress. Only gets called if the -P switch is present in the arguments passed to UpdateFirmware[Console]!

Parameters **cb** – Function to use as callback; this function must take exactly 4 arguments.

PySpin.**SpinUpdate_SetMsgCallback** (*messageCallbackFunction*)

Parameters `messageCallbackFunction` (`SpinUpdate::UpdaterMessageCallback`)

–

`PySpin.SpinUpdate_SetProgCallback` (`progressCallbackFunction`)

Parameters `progressCallbackFunction` (`SpinUpdate::UpdaterProgressCallback`)

–

class `PySpin.StringNode` (`*args, **kwargs`)

Bases: `PySpin.IString`, `PySpin.ValueNode`

Interface for string properties.

C++ includes: `StringNode.h`

GetMaxLength (`self`) → `int64_t`

Parameters `self` (`Spinnaker::GenApi::StringNode *`)–

virtual `int64_t` `Spinnaker::GenApi::StringNode::GetMaxLength()`

Retrieves the maximum length of the string in bytes

GetValue (`self`, `Verify=False`, `IgnoreCache=False`) → `gcstring`

Parameters

- **Verify** (`bool`)–
- **IgnoreCache** (`bool`)–
- **Verify=False** → `gcstring` (`GetValue` (`self`,)–
- **Verify** –
- → `gcstring` (`GetValue` (`self`))–
- **self** (`Spinnaker::GenApi::StringNode *`)–

virtual `GenICam::gcstring` `Spinnaker::GenApi::StringNode::GetValue`(`bool Verify=false`, `bool IgnoreCache=false`)

Get node value

Verify: Enables Range verification (default = false). The `AccessMode` is always checked

IgnoreCache: If true the value is read ignoring any caches (default = false)

The value read

SetReference (`self`, `pBase`)

Parameters `pBase` (`Spinnaker::GenApi::INode *`)–

virtual `void` `Spinnaker::GenApi::StringNode::SetReference`(`INode *pBase`)

overload `SetReference` for `Value`

SetValue (`self`, `Value`, `Verify=True`)

Parameters

- **Value** (`Spinnaker::GenICam::gcstring const &`)–
- **Verify** (`bool`)–
- **Value**) (`SetValue` (`self`,)–
- **Value** –

virtual void Spinnaker::GenApi::StringNode::SetValue(const GenICam::gcstring &Value, bool Verify=true)

Set node value

Value: The value to set

Verify: Enables AccessMode and Range verification (default = true)

thisown

The membership flag

class PySpin.**StringRegNode** (*args, **kwargs)

Bases: *PySpin.StringNode*, *PySpin.RegisterNode*

Interface for string properties.

C++ includes: StringRegNode.h

SetReference (*self*, *pBase*)

Parameters *pBase* (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::StringRegNode::SetReference(INode *pBase)

overload SetReference for Value

thisown

The membership flag

class PySpin.**System** (*args, **kwargs)

Bases: *PySpin.ISystem*

The system object is used to retrieve the list of interfaces and cameras available.

C++ includes: System.h

GetCameras (*self*, *updateInterfaces=True*, *updateCameras=True*) → *CameraList*

Parameters

- **updateInterfaces** (*bool*) –
- **updateCameras** (*bool*) –
- **updateInterfaces=True** → **CameraList** (*GetCameras* (*self*),) –
- **updateInterfaces** –
- → **CameraList** (*GetCameras* (*self*)) –
- **self** (*Spinnaker::System **) –

CameraList *Spinnaker::System::GetCameras*(bool *updateInterfaces*=true, bool *updateCameras*=true)

Returns a list of cameras that are available on the system. This call returns both GigE Vision and Usb3 Vision cameras from all interfaces. The camera list object will reference count the cameras it returns. It is important that the camera list is destroyed or is cleared before calling *system->ReleaseInstance()* or else the call to *system->ReleaseInstance()* will result in an error message thrown that a reference to the camera is still held.

See: *ReleaseInstance()*

See: *CameraList::Clear()*

updateInterfaces: Determines whether or not *updateInterfaceList()* is called before getting cameras from available interfaces on the system

`updateCameras`: Determines whether or not `UpdateCameras()` is called before getting cameras from available interfaces on the system

An `CameraList` object that contains a list of all cameras.

static `GetInstance ()` → `SystemPtr`

GetInterfaces (*self*, *updateInterface=True*) → `InterfaceList`

Parameters

- **updateInterface** (*bool*) –
- **-> InterfaceList** (`GetInterfaces (self)`) –
- **self** (`Spinnaker::System *`) –

`InterfaceList Spinnaker::System::GetInterfaces(bool updateInterface=true)`

Returns a list of interfaces available on the system. This call returns GigE and Usb2 and Usb3 interfaces.

