

HANDBOOK

eGrabber

Gigelink Handbook

4400 eGrabber Gigelink 4400-EV eGrabber Gigelink 30-day evaluation license





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PART I GETTING STARTED



1. Introduction

About this guide

This manual guides you through the standard preparation, installation and configuration so that you can connect to and set up a GigE Vision camera using the **Gigelink** library. You will mainly use **eGrabber Studio** for the initial connection and configuration.

This manual might refer to other documentation sources available in the eGrabber online documentation.

About eGrabber Gigelink

eGrabber Gigelink is a licensed library delivered with the **eGrabber** package. It provides a hardware-independent access to GigE Vision cameras.

With **eGrabber Gigelink**, programmers can use the **eGrabber** concepts, objects, and function calls to acquire images from GigE Vision cameras, in the same way as with CoaXPress cameras and the Coaxlink cards.

eGrabber Gigelink consists in the following software components:

- eGrabber Gigelink GenTL producer (gigelink.cti)
- GenApi implementation for Gigelink
- Optional filter driver to improve performances (by reducing the CPU load)

eGrabber Gigelink is compatible with GenICam and the eGrabber Studio application.





2. Installation

2.1. Overview

The installation consists of the following steps:

Preliminary steps

• Select the Network Interface Card

Picture quality with GigE Vision highly depends on optional features of Ethernet adapters such as Jumbo Frame packets and high amount of on-board buffers. Contact the Euresys Sales teams should you need advice on the network interface cards providing the required features and resources.

• "Purchase a Gigelink License Key" on page 9

Installation steps

1. Install the eGrabber driver package

The package includes all eGrabber Gigelink software components.

Refer to "Driver Installation Procedure" on page 10

2. Activate the Gigelink license

This guide describes how to activate an **eGrabber Gigelink** license using the **Neo License Manager** application.

The **Neo License Manager** application is included in the **eGrabber** package and is available from the Windows Start menu.

Refer to "Activate from the User Interface" on page 11

NOTE

Besides using the **Neo License Manager** user interface, you can also activate the **eGrabber Gigelink** license using the **Neo License Manager** command line (online or offline). Refer to the documentation on **Neo Licensing System** for more information about these activation methods.



2.2. Purchase a Gigelink License Key

Overview

To be able to use **eGrabber Gigelink**, you need to buy a **eGrabber Gigelink** license from **Euresys** or one of its distributors.

When you buy a license, you receive a **Ticket ID** corresponding to the license.

You will then use this **Ticket ID** to activate your license.

You can activate your license in one of the following ways:

- on the computer, as a software license
- on a Neo USB Dongle that you can buy from Euresys.

See also: For more information, refer to the user guide D214-Neo Licensing System available in https://documentation.euresys.com/Products/COAXLINK/COAXLINK/en-us/Content/00_ Home/PDF_Guides.htm

Advantages and disadvantages of software license vs. dongle license

<u>Software license - advantages</u>

• You spare the use of an additional USB port on the computer, compared to the dongle license.

Software license - disadvantages

- If the computer fails, the eGrabber Gigelink license is lost with the computer.
- If you accidentally authenticate to a different computer, you are not allowed to reauthenticate.

Dongle license - advantages

• If you need to change the computer, you can easily transfer the **eGrabber Gigelink** license as this is stored on your USB dongle.

Dongle license - disadvantages

- The USB dongle must always be plugged into the computer.
- You have to buy the USB dongle in addition to the **eGrabber Gigelink** license key.

TIP

We recommend to use a **Neo USB Dongle** for a more secure and an easily portable license storage solution.



2.3. Driver Installation Procedure

WARNING

Prior to executing this procedure, read the Important Notices section of the **eGrabber** release notes.

- 1. Open the support page of the Euresys website: https://www.euresys.com/support/ and click on the *Coaxlink series* icon to open the Coaxlink download area.
- NOTE: The Euresys website download area may require user authentication. The user ID and password are not obtained, they are chosen by the user. Access is free and unrestricted.
- 2. Click on *eGrabber for Coaxlink and Grablink Duo* to display the file list corresponding to the latest available **eGrabber** release.
- **3.** In the *Setup Files* section, select the file corresponding to your operating system and your processor architecture:

egrabber-<OS>-<ARCH>(-<TYPE>)-<MA.MI.RE.BU>.<EXT> with

- OS> = {linux, macos, win7, win10} operating system
- ARCH> = {aarch64, x86_64} processor architecture
- <TYPE> = {kext, dext} driver type (for macOS only)
- <MA.MI.RE.BU> major version, minor version, revision and build numbers of the driver package
- <EXT> = {exe, tar.gz, pkg} file type

See also: Supported Operating Systems topic in the Release Specification section of the **eGrabber** release notes.

NOTE

- For an installation on Windows 7 or 8.1, use the egrabber-win7-x86_64-<MA.MI.RE.BU>.exe setup file.
- For an installation on Windows 10 or 11, use the egrabber-win10-x86_64-<MA.MI.RE.BU>.exe setup file.

