



FlyCapture 2.5

C Language API Programming Reference

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Point Grey Research Inc.

12051 Riverside Way • Richmond, BC • Canada • V6W 1K7 • T (604) 242-9937 •
www.ptgrey.com

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Chapter 2

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Chapter 3

Data Structure Documentation

3.1 fc2AVIOption Struct Reference

Data Fields

- float [frameRate](#)
- unsigned int [reserved](#) [256]

3.1.1 Field Documentation

3.1.1.1 float frameRate

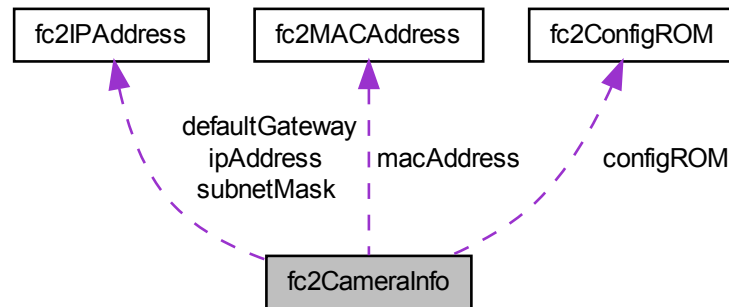
3.1.1.2 unsigned int reserved[256]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.2 fc2CameraInfo Struct Reference

Collaboration diagram for fc2CameraInfo:



Data Fields

- unsigned int [serialNumber](#)
- [fc2InterfaceType](#) interfaceType
- [fc2DriverType](#) driverType
- [BOOL](#) isColorCamera
- char [modelName](#) [MAX_STRING_LENGTH]
- char [vendorName](#) [MAX_STRING_LENGTH]
- char [sensorInfo](#) [MAX_STRING_LENGTH]
- char [sensorResolution](#) [MAX_STRING_LENGTH]
- char [driverName](#) [MAX_STRING_LENGTH]
- char [firmwareVersion](#) [MAX_STRING_LENGTH]
- char [firmwareBuildTime](#) [MAX_STRING_LENGTH]
- [fc2BusSpeed](#) maximumBusSpeed
- [fc2PCleBusSpeed](#) pcieBusSpeed
- [fc2BayerTileFormat](#) bayerTileFormat
- unsigned short [busNumber](#)
- unsigned short [nodeNumber](#)
- unsigned int [iicVer](#)
- [fc2ConfigROM](#) configROM
- unsigned int [gigEMajorVersion](#)
- unsigned int [gigEMinorVersion](#)
- char [userDefinedName](#) [MAX_STRING_LENGTH]
- char [xmlURL1](#) [MAX_STRING_LENGTH]
- char [xmlURL2](#) [MAX_STRING_LENGTH]

- [fc2MACAddress](#) `macAddress`
- [fc2IPAddress](#) `ipAddress`
- [fc2IPAddress](#) `subnetMask`
- [fc2IPAddress](#) `defaultGateway`
- unsigned int [ccpStatus](#)
Status/Content of CCP register.
- unsigned int [applicationIPAddress](#)
Local Application IP Address.
- unsigned int [applicationPort](#)
Local Application port.
- unsigned int [reserved](#) [16]

3.2.1 Field Documentation

3.2.1.1 unsigned int `applicationIPAddress`

Local Application IP Address.

3.2.1.2 unsigned int `applicationPort`

Local Application port.

3.2.1.3 `fc2BayerTileFormat` `bayerTileFormat`

3.2.1.4 unsigned short `busNumber`

3.2.1.5 unsigned int `ccpStatus`

Status/Content of CCP register.

3.2.1.6 `fc2ConfigROM` `configROM`

3.2.1.7 `fc2IPAddress` `defaultGateway`

3.2.1.8 char `driverName`[MAX_STRING_LENGTH]

3.2.1.9 `fc2DriverType` `driverType`

3.2.1.10 char `firmwareBuildTime`[MAX_STRING_LENGTH]

3.2.1.11 char `firmwareVersion`[MAX_STRING_LENGTH]

3.2.1.12 unsigned int `gigEMajorVersion`

- 3.2.1.13 unsigned int `gigEMinorVersion`
- 3.2.1.14 unsigned int `iidcVer`
- 3.2.1.15 `fc2InterfaceType` `interfaceType`
- 3.2.1.16 `fc2IPAddress` `ipAddress`
- 3.2.1.17 `BOOL` `isColorCamera`
- 3.2.1.18 `fc2MACAddress` `macAddress`
- 3.2.1.19 `fc2BusSpeed` `maximumBusSpeed`
- 3.2.1.20 `char` `modelName`[MAX_STRING_LENGTH]
- 3.2.1.21 unsigned short `nodeNumber`
- 3.2.1.22 `fc2PCleBusSpeed` `pcieBusSpeed`
- 3.2.1.23 unsigned int `reserved`[16]
- 3.2.1.24 `char` `sensorInfo`[MAX_STRING_LENGTH]
- 3.2.1.25 `char` `sensorResolution`[MAX_STRING_LENGTH]
- 3.2.1.26 unsigned int `serialNumber`
- 3.2.1.27 `fc2IPAddress` `subnetMask`
- 3.2.1.28 `char` `userDefinedName`[MAX_STRING_LENGTH]
- 3.2.1.29 `char` `vendorName`[MAX_STRING_LENGTH]
- 3.2.1.30 `char` `xmIURL1`[MAX_STRING_LENGTH]
- 3.2.1.31 `char` `xmIURL2`[MAX_STRING_LENGTH]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.3 `fc2Config` Struct Reference

Data Fields

- unsigned int `numBuffers`

- unsigned int [numImageNotifications](#)
- unsigned int [minNumImageNotifications](#)
- int [grabTimeout](#)
- [fc2GrabMode](#) [grabMode](#)
- [fc2BusSpeed](#) [isochBusSpeed](#)
- [fc2BusSpeed](#) [asyncBusSpeed](#)
- [fc2BandwidthAllocation](#) [bandwidthAllocation](#)
- unsigned int [registerTimeoutRetries](#)
- unsigned int [registerTimeout](#)
- unsigned int [reserved](#) [16]

3.3.1 Field Documentation

3.3.1.1 [fc2BusSpeed](#) [asyncBusSpeed](#)

3.3.1.2 [fc2BandwidthAllocation](#) [bandwidthAllocation](#)

3.3.1.3 [fc2GrabMode](#) [grabMode](#)

3.3.1.4 int [grabTimeout](#)

3.3.1.5 [fc2BusSpeed](#) [isochBusSpeed](#)

3.3.1.6 unsigned int [minNumImageNotifications](#)

3.3.1.7 unsigned int [numBuffers](#)

3.3.1.8 unsigned int [numImageNotifications](#)

3.3.1.9 unsigned int [registerTimeout](#)

3.3.1.10 unsigned int [registerTimeoutRetries](#)

3.3.1.11 unsigned int [reserved](#)[16]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.4 fc2ConfigROM Struct Reference

Data Fields

- unsigned int [nodeVendorId](#)
- unsigned int [chipIdHi](#)

- unsigned int [chipIdLo](#)
- unsigned int [unitSpecId](#)
- unsigned int [unitSWVer](#)
- unsigned int [unitSubSWVer](#)
- unsigned int [vendorUniqueInfo_0](#)
- unsigned int [vendorUniqueInfo_1](#)
- unsigned int [vendorUniqueInfo_2](#)
- unsigned int [vendorUniqueInfo_3](#)
- char [pszKeyword](#) [MAX_STRING_LENGTH]
- unsigned int [reserved](#) [16]

3.4.1 Field Documentation

3.4.1.1 unsigned int [chipIdHi](#)

3.4.1.2 unsigned int [chipIdLo](#)

3.4.1.3 unsigned int [nodeVendorId](#)

3.4.1.4 char [pszKeyword](#)[MAX_STRING_LENGTH]

3.4.1.5 unsigned int [reserved](#)[16]

3.4.1.6 unsigned int [unitSpecId](#)

3.4.1.7 unsigned int [unitSubSWVer](#)

3.4.1.8 unsigned int [unitSWVer](#)

3.4.1.9 unsigned int [vendorUniqueInfo_0](#)

3.4.1.10 unsigned int [vendorUniqueInfo_1](#)

3.4.1.11 unsigned int [vendorUniqueInfo_2](#)

3.4.1.12 unsigned int [vendorUniqueInfo_3](#)

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.5 fc2EmbeddedImageInfo Struct Reference

Collaboration diagram for fc2EmbeddedImageInfo:



Data Fields

- [fc2EmbeddedImageInfoProperty timestamp](#)
- [fc2EmbeddedImageInfoProperty gain](#)
- [fc2EmbeddedImageInfoProperty shutter](#)
- [fc2EmbeddedImageInfoProperty brightness](#)
- [fc2EmbeddedImageInfoProperty exposure](#)
- [fc2EmbeddedImageInfoProperty whiteBalance](#)
- [fc2EmbeddedImageInfoProperty frameCounter](#)
- [fc2EmbeddedImageInfoProperty strobePattern](#)
- [fc2EmbeddedImageInfoProperty GPIOPinState](#)
- [fc2EmbeddedImageInfoProperty ROIPosition](#)

3.5.1 Field Documentation

3.5.1.1 fc2EmbeddedImageInfoProperty brightness

- 3.5.1.2 `fc2EmbeddedImageInfoProperty` exposure
- 3.5.1.3 `fc2EmbeddedImageInfoProperty` frameCounter
- 3.5.1.4 `fc2EmbeddedImageInfoProperty` gain
- 3.5.1.5 `fc2EmbeddedImageInfoProperty` GPIOPinState
- 3.5.1.6 `fc2EmbeddedImageInfoProperty` ROIPosition
- 3.5.1.7 `fc2EmbeddedImageInfoProperty` shutter
- 3.5.1.8 `fc2EmbeddedImageInfoProperty` strobePattern
- 3.5.1.9 `fc2EmbeddedImageInfoProperty` timestamp
- 3.5.1.10 `fc2EmbeddedImageInfoProperty` whiteBalance

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.6 `fc2EmbeddedImageInfoProperty` Struct Reference

Data Fields

- [BOOL](#) available
- [BOOL](#) onOff

3.6.1 Field Documentation

- 3.6.1.1 **BOOL** available
- 3.6.1.2 **BOOL** onOff

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.7 `fc2Format7ImageSettings` Struct Reference

Data Fields

- [fc2Mode](#) mode

- unsigned int [offsetX](#)
- unsigned int [offsetY](#)
- unsigned int [width](#)
- unsigned int [height](#)
- [fc2PixelFormat](#) [pixelFormat](#)
- unsigned int [reserved](#) [8]

3.7.1 Field Documentation

3.7.1.1 unsigned int [height](#)

3.7.1.2 [fc2Mode](#) [mode](#)

3.7.1.3 unsigned int [offsetX](#)

3.7.1.4 unsigned int [offsetY](#)

3.7.1.5 [fc2PixelFormat](#) [pixelFormat](#)

3.7.1.6 unsigned int [reserved](#)[8]

3.7.1.7 unsigned int [width](#)

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.8 fc2Format7Info Struct Reference

Data Fields

- [fc2Mode](#) [mode](#)
- unsigned int [maxWidth](#)
- unsigned int [maxHeight](#)
- unsigned int [offsetHStepSize](#)
- unsigned int [offsetVStepSize](#)
- unsigned int [imageHStepSize](#)
- unsigned int [imageVStepSize](#)
- unsigned int [pixelFormatBitField](#)
- unsigned int [vendorPixelFormatBitField](#)
- unsigned int [packetSize](#)
- unsigned int [minPacketSize](#)
- unsigned int [maxPacketSize](#)
- float [percentage](#)
- unsigned int [reserved](#) [16]

3.8.1 Field Documentation

3.8.1.1 unsigned int imageHStepSize

3.8.1.2 unsigned int imageVStepSize

3.8.1.3 unsigned int maxHeight

3.8.1.4 unsigned int maxPacketSize

3.8.1.5 unsigned int maxWidth

3.8.1.6 unsigned int minPacketSize

3.8.1.7 fc2Mode mode

3.8.1.8 unsigned int offsetHStepSize

3.8.1.9 unsigned int offsetVStepSize

3.8.1.10 unsigned int packetSize

3.8.1.11 float percentage

3.8.1.12 unsigned int pixelFormatBitField

3.8.1.13 unsigned int reserved[16]

3.8.1.14 unsigned int vendorPixelFormatBitField

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.9 fc2Format7PacketInfo Struct Reference

Data Fields

- unsigned int [recommendedBytesPerPacket](#)
- unsigned int [maxBytesPerPacket](#)
- unsigned int [unitBytesPerPacket](#)
- unsigned int [reserved](#) [8]

3.9.1 Field Documentation

3.9.1.1 unsigned int `maxBytesPerPacket`

3.9.1.2 unsigned int `recommendedBytesPerPacket`

3.9.1.3 unsigned int `reserved`[8]

3.9.1.4 unsigned int `unitBytesPerPacket`

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.10 fc2GigEConfig Struct Reference

Data Fields

- [BOOL](#) `enablePacketResend`
Turn on/off packet resend functionality.
- unsigned int [timeoutForPacketResend](#)
The number of milliseconds to wait for each requested packet.
- unsigned int [maxPacketsToResend](#)
The max number of packets that can be requested to be resend.
- unsigned int [reserved](#) [8]

3.10.1 Field Documentation

3.10.1.1 **BOOL** `enablePacketResend`

Turn on/off packet resend functionality.

3.10.1.2 unsigned int `maxPacketsToResend`

The max number of packets that can be requested to be resend.

3.10.1.3 unsigned int `reserved`[8]

3.10.1.4 unsigned int `timeoutForPacketResend`

The number of milliseconds to wait for each requested packet.

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.11 fc2GigEImageSettings Struct Reference

Data Fields

- unsigned int [offsetX](#)
- unsigned int [offsetY](#)
- unsigned int [width](#)
- unsigned int [height](#)
- [fc2PixelFormat](#) [pixelFormat](#)
- unsigned int [reserved](#) [8]

3.11.1 Field Documentation

3.11.1.1 unsigned int [height](#)

3.11.1.2 unsigned int [offsetX](#)

3.11.1.3 unsigned int [offsetY](#)

3.11.1.4 [fc2PixelFormat](#) [pixelFormat](#)

3.11.1.5 unsigned int [reserved](#)[8]

3.11.1.6 unsigned int [width](#)

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.12 fc2GigEImageSettingsInfo Struct Reference

Data Fields

- unsigned int [maxWidth](#)
- unsigned int [maxHeight](#)
- unsigned int [offsetHStepSize](#)
- unsigned int [offsetVStepSize](#)
- unsigned int [imageHStepSize](#)
- unsigned int [imageVStepSize](#)
- unsigned int [pixelFormatBitField](#)
- unsigned int [vendorPixelFormatBitField](#)
- unsigned int [reserved](#) [16]

3.12.1 Field Documentation

3.12.1.1 unsigned int imageHStepSize

3.12.1.2 unsigned int imageVStepSize

3.12.1.3 unsigned int maxHeight

3.12.1.4 unsigned int maxWidth

3.12.1.5 unsigned int offsetHStepSize

3.12.1.6 unsigned int offsetVStepSize

3.12.1.7 unsigned int pixelFormatBitField

3.12.1.8 unsigned int reserved[16]

3.12.1.9 unsigned int vendorPixelFormatBitField

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.13 fc2GigEProperty Struct Reference

Data Fields

- [fc2GigEPropertyType propType](#)
- [BOOL isReadable](#)
- [BOOL isWritable](#)
- unsigned int [min](#)
- unsigned int [max](#)
- unsigned int [value](#)
- unsigned int [reserved](#) [8]

3.13.1 Field Documentation

3.13.1.1 **BOOL isReadable**

3.13.1.2 **BOOL isWritable**

3.13.1.3 unsigned int max

3.13.1.4 unsigned int min

3.13.1.5 fc2GigEPropertyType propType

3.13.1.6 unsigned int reserved[8]

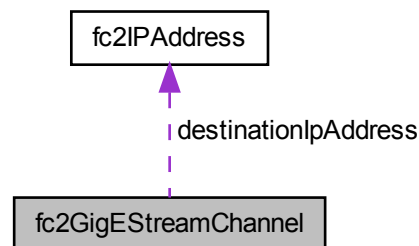
3.13.1.7 unsigned int value

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.14 fc2GigEStreamChannel Struct Reference

Collaboration diagram for fc2GigEStreamChannel:



Data Fields

- unsigned int [networkInterfaceIndex](#)
- unsigned int [hostPost](#)
- [BOOL](#) [doNotFragment](#)
- unsigned int [packetSize](#)
- unsigned int [interPacketDelay](#)
- [fc2IPAddress](#) [destinationIpAddress](#)
- unsigned int [sourcePort](#)
- unsigned int [reserved](#) [8]

3.14.1 Field Documentation

3.14.1.1 fc2IPAddress destinationIpAddress

3.14.1.2 **BOOL doNotFragment**

3.14.1.3 **unsigned int hostPost**

3.14.1.4 **unsigned int interPacketDelay**

3.14.1.5 **unsigned int networkInterfaceIndex**

3.14.1.6 **unsigned int packetSize**

3.14.1.7 **unsigned int reserved[8]**

3.14.1.8 **unsigned int sourcePort**

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.15 fc2H264Option Struct Reference

Data Fields

- float [frameRate](#)
- unsigned int [width](#)
- unsigned int [height](#)
- unsigned int [bitrate](#)
- unsigned int [reserved](#) [256]

3.15.1 Field Documentation

3.15.1.1 **unsigned int bitrate**

3.15.1.2 **float frameRate**

3.15.1.3 **unsigned int height**

3.15.1.4 **unsigned int reserved[256]**

3.15.1.5 **unsigned int width**

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.16 fc2Image Struct Reference

Data Fields

- unsigned int [rows](#)
- unsigned int [cols](#)
- unsigned int [stride](#)
- unsigned char * [pData](#)
- unsigned int [dataSize](#)
- unsigned int [receivedDataSize](#)
- [fc2PixelFormat](#) format
- [fc2BayerTileFormat](#) bayerFormat
- [fc2ImageImpl](#) imageImpl

3.16.1 Field Documentation

3.16.1.1 [fc2BayerTileFormat](#) bayerFormat

3.16.1.2 unsigned int cols

3.16.1.3 unsigned int dataSize

3.16.1.4 [fc2PixelFormat](#) format

3.16.1.5 [fc2ImageImpl](#) imageImpl

3.16.1.6 unsigned char* pData

3.16.1.7 unsigned int receivedDataSize

3.16.1.8 unsigned int rows

3.16.1.9 unsigned int stride

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.17 fc2ImageMetadata Struct Reference

Data Fields

- unsigned int [embeddedTimeStamp](#)
- unsigned int [embeddedGain](#)
- unsigned int [embeddedShutter](#)

