
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.ptgrey.com>.

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 © 2017 FLIR Integrated Imaging Solutions, 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.
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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/a9l9yA

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) -> Integer

    Parameters self (Spinnaker::Camera *) –

ChunkCounterSelector
    Camera_ChunkCounterSelector_get(self) -> IEnumerationT_ChunkCounterSelectorEnums

    Parameters self (Spinnaker::Camera *) –

ChunkCounterValue
    Camera_ChunkCounterValue_get(self) -> Integer

    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) -> Integer

    Parameters self (Spinnaker::Camera *) –

ChunkExposureEndLineStatusAll
    Camera_ChunkExposureEndLineStatusAll_get(self) -> Integer

    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) -> Integer

    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) -> Integer

    Parameters self (Spinnaker::Camera *) –

ChunkTransferQueueCurrentBlockCount
    Camera_ChunkTransferQueueCurrentBlockCount_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) –

ChunkTransferStreamID
    Camera_ChunkTransferStreamID_get(self) -> IEnumerationT_ChunkTransferStreamIDEnums

    Parameters self (Spinnaker::Camera *) –

ChunkWidth
    Camera_ChunkWidth_get(self) -> Integer

    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) -> Integer

    Parameters self (Spinnaker::Camera *) –

CounterDuration
    Camera_CounterDuration_get(self) -> Integer

    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) -> Integer

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

Camera_DefectTableCoordinateY_get(self) -> Integer

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

Camera_DefectTableFactoryRestore_get(self) -> ICommand

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

Camera_DefectTableIndex_get(self) -> Integer

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

Camera_DefectTablePixelCount_get(self) -> Integer

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) -> Integer

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

Camera_DeviceConnectionSpeed_get(self) -> Integer

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

Camera_DeviceConnectionStatus_get(self) -> IEnumerationT_DeviceConnectionStatusEnums

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

Camera_DeviceEventChannelCount_get(self) -> Integer

```

    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) -> Integer

    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) -> Integer

    Parameters self (Spinnaker::Camera *) –

DeviceSFNCVersionMinor
    Camera_DeviceSFNCVersionMinor_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) –

DeviceSFNCVersionSubMinor
    Camera_DeviceSFNCVersionSubMinor_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) –

DeviceScanType
    Camera_DeviceScanType_get(self) -> IEnumerationT_DeviceScanTypeEnums

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

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

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

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

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

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

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

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

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

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

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

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

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

EventCounter1StartTimestamp
Camera_EventCounter1StartTimestamp_get(self) -> IInteger

```

    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) -> 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) -> Integer