4. Launch the installer tool to install the driver files and software tools on your PC.

NOTE: If you have an existing **eGrabber driver** (or a **Coaxlink driver**) already installed, the installer tool prompts you to uninstall it before being able to continue. Otherwise, it prompts you for the selection of the destination folder.

2.4. Activate from the User Interface

The Neo License Manager user interface

The Neo License Manager is organized in 5 zones:

- 1. A list of the license containers and the licenses they contain.
- 2. The interface language configuration.
- 3. The online **Neo License** activation.
- 4. The offline Neo License activation.
- 5. The troubleshooting.

🔣 Euresys Neo License Manager	- 🗆 X
Licenses ▼ ⑦ Dongle 3-1234564789 Ø Open eVision EasyUbject ♥ □ Software container 130-1234564789 Ø Open eVision EasyClassify Ø Open eVision EasySegment	
	Online license activation
	Troubleshoot 5 Emergency activation and report 5 Neo License Manager 2.13.0 - Copyright © EURESYS s.a. 2020

Activate an online license

1. Click on the Activate a license button to open the License activation dialog.



- 2. Enter the required information:
 - The container on which you want to activate the license.
 - □ The **Ticket ID** (5 groups of 5 alphanumeric characters separated by a dash).



If there is no software license container yet, the dialog proposes you to create a new one.



System reinstallation

If you have to reinstall the system and lost your licenses:

1. Activate the license with the old **Ticket ID** to try to recover all the licenses associated to the container where you first activated this **Ticket ID**.

This only works if:

- □ It is done in a new, empty container.
- The system is recognizable (the hardware is more or less the same).
- 2. If this does not work or if you lost your licenses and the system has changed significantly (for instance after the failure and replacement of a hardware component), you need to request a reactivation:
 - Contact the support to obtain a reactivation authorization for the corresponding Ticket ID.
 - Once the reactivation is authorized, perform the license activation procedure as usual.
 - D The Neo License Manager asks for the confirmation of the reactivation.





NOTE

The reactivation disables the previous activation on the other system.



Activate an offline license

The offline license activation allows you to activate licenses on a *machine A* that is not connected to the Internet through a *machine B* that is connected to the Internet.

The offline license activation is a 3 steps procedure:

- 1. On *machine A*:
 - a. Click on the Get fingerprint file button to open the Get a fingerprint file dialog.



- b. Enter the required information::
- D The license container on which you want to activate the license.
- □ The path to save the fingerprint file.
- 2. On machine B:
 - a. Click on the Online request of license file for offline activation button to request the corresponding license file.

🐹 Online request of lice	nse file	×
틫 Online	e request of activation file for offline activa	tion
Fingerprint file:		Select
	You must get the fingerprint file from the computer on which you want to activate a license offline.	
Activation file output:		Select
	The license file can be used to activate a license offline on the computer on which the fingerprint file was obtained.	
Ticket ID:	20000-00000-00000-00000	
	0	Cancel

- **b.** Enter the required information:
- D The Fingerprint file from *machine A*.
- □ The License file output path to save the license file.
- The **Ticket ID** (5 groups of 5 alphanumeric characters separated by a dash) for the license.

3. On *machine A*:

- a. Click on the Apply license file button.
- **b.** Select the license file generated in step 2.



Troubleshooting

1. Click on the Emergency activation and report button to open the Troubleshooting dialog.



- 2. Click on the Apply emergency license button to temporarily activate licenses:
 - D These licenses activate all **Euresys** products.
 - They are valid for 8 days.
 - You can repeat this a maximum of 3 times.
 - □ For security reasons, you cannot activate emergency licenses on virtual machines.
- 3. Click on the Save report to file button to generate a licensing system report and save it to a file.
 - □ The support team may require this report when you have a licensing issue.



3. Configuration

3.1. Configure the Network Interface Card

Overview

This section describes how to configure the network interface card (NIC) in MS Windows once the network card is installed.

The configuration includes the following steps:

- 1. "Access the network interface card settings" on page 15
- 2. "Check the filter driver" on page 16
- 3. "Set the IP address of the network interface card" on page 17
- 4. "Enable the Jumbo Packet settings" on page 20
- 5. "Set the Receive Buffer settings" on page 21
- 6. "Set Interrupt Moderation Settings" on page 22

Access the network interface card settings

To access the Network Interface Card settings:

- 1. Open the Ethernet settings from the Windows Start menu
- 2. Select Change adapter options to access the list of network connections in Control Panel\Network and Internet\Network Connections.
- 3. Right-click the network interface card you want to configure and select Properties from the contextual menu.

The Properties dialog box of your Network Interface Card opens.



Check the filter driver

When the **eGrabber** driver is installed, the filter driver is enabled by default. In an operational environment, we recommend to keep the filter driver enabled. Check that the filter driver is enabled in your NIC properties, as shown on the screenshot below.

The filter driver operates directly with the NIC driver to intercept and handle the stream packets. It then sends these priority stream data directly to the application buffer, bypassing the system network IP stack.