- unsigned int [embeddedBrightness](#)
- unsigned int [embeddedExposure](#)
- unsigned int [embeddedWhiteBalance](#)
- unsigned int [embeddedFrameCounter](#)
- unsigned int [embeddedStrobePattern](#)
- unsigned int [embeddedGPIOPinState](#)
- unsigned int [embeddedROIPosition](#)
- unsigned int [reserved](#) [31]

3.17.1 Field Documentation

- 3.17.1.1 unsigned int [embeddedBrightness](#)
- 3.17.1.2 unsigned int [embeddedExposure](#)
- 3.17.1.3 unsigned int [embeddedFrameCounter](#)
- 3.17.1.4 unsigned int [embeddedGain](#)
- 3.17.1.5 unsigned int [embeddedGPIOPinState](#)
- 3.17.1.6 unsigned int [embeddedROIPosition](#)
- 3.17.1.7 unsigned int [embeddedShutter](#)
- 3.17.1.8 unsigned int [embeddedStrobePattern](#)
- 3.17.1.9 unsigned int [embeddedTimeStamp](#)
- 3.17.1.10 unsigned int [embeddedWhiteBalance](#)
- 3.17.1.11 unsigned int [reserved](#)[31]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.18 fc2InternalContext Struct Reference

Data Fields

- FlyCapture2::BusManager * [pBusMgr](#)
- FlyCapture2::CameraBase * [pCamera](#)

3.18.1 Field Documentation

3.18.1.1 FlyCapture2::BusManager* pBusMgr

3.18.1.2 FlyCapture2::CameraBase* pCamera

The documentation for this struct was generated from the following file:

- [FlyCapture2Internal_C.h](#)

3.19 fc2InternalGuiContext Struct Reference

Data Fields

- FlyCapture2::CameraSelectionDlg * [pCameraSelectionDlg](#)
- FlyCapture2::CameraControlDlg * [pCameraControlDlg](#)

3.19.1 Field Documentation

3.19.1.1 FlyCapture2::CameraControlDlg* pCameraControlDlg

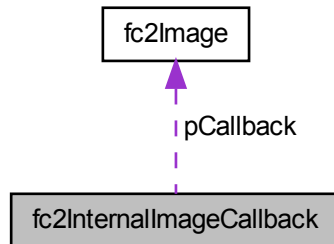
3.19.1.2 FlyCapture2::CameraSelectionDlg* pCameraSelectionDlg

The documentation for this struct was generated from the following file:

- [FlyCapture2Internal_C.h](#)

3.20 fc2InternalImageCallback Struct Reference

Collaboration diagram for fc2InternalImageCallback:



Data Fields

- [fc2ImageEventCallback](#) pCallback
- void * [pCallbackData](#)

3.20.1 Field Documentation

3.20.1.1 [fc2ImageEventCallback](#) pCallback

3.20.1.2 void* [pCallbackData](#)

The documentation for this struct was generated from the following file:

- [FlyCapture2Internal_C.h](#)

3.21 fc2IPAddress Struct Reference

Data Fields

- unsigned char [octets](#) [4]

3.21.1 Field Documentation

3.21.1.1 unsigned char octets[4]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.22 fc2JPEGOption Struct Reference

Data Fields

- [BOOL progressive](#)
- unsigned int [quality](#)
- unsigned int [reserved](#) [16]

3.22.1 Field Documentation

3.22.1.1 BOOL progressive

3.22.1.2 unsigned int quality

3.22.1.3 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.23 fc2JPG2Option Struct Reference

Data Fields

- unsigned int [quality](#)
- unsigned int [reserved](#) [16]

3.23.1 Field Documentation

3.23.1.1 unsigned int quality

3.23.1.2 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.24 fc2LUTData Struct Reference

Data Fields

- [BOOL supported](#)
- [BOOL enabled](#)
- unsigned int [numBanks](#)
- unsigned int [numChannels](#)
- unsigned int [inputBitDepth](#)
- unsigned int [outputBitDepth](#)
- unsigned int [numEntries](#)
- unsigned int [reserved](#) [8]

3.24.1 Field Documentation

3.24.1.1 [BOOL enabled](#)

3.24.1.2 [unsigned int inputBitDepth](#)

3.24.1.3 [unsigned int numBanks](#)

3.24.1.4 [unsigned int numChannels](#)

3.24.1.5 [unsigned int numEntries](#)

3.24.1.6 [unsigned int outputBitDepth](#)

3.24.1.7 [unsigned int reserved\[8\]](#)

3.24.1.8 [BOOL supported](#)

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.25 fc2MACAddress Struct Reference

Data Fields

- unsigned char [octets](#) [6]

3.25.1 Field Documentation

3.25.1.1 unsigned char octets[6]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.26 fc2MJPGOption Struct Reference

Data Fields

- float [frameRate](#)
- unsigned int [quality](#)
- unsigned int [reserved](#) [256]

3.26.1 Field Documentation

3.26.1.1 float frameRate

3.26.1.2 unsigned int quality

3.26.1.3 unsigned int reserved[256]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.27 fc2PGMOption Struct Reference

Data Fields

- [BOOL](#) [binaryFile](#)
- unsigned int [reserved](#) [16]

3.27.1 Field Documentation

3.27.1.1 BOOL binaryFile

3.27.1.2 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.28 fc2PGRGuid Struct Reference

A GUID to the camera.

Data Fields

- unsigned int [value](#) [4]

3.28.1 Detailed Description

A GUID to the camera.

It is used to uniquely identify a camera.

3.28.2 Field Documentation

3.28.2.1 unsigned int [value](#)[4]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.29 fc2PNGOption Struct Reference

Data Fields

- [BOOL](#) [interlaced](#)
- unsigned int [compressionLevel](#)
- unsigned int [reserved](#) [16]

3.29.1 Field Documentation

3.29.1.1 unsigned int [compressionLevel](#)

3.29.1.2 [BOOL](#) [interlaced](#)

3.29.1.3 unsigned int [reserved](#)[16]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.30 fc2PPMOption Struct Reference

Data Fields

- [BOOL](#) `binaryFile`
- unsigned int [reserved](#) [16]

3.30.1 Field Documentation

3.30.1.1 [BOOL](#) `binaryFile`

3.30.1.2 unsigned int [reserved](#)[16]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.31 fc2StrobeControl Struct Reference

Data Fields

- unsigned int [source](#)
- [BOOL](#) `onOff`
- unsigned int [polarity](#)
- float [delay](#)
- float [duration](#)
- unsigned int [reserved](#) [8]

3.31.1 Field Documentation

3.31.1.1 float [delay](#)

3.31.1.2 float [duration](#)

3.31.1.3 [BOOL](#) `onOff`

3.31.1.4 unsigned int [polarity](#)

3.31.1.5 unsigned int [reserved](#)[8]

3.31.1.6 unsigned int [source](#)

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.32 fc2StrobeInfo Struct Reference

Data Fields

- unsigned int [source](#)
- **BOOL** [present](#)
- **BOOL** [readOutSupported](#)
- **BOOL** [onOffSupported](#)
- **BOOL** [polaritySupported](#)
- float [minValue](#)
- float [maxValue](#)
- unsigned int [reserved](#) [8]

3.32.1 Field Documentation

3.32.1.1 float [maxValue](#)

3.32.1.2 float [minValue](#)

3.32.1.3 **BOOL** [onOffSupported](#)

3.32.1.4 **BOOL** [polaritySupported](#)

3.32.1.5 **BOOL** [present](#)

3.32.1.6 **BOOL** [readOutSupported](#)

3.32.1.7 unsigned int [reserved](#)[8]

3.32.1.8 unsigned int [source](#)

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.33 fc2SystemInfo Struct Reference

Data Fields

- [fc2OSType](#) [osType](#)
- char [osDescription](#) [MAX_STRING_LENGTH]
- [fc2ByteOrder](#) [byteOrder](#)
- size_t [sysMemSize](#)
- char [cpuDescription](#) [MAX_STRING_LENGTH]
- size_t [numCpuCores](#)

- char [driverList](#) [MAX_STRING_LENGTH]
- char [libraryList](#) [MAX_STRING_LENGTH]
- char [gpuDescription](#) [MAX_STRING_LENGTH]
- size_t [screenWidth](#)
- size_t [screenHeight](#)
- unsigned int [reserved](#) [16]

3.33.1 Field Documentation

3.33.1.1 **fc2ByteOrder** `byteOrder`

3.33.1.2 **char** `cpuDescription`[MAX_STRING_LENGTH]

3.33.1.3 **char** `driverList`[MAX_STRING_LENGTH]

3.33.1.4 **char** `gpuDescription`[MAX_STRING_LENGTH]

3.33.1.5 **char** `libraryList`[MAX_STRING_LENGTH]

3.33.1.6 **size_t** `numCpuCores`

3.33.1.7 **char** `osDescription`[MAX_STRING_LENGTH]

3.33.1.8 **fc2OSType** `osType`

3.33.1.9 **unsigned int** `reserved`[16]

3.33.1.10 **size_t** `screenHeight`

3.33.1.11 **size_t** `screenWidth`

3.33.1.12 **size_t** `sysMemSize`

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.34 fc2TIFFOption Struct Reference

Data Fields

- [fc2TIFFCompressionMethod](#) `compression`
- unsigned int [reserved](#) [16]

3.34.1 Field Documentation

3.34.1.1 fc2TIFFCompressionMethod compression

3.34.1.2 unsigned int reserved[16]

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.35 fc2TimeStamp Struct Reference

Data Fields

- long long [seconds](#)
- unsigned int [microSeconds](#)
- unsigned int [cycleSeconds](#)
- unsigned int [cycleCount](#)
- unsigned int [cycleOffset](#)
- unsigned int [reserved](#) [8]

3.35.1 Field Documentation

3.35.1.1 unsigned int cycleCount

3.35.1.2 unsigned int cycleOffset

3.35.1.3 unsigned int cycleSeconds

3.35.1.4 unsigned int microSeconds

3.35.1.5 unsigned int reserved[8]

3.35.1.6 long long seconds

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.36 fc2TriggerDelay Struct Reference

Data Fields

- [fc2PropertyType](#) type

- [BOOL present](#)
- [BOOL absControl](#)
- [BOOL onePush](#)
- [BOOL onOff](#)
- [BOOL autoManualMode](#)
- unsigned int [valueA](#)
- unsigned int [valueB](#)
- float [absValue](#)
- unsigned int [reserved](#) [8]

3.36.1 Field Documentation

3.36.1.1 BOOL absControl

3.36.1.2 float absValue

3.36.1.3 BOOL autoManualMode

3.36.1.4 BOOL onePush

3.36.1.5 BOOL onOff

3.36.1.6 BOOL present

3.36.1.7 unsigned int reserved[8]

3.36.1.8 fc2PropertyType type

3.36.1.9 unsigned int valueA

3.36.1.10 unsigned int valueB

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.37 fc2TriggerDelayInfo Struct Reference

Data Fields

- [fc2PropertyType type](#)
- [BOOL present](#)
- [BOOL autoSupported](#)
- [BOOL manualSupported](#)
- [BOOL onOffSupported](#)

- [BOOL onePushSupported](#)
- [BOOL absValSupported](#)
- [BOOL readOutSupported](#)
- unsigned int [min](#)
- unsigned int [max](#)
- float [absMin](#)
- float [absMax](#)
- char [pUnits](#) [MAX_STRING_LENGTH]
- char [pUnitAbbr](#) [MAX_STRING_LENGTH]
- unsigned int [reserved](#) [8]

3.37.1 Field Documentation

3.37.1.1 float [absMax](#)

3.37.1.2 float [absMin](#)

3.37.1.3 **BOOL** [absValSupported](#)

3.37.1.4 **BOOL** [autoSupported](#)

3.37.1.5 **BOOL** [manualSupported](#)

3.37.1.6 unsigned int [max](#)

3.37.1.7 unsigned int [min](#)

3.37.1.8 **BOOL** [onePushSupported](#)

3.37.1.9 **BOOL** [onOffSupported](#)

3.37.1.10 **BOOL** [present](#)

3.37.1.11 char [pUnitAbbr](#)[MAX_STRING_LENGTH]

3.37.1.12 char [pUnits](#)[MAX_STRING_LENGTH]

3.37.1.13 **BOOL** [readOutSupported](#)

3.37.1.14 unsigned int [reserved](#)[8]

3.37.1.15 **fc2PropertyType** type

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.38 fc2TriggerMode Struct Reference

Data Fields

- [BOOL onOff](#)
- unsigned int [polarity](#)
- unsigned int [source](#)
- unsigned int [mode](#)
- unsigned int [parameter](#)
- unsigned int [reserved](#) [8]

3.38.1 Field Documentation

3.38.1.1 unsigned int **mode**

3.38.1.2 **BOOL onOff**

3.38.1.3 unsigned int **parameter**

3.38.1.4 unsigned int **polarity**

3.38.1.5 unsigned int **reserved**[8]

3.38.1.6 unsigned int **source**

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.39 fc2TriggerModelInfo Struct Reference

Data Fields

- [BOOL present](#)
- [BOOL readOutSupported](#)
- [BOOL onOffSupported](#)
- [BOOL polaritySupported](#)
- [BOOL valueReadable](#)
- unsigned int [sourceMask](#)
- [BOOL softwareTriggerSupported](#)
- unsigned int [modeMask](#)
- unsigned int [reserved](#) [8]

3.39.1 Field Documentation

3.39.1.1 unsigned int modeMask

3.39.1.2 BOOL onOffSupported

3.39.1.3 BOOL polaritySupported

3.39.1.4 BOOL present

3.39.1.5 BOOL readOutSupported

3.39.1.6 unsigned int reserved[8]

3.39.1.7 BOOL softwareTriggerSupported

3.39.1.8 unsigned int sourceMask

3.39.1.9 BOOL valueReadable

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

3.40 fc2Version Struct Reference

Data Fields

- unsigned int [major](#)
- unsigned int [minor](#)
- unsigned int [type](#)
- unsigned int [build](#)

3.40.1 Field Documentation

3.40.1.1 unsigned int build

3.40.1.2 unsigned int major

3.40.1.3 unsigned int minor

3.40.1.4 unsigned int type

The documentation for this struct was generated from the following file:

- [FlyCapture2Defs_C.h](#)

Chapter 4

File Documentation

4.1 FlyCapture2_C.h File Reference

Functions

- FLYCAPTURE2_C_API [fc2Error](#) [fc2CreateContext](#) ([fc2Context](#) *pContext)
Create a FC2 context for IIDC camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2CreateGigEContext](#) ([fc2Context](#) *pContext)
Create a FC2 context for a GigE Vision camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2DestroyContext](#) ([fc2Context](#) context)
Destroy the FC2 context.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2FireBusReset](#) ([fc2Context](#) context, [fc2PGRGuid](#) *pGuid)
Fire a bus reset.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetNumOfCameras](#) ([fc2Context](#) context, unsigned int *pNumCameras)
Gets the number of cameras attached to the PC.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2IsCameraControlable](#) ([fc2Context](#) context, [fc2PGRGuid](#) *pGuid, [BOOL](#) *pControlable)
Query whether a GigE camera is controlable.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetCameraFromIndex](#) ([fc2Context](#) context, unsigned int index, [fc2PGRGuid](#) *pGuid)
Gets the PGRGuid for a camera on the PC.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetCameraFromSerialNumber](#) ([fc2Context](#) context, unsigned int serialNumber, [fc2PGRGuid](#) *pGuid)
Gets the PGRGuid for a camera on the PC.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetCameraSerialNumberFromIndex](#) ([fc2Context](#) context, unsigned int index, unsigned int *pSerialNumber)
Gets the serial number of the camera with the specified index.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetInterfaceTypeFromGuid](#) ([fc2Context](#) context, [fc2PGRGuid](#) *pGuid, [fc2InterfaceType](#) *pInterfaceType)
Gets the interface type associated with a PGRGuid.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetNumOfDevices](#) ([fc2Context](#) context, unsigned int *pNumDevices)
Gets the number of devices.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetDeviceFromIndex](#) ([fc2Context](#) context, unsigned int index, [fc2PGRGuid](#) *pGuid)
Gets the PGRGuid for a device.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2RegisterCallback](#) ([fc2Context](#) context, [fc2BusEventCallback](#) enumCallback, [fc2BusCallbackType](#) callbackType, void *pParameter, [fc2CallbackHandle](#) *pCallbackHandle)
Register a callback function that will be called when the specified callback event occurs.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2UnregisterCallback](#) ([fc2Context](#) context, [fc2CallbackHandle](#) callbackHandle)
Unregister a callback function.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2RescanBus](#) ([fc2Context](#) context)
Force a rescan of the buses.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2ForceIPAddressToCamera](#) ([fc2Context](#) context, [fc2MACAddress](#) macAddress, [fc2IPAddress](#) ipAddress, [fc2IPAddress](#) subnetMask, [fc2IPAddress](#) defaultGateway)
Force the camera with the specific MAC address to the specified IP address, subnet mask and default gateway.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2ForceAllIPAddressesAutomatically](#) ()
Force all cameras on the network to be assigned sequential IP addresses on the same subnet as the network adapters that they are connected to.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2ForceIPAddressAutomatically](#) (unsigned int serialNumber)
Force a cameras on the network to be assigned sequential IP addresses on the same subnet as the network adapters that it is connected to.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2DiscoverGigECameras](#) ([fc2Context](#) context, [fc2CameraInfo](#) *gigECameras, unsigned int *arraySize)
Discover all cameras connected to the network even if they reside on a different subnet.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2WriteRegister](#) ([fc2Context](#) context, unsigned int address, unsigned int value)
Write to the specified register on the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2WriteRegisterBroadcast](#) ([fc2Context](#) context, unsigned int address, unsigned int value)
Write to the specified register on the camera with broadcast.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2ReadRegister](#) ([fc2Context](#) context, unsigned int address, unsigned int *pValue)
Read the specified register from the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2WriteRegisterBlock](#) ([fc2Context](#) context, unsigned short addressHigh, unsigned int addressLow, const unsigned int *pBuffer, unsigned int length)

Write to the specified register block on the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2ReadRegisterBlock](#) ([fc2Context](#) context, unsigned short addressHigh, unsigned int addressLow, unsigned int *pBuffer, unsigned int length)

Write to the specified register block on the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2Connect](#) ([fc2Context](#) context, [fc2PGRGuid](#) *guid)

Connects the camera object to the camera specified by the GUID.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2Disconnect](#) ([fc2Context](#) context)

Disconnects the fc2Context from the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetCallback](#) ([fc2Context](#) context, [fc2ImageEventCallback](#) pCallbackFn, void *pCallbackData)

Sets the callback data to be used on completion of image transfer.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2StartCapture](#) ([fc2Context](#) context)

Starts isochronous image capture.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2StartCaptureCallback](#) ([fc2Context](#) context, [fc2ImageEventCallback](#) pCallbackFn, void *pCallbackData)