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

Camera_EventLinkTrigger1FrameID_get(self) -> Integer

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

Camera_EventLinkTrigger1Timestamp_get(self) -> Integer

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) -> Integer

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

Camera_EventSequencerSetChangeFrameID_get(self) -> Integer

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

Camera_EventSequencerSetChangeTimestamp_get(self) -> Integer

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

Camera_EventSerialData_get(self) -> IString

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

Camera_EventSerialDataLength_get(self) -> Integer

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

Camera_EventSerialPortReceive_get(self) -> Integer

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

Camera_EventSerialPortReceiveTimestamp_get(self) -> Integer

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

Camera_EventSerialReceiveOverflow_get(self) -> IBoolean

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

Camera_EventStream0TransferBlockEnd_get(self) -> Integer


```

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockEndFrameID
    Camera_EventStream0TransferBlockEndFrameID_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockEndTimestamp
    Camera_EventStream0TransferBlockEndTimestamp_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockStart
    Camera_EventStream0TransferBlockStart_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockStartFrameID
    Camera_EventStream0TransferBlockStartFrameID_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockStartTimestamp
    Camera_EventStream0TransferBlockStartTimestamp_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockTrigger
    Camera_EventStream0TransferBlockTrigger_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockTriggerFrameID
    Camera_EventStream0TransferBlockTriggerFrameID_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBlockTriggerTimestamp
    Camera_EventStream0TransferBlockTriggerTimestamp_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBurstEnd
    Camera_EventStream0TransferBurstEnd_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBurstEndFrameID
    Camera_EventStream0TransferBurstEndFrameID_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBurstEndTimestamp
    Camera_EventStream0TransferBurstEndTimestamp_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBurstStart
    Camera_EventStream0TransferBurstStart_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) -

EventStream0TransferBurstStartFrameID
    Camera_EventStream0TransferBurstStartFrameID_get(self) -> Integer

    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) -> 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) -> Integer
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) -> Integer

        Parameters self (Spinnaker::Camera *) –

FileAccessBuffer
    Camera_FileAccessBuffer_get(self) -> IRegister

        Parameters self (Spinnaker::Camera *) –

FileAccessLength
    Camera_FileAccessLength_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

FileAccessOffset
    Camera_FileAccessOffset_get(self) -> Integer

        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) -> Integer

        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) -> Integer

        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 *) -

GevGVCPHeartbeatDisable
    Camera_GevGVCPHeartbeatDisable_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) -> Integer

        Parameters self (Spinnaker::Camera *) –

GevPersistentSubnetMask
    Camera_GevPersistentSubnetMask_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

GevPhysicalLinkConfiguration
    Camera_GevPhysicalLinkConfiguration_get(self) -> IEnumerationT_GevPhysicalLinkConfigurationEnums

        Parameters self (Spinnaker::Camera *) –

GevPrimaryApplicationIPAddress
    Camera_GevPrimaryApplicationIPAddress_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

GevPrimaryApplicationSocket
    Camera_GevPrimaryApplicationSocket_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

GevPrimaryApplicationSwitchoverKey
    Camera_GevPrimaryApplicationSwitchoverKey_get(self) -> Integer

        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) -> Integer

        Parameters self (Spinnaker::Camera *) –

GevSCPD
    Camera_GevSCPD_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

GevSCPDDirection
    Camera_GevSCPDDirection_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

```

GevSCPHostPort

Camera_GevSCPHostPort_get(self) -> Integer

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

Camera_GevSCPInterfaceIndex_get(self) -> Integer

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

Camera_GevSCPSBigEndian_get(self) -> Boolean

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

Camera_GevSCPSDoNotFragment_get(self) -> Boolean

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

Camera_GevSCPSFireTestPacket_get(self) -> Boolean

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

Camera_GevSCSPPacketSize_get(self) -> Integer

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

Camera_GevSCSP_get(self) -> Integer

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

Camera_GevSCZoneConfigurationLock_get(self) -> Boolean

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

Camera_GevSCZoneCount_get(self) -> Integer

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

Camera_GevSCZoneDirectionAll_get(self) -> Integer

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

Camera_GevSecondURL_get(self) -> String

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

Camera_GevStreamChannelSelector_get(self) -> Integer

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

Camera_GevSupportedOption_get(self) -> Boolean

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

Camera_GevSupportedOptionSelector_get(self) -> EnumerationT_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  
    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) -> Integer  
    Parameters self (Spinnaker::Camera *) –  
OffsetY  
    Camera_OffsetY_get(self) -> Integer  
    Parameters self (Spinnaker::Camera *) –  
PacketResendRequestCount  
    Camera_PacketResendRequestCount_get(self) -> Integer  
    Parameters self (Spinnaker::Camera *) –  
PayloadSize  
    Camera_PayloadSize_get(self) -> Integer  
    Parameters self (Spinnaker::Camera *) –  
PixelColorFilter  
    Camera_PixelColorFilter_get(self) -> IEnumerationT_PixelColorFilterEnums  
    Parameters self (Spinnaker::Camera *) –  
PixelDynamicRangeMax  
    Camera_PixelDynamicRangeMax_get(self) -> Integer  
    Parameters self (Spinnaker::Camera *) –  
PixelDynamicRangeMin  
    Camera_PixelDynamicRangeMin_get(self) -> Integer  
    Parameters self (Spinnaker::Camera *) –  
PixelFormat  
    Camera_PixelFormat_get(self) -> IEnumerationT_PixelFormatEnums  
    Parameters self (Spinnaker::Camera *) –  
PixelFormatInfoID  
    Camera_PixelFormatInfoID_get(self) -> Integer  
    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) -> IEnumera-
    tionT_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) -> Integer  
  
    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) -> Integer  
  
    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 *) -

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

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 **) -

DeviceEndiannessMechanism

`TransportLayerDevice_DeviceEndiannessMechanism_get(self) -> IEnumerationT_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) -> 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) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

GevActionTime
    TransportLayerInterface_GevActionTime_get(self) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

GevDeviceIPAddress
    TransportLayerInterface_GevDeviceIPAddress_get(self) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