Ethernet 8 Properties	×
Networking Sharing	
Connect using:	
Intel(R) I350 Gigabit Network Connection #3	
Configure	
This connection uses the following items:	
🗹 🏪 Client for Microsoft Networks 🛛 🗖	,
File and Printer Sharing for Microsoft Networks	
Euresys Gigelink Filter Driver	
✓ Pocap Packet Driver (NPCAP)	
✓ 🐙 QoS Packet Scheduler	
Internet Protocol Version 4 (TCP/IPv4) Mission 4 Materia Materia	
Install Uninstall Properties	
Description	
Gigelink Filter Driver NDIS6 V16.0.118	
UK Cancel	

For test purposes, you can disable the filter driver in the NIC properties.



Set the IP address of the network interface card

In the Properties dialog box, select Internet Protocol Version 4 (TCP/IPv4) and click Properties.

With DHCP Server

• Select Obtain an IP address automatically and click OK to validate.

Internet Protocol Version	h 4 (TCP/IPv4) Propertie	s		×
General Alternate Confi	guration				
You can get IP settings this capability. Otherwis for the appropriate IP se	assigned auto e, you need to ettings.	matically if o ask your i	your networ	etwork su k adminis	pports trator
Obtain an IP addre	ss automatica	lly			
Use the following I	P address: —				
IP address:]
Subnet mask:]
Default gateway;					
Obtain DNS server	address auto	matically			
Use the following D	NS server add	dresses:			
Preferred DNS server	1]
Alternate DNS server	1]
Validate settings u	ipon exit			Advan	nced
			ОК		Cancel

Without DHCP server

- 1. Select Use the following IP address and define the IP address settings, for example as follows:
 - □ IP address : 192.168.XXX.2, with XXX in the range [0-255].
 - Subnet mask : 255.255.255.0.
 - Default gateway remains empty.



WARNING

If you use a multi-port NIC to connect to multiple cameras point-to-point, each point-to-point wire is considered as a separate LAN, you should define fixed NIC addresses and subnets for each port so that they do not collide, for example 192.168.100.2, 192.168.101.2, 192.168.102.2, etc.



Internet Protocol Version 4 (TCP/IPv4)	Properties	×
General		
You can get IP settings assigned autom this capability. Otherwise, you need to for the appropriate IP settings.	atically if your network supports ask your network administrator	
ODbtain an IP address automatical	у	
• Use the following IP address:		
IP address:	192 . 168 . 100 . 2	
S <u>u</u> bnet mask:	255.255.255.0	
Default gateway:		
Obtain DNS server address autom	atically	
• Use the following DNS server addr	'esses:	
Preferred DNS server:		
Alternate DNS server:		
Ualidate settings upon exit	Ad <u>v</u> anced	
	OK Cancel	



2. Click Advanced and set the metric to 100¹ in the IP Settings tab, if it is relevant to help keep unrelated traffic out of the GEV network:

Advanced TCP/IP Sett	ings			×
IP Settings DNS	WINS			
IP addresses				
IP address 192.168.100.2		Subnet mask 255.255.255.0		
	Add	Edit	Remove	
Default gateways:				
Gateway		Metric		
	Add	Edit	Remove	
Automatic metric				
Interface metric:	100			
		OK	Cance	I

3. Click OK twice to validate and come back to the Properties dialog box.

¹ This value is provided for reference.



Enable the Jumbo Packet settings

Enable the Jumbo Packet settings allows you to transfer and receive larger streaming packets and reduce processing overhead.

- 1. In the Properties dialog box, click Configure.
- 2. In the dialog box, select the Advanced tab, select the Jumbo Packet in the Property list.
- 3. In the Value field, select the value 9014 Bytes as the maximum transmission unit (MTU) for the jumbo packets:

Intel(R) I350 Gigabit Network Connection #3 Properties							
General	Advanced	Driver	Details	Events	Power Managem	ent	
The folk the prop on the r Property ARP O Flow C Gigabit Interrup IPv4 C Jumbo Large S Locally Log Lin Maximu NS Off Packet	owing propert perty you wan ight. /: ffload ontrol Moderation ot Moderation becksum Offl Packet Send Offload Send Offload Send Offload Send Offload send Offload t Administered in State Ever um Number of load	e Mode Rate oad V2 (IPv4 V2 (IPv6 Address t f RSS Qu AN	vailable fo ge on the)) ieues	v this ne left, and	twork adapter. Click d then select its valu alue: 9014 Bytes	(je	
					ОК	Cancel	

4. Set the next advanced parameter described below.

NOTE

Make sure that you enable the jumbo packets on the camera side (see "Set packet size to maximum" on page 28), and that other possible devices in the network between the camera and the host computer have jumbo frames enabled with the same MTU.



Set the Receive Buffer settings

The Receive Buffers setting allows you to define how much system memory is dedicated to store received packets. Increasing the buffers helps improve the reliability of the network traffic, but consumes system memory.