`updateInterface`: Determines whether or not `UpdateInterfaceList()` is called before getting available interfaces

An `InterfaceList` object that contains a list of all interfaces.

GetLoggingEventPriorityLevel (*self*) → `Spinnaker::SpinnakerLogLevel`

Parameters **self** (`Spinnaker::System *`) –

`SpinnakerLogLevel Spinnaker::System::GetLoggingEventPriorityLevel()`

Retrieves the current logging event priority level.

Spinnaker uses five levels of logging: Error - failures that are non-recoverable without user intervention.

Warning - failures that are recoverable without user intervention.

Notice - information about events such as camera arrival and removal, initialization and deinitialization, starting and stopping image acquisition, and feature modification.

Info - information about recurring events that are generated regularly such as information on individual images.

Debug - information that can be used to troubleshoot the system.

See: `SpinnakerLogLevel`

Level The threshold level

IsInUse (*self*) → `bool`

Parameters **self** (`Spinnaker::System *`) –

`bool Spinnaker::System::IsInUse()`

Checks if the system is in use by any interface or camera objects.

Returns true if the system is in use and false otherwise.

RegisterInterfaceEvent (*self*, *evtToRegister*, *updateInterface=True*)

Parameters

- **evtToRegister** (`Spinnaker::Event &`) –
- **updateInterface** (*bool*) –
- **evtToRegister** (`RegisterInterfaceEvent (self,)`) –

- **evtToRegister** –

void Spinnaker::System::RegisterInterfaceEvent(Event &evtToRegister, bool updateInterface=true)

Registers events for all available interfaces that are found on the system

evtToRegister: The event to register for the available interfaces

updateInterface: Determines whether or not UpdateInterfaceList() is called before registering event for available interfaces on the system

RegisterLoggingEvent (*self*, *handler*)

Parameters **handler** (*Spinnaker::LoggingEvent &*) –

void Spinnaker::System::RegisterLoggingEvent(LoggingEvent &handler)

Registers a logging event.

handler: The logging event handler to register

ReleaseInstance (*self*)

Parameters **self** (*Spinnaker::System **) –

void Spinnaker::System::ReleaseInstance()

This call releases the instance of the System Singleton for this process. After successfully releasing the System instance the pointer returned by GetInstance() will be invalid. Calling ReleaseInstance while a camera reference is still held will throw an error of type SPINNAKER_ERR_RESOURCE_IN_USE.

See: Error

See: GetInstance()

SendActionCommand (*self*, *deviceKey*, *groupKey*, *groupMask*, *actionTime=0*, *pResultSize=None*, *results=0*)

Parameters

- **deviceKey** (*unsigned int*) –
- **groupKey** (*unsigned int*) –
- **groupMask** (*unsigned int*) –
- **actionTime** (*unsigned long long*) –
- **pResultSize** (*unsigned int **) –
- **results** (*Spinnaker::ActionCommandResult []*) –
- **deviceKey**, **groupKey**, **groupMask**, **actionTime=0**, **pResultSize=None** (*SendActionCommand(self,)*) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –
- **actionTime** –
- **pResultSize** –
- **deviceKey**, **groupKey**, **groupMask**, **actionTime=0** (*SendActionCommand(self,)*) –
- **deviceKey** –

- **groupKey** –
- **groupMask** –
- **actionTime** –
- **deviceKey, groupKey, groupMask** (`SendActionCommand(self,)`) –
- **deviceKey** –
- **groupKey** –
- **groupMask** –

`void Spinnaker::System::SendActionCommand(unsigned int deviceKey, unsigned int groupKey, unsigned int groupMask, unsigned long long actionTime=0, unsigned int *pResultSize=0, ActionCommandResult results[]=NULL)`

Broadcast an Action Command to all devices on system

deviceKey: The Action Command's device key

groupKey: The Action Command's group key

groupMask: The Action Command's group mask

actionTime: (Optional) Time when to assert a future action. Zero means immediate action.

pResultSize: (Optional) The number of results in the results array. The value passed should be equal to the expected number of devices that acknowledge the command. Returns the number of received results.

results: (Optional) An Array with *pResultSize* elements to hold the action command result status. The buffer is filled starting from index 0. If received results are less than expected number of devices that acknowledge the command, remaining results are not changed. If received results are more than expected number of devices that acknowledge the command, extra results are ignored and not appended to array. This parameter is ignored if *pResultSize* is 0. Thus this parameter can be NULL if *pResultSize* is 0 or NULL.

SetLoggingEventPriorityLevel (*self, level*)

Parameters **level** (*enum Spinnaker::SpinnakerLogLevel*) –

`void Spinnaker::System::SetLoggingEventPriorityLevel(SpinnakerLogLevel level)`

Sets a threshold priority level for logging event. Logging events below such level will not trigger callbacks.