GevDeviceMACAddress
    TransportLayerInterface_GevDeviceMACAddress_get(self) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

GevDeviceSubnetMask
    TransportLayerInterface_GevDeviceSubnetMask_get(self) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

GevInterfaceGateway
    TransportLayerInterface_GevInterfaceGateway_get(self) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

GevInterfaceIPAddress
    TransportLayerInterface_GevInterfaceIPAddress_get(self) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

GevInterfaceMACAddress
    TransportLayerInterface_GevInterfaceMACAddress_get(self) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

GevInterfaceSubnetMask
    TransportLayerInterface_GevInterfaceSubnetMask_get(self) -> Integer

    Parameters self (Spinnaker::TransportLayerInterface *) -

IncompatibleDeviceCount
    TransportLayerInterface_IncompatibleDeviceCount_get(self) -> Integer

    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) -> Integer

    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

IsValueCacheValid (*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
IsValueCacheValid (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 *) –

IsCachable (*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 **) –

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< 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

IsValueCacheValid (*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) CCommandPtr

    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

IsValueCacheValid (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 continuesFor *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** (**ToStdString** (*self*)) –
- **Verify** –
- → **gcstring** (**ToStdString** (*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

IsValueCacheValid (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 **) –

IsCachable (*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 **) –

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< 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) -> Integer

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

Camera_ActionGroupKey_get(self) -> Integer

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

Camera_ActionGroupMask_get(self) -> Integer

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

Camera_ActionQueueSize_get(self) -> Integer

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

Camera_ActionSelector_get(self) -> Integer

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) -> Integer

        Parameters self (Spinnaker::Camera *) –

ChunkModeActive
    Camera_ChunkModeActive_get(self) -> IBoolean

        Parameters self (Spinnaker::Camera *) –

ChunkOffsetX
    Camera_ChunkOffsetX_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

ChunkOffsetY
    Camera_ChunkOffsetY_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

ChunkPartSelector
    Camera_ChunkPartSelector_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

ChunkPixelDynamicRangeMax
    Camera_ChunkPixelDynamicRangeMax_get(self) -> Integer

        Parameters self (Spinnaker::Camera *) –

ChunkPixelDynamicRangeMin
    Camera_ChunkPixelDynamicRangeMin_get(self) -> Integer

        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) -> IEnumerationT_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) -> 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) -> Integer

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

Camera_ChunkSerialData_get(self) -> IString

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

Camera_ChunkSerialDataLength_get(self) -> Integer

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) -> Integer

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) -> Integer

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

Camera_ChunkTimestampLatchValue_get(self) -> Integer

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

Camera_ChunkTransferBlockID_get(self) -> Integer

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

Camera_ChunkTransferQueueCurrentBlockCount_get(self) -> Integer

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

Camera_ChunkTransferStreamID_get(self) -> IEnumerationT_ChunkTransferStreamIDEnums

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

Camera_ChunkWidth_get(self) -> Integer

```
    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) -> Integer  
Parameters self (Spinnaker::Camera *) –  
DefectTableCoordinateY  
Camera_DefectTableCoordinateY_get(self) -> Integer  
Parameters self (Spinnaker::Camera *) –  
DefectTableFactoryRestore  
Camera_DefectTableFactoryRestore_get(self) -> ICommand  
Parameters self (Spinnaker::Camera *) –  
DefectTableIndex  
Camera_DefectTableIndex_get(self) -> Integer  
Parameters self (Spinnaker::Camera *) –
```


DefectTablePixelCount

Camera_DefectTablePixelCount_get(self) -> Integer

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) -> Integer

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

Camera_DeviceConnectionSpeed_get(self) -> Integer

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

Camera_DeviceConnectionStatus_get(self) -> IEnumerationT_DeviceConnectionStatusEnums