- 1. In the same Advanced tab where you have set the jumbo packets, select the Receive Buffers in the Property list.
- 2. In the Value field, select the value 4096¹ for receive buffers:

General Advanced Driver Details Events Power Management The following properties are available for this network adapter. Click the property you want to change on the left, and then select its value on the right. Value: Property: Value: Interrupt Moderation Interrupt Moderation Rate Value: IPv4 Checksum Offload V2 (IPv4) 4096 Jumbo Packet Large Send Offload V2 (IPv6) Value: Log Link State Event Maximum Number of RSS Queues NS Offload NS Offload Value: Value:	ntel(R) I3	350 Gigabit N	letwork	Conne	tion #	#3 P	Properties	×
The following properties are available for this network adapter. Click the property you want to change on the left, and then select its value on the right. Property: Value: Interrupt Moderation Rate IPv4 Checksum Offload Jumbo Packet Large Send Offload V2 (IPv4) Large Send Offload V2 (IPv6) Locally Administered Address Log Link State Event Maximum Number of RSS Queues NS Offload Packet Priority & VLAN Receive Buffers Receive Side Scaling Speed & Duplex	General	Advanced	Driver	Details	Eve	nts	Power Management	
Interrupt Moderation Interrupt Moderation Rate IPv4 Checksum Offload Jumbo Packet Large Send Offload V2 (IPv4) Large Send Offload V2 (IPv6) Locally Administered Address Log Link State Event Maximum Number of RSS Queues NS Offload Packet Priority & VLAN Receive Buffers Receive Side Scaling Speed & Duplex ✓	The foll the prop on the r Property	owing propert perty you wan ight. y:	ies are a t to chan	vailable ige on th	for this e left,	net and Va	work adapter. Click then select its value alue:	
	Interruj Interruj IPv4 C Jumbo Large S Locally Log Lir Maximu NS Off Packe Receiv Speed	pt Moderation pt Moderation hecksum Offl Packet Send Offload Administered hk State Ever um Number of load t Priority & VL. <u>/e Buffers</u> /e Side Scalin & Dunlex	Rate oad V2 (IPv4 V2 (IPv6 I Address nt FRSS Qu AN)) ieues		4	nael	

3. Set the next advanced parameter described below.

¹ This value is provided for reference.



Set Interrupt Moderation Settings

The Interrupt Moderation settings allow you to define how often the adapter interrupts the system to handle the incoming (and outgoing) packets.

With GigE Vision cameras, it is more appropriate to set the highest level for interrupt moderation rate. This means that the NIC does not interrupt the processes, which reduces the CPU utilization. Instead the NIC driver actively decides when to check and handle the received packets.

- 1. In the same Advanced tab where you have set the receive buffers, select Interrupt Moderation in the Property list and check that the setting is enabled.
- 2. Select Interrupt Moderation Rate in the Property list.
- 3. In the Value field, select Extreme.

	Adversed	D :	D			
aeneral	Advanced	Driver	Details	Events	Power Managem	ent
The foll the prop on the r Property ARP O	owing propert perty you wan ight. /: ffload	ies are av t to chang	vailable fo ge on the	orthis ne e left, an V	etwork adapter. Click d then select its valu /alue: Extreme	ie V
Flow C Gigabit Interrup Interrup IPv4 C Jumbo Large S Locally Log Lir Maximu NS Off Packet	ontrol Master Slave of Moderation becksum Offl Packet Send Offload Administered ak State Ever um Number of load Priority & VL	e Mode Nate oad V2 (IPv4) V2 (IPv6) I Address t f RSS Qui AN	eues			
				ſ	ОК	Cancel

4. Click OK to validate all settings you have defined and come back to the panel displaying the network connections.



3.2. Configure the Firewall

Most **GigE Vision** cameras support Firewall Traversal technique that allows seamless interoperation through typical host firewalls such as **Windows Defender** firewall.

Older models, however, may lack this feature and require that the applications using **eGrabber Gigelink** (as well as **eGrabber Studio**) are explicitly added as "allowed apps" in the firewall.

In a standard installation, the applications to authorize are in c:\program files\euresys\egrabber\bin and c:\program files\euresys\egrabber\studio.

3.3. Configure the Camera Network Settings

Overview

Follow the steps detailed below to configure the camera network settings. You can perform all steps in **eGrabber Studio**.

- 1. "Select the GigE Vision camera in eGrabber Studio" on page 24
- 2. "Configure the camera IP settings" on page 25 (if not defined yet)
- 3. "Set packet size to maximum" on page 28
- 4. "Set Packet Delay" on page 28 (if necessary)



Select the GigE Vision camera in eGrabber Studio

- 1. Open **Studio** from the Windows Start menu.
- 2. In the Sources area, select Gigelink:

🚱 Euresys eGrabber Studio	_	×
✓ Welcome × +		
eGrabber Studio Powerful Image Acquisition		
Sources		
Coaxlink		
Gigelink		
Recorder containers		
eGrabbers	\mathcal{C}	
▼ Interface-{AAFF9D60-6C74-428D-82E8-758F190ACC0A}		
▼ Device-00-30-53-30-40-d7 acA1920-25gc 00:30:53:30:40:d7		
stream0		
	Open	

- 3. In the eGrabbers area, do one of the following actions. See "Information on Gigelink sources " on page 25 about displayed information.
 - If the desired interface, device and stream are displayed, double-click the Gigelink stream:

The stream opens directly in a new tab. Go directly to the section "Set packet size to maximum" on page 28.

□ If only the desired interface is displayed, the camera is not connected. Thus double-click the **Gigelink** interface. The interface opens in a new tab. Go to the next section.