Spinnaker uses five levels of logging: Error - failures that are non-recoverable without user intervention.

Warning - failures that are recoverable without user intervention.

Notice - information about events such as camera arrival and removal, initialization and deinitialization, starting and stopping image acquisition, and feature modification.

Info - information about recurring events that are generated regularly such as information on individual images.

Debug - information that can be used to troubleshoot the system.

See: `SpinnakerLogLevel`

level: The threshold level

UnregisterAllLoggingEvent (*self*)

Parameters **self** (*Spinnaker::System **) –

void Spinnaker::System::UnregisterAllLoggingEvent()

Unregisters all previously registered logging events.

UnregisterInterfaceEvent (*self*, *evtToUnregister*)

Parameters *evtToUnregister* (*Spinnaker::Event &*) –

void Spinnaker::System::UnregisterInterfaceEvent(Event &evtToUnregister)

Unregisters events for all available interfaces that are found on the system

evtToUnregister: The event to unregister from the available interfaces

UnregisterLoggingEvent (*self*, *handler*)

Parameters *handler* (*Spinnaker::LoggingEvent &*) –

void Spinnaker::System::UnregisterLoggingEvent(LoggingEvent &handler)

Unregisters a logging event.

handler: The logging event handler to unregister

UpdateCameras (*self*, *updateInterfaces=True*) → bool

Parameters

- **updateInterfaces** (*bool*) –
- → **bool** (*UpdateCameras (self)*) –
- **self** (*Spinnaker::System **) –

bool Spinnaker::System::UpdateCameras(bool updateInterfaces=true)

Updates the list of cameras on the system. Note that System::GetCameras() internally calls UpdateCameras() for each interface it enumerates. If the list changed between this call and the last time UpdateCameras was called then the return value will be true, otherwise it is false.

See: GetCameras()

updateInterfaces: Determines whether or not UpdateInterfaceList() is called before updating cameras for available interfaces on the system

True if cameras changed on interface and false otherwise.

thisown

The membership flag

class PySpin.**SystemPtr** (**args*)

Bases: PySpin._SWIG_SysPtr

A reference tracked pointer to a system object.

C++ includes: SystemPtr.h

thisown

The membership flag

PySpin.**System_GetInstance** () → SystemPtr

class PySpin.**TIFFOption**

Bases: object

Options for saving TIFF images.

C++ includes: SpinnakerDefs.h

ADOBE_DEFLATE = 4

CCITTFAX3 = 5

CCITTFAX4 = 6

DEFLATE = 3

JPEG = 8

LZW = 7

NONE = 1

PACKBITS = 2

compression

TIFFOption_compression_get(self) -> Spinnaker::TIFFOption::CompressionMethod

Parameters **self** (*Spinnaker::TIFFOption **) -

reserved

TIFFOption_reserved_get(self) -> unsigned int [16]

Parameters **self** (*Spinnaker::TIFFOption **) -

thisown

The membership flag

PySpin.**ThrowBadAlloc** ()

SPINNAKER_API void Spinnaker::GenICam::ThrowBadAlloc()

PySpin.**Tokenize** (*str, delimiters*)

Parameters

- **str** (*Spinnaker::GenICam::gcstring const &*) -
- **delimiters** (*Spinnaker::GenICam::gcstring const &*) -
- **Tokenize(str)** -
- **str** -

SPINNAKER_API void Spinnaker::GenICam::Tokenize(const gcstring &str, gcstring_vector &tokens, const gcstring &delimiters=" ")

splits str input string into a list of tokens using the delimiter

class PySpin.**TransportLayerDevice** (*nodeMapTLDevice*)

Bases: object

Part of the QuickSpin API to provide access to camera information without having to first initialize the camera.

C++ includes: TransportLayerDevice.h

DeviceAccessStatus

TransportLayerDevice_DeviceAccessStatus_get(self) -> IEnumerationT_DeviceAccessStatusEnum

Parameters **self** (*Spinnaker::TransportLayerDevice **) -

DeviceCurrentSpeed

TransportLayerDevice_DeviceCurrentSpeed_get(self) -> IEnumerationT_DeviceCurrentSpeedEnum