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

Camera_DeviceEventChannelCount_get(self) -> Integer

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) -> Integer

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

Camera_DeviceManifestPrimaryURL_get(self) -> IString

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

Camera_DeviceManifestSchemaMajorVersion_get(self) -> Integer

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

Camera_DeviceManifestSchemaMinorVersion_get(self) -> Integer

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

Camera_DeviceManifestSecondaryURL_get(self) -> IString

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

Camera_DeviceManifestXMLMajorVersion_get(self) -> Integer

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

Camera_DeviceManifestXMLMinorVersion_get(self) -> Integer

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

Camera_DeviceManifestXMLSubMinorVersion_get(self) -> Integer

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

Camera_DeviceManufacturerInfo_get(self) -> IString

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

Camera_DeviceMaxThroughput_get(self) -> Integer

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

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

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

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

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

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

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

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

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

EventCounter1StartTimestamp
Camera_EventCounter1StartTimestamp_get(self) -> IInteger
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) -> 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) -> 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) -> Integer  
Parameters self (Spinnaker::Camera *) –  
EventLinkTrigger1FrameID  
Camera_EventLinkTrigger1FrameID_get(self) -> Integer  
Parameters self (Spinnaker::Camera *) –  
EventLinkTrigger1Timestamp  
Camera_EventLinkTrigger1Timestamp_get(self) -> Integer  
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) -> Integer

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

Camera_EventSequencerSetChangeFrameID_get(self) -> Integer

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

Camera_EventSequencerSetChangeTimestamp_get(self) -> Integer

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

Camera_EventSerialData_get(self) -> IString

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

Camera_EventSerialDataLength_get(self) -> Integer

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

Camera_EventSerialPortReceive_get(self) -> Integer

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

Camera_EventSerialPortReceiveTimestamp_get(self) -> Integer

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

Camera_EventSerialReceiveOverflow_get(self) -> IBoolean

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

Camera_EventStream0TransferBlockEnd_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) -**EventStream0TransferBlockEndFrameID**

Camera_EventStream0TransferBlockEndFrameID_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) -**EventStream0TransferBlockEndTimestamp**

Camera_EventStream0TransferBlockEndTimestamp_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) -**EventStream0TransferBlockStart**

Camera_EventStream0TransferBlockStart_get(self) -> Integer

Parameters **self** (*Spinnaker::Camera **) -**EventStream0TransferBlockStartFrameID**

Camera_EventStream0TransferBlockStartFrameID_get(self) -> Integer

```
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBlockStartTimestamp  
Camera_EventStream0TransferBlockStartTimestamp_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBlockTrigger  
Camera_EventStream0TransferBlockTrigger_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBlockTriggerFrameID  
Camera_EventStream0TransferBlockTriggerFrameID_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBlockTriggerTimestamp  
Camera_EventStream0TransferBlockTriggerTimestamp_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBurstEnd  
Camera_EventStream0TransferBurstEnd_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBurstEndFrameID  
Camera_EventStream0TransferBurstEndFrameID_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBurstEndTimestamp  
Camera_EventStream0TransferBurstEndTimestamp_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBurstStart  
Camera_EventStream0TransferBurstStart_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBurstStartFrameID  
Camera_EventStream0TransferBurstStartFrameID_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferBurstStartTimestamp  
Camera_EventStream0TransferBurstStartTimestamp_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferEnd  
Camera_EventStream0TransferEnd_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferEndFrameID  
Camera_EventStream0TransferEndFrameID_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –  
EventStream0TransferEndTimestamp  
Camera_EventStream0TransferEndTimestamp_get(self) -> Integer  
  
Parameters self (Spinnaker::Camera *) –
```


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

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

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

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

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

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

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

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

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

EventStream0TransferStart
Camera_EventStream0TransferStart_get(self) -> IIInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferStartFrameID
Camera_EventStream0TransferStartFrameID_get(self) -> IIInteger
Parameters self (Spinnaker::Camera *) -

EventStream0TransferStartTimestamp
Camera_EventStream0TransferStartTimestamp_get(self) -> IIInteger
Parameters self (Spinnaker::Camera *) -

EventTest
Camera_EventTest_get(self) -> IIInteger
Parameters self (Spinnaker::Camera *) -

EventTestTimestamp
Camera_EventTestTimestamp_get(self) -> IIInteger

```
    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) -> Integer  
    Parameters self (Spinnaker::Camera *) –  
FileAccessOffset  
    Camera_FileAccessOffset_get(self) -> Integer  
    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) -> Integer  
    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) -> Integer  
    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 **) –**GevGVCPHeartbeatDisable**

Camera_GevGVCPHeartbeatDisable_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) -> Integer

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

Camera_GevMCDA_get(self) -> Integer

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

Camera_GevMCPHostPort_get(self) -> Integer

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

Camera_GevMCRC_get(self) -> Integer

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

Camera_GevMCSP_get(self) -> Integer

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

Camera_GevMCTT_get(self) -> Integer

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

Camera_GevNumberOfInterfaces_get(self) -> Integer

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) -> Integer

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

Camera_GevPersistentIPAddress_get(self) -> Integer

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

Camera_GevPersistentSubnetMask_get(self) -> Integer

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

Camera_GevPhysicalLinkConfiguration_get(self) -> IEnumerationT_GevPhysicalLinkConfigurationEnums

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

Camera_GevPrimaryApplicationIPAddress_get(self) -> Integer