Starts isochronous image capture.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2StartSyncCapture](#) (unsigned int numCameras, [fc2Context](#) *pContexts)

Starts synchronized isochronous image capture on multiple cameras.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2StartSyncCaptureCallback](#) (unsigned int numCameras, [fc2Context](#) *pContexts, [fc2ImageEventCallback](#) *pCallbackFns, void **pCallbackDataArray)

Starts synchronized isochronous image capture on multiple cameras.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2RetrieveBuffer](#) ([fc2Context](#) context, [fc2Image](#) *pImage)

Retrieves the the next image object containing the next image.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2StopCapture](#) ([fc2Context](#) context)

Stops isochronous image transfer and cleans up all associated resources.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetUserBuffers](#) ([fc2Context](#) context, unsigned char *const ppMemBuffers, int size, int nNumBuffers)

Specify user allocated buffers to use as image data buffers.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetConfiguration](#) ([fc2Context](#) context, [fc2Config](#) *config)

Get the configuration associated with the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetConfiguration](#) ([fc2Context](#) context, [fc2Config](#) *config)

Set the configuration associated with the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetCameraInfo](#) ([fc2Context](#) context, [fc2CameraInfo](#) *pCameraInfo)

Retrieves information from the camera such as serial number, model name and other camera information.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetPropertyInfo](#) ([fc2Context](#) context, [fc2PropertyInfo](#) *propInfo)

Retrieves information about the specified camera property.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetProperty](#) ([fc2Context](#) context, [fc2Property](#) *prop)

Reads the settings for the specified property from the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetProperty](#) ([fc2Context](#) context, [fc2Property](#) *prop)

Writes the settings for the specified property to the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetPropertyBroadcast](#) ([fc2Context](#) context, [fc2Property](#) *prop)

Writes the settings for the specified property to the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetGPIOPinDirection](#) ([fc2Context](#) context, unsigned int pin, unsigned int *pDirection)

Get the GPIO pin direction for the specified pin.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetGPIOPinDirection](#) ([fc2Context](#) context, unsigned int pin, unsigned int direction)

Set the GPIO pin direction for the specified pin.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetGPIOPinDirectionBroadcast](#) ([fc2Context](#) context, unsigned int pin, unsigned int direction)

Set the GPIO pin direction for the specified pin.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetTriggerModelInfo](#) ([fc2Context](#) context, [fc2TriggerModelInfo](#) *triggerModelInfo)

Retrieve trigger information from the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetTriggerMode](#) ([fc2Context](#) context, [fc2TriggerMode](#) *triggerMode)

Retrieve current trigger settings from the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetTriggerMode](#) ([fc2Context](#) context, [fc2TriggerMode](#) *triggerMode)

Set the specified trigger settings to the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetTriggerModeBroadcast](#) ([fc2Context](#) context, [fc2TriggerMode](#) *triggerMode)

Set the specified trigger settings to the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2FireSoftwareTrigger](#) ([fc2Context](#) context)
- FLYCAPTURE2_C_API [fc2Error](#) [fc2FireSoftwareTriggerBroadcast](#) ([fc2Context](#) context)

Fire the software trigger according to the DCAM specifications.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetTriggerDelayInfo](#) ([fc2Context](#) context, [fc2TriggerDelayInfo](#) *triggerDelayInfo)

Retrieve trigger delay information from the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetTriggerDelay](#) ([fc2Context](#) context, [fc2TriggerDelay](#) *triggerDelay)

Retrieve current trigger delay settings from the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetTriggerDelay](#) ([fc2Context](#) context, [fc2TriggerDelay](#) *triggerDelay)

Set the specified trigger delay settings to the camera.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetTriggerDelayBroadcast](#) ([fc2Context](#) context, [fc2TriggerDelay](#) *triggerDelay)
Set the specified trigger delay settings to the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetStrobeInfo](#) ([fc2Context](#) context, [fc2StrobeInfo](#) *strobeInfo)
Retrieve strobe information from the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetStrobe](#) ([fc2Context](#) context, [fc2StrobeControl](#) *strobeControl)
Retrieve current strobe settings from the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetStrobe](#) ([fc2Context](#) context, [fc2StrobeControl](#) *strobeControl)
Set current strobe settings to the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetStrobeBroadcast](#) ([fc2Context](#) context, [fc2StrobeControl](#) *strobeControl)
Set current strobe settings to the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetVideoModeAndFrameRateInfo](#) ([fc2Context](#) context, [fc2VideoMode](#) videoMode, [fc2FrameRate](#) frameRate, [BOOL](#) *pSupported)
Query the camera to determine if the specified video mode and frame rate is supported.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetVideoModeAndFrameRate](#) ([fc2Context](#) context, [fc2VideoMode](#) *videoMode, [fc2FrameRate](#) *frameRate)
Get the current video mode and frame rate from the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetVideoModeAndFrameRate](#) ([fc2Context](#) context, [fc2VideoMode](#) videoMode, [fc2FrameRate](#) frameRate)
Set the specified video mode and frame rate to the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetFormat7Info](#) ([fc2Context](#) context, [fc2Format7Info](#) *info, [BOOL](#) *pSupported)
Retrieve the availability of Format7 custom image mode and the camera capabilities for the specified Format7 mode.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2ValidateFormat7Settings](#) ([fc2Context](#) context, [fc2Format7ImageSettings](#) *imageSettings, [BOOL](#) *settingsAreValid, [fc2Format7PacketInfo](#) *packetInfo)
Validates Format7ImageSettings structure and returns valid packet size information if the image settings are valid.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetFormat7Configuration](#) ([fc2Context](#) context, [fc2Format7ImageSettings](#) *imageSettings, unsigned int *packetSize, float *percentage)
Get the current Format7 configuration from the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetFormat7ConfigurationPacket](#) ([fc2Context](#) context, [fc2Format7ImageSettings](#) *imageSettings, unsigned int packetSize)
Set the current Format7 configuration to the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetFormat7Configuration](#) ([fc2Context](#) context, [fc2Format7ImageSettings](#) *imageSettings, float percentSpeed)
Set the current Format7 configuration to the camera.

- FLYCAPTURE2_C_API [fc2Error fc2WriteGVCPRegister](#) ([fc2Context](#) context, unsigned int address, unsigned int value)
Write a GVCP register.
- FLYCAPTURE2_C_API [fc2Error fc2WriteGVCPRegisterBroadcast](#) ([fc2Context](#) context, unsigned int address, unsigned int value)
Write a GVCP register with broadcast.
- FLYCAPTURE2_C_API [fc2Error fc2ReadGVCPRegister](#) ([fc2Context](#) context, unsigned int address, unsigned int *pValue)
Read a GVCP register.
- FLYCAPTURE2_C_API [fc2Error fc2WriteGVCPRegisterBlock](#) ([fc2Context](#) context, unsigned int address, const unsigned int *pBuffer, unsigned int length)
Write a GVCP register block.
- FLYCAPTURE2_C_API [fc2Error fc2ReadGVCPRegisterBlock](#) ([fc2Context](#) context, unsigned int address, unsigned int *pBuffer, unsigned int length)
Read a GVCP register block.
- FLYCAPTURE2_C_API [fc2Error fc2WriteGVCPMemory](#) ([fc2Context](#) context, unsigned int address, const unsigned char *pBuffer, unsigned int length)
Write a GVCP memory block.
- FLYCAPTURE2_C_API [fc2Error fc2ReadGVCPMemory](#) ([fc2Context](#) context, unsigned int address, unsigned char *pBuffer, unsigned int length)
Read a GVCP memory block.
- FLYCAPTURE2_C_API [fc2Error fc2GetGigEProperty](#) ([fc2Context](#) context, [fc2GigEProperty](#) *pGigEProp)
Get the specified GigEProperty.
- FLYCAPTURE2_C_API [fc2Error fc2SetGigEProperty](#) ([fc2Context](#) context, const [fc2GigEProperty](#) *pGigEProp)
Set the specified GigEProperty.
- FLYCAPTURE2_C_API [fc2Error fc2QueryGigEImagingMode](#) ([fc2Context](#) context, [fc2Mode](#) mode, [BOOL](#) *isSupported)
- FLYCAPTURE2_C_API [fc2Error fc2GetGigEImagingMode](#) ([fc2Context](#) context, [fc2Mode](#) *mode)
- FLYCAPTURE2_C_API [fc2Error fc2SetGigEImagingMode](#) ([fc2Context](#) context, [fc2Mode](#) mode)
- FLYCAPTURE2_C_API [fc2Error fc2GetGigEImageSettingsInfo](#) ([fc2Context](#) context, [fc2GigEImageSettingsInfo](#) *pInfo)
- FLYCAPTURE2_C_API [fc2Error fc2GetGigEImageSettings](#) ([fc2Context](#) context, [fc2GigEImageSettings](#) *pImageSettings)
- FLYCAPTURE2_C_API [fc2Error fc2SetGigEImageSettings](#) ([fc2Context](#) context, const [fc2GigEImageSettings](#) *pImageSettings)
- FLYCAPTURE2_C_API [fc2Error fc2GetGigEConfig](#) ([fc2Context](#) context, [fc2GigEConfig](#) *pConfig)
- FLYCAPTURE2_C_API [fc2Error fc2SetGigEConfig](#) ([fc2Context](#) context, const [fc2GigEConfig](#) *pConfig)
- FLYCAPTURE2_C_API [fc2Error fc2GetGigEImageBinningSettings](#) ([fc2Context](#) context, unsigned int *horzBinningValue, unsigned int *vertBinningValue)

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetGigEImageBinningSettings](#) ([fc2Context](#) context, unsigned int horzBinningValue, unsigned int vertBinningValue)
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetNumStreamChannels](#) ([fc2Context](#) context, unsigned int *numChannels)
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetGigEStreamChannelInfo](#) ([fc2Context](#) context, unsigned int channel, [fc2GigEStreamChannel](#) *pChannel)
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetGigEStreamChannelInfo](#) ([fc2Context](#) context, unsigned int channel, [fc2GigEStreamChannel](#) *pChannel)
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetLUTInfo](#) ([fc2Context](#) context, [fc2LUT-Data](#) *pData)
Query if LUT support is available on the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetLUTBankInfo](#) ([fc2Context](#) context, unsigned int bank, [BOOL](#) *pReadSupported, [BOOL](#) *pWriteSupported)
Query the read/write status of a single LUT bank.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetActiveLUTBank](#) ([fc2Context](#) context, unsigned int *pActiveBank)
Get the LUT bank that is currently being used.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetActiveLUTBank](#) ([fc2Context](#) context, unsigned int activeBank)
Set the LUT bank that will be used.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2EnableLUT](#) ([fc2Context](#) context, [BOOL](#) on)
Enable or disable LUT functionality on the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetLUTChannel](#) ([fc2Context](#) context, unsigned int bank, unsigned int channel, unsigned int sizeEntries, unsigned int *pEntries)
Get the LUT channel settings from the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetLUTChannel](#) ([fc2Context](#) context, unsigned int bank, unsigned int channel, unsigned int sizeEntries, unsigned int *pEntries)
Set the LUT channel settings to the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetMemoryChannel](#) ([fc2Context](#) context, unsigned int *pCurrentChannel)
Retrieve the current memory channel from the camera.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SaveToMemoryChannel](#) ([fc2Context](#) context, unsigned int channel)
Save the current settings to the specified current memory channel.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2RestoreFromMemoryChannel](#) ([fc2Context](#) context, unsigned int channel)
Restore the specified current memory channel.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetMemoryChannelInfo](#) ([fc2Context](#) context, unsigned int *pNumChannels)
Query the camera for memory channel support.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetEmbeddedImageInfo](#) ([fc2Context](#) context, [fc2EmbeddedImageInfo](#) *pInfo)
Get the current status of the embedded image information register, as well as the availability of each embedded property.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetEmbeddedImageInfo](#) ([fc2Context](#) context, [fc2EmbeddedImageInfo](#) *pInfo)
Sets the on/off values of the embedded image information structure to the camera.
- FLYCAPTURE2_C_API const char * [fc2GetRegisterString](#) (unsigned int registerVal)
Returns a text representation of the register value.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2CreateImage](#) ([fc2Image](#) *pImage)
Create a [fc2Image](#).
- FLYCAPTURE2_C_API [fc2Error](#) [fc2DestroyImage](#) ([fc2Image](#) *image)
Destroy the [fc2Image](#).
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetDefaultColorProcessing](#) ([fc2ColorProcessingAlgorithm](#) defaultMethod)
Set the default color processing algorithm.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetDefaultColorProcessing](#) ([fc2ColorProcessingAlgorithm](#) *pDefaultMethod)
Get the default color processing algorithm.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetDefaultOutputFormat](#) ([fc2PixelFormat](#) format)
Set the default output pixel format.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetDefaultOutputFormat](#) ([fc2PixelFormat](#) *pFormat)
Get the default output pixel format.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2DetermineBitsPerPixel](#) ([fc2PixelFormat](#) format, unsigned int *pBitsPerPixel)
Calculate the bits per pixel for the specified pixel format.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SaveImage](#) ([fc2Image](#) *pImage, const char *pFilename, [fc2ImageFileFormat](#) format)
Save the image to the specified file name with the file format specified.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SaveImageWithOptions](#) ([fc2Image](#) *pImage, const char *pFilename, [fc2ImageFileFormat](#) format, void *pOption)
Save the image to the specified file name with the file format specified.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2ConvertImage](#) ([fc2Image](#) *pImageIn, [fc2Image](#) *pImageOut)
- FLYCAPTURE2_C_API [fc2Error](#) [fc2ConvertImageTo](#) ([fc2PixelFormat](#) format, [fc2Image](#) *pImageIn, [fc2Image](#) *pImageOut)
Converts the current image buffer to the specified output format and stores the result in the specified image.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetImageData](#) ([fc2Image](#) *pImage, unsigned char **ppData)
Get a pointer to the data associated with the image.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetImageData](#) ([fc2Image](#) *pImage, const unsigned char *pData, unsigned int dataSize)
Set the data of the Image object.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2SetImageDimensions](#) ([fc2Image](#) *pImage, unsigned int rows, unsigned int cols, unsigned int stride, [fc2PixelFormat](#) pixelFormat, [fc2BayerTileFormat](#) bayerFormat)

Sets the dimensions of the image object.

- FLYCAPTURE2_C_API [fc2TimeStamp](#) [fc2GetImageTimeStamp](#) ([fc2Image](#) *pImage)

Get the timestamp data associated with the image.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2CalculateImageStatistics](#) ([fc2Image](#) *pImage, [fc2ImageStatisticsContext](#) *pImageStatisticsContext)

Calculate statistics associated with the image.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2CreateImageStatistics](#) ([fc2ImageStatisticsContext](#) *pImageStatisticsContext)

Create a statistics context.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2DestroyImageStatistics](#) ([fc2ImageStatisticsContext](#) imageStatisticsContext)

Destroy a statistics context.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetImageStatistics](#) ([fc2ImageStatisticsContext](#) imageStatisticsContext, [fc2StatisticsChannel](#) channel, unsigned int *pRangeMin, unsigned int *pRangeMax, unsigned int *pPixelValueMin, unsigned int *pPixelValueMax, unsigned int *pNumPixelValues, float *pPixelValueMean, int **ppHistogram)

Get all statistics for the image.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2CreateAVI](#) ([fc2AVIContext](#) *pAVIContext)

Create a AVI context.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2AVIOpen](#) ([fc2AVIContext](#) AVIContext, const char *pFileName, [fc2AVIOption](#) *pOption)

Open an AVI file in preparation for writing Images to disk.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2MJPGOpen](#) ([fc2AVIContext](#) AVIContext, const char *pFileName, [fc2MJPGOption](#) *pOption)

Open an MJPEG file in preparation for writing Images to disk.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2H264Open](#) ([fc2AVIContext](#) AVIContext, const char *pFileName, [fc2H264Option](#) *pOption)

Open an H.264 file in preparation for writing Images to disk.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2AVIAppend](#) ([fc2AVIContext](#) AVIContext, [fc2Image](#) *pImage)

Append an image to the AVI file.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2AVIClose](#) ([fc2AVIContext](#) AVIContext)

Close the AVI file.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2DestroyAVI](#) ([fc2AVIContext](#) AVIContext)

Destroy a AVI context.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetSystemInfo](#) ([fc2SystemInfo](#) *pSystemInfo)

Get system information.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetLibraryVersion](#) ([fc2Version](#) *pVersion)

Get library version.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2LaunchBrowser](#) (const char *pAddress)

Launch a URL in the system default browser.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2LaunchHelp](#) (const char *pFileName)

Open a CHM file in the system default CHM viewer.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2LaunchCommand](#) (const char *p-Command)

Execute a command in the terminal.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2LaunchCommandAsync](#) (const char *p-Command, [fc2AsyncCommandCallback](#) pCallback, void *pUserData)

Execute a command in the terminal.

- FLYCAPTURE2_C_API const char * [fc2ErrorToDescription](#) ([fc2Error](#) error)

Get a string representation of an error.

- FLYCAPTURE2_C_API [fc2Error](#) [fc2GetCycleTime](#) ([fc2Context](#) context, [fc2TimeStamp](#) *pTimeStamp)

Get cycle time from camera.

4.1.1 Function Documentation

4.1.1.1 FLYCAPTURE2_C_API [fc2Error](#) [fc2AVIAppend](#) ([fc2AVIContext](#) *AVIContext*, [fc2Image](#) * *pImage*)

Append an image to the AVI file.

Parameters

<i>AVIContext</i>	The AVI context to use.
<i>pImage</i>	The image to append.

Returns

A [fc2Error](#) indicating the success or failure of the function.

4.1.1.2 FLYCAPTURE2_C_API [fc2Error](#) [fc2AVIClose](#) ([fc2AVIContext](#) *AVIContext*)

Close the AVI file.

Parameters

<i>AVIContext</i>	The AVI context to use.
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Returns

A [fc2Error](#) indicating the success or failure of the function.

4.1.1.3 FLYCAPTURE2_C_API [fc2Error](#) [fc2AVIOpen](#) ([fc2AVIContext](#) *AVIContext*, const char * *pFileName*, [fc2AVIOption](#) * *pOption*)

Open an AVI file in preparation for writing Images to disk.

The size of AVI files is limited to 2GB. The filenames are automatically generated using the filename specified.

Parameters

<i>AVIContext</i>	The AVI context to use.
<i>pFileName</i>	The filename of the AVI file.
<i>pOption</i>	Options to apply to the AVI file.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.4 FLYCAPTURE2_C_API `fc2Error fc2CalculateImageStatistics (fc2Image * pImage, fc2ImageStatisticsContext * pImageStatisticsContext)`

Calculate statistics associated with the image.

In order to collect statistics for a particular channel, the enabled flag for the channel must be set to true. Statistics can only be collected for images in Mono8, Mono16, RGB, RGBU, BGR and BGRU.