Parameters **self** (*Spinnaker::TransportLayerDevice **) -

DeviceDisplayName

TransportLayerDevice_DeviceDisplayName_get(self) -> IString

```

    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceDriverVersion
    TransportLayerDevice_DeviceDriverVersion_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceEndiannessMechanism
    TransportLayerDevice_DeviceEndiannessMechanism_get(self) -> IEnumera-
    tionT_DeviceEndiannessMechanismEnum
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceID
    TransportLayerDevice_DeviceID_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceInstanceId
    TransportLayerDevice_DeviceInstanceId_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceLinkSpeed
    TransportLayerDevice_DeviceLinkSpeed_get(self) -> IInteger
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceModelName
    TransportLayerDevice_DeviceModelName_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceMulticastMonitorMode
    TransportLayerDevice_DeviceMulticastMonitorMode_get(self) -> IBoolean
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceSerialNumber
    TransportLayerDevice_DeviceSerialNumber_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceType
    TransportLayerDevice_DeviceType_get(self) -> IEnumerationT_DeviceTypeEnum
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceUserID
    TransportLayerDevice_DeviceUserID_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceVendorName
    TransportLayerDevice_DeviceVendorName_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerDevice *) -
DeviceVersion
    TransportLayerDevice_DeviceVersion_get(self) -> IString
    Parameters self (Spinnaker::TransportLayerDevice *) -
GUIXMLLocation
    TransportLayerDevice_GUIXMLLocation_get(self) -> IEnumerationT_GUIXMLLocationEnum
    Parameters self (Spinnaker::TransportLayerDevice *) -

```

GUIXMLPath

TransportLayerDevice_GUIXMLPath_get(self) -> IString

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GenICamXMLLocation**

TransportLayerDevice_GenICamXMLLocation_get(self) -> IEnumerationT_GenICamXMLLocationEnum

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GenICamXMLPath**

TransportLayerDevice_GenICamXMLPath_get(self) -> IString

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevCCP**

TransportLayerDevice_GevCCP_get(self) -> IEnumerationT_GevCCPEnum

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDeviceDiscoverMaximumPacketSize**

TransportLayerDevice_GevDeviceDiscoverMaximumPacketSize_get(self) -> ICommand

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDeviceGateway**

TransportLayerDevice_GevDeviceGateway_get(self) -> IInteger

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDeviceIPAddress**

TransportLayerDevice_GevDeviceIPAddress_get(self) -> IInteger

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDeviceMACAddress**

TransportLayerDevice_GevDeviceMACAddress_get(self) -> IInteger

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDeviceMaximumPacketSize**

TransportLayerDevice_GevDeviceMaximumPacketSize_get(self) -> IInteger

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDeviceMaximumRetryCount**

TransportLayerDevice_GevDeviceMaximumRetryCount_get(self) -> IInteger

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDeviceModeIsBigEndian**

TransportLayerDevice_GevDeviceModeIsBigEndian_get(self) -> IBoolean

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDevicePort**

TransportLayerDevice_GevDevicePort_get(self) -> IInteger

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevDeviceReadAndWriteTimeout**

TransportLayerDevice_GevDeviceReadAndWriteTimeout_get(self) -> IInteger

Parameters *self* (*Spinnaker::TransportLayerDevice **) -

GevDeviceSubnetMask

TransportLayerDevice_GevDeviceSubnetMask_get(self) -> Integer

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevVersionMajor**

TransportLayerDevice_GevVersionMajor_get(self) -> Integer

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**GevVersionMinor**

TransportLayerDevice_GevVersionMinor_get(self) -> Integer

Parameters *self* (*Spinnaker::TransportLayerDevice **) -**thisown**

The membership flag

class PySpin.TransportLayerInterface (*nodeMapTLDevice*)

Bases: object

Part of the QuickSpin API to provide access to camera information without having to first initialize the camera.

C++ includes: TransportLayerInterface.h

ActionCommand

TransportLayerInterface_ActionCommand_get(self) -> ICommand

Parameters *self* (*Spinnaker::TransportLayerInterface **) -**AutoForceIP**

TransportLayerInterface_AutoForceIP_get(self) -> ICommand

Parameters *self* (*Spinnaker::TransportLayerInterface **) -**DeviceAccessStatus**

TransportLayerInterface_DeviceAccessStatus_get(self) -> IEnumerationT_DeviceAccessStatusEnum