```
    Parameters self (Spinnaker::Camera *) –  
GevPrimaryApplicationSocket  
    Camera_GevPrimaryApplicationSocket_get(self) -> Integer  
  
    Parameters self (Spinnaker::Camera *) –  
GevPrimaryApplicationSwitchoverKey  
    Camera_GevPrimaryApplicationSwitchoverKey_get(self) -> Integer  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCCFGAllInTransmission  
    Camera_GevSCCFGAllInTransmission_get(self) -> Boolean  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCCFGExtendedChunkData  
    Camera_GevSCCFGExtendedChunkData_get(self) -> Boolean  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCCFGPacketResendDestination  
    Camera_GevSCCFGPacketResendDestination_get(self) -> Boolean  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCCFGUnconditionalStreaming  
    Camera_GevSCCFGUnconditionalStreaming_get(self) -> Boolean  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCDA  
    Camera_GevSCDA_get(self) -> Integer  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCPD  
    Camera_GevSCPD_get(self) -> Integer  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCPDirection  
    Camera_GevSCPDirection_get(self) -> Integer  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCPHostPort  
    Camera_GevSCPHostPort_get(self) -> Integer  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCPInterfaceIndex  
    Camera_GevSCPInterfaceIndex_get(self) -> Integer  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCPSBigEndian  
    Camera_GevSCPSBigEndian_get(self) -> Boolean  
  
    Parameters self (Spinnaker::Camera *) –  
GevSCPSPDoNotFragment  
    Camera_GevSCPSPDoNotFragment_get(self) -> Boolean  
  
    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
```

```

        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) -> 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) -> Integer