Parameters

<i>pImage</i>	The fc2Image to be used.
<i>pImage-Statistics-Context</i>	The <code>fc2ImageStatisticsContext</code> to hold the statistics.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.5 FLYCAPTURE2_C_API `fc2Error fc2Connect (fc2Context context, fc2PGRGuid * guid)`

Connects the camera object to the camera specified by the GUID.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>guid</i>	The unique identifier for a specific camera on the PC.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.6 FLYCAPTURE2_C_API fc2Error fc2ConvertImage (fc2Image * *plmageIn*, fc2Image * *plmageOut*)

Parameters

<i>plmageIn</i>	
<i>plmageOut</i>	

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.7 FLYCAPTURE2_C_API fc2Error fc2ConvertImageTo (fc2PixelFormat *format*, fc2Image * *plmageIn*, fc2Image * *plmageOut*)

Converts the current image buffer to the specified output 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.

Parameters

<i>format</i>	Output format of the converted image.
<i>plmageIn</i>	Input image.
<i>plmageOut</i>	Output image.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.8 FLYCAPTURE2_C_API fc2Error fc2CreateAVI (fc2AVIContext * *pAVIContext*)

Create a AVI context.

Parameters

<i>pAVIContext</i>	A AVI context.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.9 FLYCAPTURE2_C_API fc2Error fc2CreateContext (fc2Context * *pContext*)

Create a FC2 context for IIDC camera.

This call must be made before any other calls that use a context will succeed.

Parameters

<i>pContext</i>	A pointer to the fc2Context to be created.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.10 FLYCAPTURE2_C_API fc2Error fc2CreateGigEContext (fc2Context * pContext)

Create a FC2 context for a GigE Vision camera.

This call must be made before any other calls that use a context will succeed.

Parameters

<i>pContext</i>	A pointer to the fc2Context to be created.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.11 FLYCAPTURE2_C_API fc2Error fc2CreateImage (fc2Image * pImage)

Create a [fc2Image](#).

If externally allocated memory is to be used for the converted image, simply assigning the pData member of the [fc2Image](#) structure is insufficient. [fc2SetImageData\(\)](#) should be called in order to populate the [fc2Image](#) structure correctly.

Parameters

<i>pImage</i>	Pointer to image to be created.
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See also

[fc2SetImageData\(\)](#)

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.12 FLYCAPTURE2_C_API fc2Error fc2CreateImageStatistics (fc2ImageStatisticsContext * pImageStatisticsContext)

Create a statistics context.

Parameters

<i>pImage-Statistics-Context</i>	A statistics context.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.13 FLYCAPTURE2_C_API `fc2Error` `fc2DestroyAVI` (`fc2AVIContext` *AVIContext*)

Destroy a AVI context.

Parameters

<i>AVIContext</i>	A AVI context.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.14 FLYCAPTURE2_C_API `fc2Error` `fc2DestroyContext` (`fc2Context` *context*)

Destroy the FC2 context.

This must be called when the user is finished with the context in order to prevent memory leaks.

Parameters

<i>context</i>	The context to be destroyed.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.15 FLYCAPTURE2_C_API `fc2Error` `fc2DestroyImage` (`fc2Image` * *image*)

Destroy the [fc2Image](#).

Parameters

<i>image</i>	Pointer to image to be destroyed.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.16 FLYCAPTURE2_C_API `fc2Error` `fc2DestroyImageStatistics` (`fc2ImageStatisticsContext` *imageStatisticsContext*)

Destroy a statistics context.

Parameters

<i>image-Statistics-Context</i>	A statistics context.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.17 FLYCAPTURE2_C_API `fc2Error` `fc2DetermineBitsPerPixel` (`fc2PixelFormat` *format*, `unsigned int` * *pBitsPerPixel*)

Calculate the bits per pixel for the specified pixel format.

Parameters

<i>format</i>	The pixel format.
<i>pBitsPerPixel</i>	The bits per pixel.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.18 FLYCAPTURE2_C_API `fc2Error` `fc2Disconnect` (`fc2Context` *context*)

Disconnects the `fc2Context` from the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.19 FLYCAPTURE2_C_API **fc2Error** fc2DiscoverGigECameras (**fc2Context** *context*, **fc2CameraInfo** * *gigECameras*, unsigned int * *arraySize*)

Discover all cameras connected to the network even if they reside on a different subnet.

This is useful in situations where a GigE camera is using Persistent IP and the application's subnet is different from the device subnet. After discovering the camera, it is easy to use `ForceIPAddressToCamera()` to set a different IP configuration.

Parameters

<i>context</i>	The fc2Context to be used.
<i>gigE-Cameras</i>	Pointer to an array of CameraInfo structures.
<i>arraySize</i>	Size of the array. Number of discovered cameras is returned in the same value.

Returns

An **Error** indicating the success or failure of the function. If the error is **PGRERROR_BUFFER_TOO_SMALL** then *arraySize* will contain the minimum size needed for *gigECameras* array.

4.1.1.20 FLYCAPTURE2_C_API **fc2Error** fc2EnableLUT (**fc2Context** *context*, **BOOL** *on*)

Enable or disable LUT functionality on the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>on</i>	Whether to enable or disable LUT.

Returns

A **fc2Error** indicating the success or failure of the function.

4.1.1.21 FLYCAPTURE2_C_API const char* fc2ErrorToDescription (**fc2Error** *error*)

Get a string representation of an error.

Parameters

<i>error</i>	Error to be parsed.
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Returns

A **fc2Error** indicating the success or failure of the function.

4.1.1.22 FLYCAPTURE2_C_API fc2Error fc2FireBusReset (fc2Context context, fc2PGRGuid * pGuid)

Fire a bus reset.

The actual bus reset is only fired for the specified 1394 bus, but it will effectively cause a global bus reset for the library.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pGuid</i>	PGRGuid of the camera or the device to cause bus reset.

Returns

An Error indicating the success or failure of the function.

4.1.1.23 FLYCAPTURE2_C_API fc2Error fc2FireSoftwareTrigger (fc2Context context)**Parameters**

<i>context</i>	The fc2Context to be used.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.24 FLYCAPTURE2_C_API fc2Error fc2FireSoftwareTriggerBroadcast (fc2Context context)

Fire the software trigger according to the DCAM specifications.

Parameters

<i>context</i>	The fc2Context to be used.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.25 FLYCAPTURE2_C_API fc2Error fc2ForceAllIPAddressesAutomatically ()

Force all cameras on the network to be assigned sequential IP addresses on the same subnet as the network adapters that they are connected to.

This is useful in situations where a GigE Vision cameras are using Persistent IP addresses and the application's subnet is different from the devices.

Returns

An Error indicating the success or failure of the function.

4.1.1.26 FLYCAPTURE2_C_API fc2Error fc2ForceIPAddressAutomatically (unsigned int *serialNumber*)

Force a cameras on the network to be assigned sequential IP addresses on the same subnet as the netowrk adapters that it is connected to.

This is useful in situations where a GigE Vision cameras is using Persistent IP addresses and the application's subnet is different from the device.

Returns

An Error indicating the success or failure of the function.

4.1.1.27 FLYCAPTURE2_C_API fc2Error fc2ForceIPAddressToCamera (fc2Context *context*, fc2MACAddress *macAddress*, fc2IPAddress *ipAddress*, fc2IPAddress *subnetMask*, fc2IPAddress *defaultGateway*)

Force the camera with the specific MAC address to the specified IP address, subnet mask and default gateway.

This is useful in situations where a GigE Vision camera is using Persistent IP and the application's subnet is different from the device subnet.

Parameters

<i>context</i>	The fc2Context to be used.
<i>macAddress</i>	MAC address of the camera.
<i>ipAddress</i>	IP address to set on the camera.
<i>subnetMask</i>	Subnet mask to set on the camera.
<i>default-Gateway</i>	Default gateway to set on the camera.

Returns

An Error indicating the success or failure of the function.

4.1.1.28 FLYCAPTURE2_C_API fc2Error fc2GetActiveLUTBank (fc2Context *context*, unsigned int * *pActiveBank*)

Get the LUT bank that is currently being used.

For cameras with PGR LUT, the active bank is always 0.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pActiveBank</i>	The currently active bank.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.29 FLYCAPTURE2_C_API fc2Error fc2GetCameraFromIndex (fc2Context *context*, unsigned int *index*, fc2PGRGuid * *pGuid*)

Gets the PGRGuid for a camera on the PC.

It uniquely identifies the camera specified by the index and is used to identify the camera during a [fc2Connect\(\)](#) call.

Parameters

<i>context</i>	The fc2Context to be used.
<i>index</i>	Zero based index of camera.
<i>pGuid</i>	Unique PGRGuid for the camera.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.30 FLYCAPTURE2_C_API fc2Error fc2GetCameraFromSerialNumber (fc2Context *context*, unsigned int *serialNumber*, fc2PGRGuid * *pGuid*)

Gets the PGRGuid for a camera on the PC.

It uniquely identifies the camera specified by the serial number and is used to identify the camera during a [fc2Connect\(\)](#) call.

Parameters

<i>context</i>	The fc2Context to be used.
<i>serial-Number</i>	Serial number of camera.
<i>pGuid</i>	Unique PGRGuid for the camera.

Returns

A fc2Error indicating the success or failure of the function.

**4.1.1.31 FLYCAPTURE2_C_API fc2Error fc2GetCameraInfo (fc2Context *context*,
fc2CameraInfo * *pCameraInfo*)**

Retrieves information from the camera such as serial number, model name and other camera information.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pCameraInfo</i>	Pointer to the camera information structure to be filled.

Returns

A fc2Error indicating the success or failure of the function.

**4.1.1.32 FLYCAPTURE2_C_API fc2Error fc2GetCameraSerialNumberFromIndex (fc2Context
context, unsigned int *index*, unsigned int * *pSerialNumber*)**

Gets the serial number of the camera with the specified index.

Parameters

<i>context</i>	The fc2Context to be used.
<i>index</i>	Zero based index of desired camera.
<i>pSerial- Number</i>	Serial number of camera.

Returns

A fc2Error indicating the success or failure of the function.

**4.1.1.33 FLYCAPTURE2_C_API fc2Error fc2GetConfiguration (fc2Context *context*,
fc2Config * *config*)**

Get the configuration associated with the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>config</i>	Pointer to the configuration structure to be filled.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.34 FLYCAPTURE2_C_API fc2Error fc2GetCycleTime (fc2Context context, fc2TimeStamp * pTimeStamp)

Get cycle time from camera.

Parameters

<i>TimeStamp</i>	struct.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.35 FLYCAPTURE2_C_API fc2Error fc2GetDefaultColorProcessing (fc2ColorProcessingAlgorithm * pDefaultMethod)

Get the default color processing algorithm.

Parameters

<i>pDefault-Method</i>	The default color processing algorithm.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.36 FLYCAPTURE2_C_API fc2Error fc2GetDefaultOutputFormat (fc2PixelFormat * pFormat)

Get the default output pixel format.

Parameters

<i>pFormat</i>	The default pixel format.
----------------	---------------------------

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.37 FLYCAPTURE2_C_API fc2Error fc2GetDeviceFromIndex (fc2Context context, unsigned int index, fc2PGRGuid * pGuid)

Gets the PGRGuid for a device.

It uniquely identifies the device specified by the index.

Parameters

<i>context</i>	The fc2Context to be used.
<i>index</i>	Zero based index of device.
<i>pGuid</i>	Unique PGRGuid for the device.

See also

[fc2GetNumOfDevices\(\)](#)

Returns

An Error indicating the success or failure of the function.

4.1.1.38 FLYCAPTURE2_C_API fc2Error fc2GetEmbeddedImageInfo (fc2Context context, fc2EmbeddedImageInfo * pInfo)

Get the current status of the embedded image information register, as well as the availability of each embedded property.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pInfo</i>	Structure to be filled.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.39 FLYCAPTURE2_C_API fc2Error fc2GetFormat7Configuration (fc2Context context, fc2Format7ImageSettings * imageSettings, unsigned int * packetSize, float * percentage)

Get the current Format7 configuration from the camera.

This call will only succeed if the camera is already in Format7.

Parameters

<i>context</i>	The fc2Context to be used.
<i>image-Settings</i>	Current image settings.
<i>packetSize</i>	Current packet size.
<i>percentage</i>	Current packet size as a percentage.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.40 FLYCAPTURE2_C_API `fc2Error` `fc2GetFormat7Info` (`fc2Context` *context*, `fc2Format7Info` * *info*, `BOOL` * *pSupported*)

Retrieve the availability of Format7 custom image mode and the camera capabilities for the specified Format7 mode.

The mode must be specified in the `Format7Info` structure in order for the function to succeed.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>info</i>	Structure to be filled with the capabilities of the specified mode and the current state in the specified mode.
<i>pSupported</i>	Whether the specified mode is supported.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.41 FLYCAPTURE2_C_API `fc2Error` `fc2GetGigEConfig` (`fc2Context` *context*, `fc2GigEConfig` * *pConfig*)

4.1.1.42 FLYCAPTURE2_C_API `fc2Error` `fc2GetGigEImageBinningSettings` (`fc2Context` *context*, unsigned int * *horzBinningValue*, unsigned int * *vertBinningValue*)

4.1.1.43 FLYCAPTURE2_C_API `fc2Error` `fc2GetGigEImageSettings` (`fc2Context` *context*, `fc2GigEImageSettings` * *pImageSettings*)

4.1.1.44 FLYCAPTURE2_C_API `fc2Error` `fc2GetGigEImageSettingsInfo` (`fc2Context` *context*, `fc2GigEImageSettingsInfo` * *pInfo*)

4.1.1.45 FLYCAPTURE2_C_API `fc2Error` `fc2GetGigEImagingMode` (`fc2Context` *context*, `fc2Mode` * *mode*)

4.1.1.46 FLYCAPTURE2_C_API `fc2Error` `fc2GetGigEProperty` (`fc2Context` *context*, `fc2GigEProperty` * *pGigEProp*)

Get the specified `GigEProperty`.

The `GigEPropertyType` field must be set in order for this function to succeed.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pGigEProp</i>	The <code>GigE</code> property to get.

Returns

An Error indicating the success or failure of the function.

4.1.1.47 FLYCAPTURE2_C_API **fc2Error** **fc2GetGigEStreamChannelInfo** (**fc2Context** *context*, unsigned int *channel*, **fc2GigEStreamChannel** * *pChannel*)

4.1.1.48 FLYCAPTURE2_C_API **fc2Error** **fc2GetGPIOPinDirection** (**fc2Context** *context*, unsigned int *pin*, unsigned int * *pDirection*)

Get the GPIO pin direction for the specified pin.

This is not a required call when using the trigger or strobe functions as the pin direction is set automatically internally.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pin</i>	Pin to get the direction for.
<i>pDirection</i>	Direction of the pin. 0 for input, 1 for output.

Returns

A **fc2Error** indicating the success or failure of the function.

4.1.1.49 FLYCAPTURE2_C_API **fc2Error** **fc2GetImageData** (**fc2Image** * *pImage*, unsigned char ** *ppData*)

Get a pointer to the data associated with the image.

This function is considered unsafe. The pointer returned could be invalidated if the buffer is resized or released. The pointer may also be invalidated if the Image object is passed to [fc2RetrieveBuffer\(\)](#).

Parameters

<i>pImage</i>	The fc2Image to be used.
<i>ppData</i>	A pointer to the image data.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.50 **FLYCAPTURE2_C_API** `fc2Error` `fc2GetImageStatistics` (`fc2ImageStatisticsContext` *imageStatisticsContext*, `fc2StatisticsChannel` *channel*, unsigned int * *pRangeMin*, unsigned int * *pRangeMax*, unsigned int * *pPixelValueMin*, unsigned int * *pPixelValueMax*, unsigned int * *pNumPixelValues*, float * *pPixelValueMean*, int ** *ppHistogram*)

Get all statistics for the image.

Parameters

<i>imageStatisticsContext</i>	The statistics context.
<i>channel</i>	The statistics channel.
<i>pRangeMin</i>	The minimum possible value.
<i>pRangeMax</i>	The maximum possible value.
<i>pPixelValueMin</i>	The minimum pixel value.
<i>pPixelValueMax</i>	The maximum pixel value.
<i>pNumPixelValues</i>	The number of unique pixel values.
<i>pPixelValueMean</i>	The mean of the image.
<i>ppHistogram</i>	Pointer to an array containing the histogram.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.51 **FLYCAPTURE2_C_API** `fc2TimeStamp` `fc2GetImageTimeStamp` (`fc2Image` * *pImage*)

Get the timestamp data associated with the image.

Parameters

<i>pImage</i>	The fc2Image to be used.
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Returns

Timestamp data associated with the image.

4.1.1.52 FLYCAPTURE2_C_API fc2Error fc2GetInterfaceTypeFromGuid (fc2Context *context*, fc2PGRGuid * *pGuid*, fc2InterfaceType * *pInterfaceType*)

Gets the interface type associated with a PGRGuid.

This is useful in situations where there is a need to enumerate all cameras for a particular interface.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pGuid</i>	The PGRGuid to get the interface for.
<i>pInterface-Type</i>	The interface type of the PGRGuid.

Returns

4.1.1.53 FLYCAPTURE2_C_API fc2Error fc2GetLibraryVersion (fc2Version * *pVersion*)

Get library version.

Parameters

<i>pVersion</i>	Structure to receive the library version.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.54 FLYCAPTURE2_C_API fc2Error fc2GetLUTBankInfo (fc2Context *context*, unsigned int *bank*, BOOL * *pReadSupported*, BOOL * *pWriteSupported*)

Query the read/write status of a single LUT bank.

Parameters

<i>context</i>	The fc2Context to be used.
<i>bank</i>	The bank to query.
<i>pRead-Supported</i>	Whether reading from the bank is supported.
<i>pWrite-Supported</i>	Whether writing to the bank is supported.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.55 FLYCAPTURE2_C_API `fc2Error` `fc2GetLUTChannel` (`fc2Context` *context*, unsigned int *bank*, unsigned int *channel*, unsigned int *sizeEntries*, unsigned int * *pEntries*)

Get the LUT channel settings from the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>bank</i>	Bank to retrieve.
<i>channel</i>	Channel to retrieve.
<i>sizeEntries</i>	Number of entries in LUT table to read.
<i>pEntries</i>	Array to store LUT entries.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.56 FLYCAPTURE2_C_API `fc2Error` `fc2GetLUTInfo` (`fc2Context` *context*, `fc2LUTData` * *pData*)

Query if LUT support is available on the camera.

Note that some cameras may report support for the LUT and return an `inputBitDepth` of 0. In these cases use $\log_2(\text{numEntries})$ for the `inputBitDepth`.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pData</i>	The LUT structure to be filled.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.57 FLYCAPTURE2_C_API `fc2Error` `fc2GetMemoryChannel` (`fc2Context` *context*, unsigned int * *pCurrentChannel*)

Retrieve the current memory channel from the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pCurrent-Channel</i>	Current memory channel.

Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.58 FLYCAPTURE2_C_API `fc2Error` `fc2GetMemoryChannelInfo` (`fc2Context` *context*,
unsigned int * *pNumChannels*)**

Query the camera for memory channel support.

If the number of channels is 0, then memory channel support is not available.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pNum-Channels</i>	Number of memory channels supported.

Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.59 FLYCAPTURE2_C_API `fc2Error` `fc2GetNumOfCameras` (`fc2Context` *context*,
unsigned int * *pNumCameras*)**

Gets the number of cameras attached to the PC.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pNum-Cameras</i>	Number of cameras detected.

Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.60 FLYCAPTURE2_C_API `fc2Error` `fc2GetNumOfDevices` (`fc2Context` *context*,
unsigned int * *pNumDevices*)**

Gets the number of devices.

This may include hubs, host controllers and other hardware devices (including cameras).

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pNum-Devices</i>	The number of devices found.

Returns

An Error indicating the success or failure of the function.

4.1.1.61 FLYCAPTURE2_C_API fc2Error fc2GetNumStreamChannels (fc2Context *context*, unsigned int * *numChannels*)

4.1.1.62 FLYCAPTURE2_C_API fc2Error fc2GetProperty (fc2Context *context*, fc2Property * *prop*)

Reads the settings for the specified property from the camera.

The property type must be specified in the fc2Property structure passed into the function in order for the function to succeed. If auto is on, the integer and abs values returned may not be consistent with each other.

Parameters

<i>context</i>	The fc2Context to be used.
<i>prop</i>	Pointer to the Property structure to be filled.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.63 FLYCAPTURE2_C_API fc2Error fc2GetPropertyInfo (fc2Context *context*, fc2PropertyInfo * *propInfo*)

Retrieves information about the specified camera property.

The property type must be specified in the fc2PropertyInfo structure passed into the function in order for the function to succeed.

Parameters

<i>context</i>	The fc2Context to be used.
<i>propInfo</i>	Pointer to the PropertyInfo structure to be filled.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.64 FLYCAPTURE2_C_API const char* fc2GetRegisterString (unsigned int *registerVal*)

Returns a text representation of the register value.

Parameters

<i>registerVal</i>	The register value to query.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.65 FLYCAPTURE2_C_API `fc2Error` `fc2GetStrobe` (`fc2Context` *context*, `fc2StrobeControl` * *strobeControl*)

Retrieve current strobe settings from the camera.

The strobe pin must be specified in the structure before being passed in to the function.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>strobe-Control</i>	Structure to receive strobe settings.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.66 FLYCAPTURE2_C_API `fc2Error` `fc2GetStrobeInfo` (`fc2Context` *context*, `fc2StrobeInfo` * *strobeInfo*)

Retrieve strobe information from the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>strobeInfo</i>	Structure to receive strobe information.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.67 FLYCAPTURE2_C_API `fc2Error` `fc2GetSystemInfo` (`fc2SystemInfo` * *pSystemInfo*)

Get system information.

Parameters

<i>pSystemInfo</i>	Structure to receive system information.
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Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.68 FLYCAPTURE2_C_API `fc2Error` `fc2GetTriggerDelay` (`fc2Context` *context*,
`fc2TriggerDelay` * *triggerDelay*)**

Retrieve current trigger delay settings from the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>triggerDelay</i>	Structure to receive trigger delay settings.

Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.69 FLYCAPTURE2_C_API `fc2Error` `fc2GetTriggerDelayInfo` (`fc2Context` *context*,
`fc2TriggerDelayInfo` * *triggerDelayInfo*)**

Retrieve trigger delay information from the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>triggerDelay-Info</i>	Structure to receive trigger delay information.

Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.70 FLYCAPTURE2_C_API `fc2Error` `fc2GetTriggerMode` (`fc2Context` *context*,
`fc2TriggerMode` * *triggerMode*)**

Retrieve current trigger settings from the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>triggerMode</i>	Structure to receive trigger mode settings.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.71 FLYCAPTURE2_C_API **fc2Error** fc2GetTriggerModelInfo (**fc2Context** *context*, **fc2TriggerModelInfo** * *triggerModelInfo*)

Retrieve trigger information from the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>triggerModelInfo</i>	Structure to receive trigger information.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.72 FLYCAPTURE2_C_API **fc2Error** fc2GetVideoModeAndFrameRate (**fc2Context** *context*, **fc2VideoMode** * *videoMode*, **fc2FrameRate** * *frameRate*)

Get the current video mode and frame rate from the camera.

If the camera is in Format7, the video mode will be VIDEOMODE_FORMAT7 and the frame rate will be FRAMERATE_FORMAT7.

Parameters

<i>context</i>	The fc2Context to be used.
<i>videoMode</i>	Current video mode.
<i>frameRate</i>	Current frame rate.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.73 FLYCAPTURE2_C_API **fc2Error** fc2GetVideoModeAndFrameRateInfo (**fc2Context** *context*, **fc2VideoMode** *videoMode*, **fc2FrameRate** *frameRate*, **BOOL** * *pSupported*)

Query the camera to determine if the specified video mode and frame rate is supported.

Parameters

<i>context</i>	The fc2Context to be used.
<i>videoMode</i>	Video mode to check.
<i>frameRate</i>	Frame rate to check.
<i>pSupported</i>	Whether the video mode and frame rate is supported.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.74 FLYCAPTURE2_C_API `fc2Error` `fc2H264Open` (`fc2AVIContext` *AVIContext*, `const char *` *pFileName*, `fc2H264Option *` *pOption*)

Open an H.264 file in preparation for writing Images to disk.

The size of AVI files is limited to 2GB. The filenames are automatically generated using the filename specified.

Parameters

<i>AVIContext</i>	The AVI context to use.
<i>pFileName</i>	The filename of the AVI file.
<i>pOption</i>	Options to apply to the AVI file.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.75 FLYCAPTURE2_C_API `fc2Error` `fc2IsCameraControlable` (`fc2Context` *context*, `fc2PGRGuid *` *pGuid*, `BOOL *` *pControlable*)

Query whether a GigE camera is controlable.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pGuid</i>	Unique PGRGuid for the camera.
<i>pControlable</i>	True indicates camera is controllable

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.76 FLYCAPTURE2_C_API `fc2Error` `fc2LaunchBrowser` (`const char *` *pAddress*)

Launch a URL in the system default browser.

Parameters

<i>pAddress</i>	URL to open in browser.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.77 FLYCAPTURE2_C_API `fc2Error` `fc2LaunchCommand` (`const char *` *pCommand*)

Execute a command in the terminal.

This is a blocking call that will return when the command completes.

Parameters

<i>pCommand</i>	Command to execute.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.78 FLYCAPTURE2_C_API `fc2Error` `fc2LaunchCommandAsync` (`const char *` *pCommand*, `fc2AsyncCommandCallback` *pCallback*, `void *` *pUserData*)

Execute a command in the terminal.

This is a non-blocking call that will return immediately. The return value of the command can be retrieved in the callback.

Parameters

<i>pCommand</i>	Command to execute.
<i>pCallback</i>	Callback to fire when command is complete.
<i>pUserData</i>	Data pointer to pass to callback.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.79 FLYCAPTURE2_C_API `fc2Error` `fc2LaunchHelp` (`const char *` *pFileName*)

Open a CHM file in the system default CHM viewer.

Parameters

<i>pFileName</i>	Filename of CHM file to open.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.80 FLYCAPTURE2_C_API fc2Error fc2MJPEGOpen (fc2AVIContext *AVIContext*, const char * *pFileName*, fc2MJPEGOption * *pOption*)

Open an MJPEG file in preparation for writing Images to disk.

The size of AVI files is limited to 2GB. The filenames are automatically generated using the filename specified.

Parameters

<i>AVIContext</i>	The AVI context to use.
<i>pFileName</i>	The filename of the AVI file.
<i>pOption</i>	Options to apply to the AVI file.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.81 FLYCAPTURE2_C_API fc2Error fc2QueryGigElmagingMode (fc2Context *context*, fc2Mode *mode*, BOOL * *isSupported*)

4.1.1.82 FLYCAPTURE2_C_API fc2Error fc2ReadGVCPMemory (fc2Context *context*, unsigned int *address*, unsigned char * *pBuffer*, unsigned int *length*)

Read a GVCP memory block.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	GVCP address to be read from.
<i>pBuffer</i>	Array containing data to be written.
<i>length</i>	Size of array, in quadlets.

Returns

An Error indicating the success or failure of the function.

4.1.1.83 FLYCAPTURE2_C_API fc2Error fc2ReadGVCPRegister (fc2Context *context*, unsigned int *address*, unsigned int * *pValue*)

Read a GVCP register.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	GVCP address to be read from.
<i>pValue</i>	The value that is read.

Returns

An Error indicating the success or failure of the function.

4.1.1.84 FLYCAPTURE2_C.API fc2Error fc2ReadGVCPRegisterBlock (fc2Context context, unsigned int address, unsigned int * pBuffer, unsigned int length)

Read a GVCP register block.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	GVCP address to be read from.
<i>pBuffer</i>	Array containing data to be written.
<i>length</i>	Size of array, in quadlets.

Returns

An Error indicating the success or failure of the function.

4.1.1.85 FLYCAPTURE2_C.API fc2Error fc2ReadRegister (fc2Context context, unsigned int address, unsigned int * pValue)

Read the specified register from the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	DCAM address to be read from.
<i>pValue</i>	The value that is read.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.86 FLYCAPTURE2_C.API fc2Error fc2ReadRegisterBlock (fc2Context context, unsigned short addressHigh, unsigned int addressLow, unsigned int * pBuffer, unsigned int length)

Write to the specified register block on the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>addressHigh</i>	Top 16 bits of the 48 bit absolute address to read from.
<i>addressLow</i>	Bottom 32 bits of the 48 bits absolute address to read from.
<i>pBuffer</i>	Array to store read data.
<i>length</i>	Size of array, in quadlets.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.87 FLYCAPTURE2.C_API `fc2Error` `fc2RegisterCallback` (`fc2Context` *context*, `fc2BusEventCallback` *enumCallback*, `fc2BusCallbackType` *callbackType*, void * *pParameter*, `fc2CallbackHandle` * *pCallbackHandle*)

Register a callback function that will be called when the specified callback event occurs.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>enum-Callback</i>	Pointer to function that will receive the callback.
<i>callbackType</i>	Type of callback to register for.
<i>pParameter</i>	Callback parameter to be passed to callback.
<i>pCallback-Handle</i>	Unique callback handle used for unregistering callback.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.88 FLYCAPTURE2.C_API `fc2Error` `fc2RescanBus` (`fc2Context` *context*)

Force a rescan of the buses.

This does not trigger a bus reset. However, any current connections to a Camera object will be invalidated.

Returns

An Error indicating the success or failure of the function.

4.1.1.89 FLYCAPTURE2.C_API `fc2Error` `fc2RestoreFromMemoryChannel` (`fc2Context` *context*, unsigned int *channel*)

Restore the specified current memory channel.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>channel</i>	Memory channel to restore from.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.90 FLYCAPTURE2_C API `fc2Error fc2RetrieveBuffer (fc2Context context, fc2Image * plmage)`

Retrieves the the next image object containing the next image.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>plmage</i>	Pointer to fc2Image to store image data.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.91 FLYCAPTURE2_C API `fc2Error fc2Savelmage (fc2Image * plmage, const char * pFilename, fc2ImageFileFormat format)`

Save the image to the specified file name with the file format specified.

Parameters

<i>plmage</i>	The fc2Image to be used.
<i>pFilename</i>	Filename to save image with.
<i>format</i>	File format to save in.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.92 FLYCAPTURE2_C API `fc2Error fc2SavelmageWithOptions (fc2Image * plmage, const char * pFilename, fc2ImageFileFormat format, void * pOption)`

Save the image to the specified file name with the file format specified.

Parameters

<i>plmage</i>	The fc2Image to be used.
<i>pFilename</i>	Filename to save image with.
<i>format</i>	File format to save in.
<i>pOption</i>	Options for saving image.

Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.93 FLYCAPTURE2_C_API `fc2Error` `fc2SaveToMemoryChannel` (`fc2Context` *context*,
unsigned int *channel*)**

Save the current settings to the specified current memory channel.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>channel</i>	Memory channel to save to.

Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.94 FLYCAPTURE2_C_API `fc2Error` `fc2SetActiveLUTBank` (`fc2Context` *context*,
unsigned int *activeBank*)**

Set the LUT bank that will be used.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>activeBank</i>	The bank to be set as active.

Returns

A `fc2Error` indicating the success or failure of the function.

**4.1.1.95 FLYCAPTURE2_C_API `fc2Error` `fc2SetCallback` (`fc2Context` *context*,
`fc2ImageEventCallback` *pCallbackFn*, void * *pCallbackData*)**

Sets the callback data to be used on completion of image transfer.

To clear the current stored callback data, pass in NULL for both callback arguments.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pCallbackFn</i>	A function to be called when a new image is received.
<i>pCallbackData</i>	A pointer to data that can be passed to the callback function.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.96 FLYCAPTURE2_C API `fc2Error fc2SetConfiguration (fc2Context context, fc2Config * config)`

Set the configuration associated with the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>config</i>	Pointer to the configuration structure to be used.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.97 FLYCAPTURE2_C API `fc2Error fc2SetDefaultColorProcessing (fc2ColorProcessingAlgorithm defaultMethod)`

Set the default color processing algorithm.

This method will be used for any image with the DEFAULT algorithm set. The method used is determined at the time of the `Convert()` call, therefore the most recent execution of this function will take precedence. The default setting is shared within the current process.

Parameters

<i>default-Method</i>	The color processing algorithm to set.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.98 FLYCAPTURE2_C API `fc2Error fc2SetDefaultOutputFormat (fc2PixelFormat format)`

Set the default output pixel format.

This format will be used for any call to `Convert()` that does not specify an output format. The format used will be determined at the time of the `Convert()` call, therefore the most recent execution of this function will take precedence. The default is shared within the current process.

Parameters

<i>format</i>	The output pixel format to set.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.99 FLYCAPTURE2_C_API `fc2Error` `fc2SetEmbeddedImageInfo` (`fc2Context` *context*, `fc2EmbeddedImageInfo` * *pInfo*)

Sets the on/off values of the embedded image information structure to the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>pInfo</i>	Structure to be used.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.100 FLYCAPTURE2_C_API `fc2Error` `fc2SetFormat7Configuration` (`fc2Context` *context*, `fc2Format7ImageSettings` * *imageSettings*, float *percentSpeed*)

Set the current Format7 configuration to the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>image-Settings</i>	Image settings to be written to the camera.
<i>percent-Speed</i>	Packet size as a percentage to be written to the camera.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.101 FLYCAPTURE2_C_API `fc2Error` `fc2SetFormat7ConfigurationPacket` (`fc2Context` *context*, `fc2Format7ImageSettings` * *imageSettings*, unsigned int *packetSize*)

Set the current Format7 configuration to the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>image-Settings</i>	Image settings to be written to the camera.
<i>packetSize</i>	Packet size to be written to the camera.

Returns

A fc2Error indicating the success or failure of the function.

- 4.1.1.102 FLYCAPTURE2_C_API fc2Error fc2SetGigEConfig (fc2Context *context*, const fc2GigEConfig * *pConfig*)
- 4.1.1.103 FLYCAPTURE2_C_API fc2Error fc2SetGigEImageBinningSettings (fc2Context *context*, unsigned int *horzBinningValue*, unsigned int *vertBinningValue*)
- 4.1.1.104 FLYCAPTURE2_C_API fc2Error fc2SetGigEImageSettings (fc2Context *context*, const fc2GigEImageSettings * *pImageSettings*)
- 4.1.1.105 FLYCAPTURE2_C_API fc2Error fc2SetGigEImagingMode (fc2Context *context*, fc2Mode *mode*)
- 4.1.1.106 FLYCAPTURE2_C_API fc2Error fc2SetGigEProperty (fc2Context *context*, const fc2GigEProperty * *pGigEProp*)

Set the specified GigEProperty.

The GigEPropertyType field must be set in order for this function to succeed.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pGigEProp</i>	The GigE property to set.

Returns

An Error indicating the success or failure of the function.

- 4.1.1.107 FLYCAPTURE2_C_API fc2Error fc2SetGigEStreamChannelInfo (fc2Context *context*, unsigned int *channel*, fc2GigEStreamChannel * *pChannel*)
- 4.1.1.108 FLYCAPTURE2_C_API fc2Error fc2SetGPIOPinDirection (fc2Context *context*, unsigned int *pin*, unsigned int *direction*)

Set the GPIO pin direction for the specified pin.

This is useful if there is a need to set the pin into an input pin (i.e. to read the voltage)

off the pin without setting it as a trigger source. This is not a required call when using the trigger or strobe functions as the pin direction is set automatically internally.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pin</i>	Pin to get the direction for.
<i>direction</i>	Direction of the pin. 0 for input, 1 for output.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.109 FLYCAPTURE2_C_API fc2Error fc2SetGPIOPinDirectionBroadcast (fc2Context context, unsigned int pin, unsigned int direction)

Set the GPIO pin direction for the specified pin.

This is useful if there is a need to set the pin into an input pin (i.e. to read the voltage) off the pin without setting it as a trigger source. This is not a required call when using the trigger or strobe functions as the pin direction is set automatically internally.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pin</i>	Pin to get the direction for.
<i>direction</i>	Direction of the pin. 0 for input, 1 for output.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.110 FLYCAPTURE2_C_API fc2Error fc2SetImageData (fc2Image * pImage, const unsigned char * pData, unsigned int dataSize)

Set the data of the Image object.

Ownership of the image buffer is not transferred to the Image object. It is the user's responsibility to delete the buffer when it is no longer in use.

Parameters

<i>pImage</i>	The fc2Image to be used.
<i>pData</i>	Pointer to the image buffer.
<i>dataSize</i>	Size of the image buffer.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.111 FLYCAPTURE2.C API `fc2Error fc2SetImageDimensions (fc2Image * plmage, unsigned int rows, unsigned int cols, unsigned int stride, fc2PixelFormat pixelFormat, fc2BayerTileFormat bayerFormat)`

Sets the dimensions of the image object.

Parameters

<i>plmage</i>	The <code>fc2Image</code> to be used.
<i>rows</i>	Number of rows to set.
<i>cols</i>	Number of cols to set.
<i>stride</i>	Stride to set.
<i>pixelFormat</i>	Pixel format to set.
<i>bayerFormat</i>	Bayer tile format to set.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.112 FLYCAPTURE2.C API `fc2Error fc2SetLUTChannel (fc2Context context, unsigned int bank, unsigned int channel, unsigned int sizeEntries, unsigned int * pEntries)`

Set the LUT channel settings to the camera.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>bank</i>	Bank to set.
<i>channel</i>	Channel to set.
<i>sizeEntries</i>	Number of entries in LUT table to write. This must be the same size as <code>numEntries</code> returned by <code>GetLutInfo()</code> .
<i>pEntries</i>	Array containing LUT entries to write.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.113 FLYCAPTURE2.C API `fc2Error fc2SetProperty (fc2Context context, fc2Property * prop)`

Writes the settings for the specified property to the camera.