Parameters *self* (*Spinnaker::TransportLayerInterface **) -**DeviceCount**

TransportLayerInterface_DeviceCount_get(self) -> Integer

Parameters *self* (*Spinnaker::TransportLayerInterface **) -**DeviceID**

TransportLayerInterface_DeviceID_get(self) -> IString

Parameters *self* (*Spinnaker::TransportLayerInterface **) -**DeviceModelName**

TransportLayerInterface_DeviceModelName_get(self) -> IString

Parameters *self* (*Spinnaker::TransportLayerInterface **) -**DeviceSelector**

TransportLayerInterface_DeviceSelector_get(self) -> Integer

Parameters *self* (*Spinnaker::TransportLayerInterface **) -**DeviceUnlock**

TransportLayerInterface_DeviceUnlock_get(self) -> IString

Parameters *self* (*Spinnaker::TransportLayerInterface **) -**DeviceUpdateList**

TransportLayerInterface_DeviceUpdateList_get(self) -> ICommand

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

DeviceVendorName
TransportLayerInterface_DeviceVendorName_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevActionDeviceKey
TransportLayerInterface_GevActionDeviceKey_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevActionGroupKey
TransportLayerInterface_GevActionGroupKey_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevActionGroupMask
TransportLayerInterface_GevActionGroupMask_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevActionTime
TransportLayerInterface_GevActionTime_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevDeviceIPAddress
TransportLayerInterface_GevDeviceIPAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevDeviceMACAddress
TransportLayerInterface_GevDeviceMACAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevDeviceSubnetMask
TransportLayerInterface_GevDeviceSubnetMask_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevInterfaceGateway
TransportLayerInterface_GevInterfaceGateway_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevInterfaceIPAddress
TransportLayerInterface_GevInterfaceIPAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevInterfaceMACAddress
TransportLayerInterface_GevInterfaceMACAddress_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

GevInterfaceSubnetMask
TransportLayerInterface_GevInterfaceSubnetMask_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

IncompatibleDeviceCount
TransportLayerInterface_IncompatibleDeviceCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface* *) –

IncompatibleDeviceID

TransportLayerInterface_IncompatibleDeviceID_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

IncompatibleDeviceModelName

TransportLayerInterface_IncompatibleDeviceModelName_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

IncompatibleDeviceSelector

TransportLayerInterface_IncompatibleDeviceSelector_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

IncompatibleDeviceVendorName

TransportLayerInterface_IncompatibleDeviceVendorName_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

InterfaceDisplayName

TransportLayerInterface_InterfaceDisplayName_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

InterfaceID

TransportLayerInterface_InterfaceID_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

InterfaceType

TransportLayerInterface_InterfaceType_get(self) -> IString

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

POEStatus

TransportLayerInterface_POEStatus_get(self) -> IEnumerationT_POEStatusEnum

Parameters **self** (*Spinnaker::TransportLayerInterface **) -

thisown

The membership flag

class PySpin.TransportLayerStream (*nodeMapTLDevice*)

Bases: object

Part of the QuickSpin API to provide access to camera information without having to first initialize the camera.

C++ includes: TransportLayerStream.h

GevFailedPacketCount

TransportLayerStream_GevFailedPacketCount_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerStream **) -

GevMaximumNumberResendBuffers

TransportLayerStream_GevMaximumNumberResendBuffers_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerStream **) -

GevMaximumNumberResendRequests

TransportLayerStream_GevMaximumNumberResendRequests_get(self) -> IInteger

Parameters **self** (*Spinnaker::TransportLayerStream **) -

GevPacketResendMode

TransportLayerStream_GevPacketResendMode_get(self) -> IBoolean

```

        Parameters self (Spinnaker::TransportLayerStream *) -
GevPacketResendTimeout
    TransportLayerStream_GevPacketResendTimeout_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
GevResendPacketCount
    TransportLayerStream_GevResendPacketCount_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
GevResendRequestCount
    TransportLayerStream_GevResendRequestCount_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
GevTotalPacketCount
    TransportLayerStream_GevTotalPacketCount_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamBlockTransferSize
    TransportLayerStream_StreamBlockTransferSize_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamBufferHandlingMode
    TransportLayerStream_StreamBufferHandlingMode_get(self) -> IEnumera-
    tionT_StreamBufferHandlingModeEnum
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamBufferUnderrunCount
    TransportLayerStream_StreamBufferUnderrunCount_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamCRCCheckEnable
    TransportLayerStream_StreamCRCCheckEnable_get(self) -> IBoolean
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamDefaultBufferCount
    TransportLayerStream_StreamDefaultBufferCount_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamDefaultBufferCountMax
    TransportLayerStream_StreamDefaultBufferCountMax_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamDefaultBufferCountMode
    TransportLayerStream_StreamDefaultBufferCountMode_get(self) -> IEnumera-
    tionT_StreamDefaultBufferCountModeEnum
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamFailedBufferCount
    TransportLayerStream_StreamFailedBufferCount_get(self) -> IInteger
        Parameters self (Spinnaker::TransportLayerStream *) -
StreamID
    TransportLayerStream_StreamID_get(self) -> IString

```

Parameters **self** (*Spinnaker::TransportLayerStream **) –

StreamTotalBufferCount
 TransportLayerStream_StreamTotalBufferCount_get(self) -> Integer

Parameters **self** (*Spinnaker::TransportLayerStream **) –

StreamType
 TransportLayerStream_StreamType_get(self) -> IEnumerationT_StreamTypeEnum