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) -> Integer

Parameters **self** (*Spinnaker::Camera **) –**U3VCPCapability**

Camera_U3VCPCapability_get(self) -> Integer

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) -> Integer

Parameters **self** (*Spinnaker::Camera **) –**U3VMaxCommandTransferLength**

Camera_U3VMaxCommandTransferLength_get(self) -> Integer

```

    Parameters self (Spinnaker::Camera *) –

U3VMaxDeviceResponseTime
    Camera_U3VMaxDeviceResponseTime_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) –

U3VMessageChannelID
    Camera_U3VMessageChannelID_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) –

U3VNumberOfStreamChannels
    Camera_U3VNumberOfStreamChannels_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) –

U3VVersionMajor
    Camera_U3VVersionMajor_get(self) -> Integer

    Parameters self (Spinnaker::Camera *) –

U3VVersionMinor
    Camera_U3VVersionMinor_get(self) -> Integer

    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) -> Integer

    Parameters self (Spinnaker::Camera *) –

UserOutputValueAllMask
    Camera_UserOutputValueAllMask_get(self) -> Integer

    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 Spin-
 naker::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** (*ToString (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** (*ToString (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*) \rightarrow 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*) \rightarrow 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 DEPRICATED, 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*) \rightarrow *IEnumEntry*

Parameters Value (*enum Spinnaker::CounterEventSourceEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) \rightarrow *Spinnaker::CounterEventSourceEnums*

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-

:param GetValue(*self*, *Verify=False*) \rightarrow *Spinnaker::CounterEventSourceEnums*:

Parameters Verify (*bool*)-

:param GetValue(*self*) \rightarrow *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*) \rightarrow *IEnumEntry*

Parameters

- **Verify** (*bool*)-
- **IgnoreCache** (*bool*)-
- **Verify=False**) \rightarrow *IEnumEntry (GetCurrentEntry (self,))-*
- **Verify** -
- `-> IEnumEntry (GetCurrentEntry (self))-`
- **self** (*Spinnaker::GenApi::IEnumerationT<CounterResetActivationEnums > **)-

GetEntry (*self*, *Value*) \rightarrow *IEnumEntry*

Parameters Value (*enum Spinnaker::CounterResetActivationEnums const*)-

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) \rightarrow *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*) \rightarrow *IEnumEntry*

Parameters **Value** (*enum Spinnaker::ExposureAutoEnums const*) -

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) \rightarrow *Spinnaker::ExposureAutoEnums*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -

:param GetValue(*self*, *Verify=False*) \rightarrow *Spinnaker::ExposureAutoEnums*:

Parameters **Verify** (*bool*) -

:param GetValue(*self*) \rightarrow *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*) \rightarrow *IEnumEntry*

Parameters

- **Verify** (*bool*) -
- **IgnoreCache** (*bool*) -
- **Verify=False** \rightarrow *IEnumEntry (GetCurrentEntry (self,)) -*
- **Verify** -
- `-> IEnumEntry (GetCurrentEntry (self)) -`
- `self (Spinnaker::GenApi::IEnumerationT< ExposureModeEnums > *) -`

GetEntry (*self*, *Value*) \rightarrow *IEnumEntry*

Parameters **Value** (*enum Spinnaker::ExposureModeEnums const*) -

GetValue (*self*, *Verify=False*, *IgnoreCache=False*) \rightarrow *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 then 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` –
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- `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) –
GetEntryByName

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 –

- **ptr** (*Spinnaker::GenApi::CPointer< Spinnaker::GenApi::IFloat, Spinnaker::GenApi::IBase > const &*) –
- -> **bool** –
- **ptr** –
- -> **bool** –
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- -> **bool** –

bool Spinnaker::GenApi::IsAvailable(const Spinnaker::GenApi::CPointer< T, B > &ptr)

Checks if a node is Available

PySpin.**IsCacheable** (*CachingMode*) → **bool**

Parameters **CachingMode** (*enum Spinnaker::GenApi::ECachingMode*) –

bool Spinnaker::GenApi::IsCacheable(ECachingMode CachingMode)

Tests Cacheability

PySpin.**IsImplemented** (*AccessMode*) → **bool**

Parameters

- **AccessMode** (*enum Spinnaker::GenApi::EAccessMode*) –
- -> **bool** (*IsImplemented(ptr)*) –

[illegible]

```
bool Spinnaker::GenApi::IsImplemented(const Spinnaker::GenApi::CPointer< T, B > &ptr)
```

Checks if a node is Implemented

PySpin.**IsReadable** (*AccessMode*) → bool

Parameters

- **AccessMode** (enum *Spinnaker::GenApi::EAccessMode*) -
- **-> bool** (*IsReadable* (ptr)) -

- **p**(*Spinnaker::GenApi::IBase const **) –
- **-> bool** –
- **r**(*Spinnaker::GenApi::IBase const &*) –
- **-> bool** –
- **ptr** (*Spinnaker::GenApi::CPointer< Spinnaker::GenApi::IFloat, Spinnaker::GenApi::IBase > const &*) –
- **-> bool** –
- **ptr** –
- **-> bool** –
- **ptr** –
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- **-> bool** –

bool Spinnaker::GenApi::IsReadable(const Spinnaker::GenApi::CPointer< T, B > &ptr)

Checks if a node is readable

PySpin.**IsVisible** (*Visibility, MaxVisiblity*) \rightarrow bool

Parameters

- **Visibility** (*enum Spinnaker::GenApi::EVisibility*) –
- **MaxVisiblity** (*enum Spinnaker::GenApi::EVisibility*) –

```
bool Spinnaker::GenApi::IsVisible(EVisibility Visibility, EVisibility MaxVisibility)
```

Tests Visibility CAVE : this relies on the EVisibility enum's coding

`PySpin.IsWritable` (*AccessMode*) \rightarrow bool

Parameters

- [illegible]

```
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 *)-
DeviceEndianessMechanism
    TransportLayerDevice_DeviceEndianessMechanism_get(self) -> IEnumera-
    tionT_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) -> 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) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) –
GevResendPacketCount
    TransportLayerStream_GevResendPacketCount_get(self) -> Integer
    Parameters self (Spinnaker::TransportLayerStream *) –
GevResendRequestCount
    TransportLayerStream_GevResendRequestCount_get(self) -> Integer
    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.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()

IsValueCacheValid (self) → bool

    Parameters self (Spinnaker::GenApi::ValueNode const *) –
    virtual bool Spinnaker::GenApi::ValueNode::IsValueCacheValid() 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 Ignore-
    Cache=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 **) –

thisown
The membership flag

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