The property type must be specified in the Property structure passed into the function in order for the function to succeed. The absControl flag controls whether the absolute or integer value is written to the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>prop</i>	Pointer to the Property structure to be used.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.114 FLYCAPTURE2_C_API fc2Error fc2SetPropertyBroadcast (fc2Context *context*, fc2Property * *prop*)

Writes the settings for the specified property to the camera.

The property type must be specified in the Property structure passed into the function in order for the function to succeed. The absControl flag controls whether the absolute or integer value is written to the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>prop</i>	Pointer to the Property structure to be used.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.115 FLYCAPTURE2_C_API fc2Error fc2SetStrobe (fc2Context *context*, fc2StrobeControl * *strobeControl*)

Set current strobe settings to the camera.

The strobe pin must be specified in the structure before being passed in to the function.

Parameters

<i>context</i>	The fc2Context to be used.
<i>strobe-Control</i>	Structure providing strobe settings.

Returns

A fc2Error indicating the success or failure of the function.

**4.1.1.116 FLYCAPTURE2_C_API fc2Error fc2SetStrobeBroadcast (fc2Context *context*,
fc2StrobeControl * *strobeControl*)**

Set current strobe settings to the camera.

The strobe pin must be specified in the structure before being passed in to the function.

Parameters

<i>context</i>	The fc2Context to be used.
<i>strobe-Control</i>	Structure providing strobe settings.

Returns

A fc2Error indicating the success or failure of the function.

**4.1.1.117 FLYCAPTURE2_C_API fc2Error fc2SetTriggerDelay (fc2Context *context*,
fc2TriggerDelay * *triggerDelay*)**

Set the specified trigger delay settings to the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>triggerDelay</i>	Structure providing trigger delay settings.

Returns

A fc2Error indicating the success or failure of the function.

**4.1.1.118 FLYCAPTURE2_C_API fc2Error fc2SetTriggerDelayBroadcast (fc2Context *context*,
fc2TriggerDelay * *triggerDelay*)**

Set the specified trigger delay settings to the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>triggerDelay</i>	Structure providing trigger delay settings.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.119 FLYCAPTURE2_C_API fc2Error fc2SetTriggerMode (fc2Context context, fc2TriggerMode * triggerMode)

Set the specified trigger settings to the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>triggerMode</i>	Structure providing trigger mode settings.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.120 FLYCAPTURE2_C_API fc2Error fc2SetTriggerModeBroadcast (fc2Context context, fc2TriggerMode * triggerMode)

Set the specified trigger settings to the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>triggerMode</i>	Structure providing trigger mode settings.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.121 FLYCAPTURE2_C_API fc2Error fc2SetUserBuffers (fc2Context context, unsigned char *const ppMemBuffers, int size, int nNumBuffers)

Specify user allocated buffers to use as image data buffers.

Parameters

<i>context</i>	The fc2Context to be used.
<i>ppMem- Buffers</i>	Pointer to memory buffers to be written to. The size of the data should be equal to (size * numBuffers) or larger.
<i>size</i>	The size of each buffer (in bytes).
<i>nNum- Buffers</i>	Number of buffers in the array.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.122 FLYCAPTURE2_C_API **fc2Error** **fc2SetVideoModeAndFrameRate** (**fc2Context** *context*, **fc2VideoMode** *videoMode*, **fc2FrameRate** *frameRate*)

Set the specified video mode and frame rate to the camera.

It is not possible to set the camera to VIDEOMODE_FORMAT7 or FRAMERATE_FORMAT7. Use the Format7 functions to set the camera into Format7.

Parameters

<i>context</i>	The fc2Context to be used.
<i>videoMode</i>	Video mode to set to camera.
<i>frameRate</i>	Frame rate to set to camera.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.123 FLYCAPTURE2_C_API **fc2Error** **fc2StartCapture** (**fc2Context** *context*)

Starts isochronous image capture.

It will use either the current video mode or the most recently set video mode of the camera.

Parameters

<i>context</i>	The fc2Context to be used.
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Returns

A fc2Error indicating the success or failure of the function.

4.1.1.124 FLYCAPTURE2_C_API **fc2Error** **fc2StartCaptureCallback** (**fc2Context** *context*, **fc2ImageEventCallback** *pCallbackFn*, **void *** *pCallbackData*)

Starts isochronous image capture.

It will use either the current video mode or the most recently set video mode of the camera. The callback function is called when a new image is received from the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>pCallbackFn</i>	A function to be called when a new image is received.
<i>pCallbackData</i>	A pointer to data that can be passed to the callback function. A NULL pointer is acceptable.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.125 FLYCAPTURE2_C_API `fc2Error` `fc2StartSyncCapture` (unsigned int *numCameras*, `fc2Context` * *pContexts*)

Starts synchronized isochronous image capture on multiple cameras.

Parameters

<i>num-Cameras</i>	Number of <code>fc2Contexts</code> in the <code>ppCameras</code> array.
<i>pContexts</i>	Array of <code>fc2Contexts</code> .

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.126 FLYCAPTURE2_C_API `fc2Error` `fc2StartSyncCaptureCallback` (unsigned int *numCameras*, `fc2Context` * *pContexts*, `fc2ImageEventCallback` * *pCallbackFns*, void ** *pCallbackDataArray*)

Starts synchronized isochronous image capture on multiple cameras.

Parameters

<i>num-Cameras</i>	Number of <code>fc2Contexts</code> in the <code>ppCameras</code> array.
<i>pContexts</i>	Array of <code>fc2Contexts</code> .
<i>pCallback-Fns</i>	Array of callback functions for each camera.
<i>pCallback-DataArray</i>	Array of callback data pointers.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.127 FLYCAPTURE2_C_API `fc2Error` `fc2StopCapture` (`fc2Context` *context*)

Stops isochronous image transfer and cleans up all associated resources.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
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Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.128 FLYCAPTURE2_C API `fc2Error fc2UnregisterCallback (fc2Context context, fc2CallbackHandle callbackHandle)`

Unregister a callback function.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>callback-Handle</i>	Unique callback handle.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.129 FLYCAPTURE2_C API `fc2Error fc2ValidateFormat7Settings (fc2Context context, fc2Format7ImageSettings * imageSettings, BOOL * settingsAreValid, fc2Format7PacketInfo * packetInfo)`

Validates `Format7ImageSettings` structure and returns valid packet size information if the image settings are valid.

The current image settings are cached while validation is taking place. The cached settings are restored when validation is complete.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>image-Settings</i>	Structure containing the image settings.
<i>settingsAre-Valid</i>	Whether the settings are valid.
<i>packetInfo</i>	Packet size information that can be used to determine a valid packet size.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.130 FLYCAPTURE2_C API `fc2Error fc2WriteGVCPMemory (fc2Context context, unsigned int address, const unsigned char * pBuffer, unsigned int length)`

Write a GVCP memory block.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	GVCP address to be write to.
<i>pBuffer</i>	Array containing data to be written.
<i>length</i>	Size of array, in quadlets.

Returns

An Error indicating the success or failure of the function.

4.1.1.131 FLYCAPTURE2_C_API **fc2Error** fc2WriteGVCPRegister (**fc2Context** *context*,
unsigned int *address*, unsigned int *value*)

Write a GVCP register.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	GVCP address to be written to.
<i>value</i>	The value to be written.

Returns

An Error indicating the success or failure of the function.

4.1.1.132 FLYCAPTURE2_C_API **fc2Error** fc2WriteGVCPRegisterBlock (**fc2Context** *context*,
unsigned int *address*, const unsigned int * *pBuffer*, unsigned int *length*)

Write a GVCP register block.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	GVCP address to be write to.
<i>pBuffer</i>	Array containing data to be written.
<i>length</i>	Size of array, in quadlets.

Returns

An Error indicating the success or failure of the function.

4.1.1.133 FLYCAPTURE2_C_API **fc2Error** fc2WriteGVCPRegisterBroadcast (**fc2Context**
context, unsigned int *address*, unsigned int *value*)

Write a GVCP register with broadcast.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	GVCP address to be written to.
<i>value</i>	The value to be written.

Returns

An Error indicating the success or failure of the function.

4.1.1.134 FLYCAPTURE2_C_API fc2Error fc2WriteRegister (fc2Context *context*, unsigned int *address*, unsigned int *value*)

Write to the specified register on the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>address</i>	DCAM address to be written to.
<i>value</i>	The value to be written.

Returns

A fc2Error indicating the success or failure of the function.

4.1.1.135 FLYCAPTURE2_C_API fc2Error fc2WriteRegisterBlock (fc2Context *context*, unsigned short *addressHigh*, unsigned int *addressLow*, const unsigned int * *pBuffer*, unsigned int *length*)

Write to the specified register block on the camera.

Parameters

<i>context</i>	The fc2Context to be used.
<i>addressHigh</i>	Top 16 bits of the 48 bit absolute address to write to.
<i>addressLow</i>	Bottom 32 bits of the 48 bits absolute address to write to.
<i>pBuffer</i>	Array containing data to be written.
<i>length</i>	Size of array, in quadlets.

Returns

A `fc2Error` indicating the success or failure of the function.

4.1.1.136 FLYCAPTURE2.C API `fc2Error fc2WriteRegisterBroadcast (fc2Context context, unsigned int address, unsigned int value)`

Write to the specified register on the camera with broadcast.

Parameters

<i>context</i>	The <code>fc2Context</code> to be used.
<i>address</i>	DCAM address to be written to.
<i>value</i>	The value to be written.

Returns

A `fc2Error` indicating the success or failure of the function.

4.2 FlyCapture2Defs_C.h File Reference

Data Structures

- struct [fc2PGRGuid](#)
A GUID to the camera.
- struct [fc2Image](#)
- struct [fc2SystemInfo](#)
- struct [fc2Version](#)
- struct [fc2Config](#)
- struct [fc2TriggerDelayInfo](#)
- struct [fc2TriggerDelay](#)
- struct [fc2TriggerModelInfo](#)
- struct [fc2TriggerMode](#)
- struct [fc2StrobeInfo](#)
- struct [fc2StrobeControl](#)
- struct [fc2Format7ImageSettings](#)
- struct [fc2Format7Info](#)
- struct [fc2Format7PacketInfo](#)
- struct [fc2IPAddress](#)
- struct [fc2MACAddress](#)
- struct [fc2GigEProperty](#)
- struct [fc2GigEStreamChannel](#)
- struct [fc2GigEConfig](#)
- struct [fc2GigEImageSettingsInfo](#)
- struct [fc2GigEImageSettings](#)

- struct [fc2TimeStamp](#)
- struct [fc2ConfigROM](#)
- struct [fc2CameraInfo](#)
- struct [fc2EmbeddedImageInfoProperty](#)
- struct [fc2EmbeddedImageInfo](#)
- struct [fc2ImageMetadata](#)
- struct [fc2LUTData](#)
- struct [fc2PNGOption](#)
- struct [fc2PPMOption](#)
- struct [fc2PGMOption](#)
- struct [fc2TIFFOption](#)
- struct [fc2JPEGOOption](#)
- struct [fc2JPG2Option](#)
- struct [fc2AVIOption](#)
- struct [fc2MJPGOption](#)
- struct [fc2H264Option](#)

Defines

- #define [FALSE](#) 0
- #define [TRUE](#) 1
- #define [FULL_32BIT_VALUE](#) 0xFFFFFFFF
- #define [MAX_STRING_LENGTH](#) 512

Typedefs

- typedef int [BOOL](#)
- typedef void * [fc2Context](#)
A context to the FlyCapture2 C library.
- typedef void * [fc2GuiContext](#)
A context to the FlyCapture2 C GUI library.
- typedef void * [fc2ImageImpl](#)
An internal pointer used in the [fc2Image](#) structure.
- typedef void * [fc2AVIContext](#)
A context referring to the AVI recorder object.
- typedef void * [fc2ImageStatisticsContext](#)
A context referring to the ImageStatistics object.
- typedef void * [fc2CallbackHandle](#)
- typedef void(* [fc2BusEventCallback](#))(void *pParameter, unsigned int serial-Number)
- typedef void(* [fc2ImageEventCallback](#))(fc2Image *image, void *pCallbackData)
- typedef void(* [fc2AsyncCommandCallback](#))(fc2Error retError, void *pUserData)

Enumerations

- enum `fc2Error` { `FC2_ERROR_UNDEFINED` = -1, `FC2_ERROR_OK`, `FC2_ERROR_FAILED`, `FC2_ERROR_NOT_IMPLEMENTED`, `FC2_ERROR_FAILED_BUS_MASTER_CONNECTION`, `FC2_ERROR_NOT_CONNECTED`, `FC2_ERROR_INIT_FAILED`, `FC2_ERROR_NOT_INITIALIZED`, `FC2_ERROR_INVALID_PARAMETER`, `FC2_ERROR_INVALID_SETTINGS`, `FC2_ERROR_INVALID_BUS_MANAGER`, `FC2_ERROR_MEMORY_ALLOCATION_FAILED`, `FC2_ERROR_LOW_LEVEL_FAILURE`, `FC2_ERROR_NOT_FOUND`, `FC2_ERROR_FAILED_GUID`, `FC2_ERROR_INVALID_PACKET_SIZE`, `FC2_ERROR_INVALID_MODE`, `FC2_ERROR_NOT_IN_FORMAT7`, `FC2_ERROR_NOT_SUPPORTED`, `FC2_ERROR_TIMEOUT`, `FC2_ERROR_BUS_MASTER_FAILED`, `FC2_ERROR_INVALID_GENERATION`, `FC2_ERROR_LUT_FAILED`, `FC2_ERROR_IIDC_FAILED`, `FC2_ERROR_STROBE_FAILED`, `FC2_ERROR_TRIGGER_FAILED`, `FC2_ERROR_PROPERTY_FAILED`, `FC2_ERROR_PROPERTY_NOT_PRESENT`, `FC2_ERROR_REGISTER_FAILED`, `FC2_ERROR_READ_REGISTER_FAILED`, `FC2_ERROR_WRITE_REGISTER_FAILED`, `FC2_ERROR_ISOCH_FAILED`, `FC2_ERROR_ISOCH_ALREADY_STARTED`, `FC2_ERROR_ISOCH_NOT_STARTED`, `FC2_ERROR_ISOCH_START_FAILED`, `FC2_ERROR_ISOCH_RETRIEVE_BUFFER_FAILED`, `FC2_ERROR_ISOCH_STOP_FAILED`, `FC2_ERROR_ISOCH_SYNC_FAILED`, `FC2_ERROR_ISOCH_BANDWIDTH_EXCEEDED`, `FC2_ERROR_IMAGE_CONVERSION_FAILED`, `FC2_ERROR_IMAGE_LIBRARY_FAILURE`, `FC2_ERROR_BUFFER_TOO_SMALL`, `FC2_ERROR_IMAGE_CONSISTENCY_ERROR`, `FC2_ERROR_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2BusCallbackType` { `FC2_BUS_RESET`, `FC2_ARRIVAL`, `FC2_REMOVAL`, `FC2_CALLBACK_TYPE_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2GrabMode` { `FC2_DROP_FRAMES`, `FC2_BUFFER_FRAMES`, `FC2_UNSPECIFIED_GRAB_MODE`, `FC2_GRAB_MODE_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2GrabTimeout` { `FC2_TIMEOUT_NONE` = 0, `FC2_TIMEOUT_INFINITE` = -1, `FC2_TIMEOUT_UNSPECIFIED` = -2, `FC2_GRAB_TIMEOUT_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2BandwidthAllocation` { `FC2_BANDWIDTH_ALLOCATION_OFF` = 0, `FC2_BANDWIDTH_ALLOCATION_ON` = 1, `FC2_BANDWIDTH_ALLOCATION_UNSUPPORTED` = 2, `FC2_BANDWIDTH_ALLOCATION_UNSPECIFIED` = 3, `FC2_BANDWIDTH_ALLOCATION_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2InterfaceType` { `FC2_INTERFACE_IEEE1394`, `FC2_INTERFACE_USB_2`, `FC2_INTERFACE_USB_3`, `FC2_INTERFACE_GIGE`, `FC2_INTERFACE_UNKNOWN`, `FC2_INTERFACE_TYPE_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2DriverType` { `FC2_DRIVER_1394_CAM`, `FC2_DRIVER_1394_PRO`, `FC2_DRIVER_1394_JUJU`, `FC2_DRIVER_1394_VIDEO1394`, `FC2_DRIVER_1394_RAW1394`, `FC2_DRIVER_USB_NONE`, `FC2_DRIVER_USB_CAM`, `FC2_DRIVER_USB3_PRO`, `FC2_DRIVER_GIGE_NONE`, `FC2_DRIVER_GIGE_FILTER`, `FC2_DRIVER_GIGE_PRO`, `FC2_DRIVER_UNKNOWN` = -1, `FC2_DRIVER_FORCE_32BITS` = `FULL_32BIT_VALUE` }

Types of low level drivers that flycapture uses.