Information on Gigelink sources

In the Welcome window, the following information related to the interface (and device) are displayed for each **Gigelink** source:

eGrabbers		7595100400043		
 ▼ Interface-{AAPP9000-0C14-428D-82E8-758F190ACC0A} ▼ Device-00-30-53-30-40-d7 acA1920-25gc 00:30:53:30:40:d7 Stream0 				
Source type	Levels	Displayed information (from left to right)		
	1 - Interface	 Name of the Gigelink interface (based on the UID of the network interface connected to the Gigelink device) 		
Gigelink	2 - Device	 Name of the Gigelink device Model of the remote device MAC address of the remote device 		
	3 - Stream	• Name of the Gigelink stream		

Configure the camera IP settings

You can configure the camera IP settings using a dedicated script or eGrabber Studio.

Configure the camera IP settings using a script

NOTE

You can use this script for any change in the IP configuration of the camera.

1. Locate and open the script **GigE Vision camera IP configuration** in one of the following ways:

- Use the search field in the Windows Start menu.
- Use a command line interface if you know the script location. The default location is : C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Euresys eGrabber

The script opens and lists the network interfaces and the GigE Vision cameras attached to them:





2. If any listed camera is misconfigured (that means that it isn't using the same LAN as the network interface card it is attached to), type Υ on the line below its IP settings:

Basler acA1920-25gc	
MAC address:	00-30-53-30-40-d7
Current IP address:	10.0.44.16
Current subnet mask:	255.255.255.0
Current default gateway:	10.0.44.1
Change the IP configurat	ion? [Yn] Y
New IP address? [default	: 10.0.44.16]

3. Type a valid IP address in the same LAN and press ENTER, then fill in the next fields in the same way.

Once the camera IP settings are configured, open **eGrabber Studio** and connect to the GigE Vision camera to finalize the configuration of the network settings.

If **eGrabber Studio** was already running, make sure to refresh the list of discovered grabbers and to reconnect to the requested GigE Vision camera.

Configure the camera IP settings in eGrabber Studio

- 1. In the displayed Features pane, click the Interface tab to open it.
- In the Interface module, in Root > DeviceEnumeration, execute the DeviceUpdateList command.
- **3.** To browse through the cameras, type a number (0, 1, 2, and so on) in the DeviceSelector field and press ENTER.

The parameter values of the selected camera are displayed below, starting with the DeviceID:



🚱 Eure	esys eGrabber Studio		— (×
	+ 1				
	🗌 System 🗹 Interface 🔲 Device 🔲 Remote Device		Beginne	er 🔻	\mathcal{C}
1++1	Interface module XML		Search fe		
+111	▼ Root				
¶=]	InterfaceInformation				
В	▼ DeviceEnumeration				
	DeviceUpdateList G Execut	te 🔶	2		wo
	DeviceSelector 0 🖛 🕑				×RW
	DeviceID Device-00-30-53-30-40-d7				RO
	DavicaVandarNama				PO

4. Enter the desired values for the features DeviceForceIPAddress and DeviceForceSubnetMask, as well as for DeviceForceDefaultGateway, if your setup requires it.

The subnet mask must be the same value as the NIC.

NOTE
Make sure the DeviceForceIPAddress is distinct from the NIC IP address
configured in the section "Set the IP address of the network interface card"
on page 17, but belongs to the same LAN (according to subnet mask). For
example, if the NIC IP address is 192.168.100.2, the camera IP address can be
192.168.100.3.

5. When your have entered the desired values, click Execute on the right of DeviceForceIP.



6. Click the cross in the window tab to close the connection:



7. Connect to the stream of the configured GigE Vision camera as explained in section "Select the GigE Vision camera in eGrabber Studio" on page 24.



Set packet size to maximum

Gigelink can automatically configure camera packet size to use the maximum allowed in your setup. However, it only does so on-demand as the process implies trials-and-errors and takes 5-10 seconds.

NOTE

Make sure that you have enabled Jumbo Frames on your computer as described in the section "Enable the Jumbo Packet settings" on page 20.

When you are connected to your GigE Vision camera stream in **eGrabber Studio**, proceed as follows to set the packet size to maximum:

- 1. Click the Features icon on the left to open the Features pane.
- 2. Select the Data Stream module.
- 3. In the GigEVision section, click Execute on the SetPacketSizeToMaximum command.

😚 Eure	sys eGrabber Stu	udio					_		×
	na ny x	+			2				
	System	Interface	Device	Remote Devi	ce 🔽 Data Stream		E	xpert	• S
	Data Stream	module				•≡l	Search fe		XML
	▼ Root								^
Πł	► StreamInformation								
	► Image	FormatControl							
	TransportLayerControl								
	BufferHandlingControl								
	▼ GigEVi	sion							
RECI	Ge	vPacketResend			🗌 False				RO
11+1	Set	(PacketSizeToM	aximum			Execute	(3)		RO
+T1†	Filt	terDriverEnable			🗹 True				RW
	▼ Strean	nStatistics							
ĿĿ	Sta	tisticsSampling	Selector		LastSecond				▼ RW
	Sta	tisticsFrameRat	te		8.90				RO

The value found should be reflected in GevSCPSPacketSize property of the remote device (Remote Device module > TransportLayer section).