Parameters **self** (*Spinnaker::TransportLayerStream **) –

thisown
 The membership flag

PySpin.**UpdateFirmware** (*args*) → int

Parameters **args** (*char const **) –

PySpin.**UpdateFirmwareConsole** (*argc*) → int

Parameters **argc** (*int*) –

PySpin.**UrlDecode** (*Input*) → gcstring

Parameters **Input** (*Spinnaker::GenICam::gcstring const &*) –
 SPINNAKER_API gcstring Spinnaker::GenICam::UrlDecode(const gcstring &Input)
 Replaces xx escapes by their char equivalent

PySpin.**UrlEncode** (*Input*) → gcstring

Parameters **Input** (*Spinnaker::GenICam::gcstring const &*) –
 SPINNAKER_API gcstring Spinnaker::GenICam::UrlEncode(const gcstring &Input)
 Converts to / and replaces all unsafe characters by their xx equivalent

class PySpin.**ValueNode** (**args, **kwargs*)
 Bases: *PySpin.IValue, PySpin.Node*
 Interface for value properties.
 C++ includes: ValueNode.h

FromString (*self, ValueStr, Verify=True*)

Parameters

- **ValueStr** (*Spinnaker::GenICam::gcstring const &*) –
- **Verify** (*bool*) –
- **ValueStr** (*FromString(self,)*) –
- **ValueStr** –

virtual void Spinnaker::GenApi::ValueNode::FromString(const GenICam::gcstring &ValueStr, bool Verify=true)

Set content of the node as string

ValueStr: The value to set

Verify: Enables AccessMode and Range verification (default = true)

GetNode (*self*) → INode

Parameters **self** (*Spinnaker::GenApi::ValueNode **) –

virtual INode* Spinnaker::GenApi::ValueNode::GetNode()

IsValidCacheValid (*self*) → bool

Parameters **self** (*Spinnaker::GenApi::ValueNode const **) –

virtual bool Spinnaker::GenApi::ValueNode::IsValidCacheValid() const

Checks if the value comes from cache or is requested from another node

SetReference (*self, pBase*)

Parameters **pBase** (*Spinnaker::GenApi::INode **) –

virtual void Spinnaker::GenApi::ValueNode::SetReference(INode *pBase)

overload SetReference for Value

ToString (*self, Verify=False, IgnoreCache=False*) → gcstring

Parameters

- **Verify** (*bool*) –
- **IgnoreCache** (*bool*) –
- **Verify=False** → **gcstring** (**ToString** (*self*,) –
- **Verify** –
- → **gcstring** (**ToString** (*self*)) –
- **self** (*Spinnaker::GenApi::ValueNode **) –

virtual GenICam::gcstring Spinnaker::GenApi::ValueNode::ToString(bool Verify=false, bool IgnoreCache=false)

Get content of the node as string

Verify: Enables Range verification (default = false). The AccessMode is always checked

IgnoreCache: If true the value is read ignoring any caches (default = false)

The value read

thisown

The membership flag

class PySpin.**Version_t**

Bases: object

Version

C++ includes: GCTypes.h

Major

Version_t_Major_get(self) -> uint16_t

Parameters **self** (*Spinnaker::GenICam::Version_t **) –

Minor

Version_t_Minor_get(self) -> uint16_t

Parameters **self** (*Spinnaker::GenICam::Version_t **) –

SubMinor

Version_t_SubMinor_get(self) -> uint16_t

Parameters **self** (*Spinnaker::GenICam::Version_t **) –

thisown

The membership flag

class PySpin.**double_autovector_t** (*args)

Bases: object

Vector of doubles with reference counting.

C++ includes: Autovector.h

size (*self*) → size_t

Parameters **self** (*Spinnaker::GenApi::double_autovector_t const **) –

size_t *Spinnaker::GenApi::double_autovector_t::size()* const

thisown

The membership flag

class PySpin.**gcstring** (*args)

Bases: object

Proxy of C++ Spinnaker::GenICam::gcstring class.

append (*self, str*) → gcstring

Parameters

- **str** (*Spinnaker::GenICam::gcstring const &*) –
- **count, ch** → **gcstring** (*append* (*self,*) –
- **count** (*size_t*) –
- **ch** (*char*) –

virtual gcstring& *Spinnaker::GenICam::gcstring::append*(size_t count, char ch)

assign (*self, str*) → gcstring

Parameters

- **str** (*Spinnaker::GenICam::gcstring const &*) –
- **count, ch** → **gcstring** (*assign* (*self,*) –
- **count** (*size_t*) –
- **ch** (*char*) –
- **pc** → **gcstring** (*assign* (*self,*) –
- **pc** (*char const **) –
- **pc, n** → **gcstring** (*assign* (*self,*) –
- **pc** –
- **n** (*size_t*) –

virtual gcstring& *Spinnaker::GenICam::gcstring::assign*(const char *pc, size_t n)

c_str (*self*) → char const *

Parameters **self** (*Spinnaker::GenICam::gcstring const **) –

virtual const char* *Spinnaker::GenICam::gcstring::c_str*(void) const

compare (*self, str*) → int

Parameters **str** (*Spinnaker::GenICam::gcstring const &*) -
virtual int Spinnaker::GenICam::gcstring::compare(const gcstring &str) const
empty (*self*) → bool