- enum `fc2PropertyType` { `FC2_BRIGHTNESS`, `FC2_AUTO_EXPOSURE`, `FC2_SHARPNESS`, `FC2_WHITE_BALANCE`, `FC2_HUE`, `FC2_SATURATION`, `FC2_GAMMA`, `FC2_IRIS`, `FC2_FOCUS`, `FC2_ZOOM`, `FC2_PAN`, `FC2_TILT`, `FC2_SHUTTER`, `FC2_GAIN`, `FC2_TRIGGER_MODE`, `FC2_TRIGGER_DELAY`, `FC2_FRAME_RATE`, `FC2_TEMPERATURE`, `FC2_UNSPECIFIED_PROPERTY_TYPE`, `FC2_PROPERTY_TYPE_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2FrameRate` { `FC2_FRAMERATE_1_875`, `FC2_FRAMERATE_3_75`, `FC2_FRAMERATE_7_5`, `FC2_FRAMERATE_15`, `FC2_FRAMERATE_30`, `FC2_FRAMERATE_60`, `FC2_FRAMERATE_120`, `FC2_FRAMERATE_240`, `FC2_FRAMERATE_FORMAT7`, `FC2_NUM_FRAMERATES`, `FC2_FRAMERATE_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2VideoMode` { `FC2_VIDEOMODE_160x120YUV444`, `FC2_VIDEOMODE_320x240YUV422`, `FC2_VIDEOMODE_640x480YUV411`, `FC2_VIDEOMODE_640x480YUV422`, `FC2_VIDEOMODE_640x480RGB`, `FC2_VIDEOMODE_640x480Y8`, `FC2_VIDEOMODE_640x480Y16`, `FC2_VIDEOMODE_800x600YUV422`, `FC2_VIDEOMODE_800x600RGB`, `FC2_VIDEOMODE_800x600Y8`, `FC2_VIDEOMODE_800x600Y16`, `FC2_VIDEOMODE_1024x768YUV422`, `FC2_VIDEOMODE_1024x768RGB`, `FC2_VIDEOMODE_1024x768Y8`, `FC2_VIDEOMODE_1024x768Y16`, `FC2_VIDEOMODE_1280x960YUV422`, `FC2_VIDEOMODE_1280x960RGB`, `FC2_VIDEOMODE_1280x960Y8`, `FC2_VIDEOMODE_1280x960Y16`, `FC2_VIDEOMODE_1600x1200YUV422`, `FC2_VIDEOMODE_1600x1200RGB`, `FC2_VIDEOMODE_1600x1200Y8`, `FC2_VIDEOMODE_1600x1200Y16`, `FC2_VIDEOMODE_FORMAT7`, `FC2_NUM_VIDEOMODES`, `FC2_VIDEOMODE_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2Mode` { `FC2_MODE_0` = 0, `FC2_MODE_1`, `FC2_MODE_2`, `FC2_MODE_3`, `FC2_MODE_4`, `FC2_MODE_5`, `FC2_MODE_6`, `FC2_MODE_7`, `FC2_MODE_8`, `FC2_MODE_9`, `FC2_MODE_10`, `FC2_MODE_11`, `FC2_MODE_12`, `FC2_MODE_13`, `FC2_MODE_14`, `FC2_MODE_15`, `FC2_MODE_16`, `FC2_MODE_17`, `FC2_MODE_18`, `FC2_MODE_19`, `FC2_MODE_20`, `FC2_MODE_21`, `FC2_MODE_22`, `FC2_MODE_23`, `FC2_MODE_24`, `FC2_MODE_25`, `FC2_MODE_26`, `FC2_MODE_27`, `FC2_MODE_28`, `FC2_MODE_29`, `FC2_MODE_30`, `FC2_MODE_31`, `FC2_NUM_MODES`, `FC2_MODE_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2PixelFormat` { `FC2_PIXEL_FORMAT_MONO8` = 0x80000000, `FC2_PIXEL_FORMAT_411YUV8` = 0x40000000, `FC2_PIXEL_FORMAT_422YUV8` = 0x20000000, `FC2_PIXEL_FORMAT_444YUV8` = 0x10000000, `FC2_PIXEL_FORMAT_RGB8` = 0x08000000, `FC2_PIXEL_FORMAT_MONO16` = 0x04000000, `FC2_PIXEL_FORMAT_RGB16` = 0x02000000, `FC2_PIXEL_FORMAT_S_MONO16` = 0x01000000, `FC2_PIXEL_FORMAT_S_RGB16` = 0x00800000, `FC2_PIXEL_FORMAT_RAW8` = 0x00400000, `FC2_PIXEL_FORMAT_RAW16` = 0x00200000, `FC2_PIXEL_FORMAT_MONO12` = 0x00100000, `FC2_PIXEL_FORMAT_RAW12` = 0x00080000, `FC2_PIXEL_FORMAT_BGR` = 0x80000008, `FC2_PIXEL_FORMAT_BGRU` = 0x40000008, `FC2_PIXEL_FORMAT_RGB` = `FC2_PIXEL_FORMAT_RGB8`, `FC2_PIXEL_FORMAT_RGBU` = 0x40000002, `FC2_PIXEL_FORMAT_BGR16` = 0x02000001, `FC2_PIXEL_FORMAT_BGRU16` = 0x02000002, `FC2_PIXEL_FORMAT_422YUV8_JPEG` = 0x40000001, `FC2_NUM_PIXEL_FORMATS` = 20, `FC2_UNSPECIFIED_PIXEL_FORMAT` = 0 }

- enum `fc2BusSpeed` { `FC2_BUSSPEED_S100`, `FC2_BUSSPEED_S200`, `FC2_BUSSPEED_S400`, `FC2_BUSSPEED_S480`, `FC2_BUSSPEED_S800`, `FC2_BUSSPEED_S1600`, `FC2_BUSSPEED_S3200`, `FC2_BUSSPEED_S5000`, `FC2_BUSSPEED_10BASE_T`, `FC2_BUSSPEED_100BASE_T`, `FC2_BUSSPEED_1000BASE_T`, `FC2_BUSSPEED_10000BASE_T`, `FC2_BUSSPEED_S_FASTEST`, `FC2_BUSSPEED_ANY`, `FC2_BUSSPEED_SPEED_UNKNOWN` = -1, `FC2_BUSSPEED_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2PCleBusSpeed` { `FC2_PCIE_BUSSPEED_2_5`, `FC2_PCIE_BUSSPEED_5_0`, `FC2_PCIE_BUSSPEED_UNKNOWN` = -1, `FC2_PCIE_BUSSPEED_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2ColorProcessingAlgorithm` { `FC2_DEFAULT`, `FC2_NO_COLOR_PROCESSING`, `FC2_NEAREST_NEIGHBOR_FAST`, `FC2_EDGE_SENSING`, `FC2_HQ_LINEAR`, `FC2_RIGOROUS`, `FC2_IPP`, `FC2_DIRECTIONAL`, `FC2_COLOR_PROCESSING_ALGORITHM_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2BayerTileFormat` { `FC2_BT_NONE`, `FC2_BT_RGGB`, `FC2_BT_GRBG`, `FC2_BT_GBRG`, `FC2_BT_BGGR`, `FC2_BT_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2ImageFileFormat` { `FC2_FROM_FILE_EXT` = -1, `FC2_PGM`, `FC2_PPM`, `FC2_BMP`, `FC2_JPEG`, `FC2_JPEG2000`, `FC2_TIFF`, `FC2_PNG`, `FC2_RAW`, `FC2_IMAGE_FILE_FORMAT_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2GigEPropertyType` { `FC2_HEARTBEAT`, `FC2_HEARTBEAT_TIMEOUT` }
- enum `fc2StatisticsChannel` { `FC2_STATISTICS_GREY`, `FC2_STATISTICS_RED`, `FC2_STATISTICS_GREEN`, `FC2_STATISTICS_BLUE`, `FC2_STATISTICS_HUE`, `FC2_STATISTICS_SATURATION`, `FC2_STATISTICS_LIGHTNESS`, `FC2_STATISTICS_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2OSType` { `FC2_WINDOWS_X86`, `FC2_WINDOWS_X64`, `FC2_LINUX_X86`, `FC2_LINUX_X64`, `FC2_MAC`, `FC2_UNKNOWN_OS`, `FC2_OSTYPE_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2ByteOrder` { `FC2_BYTE_ORDER_LITTLE_ENDIAN`, `FC2_BYTE_ORDER_BIG_ENDIAN`, `FC2_BYTE_ORDER_FORCE_32BITS` = `FULL_32BIT_VALUE` }
- enum `fc2TIFFCompressionMethod` { `FC2_TIFF_NONE` = 1, `FC2_TIFF_PACKBITS`, `FC2_TIFF_DEFLATE`, `FC2_TIFF_ADOBE_DEFLATE`, `FC2_TIFF_CCITT`, `FC2_TIFF_CCITTFAX3`, `FC2_TIFF_CCITTFAX4`, `FC2_TIFF_LZW`, `FC2_TIFF_JPEG` }

4.2.1 Define Documentation

4.2.1.1 `#define FALSE 0`

4.2.1.2 `#define FULL_32BIT_VALUE 0x7FFFFFFF`

4.2.1.3 `#define MAX_STRING_LENGTH 512`

4.2.1.4 `#define TRUE 1`

4.2.2 Typedef Documentation

4.2.2.1 typedef int BOOL

4.2.2.2 typedef void(* fc2AsyncCommandCallback)(fc2Error retError, void *pUserData)

4.2.2.3 typedef void* fc2AVIContext

A context referring to the AVI recorder object.

4.2.2.4 typedef void(* fc2BusEventCallback)(void *pParameter, unsigned int serialNumber)

4.2.2.5 typedef void* fc2CallbackHandle

4.2.2.6 typedef void* fc2Context

A context to the FlyCapture2 C library.

It must be created before performing any calls to the library.

4.2.2.7 typedef void* fc2GuiContext

A context to the FlyCapture2 C GUI library.

It must be created before performing any calls to the library.

4.2.2.8 typedef void(* fc2ImageEventCallback)(fc2Image *image, void *pCallbackData)

4.2.2.9 typedef void* fc2ImageImpl

An internal pointer used in the [fc2Image](#) structure.

4.2.2.10 typedef void* fc2ImageStatisticsContext

A context referring to the ImageStatistics object.

4.2.3 Enumeration Type Documentation

4.2.3.1 enum fc2BandwidthAllocation

Enumerator:

```
FC2_BANDWIDTH_ALLOCATION_OFF  
FC2_BANDWIDTH_ALLOCATION_ON  
FC2_BANDWIDTH_ALLOCATION_UNSUPPORTED  
FC2_BANDWIDTH_ALLOCATION_UNSPECIFIED
```

FC2_BANDWIDTH_ALLOCATION_FORCE_32BITS

4.2.3.2 enum fc2BayerTileFormat

Enumerator:

FC2_BT_NONE No bayer tile format.
FC2_BT_RGGB Red-Green-Green-Blue.
FC2_BT_GRBG Green-Red-Blue-Green.
FC2_BT_GBRG Green-Blue-Red-Green.
FC2_BT_BGGR Blue-Green-Green-Red.
FC2_BT_FORCE_32BITS

4.2.3.3 enum fc2BusCallbackType

Enumerator:

FC2_BUS_RESET
FC2_ARRIVAL
FC2_REMOVAL
FC2_CALLBACK_TYPE_FORCE_32BITS

4.2.3.4 enum fc2BusSpeed

Enumerator:

FC2_BUSSPEED_S100 100Mbps/sec.
FC2_BUSSPEED_S200 200Mbps/sec.
FC2_BUSSPEED_S400 400Mbps/sec.
FC2_BUSSPEED_S480 480Mbps/sec. Only for USB2 cameras.
FC2_BUSSPEED_S800 800Mbps/sec.
FC2_BUSSPEED_S1600 1600Mbps/sec.
FC2_BUSSPEED_S3200 3200Mbps/sec.
FC2_BUSSPEED_S5000 5000Mbps/sec. Only for USB3 cameras.
FC2_BUSSPEED_10BASE_T 10Base-T. Only for GigE cameras.
FC2_BUSSPEED_100BASE_T 100Base-T. Only for GigE cameras.
FC2_BUSSPEED_1000BASE_T 1000Base-T (Gigabit Ethernet). Only for GigE cameras.
FC2_BUSSPEED_10000BASE_T 10000Base-T. Only for GigE cameras.
FC2_BUSSPEED_S_FASTEST The fastest speed available.
FC2_BUSSPEED_ANY Any speed that is available.
FC2_BUSSPEED_SPEED_UNKNOWN Unknown bus speed.
FC2_BUSSPEED_FORCE_32BITS

4.2.3.5 enum fc2ByteOrder

Enumerator:

FC2_BYTE_ORDER_LITTLE_ENDIAN
FC2_BYTE_ORDER_BIG_ENDIAN
FC2_BYTE_ORDER_FORCE_32BITS

4.2.3.6 enum fc2ColorProcessingAlgorithm

Enumerator:

FC2_DEFAULT
FC2_NO_COLOR_PROCESSING
FC2_NEAREST_NEIGHBOR_FAST
FC2_EDGE_SENSING
FC2_HQ_LINEAR
FC2_RIGOROUS
FC2_IPP
FC2_DIRECTIONAL
FC2_COLOR_PROCESSING_ALGORITHM_FORCE_32BITS

4.2.3.7 enum fc2DriverType

Types of low level drivers that flycapture uses.

Enumerator:

FC2_DRIVER_1394_CAM PGRCam.sys.
FC2_DRIVER_1394_PRO PGR1394.sys.
FC2_DRIVER_1394_JUJU firewire_core.
FC2_DRIVER_1394_VIDEO1394 video1394.
FC2_DRIVER_1394_RAW1394 raw1394.
FC2_DRIVER_USB_NONE No usb driver used just BSD stack. (Linux only)
FC2_DRIVER_USB_CAM PGRUsbCam.sys.
FC2_DRIVER_USB3_PRO PGRXHCl.sys.
FC2_DRIVER_GIGE_NONE no gige drivers used,MS/BSD stack.
FC2_DRIVER_GIGE_FILTER PGRGigE.sys.
FC2_DRIVER_GIGE_PRO PGRGigEPro.sys.
FC2_DRIVER_UNKNOWN Unknown driver type.
FC2_DRIVER_FORCE_32BITS

4.2.3.8 enum fc2Error

Enumerator:

FC2_ERROR_UNDEFINED Undefined.

FC2_ERROR_OK Function returned with no errors.

FC2_ERROR_FAILED General failure.

FC2_ERROR_NOT_IMPLEMENTED Function has not been implemented.

FC2_ERROR_FAILED_BUS_MASTER_CONNECTION Could not connect to -
Bus Master.

FC2_ERROR_NOT_CONNECTED Camera has not been connected.

FC2_ERROR_INIT_FAILED Initialization failed.

FC2_ERROR_NOT_INITIALIZED Camera has not been initialized.

FC2_ERROR_INVALID_PARAMETER Invalid parameter passed to function.

FC2_ERROR_INVALID_SETTINGS Setting set to camera is invalid.

FC2_ERROR_INVALID_BUS_MANAGER Invalid Bus Manager object.

FC2_ERROR_MEMORY_ALLOCATION_FAILED Could not allocate memory.

FC2_ERROR_LOW_LEVEL_FAILURE Low level error.

FC2_ERROR_NOT_FOUND Device not found.

FC2_ERROR_FAILED_GUID GUID failure.

FC2_ERROR_INVALID_PACKET_SIZE Packet size set to camera is invalid.

FC2_ERROR_INVALID_MODE Invalid mode has been passed to function.

FC2_ERROR_NOT_IN_FORMAT7 Error due to not being in Format7.

FC2_ERROR_NOT_SUPPORTED This feature is unsupported.

FC2_ERROR_TIMEOUT Timeout error.

FC2_ERROR_BUS_MASTER_FAILED Bus Master Failure.

FC2_ERROR_INVALID_GENERATION Generation Count Mismatch.

FC2_ERROR_LUT_FAILED Look Up Table failure.

FC2_ERROR_IIDC_FAILED IIDC failure.

FC2_ERROR_STROBE_FAILED Strobe failure.

FC2_ERROR_TRIGGER_FAILED Trigger failure.

FC2_ERROR_PROPERTY_FAILED Property failure.

FC2_ERROR_PROPERTY_NOT_PRESENT Property is not present.

FC2_ERROR_REGISTER_FAILED Register access failed.

FC2_ERROR_READ_REGISTER_FAILED Register read failed.

FC2_ERROR_WRITE_REGISTER_FAILED Register write failed.

FC2_ERROR_ISOCH_FAILED Isochronous failure.

FC2_ERROR_ISOCH_ALREADY_STARTED Isochronous transfer has already
been started.

FC2_ERROR_ISOCH_NOT_STARTED Isochronous transfer has not been
started.

FC2_ERROR_ISOCH_START_FAILED Isochronous start failed.

FC2_ERROR_ISOCH_RETRIEVE_BUFFER_FAILED Isochronous retrieve buffer failed.

FC2_ERROR_ISOCH_STOP_FAILED Isochronous stop failed.

FC2_ERROR_ISOCH_SYNC_FAILED Isochronous image synchronization failed.

FC2_ERROR_ISOCH_BANDWIDTH_EXCEEDED Isochronous bandwidth exceeded.

FC2_ERROR_IMAGE_CONVERSION_FAILED Image conversion failed.

FC2_ERROR_IMAGE_LIBRARY_FAILURE Image library failure.

FC2_ERROR_BUFFER_TOO_SMALL Buffer is too small.

FC2_ERROR_IMAGE_CONSISTENCY_ERROR There is an image consistency error.

FC2_ERROR_FORCE_32BITS

4.2.3.9 enum fc2FrameRate

Enumerator:

FC2_FRAMERATE_1_875 1.875 fps.

FC2_FRAMERATE_3_75 3.75 fps.

FC2_FRAMERATE_7_5 7.5 fps.

FC2_FRAMERATE_15 15 fps.

FC2_FRAMERATE_30 30 fps.

FC2_FRAMERATE_60 60 fps.

FC2_FRAMERATE_120 120 fps.

FC2_FRAMERATE_240 240 fps.

FC2_FRAMERATE_FORMAT7 Custom frame rate for Format7 functionality.

FC2_NUM_FRAMERATES Number of possible camera frame rates.

FC2_FRAMERATE_FORCE_32BITS

4.2.3.10 enum fc2GigEPropertyType

Enumerator:

FC2_HEARTBEAT

FC2_HEARTBEAT_TIMEOUT

4.2.3.11 enum fc2GrabMode

Enumerator:

FC2_DROP_FRAMES
FC2_BUFFER_FRAMES
FC2_UNSPECIFIED_GRAB_MODE
FC2_GRAB_MODE_FORCE_32BITS

4.2.3.12 enum fc2GrabTimeout

Enumerator:

FC2_TIMEOUT_NONE
FC2_TIMEOUT_INFINITE
FC2_TIMEOUT_UNSPECIFIED
FC2_GRAB_TIMEOUT_FORCE_32BITS

4.2.3.13 enum fc2ImageFileFormat

Enumerator:

FC2_FROM_FILE_EXT Determine file format from file extension.
FC2_PGM Portable gray map.
FC2_PPM Portable pixmap.
FC2_BMP Bitmap.
FC2_JPEG JPEG.
FC2_JPEG2000 JPEG 2000.
FC2_TIFF Tagged image file format.
FC2_PNG Portable network graphics.
FC2_RAW Raw data.
FC2_IMAGE_FILE_FORMAT_FORCE_32BITS

4.2.3.14 enum fc2InterfaceType

Enumerator:

FC2_INTERFACE_IEEE1394
FC2_INTERFACE_USB_2
FC2_INTERFACE_USB_3
FC2_INTERFACE_GIGE
FC2_INTERFACE_UNKNOWN
FC2_INTERFACE_TYPE_FORCE_32BITS

4.2.3.15 enum fc2Mode

Enumerator:

FC2_MODE_0
FC2_MODE_1
FC2_MODE_2
FC2_MODE_3
FC2_MODE_4
FC2_MODE_5
FC2_MODE_6
FC2_MODE_7
FC2_MODE_8
FC2_MODE_9
FC2_MODE_10
FC2_MODE_11
FC2_MODE_12
FC2_MODE_13
FC2_MODE_14
FC2_MODE_15
FC2_MODE_16
FC2_MODE_17
FC2_MODE_18
FC2_MODE_19
FC2_MODE_20
FC2_MODE_21
FC2_MODE_22
FC2_MODE_23
FC2_MODE_24
FC2_MODE_25
FC2_MODE_26
FC2_MODE_27
FC2_MODE_28
FC2_MODE_29
FC2_MODE_30
FC2_MODE_31
FC2_NUM_MODES Number of modes.
FC2_MODE_FORCE_32BITS

4.2.3.16 enum fc2OSType

Enumerator:

FC2_WINDOWS_X86
FC2_WINDOWS_X64
FC2_LINUX_X86
FC2_LINUX_X64
FC2_MAC
FC2_UNKNOWN_OS
FC2_OSTYPE_FORCE_32BITS

4.2.3.17 enum fc2PCleBusSpeed

Enumerator:

FC2_PCIE_BUSSPEED_2_5
FC2_PCIE_BUSSPEED_5_0 2.5 Gb/s
FC2_PCIE_BUSSPEED_UNKNOWN 5.0 Gb/s
FC2_PCIE_BUSSPEED_FORCE_32BITS Speed is unknown.