Packets used to determine the maximum size are particularly susceptible of being dropped by the firewall. When that occurs, SetPacketSizeToMaximum fails with OPAQUE_NETWORK error (code -10024 in Studio).

Set Packet Delay

This step is not necessary if **eGrabber Studio** correctly displays the images coming from the GigE Vision camera. However it helps fix issues where horizontal strips are visible through the image or the bottom of the image is missing.

Packet Delay allows you to adjust spacing between packets, as shown at the bottom of the figure below. The default value is 0, but this may cause queue overflow and other problems due to PC performances. When this occurs, set the Packet Delay value to 100 or higher.

euresys



Ethernet frames and packet delay

To set packet delay, proceed as follows:

- 1. In Studio, click the Features icon on the left to open the Features pane.
- 2. Select the Remote Device module.
- 3. Search for the GevSCPD feature with at least the Expert user profile selected above the search field.
- 4. In the GevSCPD field, type 100 and press ENTER to validate.





NOTE

As the Packet Delay value depends on the camera's time stamp counter, check the recommended values with the camera manufacturer.

3.4. Configure the Camera GenApi Features

Open a GigE Vision stream in eGrabber Studio

- 1. From the Windows Start menu, search for and open Studio.
- 2. In the Sources area, select Gigelink.
- 3. In the eGrabbers area, identify the desired Gigelink device and double-click its stream. The stream opens directly in the main window displayed as a tab.

Configure the GenApi features manually

The steps to configure a GenApi feature manually are highlighted on the screenshot below.

- 1. Once you have opened your GigE Vision stream in a window, click the Features button to open the Features pane.
- 2. In the Features pane, select the GenApi module you want to configure features in.
- **3.** If requested, use the controls on the right to expand/collapse, filter and/or search for GenApi features.
- 4. When you have identified the feature you want to modify (it must be RW or WO to be editable), select or type the requested value and press ENTER on the keyboard.



😚 Eure	sys eGrabber Studio			- 0	×	
🗹 acA1	920-25gc × +					
	2	-				
	System Interface Device Remote Device	🛛 🔽 Data Stream	3	Expert	• 3	
	Data Stream module		Search		XML	
	BufferAllocationAlignmentControl	Disable			▼ RW [▲]	
	BufferAllocationAlignment				×NA	
REC	BufferHeight				[∑] NA	
	DeliverIncompleteImages	✓ True			RW	
1411	▼ GigEVision					
+111	GevPacketResend	False			RO	
(III)	SetPacketSizeToMaximum Execute				RW	
Ð	FilterDriverEnable	FilterDriverEnable 🗹 True				
	▼ StreamStatistics					
	StatisticsSamplingSelector	LastSecond			▼ RW	
	StatisticsFrameRate	0,00			[×] _× RO	
	StatisticsLineRate	0,00			× RO	
	StatisticsDataRate	0,00			× RO	
	StatisticsStartSampling		Execute		RW	
	StatisticsStopSampling		Execute		RW 🗸	
	Selects the stream statistics sampling method.					

Setting GenApi features

Configure the GenApi features with a script in eGrabber Studio

You can also define the requested values for several GenApi features in a script that you can apply in **eGrabber Studio**.

1. Prepare your script.

You can refer to the following sources:

- sample configuration script for a GigE Vision camera connected with Gigelink
- □ detailed information on the syntax used in Euresys Script language.
- 2. Save your script on the computer where **eGrabber Studio** is installed.
- 3. In eGrabber Studio, once you have opened your GigE Vision stream in a window, click the Scripts button.

See screenshot below.

- 4. Select your script using the Folder icon.
- 5. Click Run to execute the script.

The result of the script execution appears in the Script pane.





Sample configuration script for a GigE Vision camera

This section goes through a sample configuration for a GigE Vision camera, and provides more information on its instructions.

In the following sample script:

- 1. First, you configure the camera to work in the required mode to be able to use action commands.
- 2. Then, you configure the action command settings.
- 3. Finally, you configure the action 1 as a trigger for acquiring a frame.





```
grabbers[0].DevicePort.set("ActionGroupMask", 0xffffffff);
```

// following parameters configure Action1 as frame trigger grabbers[0].RemotePort.set("TriggerSelector", "FrameStart"); grabbers[0].RemotePort.set("TriggerMode", "On"); grabbers[0].RemotePort.set("TriggerSource", 'Action1');

Load configuration helper

The following line loads the configurator function into the variable configure.

var configure = require ('coaxlink://configurator.js');

Define generic configuration parameters

With the following instructions, you create the parameters variable and store parameter names and values in the variable.



Apply generic configuration parameters

With the following instruction, you apply the configuration script (loaded in the configure variable) to the grabbers[0] to set the parameters stored in the parameters variable.