Parameters **self** (*Spinnaker::GenICam::gcstring const **) -
virtual bool Spinnaker::GenICam::gcstring::empty(void) const
find (*self, ch, offset=0*) → size_t

Parameters

- **ch** (*char*) -
- **offset** (*size_t*) -
- **ch** → **size_t** (*find(self,)*) -
- **ch** -
- **str, offset=0** → **size_t** (*find(self,)*) -
- **str** (*Spinnaker::GenICam::gcstring const &*) -
- **offset** -
- **str** → **size_t** (*find(self,)*) -
- **str** -
- **str, offset, count** → **size_t** (*find(self,)*) -
- **str** -
- **offset** -
- **count** (*size_t*) -
- **pc, offset=0** → **size_t** (*find(self,)*) -
- **pc** (*char const **) -
- **offset** -
- **pc** → **size_t** (*find(self,)*) -
- **pc** -
- **pc, offset, count** → **size_t** (*find(self,)*) -
- **pc** -
- **offset** -
- **count** -

virtual size_t Spinnaker::GenICam::gcstring::find(const char *pc, size_t offset, size_t count) const
find_first_not_of (*self, str, offset=0*) → size_t

Parameters

- **str** (*Spinnaker::GenICam::gcstring const &*) -
- **offset** (*size_t*) -
- **str** → **size_t** (*find_first_not_of(self,)*) -
- **str** -

virtual size_t Spinnaker::GenICam::gcstring::find_first_not_of(const gcstring &str, size_t offset=0) const
find_first_of (*self*, *str*, *offset=0*) → size_t

Parameters

- **str** (*Spinnaker::GenICam::gcstring const &*) –
- **offset** (*size_t*) –
- **str** → **size_t** (*find_first_of(self)*) –
- **str** –

virtual size_t Spinnaker::GenICam::gcstring::find_first_of(const gcstring &str, size_t offset=0) const
length (*self*) → size_t

Parameters **self** (*Spinnaker::GenICam::gcstring const **) –

virtual size_t Spinnaker::GenICam::gcstring::length(void) const

max_size (*self*) → size_t

Parameters **self** (*Spinnaker::GenICam::gcstring const **) –

virtual size_t Spinnaker::GenICam::gcstring::max_size() const

npos = 18446744073709551615

resize (*self*, *n*)

Parameters **n** (*size_t*) –

virtual void Spinnaker::GenICam::gcstring::resize(size_t n)

size (*self*) → size_t

Parameters **self** (*Spinnaker::GenICam::gcstring const **) –

virtual size_t Spinnaker::GenICam::gcstring::size(void) const

substr (*self*, *offset=0*, *count*) → gcstring

Parameters

- **offset** (*size_t*) –
- **count** (*size_t*) –
- **offset=0** → **gcstring** (*substr(self)*) –
- **offset** –
- → **gcstring** (*substr(self)*) –
- **self** (*Spinnaker::GenICam::gcstring const **) –

virtual gcstring Spinnaker::GenICam::gcstring::substr(size_t offset=0, size_t count=GCSTRING_NPOS) const

swap (*self*, *Right*)

Parameters **Right** (*Spinnaker::GenICam::gcstring &*) –

virtual void Spinnaker::GenICam::gcstring::swap(gcstring &Right)

thisown

The membership flag

PySpin.**gcstring__npos** () → size_t

```
class PySpin.int64_autovector_t (*args)
    Bases: object

    Vector of integers with reference counting.

    C++ includes: Autovector.h

    size (self) → size_t

        Parameters self (Spinnaker::GenApi::int64_autovector_t const *) –
        size_t Spinnaker::GenApi::int64_autovector_t::size() const

    thisown
        The membership flag

class PySpin.node_vector (*args)
    Bases: object

    Proxy of C++ Spinnaker::GenApi::node_vector class.

    assign (self, n, val)

        Parameters
            • n (size_t) –
            • val (Spinnaker::GenApi::node_vector::T const &) –

    at (self, uiIndex) → INode

        Parameters
            • uiIndex (size_t) –
            • uiIndex → INode (at (self,)) –
            • uiIndex –

    back (self) → INode
        back(self) → INode

        Parameters self (Spinnaker::GenApi::node_vector const *) –

    begin (self) → Spinnaker::GenApi::node_vector::iterator
        begin(self) → Spinnaker::GenApi::node_vector::const_iterator

        Parameters self (Spinnaker::GenApi::node_vector const *) –

    capacity (self) → size_t

        Parameters self (Spinnaker::GenApi::node_vector const *) –

    clear (self)

        Parameters self (Spinnaker::GenApi::node_vector *) –

    empty (self) → bool

        Parameters self (Spinnaker::GenApi::node_vector const *) –

    end (self) → Spinnaker::GenApi::node_vector::iterator
        end(self) → Spinnaker::GenApi::node_vector::const_iterator

        Parameters self (Spinnaker::GenApi::node_vector const *) –

    erase (self, pos) → Spinnaker::GenApi::node_vector::iterator

        Parameters
```