4.2.3.18 enum fc2PixelFormat

Enumerator:

FC2_PIXEL_FORMAT_MONO8 8 bits of mono information.
FC2_PIXEL_FORMAT_411YUV8 YUV 4:1:1.
FC2_PIXEL_FORMAT_422YUV8 YUV 4:2:2.
FC2_PIXEL_FORMAT_444YUV8 YUV 4:4:4.
FC2_PIXEL_FORMAT_RGB8 R = G = B = 8 bits.
FC2_PIXEL_FORMAT_MONO16 16 bits of mono information.
FC2_PIXEL_FORMAT_RGB16 R = G = B = 16 bits.
FC2_PIXEL_FORMAT_S_MONO16 16 bits of signed mono information.
FC2_PIXEL_FORMAT_S_RGB16 R = G = B = 16 bits signed.
FC2_PIXEL_FORMAT_RAW8 8 bit raw data output of sensor.
FC2_PIXEL_FORMAT_RAW16 16 bit raw data output of sensor.
FC2_PIXEL_FORMAT_MONO12 12 bits of mono information.
FC2_PIXEL_FORMAT_RAW12 12 bit raw data output of sensor.
FC2_PIXEL_FORMAT_BGR 24 bit BGR.
FC2_PIXEL_FORMAT_BGRU 32 bit BGRU.
FC2_PIXEL_FORMAT_RGB 24 bit RGB.

FC2_PIXEL_FORMAT_RGBU 32 bit RGBU.
FC2_PIXEL_FORMAT_BGR16 R = G = B = 16 bits.
FC2_PIXEL_FORMAT_BGRU16 64 bit BGRU.
FC2_PIXEL_FORMAT_422YUV8_JPEG JPEG compressed stream.
FC2_NUM_PIXEL_FORMATS Number of pixel formats.
FC2_UNSPECIFIED_PIXEL_FORMAT Unspecified pixel format.

4.2.3.19 enum fc2PropertyType

Enumerator:

FC2_BRIGHTNESS
FC2_AUTO_EXPOSURE
FC2_SHARPNESS
FC2_WHITE_BALANCE
FC2_HUE
FC2_SATURATION
FC2_GAMMA
FC2_IRIS
FC2_FOCUS
FC2_ZOOM
FC2_PAN
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FC2_SHUTTER
FC2_GAIN
FC2_TRIGGER_MODE
FC2_TRIGGER_DELAY
FC2_FRAME_RATE
FC2_TEMPERATURE
FC2_UNSPECIFIED_PROPERTY_TYPE
FC2_PROPERTY_TYPE_FORCE_32BITS

4.2.3.20 enum fc2StatisticsChannel

Enumerator:

FC2_STATISTICS_GREY
FC2_STATISTICS_RED
FC2_STATISTICS_GREEN
FC2_STATISTICS_BLUE

FC2_STATISTICS_HUE
FC2_STATISTICS_SATURATION
FC2_STATISTICS_LIGHTNESS
FC2_STATISTICS_FORCE_32BITS

4.2.3.21 enum fc2TIFFCompressionMethod

Enumerator:

FC2_TIFF_NONE
FC2_TIFF_PACKBITS
FC2_TIFF_DEFLATE
FC2_TIFF_ADOBE_DEFLATE
FC2_TIFF_CCITTFAX3
FC2_TIFF_CCITTFAX4
FC2_TIFF_LZW
FC2_TIFF_JPEG

4.2.3.22 enum fc2VideoMode

Enumerator:

FC2_VIDEOMODE_160x120YUV444 160x120 YUV444.
FC2_VIDEOMODE_320x240YUV422 320x240 YUV422.
FC2_VIDEOMODE_640x480YUV411 640x480 YUV411.
FC2_VIDEOMODE_640x480YUV422 640x480 YUV422.
FC2_VIDEOMODE_640x480RGB 640x480 24-bit RGB.
FC2_VIDEOMODE_640x480Y8 640x480 8-bit.
FC2_VIDEOMODE_640x480Y16 640x480 16-bit.
FC2_VIDEOMODE_800x600YUV422 800x600 YUV422.
FC2_VIDEOMODE_800x600RGB 800x600 RGB.
FC2_VIDEOMODE_800x600Y8 800x600 8-bit.
FC2_VIDEOMODE_800x600Y16 800x600 16-bit.
FC2_VIDEOMODE_1024x768YUV422 1024x768 YUV422.
FC2_VIDEOMODE_1024x768RGB 1024x768 RGB.
FC2_VIDEOMODE_1024x768Y8 1024x768 8-bit.
FC2_VIDEOMODE_1024x768Y16 1024x768 16-bit.
FC2_VIDEOMODE_1280x960YUV422 1280x960 YUV422.
FC2_VIDEOMODE_1280x960RGB 1280x960 RGB.
FC2_VIDEOMODE_1280x960Y8 1280x960 8-bit.

FC2_VIDEOMODE_1280x960Y16 1280x960 16-bit.
FC2_VIDEOMODE_1600x1200YUV422 1600x1200 YUV422.
FC2_VIDEOMODE_1600x1200RGB 1600x1200 RGB.
FC2_VIDEOMODE_1600x1200Y8 1600x1200 8-bit.
FC2_VIDEOMODE_1600x1200Y16 1600x1200 16-bit.
FC2_VIDEOMODE_FORMAT7 Custom video mode for Format7 functionality.
FC2_NUM_VIDEOMODES Number of possible video modes.
FC2_VIDEOMODE_FORCE_32BITS

4.3 FlyCapture2GUI_C.h File Reference

Functions

- FLYCAPTURE2_C_API [fc2Error](#) [fc2CreateGUIContext](#) ([fc2GuiContext](#) *pContext)
Create a GUI context.
- FLYCAPTURE2_C_API [fc2Error](#) [fc2DestroyGUIContext](#) ([fc2GuiContext](#) context)
Destroy a GUI context.
- FLYCAPTURE2_C_API void [fc2GUIConnect](#) ([fc2GuiContext](#) context, [fc2Context](#) cameraContext)
Connect GUI context to a camera context.
- FLYCAPTURE2_C_API void [fc2Disonnect](#) ([fc2GuiContext](#) context)
Disconnect GUI context from camera.
- FLYCAPTURE2_C_API void [fc2Show](#) ([fc2GuiContext](#) context)
Show the GUI.
- FLYCAPTURE2_C_API void [fc2Hide](#) ([fc2GuiContext](#) context)
Hide the GUI.
- FLYCAPTURE2_C_API [BOOL](#) [fc2IsVisible](#) ([fc2GuiContext](#) context)
Check if the GUI is visible.
- FLYCAPTURE2_C_API void [fc2ShowModal](#) ([fc2GuiContext](#) context, [BOOL](#) *pOkSelected, [fc2PGRGuid](#) *guidArray, unsigned int *size)
Show the camera selection dialog.

4.3.1 Function Documentation

4.3.1.1 FLYCAPTURE2_C_API [fc2Error](#) [fc2CreateGUIContext](#) ([fc2GuiContext](#) * *pContext*)

Create a GUI context.

Parameters

<i>pContext</i>	Pointer to context to be created.
-----------------	-----------------------------------

Returns

An Error indicating the success or failure of the function.

4.3.1.2 FLYCAPTURE2_C_API fc2Error fc2DestroyGUIContext (fc2GuiContext context)

Destroy a GUI context.

Parameters

<i>context</i>	Context to be destroyed.
----------------	--------------------------

Returns

An Error indicating the success or failure of the function.

4.3.1.3 FLYCAPTURE2_C_API void fc2Disonnect (fc2GuiContext context)

Disconnect GUI context from camera.

Parameters

<i>context</i>	GUI context to disconnect.
----------------	----------------------------

Returns

An Error indicating the success or failure of the function.

4.3.1.4 FLYCAPTURE2_C_API void fc2GUIConnect (fc2GuiContext context, fc2Context cameraContext)

Connect GUI context to a camera context.

Parameters

<i>context</i>	GUI context to connect.
<i>camera-Context</i>	Camera context to connect.

Returns

An Error indicating the success or failure of the function.

4.3.1.5 FLYCAPTURE2_C_API void fc2Hide (fc2GuiContext context)

Hide the GUI.

Parameters

<i>context</i>	Pointer to context to hide.
----------------	-----------------------------

Returns

An Error indicating the success or failure of the function.

4.3.1.6 FLYCAPTURE2.C_API BOOL fc2IsVisible (fc2GuiContext context)

Check if the GUI is visible.

Parameters

<i>context</i>	Pointer to context to show.
----------------	-----------------------------

Returns

Whether the GUI is visible.

4.3.1.7 FLYCAPTURE2.C_API void fc2Show (fc2GuiContext context)

Show the GUI.

Parameters

<i>context</i>	Pointer to context to show.
----------------	-----------------------------

Returns

An Error indicating the success or failure of the function.

4.3.1.8 FLYCAPTURE2.C_API void fc2ShowModal (fc2GuiContext context, BOOL * pOkSelected, fc2PGRGuid * guidArray, unsigned int * size)

Show the camera selection dialog.

Parameters

<i>context</i>	Pointer to context to show.
<i>pOkSelected</i>	Whether Ok (true) or Cancel (false) was clicked.
<i>guidArray</i>	Array of PGRGuids containing the selected cameras.
<i>size</i>	Size of PGRGuid array.

4.4 FlyCapture2Internal_C.h File Reference

Data Structures

- struct [fc2InternalContext](#)
- struct [fc2InternalGuiContext](#)
- struct [fc2InternalImageCallback](#)

Functions

- bool [IsContextValid](#) ([fc2Context](#) context)
- bool [IsGuiContextValid](#) ([fc2GuiContext](#) context)
- void [SyncCpplImageToStruct](#) ([fc2Image](#) *pImage)

4.4.1 Function Documentation

4.4.1.1 bool [IsContextValid](#) ([fc2Context](#) context) [inline]

4.4.1.2 bool [IsGuiContextValid](#) ([fc2GuiContext](#) context) [inline]

4.4.1.3 void [SyncCpplImageToStruct](#) ([fc2Image](#) *pImage) [inline]

4.5 FlyCapture2Platform_C.h File Reference

Defines

- #define [FLYCAPTURE2_C_API](#)
- #define [FLYCAPTURE2_C_CALL_CONVEN](#)

4.5.1 Define Documentation

4.5.1.1 #define [FLYCAPTURE2_C_API](#)

4.5.1.2 #define [FLYCAPTURE2_C_CALL_CONVEN](#)

4.6 MultiSyncLibrary_C.h File Reference

Functions

- MULTISYNCLIBRARY_C_API [syncError](#) [syncCreateContext](#) ([syncContext](#) *pContext)
Create a Sync context for MultiSync Library.
- MULTISYNCLIBRARY_C_API [syncError](#) [syncDestroyContext](#) ([syncContext](#) context)

Destory the sync context.

- MULTISYNCLIBRARY_C_API [syncError syncStart](#) ([syncContext](#) context)

Start the sync progress.

- MULTISYNCLIBRARY_C_API [syncError syncStop](#) ([syncContext](#) context)

Stop the sync progress.

- MULTISYNCLIBRARY_C_API [syncError syncRescanMasterTimingBus](#) ([syncContext](#) context)

Scan newly connected or removed timing bus (for corss-PC syncing only)

- MULTISYNCLIBRARY_C_API [syncMessage syncGetStatus](#) ([syncContext](#) context)

Start the sync progress.

- MULTISYNCLIBRARY_C_API double [syncGetTimeSinceSynced](#) ([syncContext](#) context)

Time since sync started.

- MULTISYNCLIBRARY_C_API bool [syncIsTimingBusConnected](#) ([syncContext](#) context)

Whether syncing across PCs.

- MULTISYNCLIBRARY_C_API bool [syncEnableCrossPCsSynchronization](#) ([syncContext](#) context)

Enable across pc synchronization support.

- MULTISYNCLIBRARY_C_API bool [syncDisableCrossPCsSynchronization](#) ([syncContext](#) context)

Disable across pc synchronization support.

- MULTISYNCLIBRARY_C_API bool [syncQueryCrossPCsSynchronizationSetting](#) ([syncContext](#) context)

Query cross pc synchronizaion support status.

4.6.1 Function Documentation

4.6.1.1 MULTISYNCLIBRARY_C_API [syncError syncCreateContext](#) ([syncContext](#) * [pContext](#))

Create a Sync context for MultiSync Library.

This call must be made before any other calls that use a context will succeed.

Parameters

pContext	A pointer to the syncContext to be created.
--------------------------	---

Returns

A [syncError](#) indicating the success or failure of the function.

4.6.1.2 MULTISYNCLIBRARY_C_API syncError syncDestroyContext (syncContext context)

Destory the sync context.

This must be called when the user is finished with the context in order to prevent memory leaks.

Parameters

<i>context</i>	The syncContext to be destroyed.
----------------	----------------------------------

Returns

A syncError indicating the success or failure of the function.

4.6.1.3 MULTISYNCLIBRARY_C_API bool syncDisableCrossPCSynchronization (syncContext context)

Disable across pc synchronization support.

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

True if operation was successful

4.6.1.4 MULTISYNCLIBRARY_C_API bool syncEnableCrossPCSynchronization (syncContext context)

Enable across pc synchronization support.

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

True if operation was successful

4.6.1.5 MULTISYNCLIBRARY_C_API syncMessage syncGetStatus (syncContext context)

Start the sync progress.

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

A syncMessage indicating the sync status.

4.6.1.6 MULTISYNCLIBRARY_C_API double syncGetTimeSinceSynced (syncContext context)

Time since sync started.

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

Time since sync started.

4.6.1.7 MULTISYNCLIBRARY_C_API bool syncIsTimingBusConnected (syncContext context)

Whether syncing across PCs.

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

True if its syncing across PC

4.6.1.8 MULTISYNCLIBRARY_C_API bool syncQueryCrossPCSynchronizationSetting (syncContext context)

Query cross pc synchronizaion support status.

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

True if cross pc synchronization was supported

4.6.1.9 MULTISYNCLIBRARY_C_API syncError syncRescanMasterTimingBus (syncContext context)

Scan newly connected or removed timing bus (for corss-PC syncing only)

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

A syncError indicating the success or failure of the function.

4.6.1.10 MULTISYNCLIBRARY_C_API syncError syncStart (syncContext context)

Start the sync progress.

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

A syncError indicating the success or failure of the function.

4.6.1.11 MULTISYNCLIBRARY_C_API syncError syncStop (syncContext context)

Stop the sync progress.

Parameters

<i>context</i>	The syncContext to be used.
----------------	-----------------------------

Returns

A syncError indicating the success or failure of the function.

4.7 MultiSyncLibraryDefs_C.h File Reference

Defines

- `#define FALSE 0`
- `#define TRUE 1`
- `#define FULL_32BIT_VALUE 0x7FFFFFFF`
- `#define MAX_STRING_LENGTH 512`

Typedefs

- `typedef int BOOL`
- `typedef void * syncContext`
A context to the MultiSync C library.

Enumerations

- `enum syncError { SYNC_ERROR_OK = 0, SYNC_ERROR_FAILED, SYNC_ERROR_ALREADY_STARTED, SYNC_ERROR_ALREADY_STOPPED, SYNC_ERROR_CONTEXT_NOT_INITIALIZED, SYNC_ERROR_UNKNOWN_ERROR }`
- `enum syncMessage { SYNC_MESSAGE_OK = 0, SYNC_MESSAGE_FAILED, SYNC_MESSAGE_STARTED, SYNC_MESSAGE_STOPPED, SYNC_MESSAGE_SYNCING, SYNC_MESSAGE_NOMASTER, SYNC_MESSAGE_THREAD_ERROR, SYNC_MESSAGE_DEVICE_ERROR, SYNC_MESSAGE_NOT_ENOUGH_DEVICES, SYNC_MESSAGE_BUS_RESET, SYNC_MESSAGE_NOT_INITIALIZED, SYNC_MESSAGE_UNKNOWN_ERROR }`

4.7.1 Define Documentation

4.7.1.1 `#define FALSE 0`

4.7.1.2 `#define FULL_32BIT_VALUE 0x7FFFFFFF`

4.7.1.3 `#define MAX_STRING_LENGTH 512`

4.7.1.4 `#define TRUE 1`

4.7.2 Typedef Documentation

4.7.2.1 `typedef int BOOL`

4.7.2.2 `typedef void* syncContext`

A context to the MultiSync C library.

It must be created before performing any calls to the library.

4.7.3 Enumeration Type Documentation

4.7.3.1 enum syncError

Enumerator:

SYNC_ERROR_OK
SYNC_ERROR_FAILED
SYNC_ERROR_ALREADY_STARTED
SYNC_ERROR_ALREADY_STOPPED
SYNC_ERROR_CONTEXT_NOT_INITIALIZED
SYNC_ERROR_UNKNOWN_ERROR

4.7.3.2 enum syncMessage

Enumerator:

SYNC_MESSAGE_OK
SYNC_MESSAGE_FAILED
SYNC_MESSAGE_STARTED
SYNC_MESSAGE_STOPPED
SYNC_MESSAGE_SYNCING
SYNC_MESSAGE_NOMASTER
SYNC_MESSAGE_THREAD_ERROR
SYNC_MESSAGE_DEVICE_ERROR
SYNC_MESSAGE_NOT_ENOUGH_DEVICES
SYNC_MESSAGE_BUS_RESET
SYNC_MESSAGE_NOT_INITIALIZED
SYNC_MESSAGE_UNKNOWN_ERROR

4.8 MultiSyncLibraryPlatform_C.h File Reference

Defines

- #define [MULTISYNCLIBRARY_C_API](#)
- #define [MULTISYNCLIBRARY_C_CALL_CONVEN](#)

4.8.1 Define Documentation

4.8.1.1 #define MULTISYNCLIBRARY_C_API

4.8.1.2 #define MULTISYNCLIBRARY_C_CALL_CONVEN

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