For more information on built-in objects grabbers, refer to the Euresys GenApi script section in the Programmer's Guide, sample script doc/grabbers.js.

configure(grabbers[0], parameters);

Configure the action command feature

- 1. In the first instruction below, you deactivate the automatic acquisition start and stop, as it can interfere while you are configuring the action command feature.
- 2. In the instructions that follow, you configure features used by the action command feature, i.e. DeviceKey, GroupKey and GroupMask, both on the device side and remote device side.

grabbers[0].StreamPort.set("ControlRemoteDevice", "False"); grabbers[0].RemotePort.set("ActionDeviceKey", 0xcafebabe); grabbers[0].DevicePort.set("ActionDeviceKey", 0xcafebabe); grabbers[0].RemotePort.set("ActionSelector", 1);// must match 'Action1' below grabbers[0].RemotePort.set("ActionGroupKey", 0x42); grabbers[0].RemotePort.set("ActionGroupMask", 0xfffffff); grabbers[0].DevicePort.set("ActionGroupKey", 0x42); grabbers[0].DevicePort.set("ActionGroupKey", 0x42);

Define which trigger is activated when the action command is received

With the following instructions, you configure the FrameStart to be triggered via action command 1.

// following parameters configure Action1 as frame trigger grabbers[0].RemotePort.set("TriggerSelector", "FrameStart"); grabbers[0].RemotePort.set("TriggerMode", "On"); grabbers[0].RemotePort.set("TriggerSource", 'Action1');



PART II GENAPI FEATURES



1. Gigelink System Module Register Description

Categorized features list of Systemmodule version 24_04_0

1.1. Root Category	36
1.2. SystemInformation Category	. 39
1.3. InterfaceEnumeration Category	. 49



1.1. Root Category

SystemInformation	
InterfaceEnumeration	


SystemInformation

Feature Info

Module	Category Path	Туре	Access
System	Root	Category	RW

Category Members

See also: "SystemInformation Category" on page 39



InterfaceEnumeration

Feature Info

Module	Category Path	Туре	Access
System	Root	Category	RW

Category Members

See also: "InterfaceEnumeration Category" on page 49



1.2. SystemInformation Category

TLVendorName	40
TLModelName	.41
TLID	. 42
TLVersion	. 43
TLPath	44
ТLТуре	.45
GenTLVersionMajor	. 46
GenTLVersionMinor	. 47
LicenseStatus	.48



TLVendorName

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	String	Imposed: RO

Short Description

Name of the GenTL Producer vendor.



TLModelName

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	String	Imposed: RO

Short Description

Name of the GenTL Producer.



TLID

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	String	Imposed: RO

Short Description

Unique identifier of the GenTL.



TLVersion

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	String	Imposed: RO

Short Description

Vendor specific version string.



TLPath

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	String	Imposed: RO

Short Description

Full path to the GenTL Producer driver including name and extension.



TLType

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	Enumeration	Imposed: RO

Short Description

Identifies the transport layer technology of the GenTL Producer implementation.

Enumeration Values

• GEV: This enumeration value indicates GigE Vision transport layer technology.



GenTLVersionMajor

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	IntReg	RO

Register Port: TLPort

Short Description

Major version number of the GenTL specification the GenTL Producer implementation complies with.



GenTLVersionMinor

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	IntReg	RO

Register Port: TLPort

Short Description

Minor version number of the GenTL specification the GenTL Producer implementation complies with.



LicenseStatus

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow SystemInformation	Enumeration	Imposed: RO

Short Description

License Status.

Enumeration Values

- OK: License is OK.
- NotOK: License is not OK.
- Unknown: License status is unknown.



1.3. InterfaceEnumeration Category

InterfaceUpdateList	50
InterfaceSelector	51
InterfaceID	52



InterfaceUpdateList

Feature Info

Module	Category Path	Туре	Access
System	$Root \rightarrow InterfaceEnumeration$	Command	Imposed: WO

Short Description

Updates the internal interface list.



InterfaceSelector

Feature Info

Module	Category Path	Туре	Access
System	Root \rightarrow InterfaceEnumeration	Integer	RW

Value Info

Minimum value: 0

Short Description

Selector for the different GenTL Producer interfaces.

Selected Features

• "InterfaceID" on page 52



InterfaceID

Feature Info

Module	Category Path	Туре	Access
System	$Root \rightarrow InterfaceEnumeration$	String	Imposed: RO

Short Description

GenTL Producer wide unique identifier of the selected interface.



2. Gigelink Interface Module Register Description

Categorized features list of Interfacemodule version 24_04_0

2.1. Root Category	54
2.2. InterfaceInformation Category	57
2.3. DeviceEnumeration Category	63



2.1. Root Category

InterfaceInformation	55
DeviceEnumeration	56



InterfaceInformation

Feature Info

Module	Category Path	Туре	Access
Interface	Root	Category	RW

Category Members

See also: "InterfaceInformation Category" on page 57



DeviceEnumeration

Feature Info

Module	Category Path	Туре	Access
Interface	Root	Category	RW

Category Members

See also: "DeviceEnumeration Category" on page 63



2.2. InterfaceInformation Category

nterfaceID	. 58
nterfaceType	. 59
PAddress	. 60
SubnetMask	. 61
llowBroadcastAck	62



InterfaceID

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to InterfaceInformation$	String	Imposed: RO

Short Description

GenTL Producer wide unique identifier of the selected interface.