- **pos** (*Spinnaker::GenApi::node_vector::iterator*)–
- **uiIndex** (*erase(self)*)–
- **uiIndex** (*size_t*)–

front (*self*) → *INode*
front(self) → *INode*

Parameters *self* (*Spinnaker::GenApi::node_vector const **)–

insert (*self, pos, val*) → *Spinnaker::GenApi::node_vector::iterator*

Parameters

- **pos** (*Spinnaker::GenApi::node_vector::iterator*)–
- **val** (*Spinnaker::GenApi::node_vector::T const &*)–
- **uiIndex, val** (*insert(self)*)–
- **uiIndex** (*size_t*)–
- **val** –

max_size (*self*) → *size_t*

Parameters *self* (*Spinnaker::GenApi::node_vector const **)–

pop_back (*self*)

Parameters *self* (*Spinnaker::GenApi::node_vector **)–

push_back (*self, val*)

Parameters *val* (*Spinnaker::GenApi::node_vector::T const &*)–

reserve (*self, uiSize*)

Parameters *uiSize* (*size_t*)–

resize (*self, uiSize*)

Parameters *uiSize* (*size_t*)–

size (*self*) → *size_t*

Parameters *self* (*Spinnaker::GenApi::node_vector const **)–

thisown
 The membership flag

class *PySpin.value_vector* (*args)
 Bases: *object*
 Proxy of C++ *Spinnaker::GenApi::value_vector* class.

assign (*self, n, obj*)

Parameters

- **n** (*size_t*)–
- **obj** (*Spinnaker::GenApi::value_vector::T const &*)–

at (*self, uiIndex*) → *IValue*

Parameters

- **uiIndex** (*size_t*)–

- **uiIndex**) → IValue (at (self,)-
- **uiIndex** -

back (self) → IValue
back(self) -> IValue

Parameters self (Spinnaker::GenApi::value_vector const *)-

begin (self) → Spinnaker::GenApi::value_vector::iterator
begin(self) -> Spinnaker::GenApi::value_vector::const_iterator

Parameters self (Spinnaker::GenApi::value_vector const *)-

capacity (self) → size_t

Parameters self (Spinnaker::GenApi::value_vector const *)-

clear (self)

Parameters self (Spinnaker::GenApi::value_vector *)-

empty (self) → bool

Parameters self (Spinnaker::GenApi::value_vector const *)-

end (self) → Spinnaker::GenApi::value_vector::iterator
end(self) -> Spinnaker::GenApi::value_vector::const_iterator

Parameters self (Spinnaker::GenApi::value_vector const *)-

erase (self, pos) → Spinnaker::GenApi::value_vector::iterator

Parameters

- **pos** (Spinnaker::GenApi::value_vector::iterator)-
- **uiIndex** (erase (self,)-
- **uiIndex** (size_t)-

front (self) → IValue
front(self) -> IValue

Parameters self (Spinnaker::GenApi::value_vector const *)-

insert (self, pos, val) → Spinnaker::GenApi::value_vector::iterator

Parameters

- **pos** (Spinnaker::GenApi::value_vector::iterator)-
- **val** (Spinnaker::GenApi::value_vector::T const &)-
- **uiIndex, val** (insert (self,)-
- **uiIndex** (size_t)-
- **val** -

max_size (self) → size_t

Parameters self (Spinnaker::GenApi::value_vector const *)-

pop_back (self)

Parameters self (Spinnaker::GenApi::value_vector *)-

push_back (self, val)

Parameters **val** (*Spinnaker::GenApi::value_vector::T const &*)-

reserve (*self, uiSize*)

Parameters **uiSize** (*size_t*)-

resize (*self, uiSize, val*)

Parameters

- **uiSize** (*size_t*)-
- **val** (*Spinnaker::GenApi::value_vector::T const &*)-

size (*self*) → *size_t*

Parameters **self** (*Spinnaker::GenApi::value_vector const **)-

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