InterfaceType

Feature Info

Module	Category Path	Туре	Access
Interface	Root \rightarrow InterfaceInformation	Enumeration	Imposed: RO

Short Description

Identifies the transport layer technology of the interface.

Enumeration Values

• GEV: This enumeration value indicates GigE Vision transport layer technology.



IPAddress

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \rightarrow InterfaceInformation$	String	Imposed: RO

Short Description

IP address of the network interface.



SubnetMask

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \rightarrow InterfaceInformation$	String	Imposed: RO

Short Description

Subnet mask of the network interface.



AllowBroadcastAck

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \rightarrow InterfaceInformation$	Boolean	RW

Short Description

Allow devices with mismatching network settings to be discovered through broadcast replies to DISCOVERY messages.



2.3. DeviceEnumeration Category

DeviceUpdateList	
DeviceSelector	
DeviceID	
DeviceVendorName	
DeviceModelName	
DeviceAccessStatus	
DeviceCurrentIPAddress	
DeviceCurrentSubnetMask	
DeviceCurrentDefaultGateway	
DeviceUserDefinedName	
DeviceSerialNumber	
DeviceVersion	
DeviceForceIP	
DeviceForceIPAddress	
DeviceForceSubnetMask	
DeviceForceDefaultGateway	



DeviceUpdateList

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	Command	Imposed: WO

Short Description

Updates the internal device list.



DeviceSelector

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	Integer	RW

Value Info

Minimum value: 0

Short Description

Selector for the different devices on this interface.

Selected Features

- "DeviceID" on page 66
- "DeviceVendorName" on page 67
- "DeviceModelName" on page 68
- "DeviceAccessStatus" on page 69
- "DeviceCurrentIPAddress" on page 70
- "DeviceCurrentSubnetMask" on page 71
- "DeviceCurrentDefaultGateway" on page 72
- "DeviceUserDefinedName" on page 73
- "DeviceSerialNumber" on page 74
- "DeviceVersion" on page 75
- "DeviceForceIP" on page 76



DeviceID

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	String	Imposed: RO

Short Description

Interface wide unique identifier of the selected device.



DeviceVendorName

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	String	Imposed: RO

Short Description

Name of the device vendor.



DeviceModelName

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	String	Imposed: RO

Short Description

Name of the device model.



DeviceAccessStatus

Feature Info

Module	Category Path	Туре	Access
Interface	Root \rightarrow DeviceEnumeration	Enumeration	Imposed: RO

Short Description

Gives the device's access status at the moment of the last execution of DeviceUpdateList.

Enumeration Values

- Unknown: Unknown access.
- ReadWrite: Available to be opened with full access.
- ReadOnly: Available to be opened with read-only access.
- NoAccess: Not reachable.
- Busy: Already opened by another entity.
- **OpenReadWrite**: Opened with read-write access.
- **OpenReadOnly**: Opened with read-only access.



DeviceCurrentIPAddress

Feature Info

Module	Category Path	Туре	Access
Interface	Root \rightarrow DeviceEnumeration	String	Imposed: RO

Short Description

Current IP address of the selected device.



DeviceCurrentSubnetMask

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	String	Imposed: RO

Short Description

Current subnet mask of the selected device.



DeviceCurrentDefaultGateway

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	String	Imposed: RO

Short Description

Current default gateway of the selected device.


DeviceUserDefinedName

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	String	Imposed: RO

Short Description

User-defined name of the selected device.



DeviceSerialNumber

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	String	Imposed: RO

Short Description

Serial Number of the selected device.



DeviceVersion

Feature Info

Module	Category Path	Туре	Access
Interface	$Root \to DeviceEnumeration$	String	Imposed: RO

Short Description

Version of the selected device.



DeviceForceIP

Feature Info

Module	Category Path	Туре	Access
Interface	Root \rightarrow DeviceEnumeration	Command	Imposed: WO

Short Description

Force use of DeviceForceIPAddress, DeviceForceSubnetMask, and DeviceForceDefaultGateway for the selected device.



DeviceForceIPAddress

Feature Info

Module	Category Path	Туре	Access
Interface	Root \rightarrow DeviceEnumeration	String	RW

Short Description

IP address used in DeviceForceIP command.



DeviceForceSubnetMask

Feature Info

Module	Category Path	Туре	Access
Interface	Root \rightarrow DeviceEnumeration	String	RW

Short Description

Subnet mask used in DeviceForceIP command.



DeviceForceDefaultGateway

Feature Info

Module	Category Path	Туре	Access
Interface	Root \rightarrow DeviceEnumeration	String	RW

Short Description

Default gateway used in DeviceForceIP command.



3. Gigelink Device Module Register Description

Categorized features list of Devicemodule version 24_04_0

3.1. Root Category	
3.2. DeviceInformation Category	
3.3. StreamEnumeration Category	
3.4. GigEVision Category	



3.1. Root Category

DeviceInformation	82
StreamEnumeration	83
GigEVision	



DeviceInformation

Feature Info

Module	Category Path	Туре	Access
Device	Root	Category	RW

Category Members

See also: "DeviceInformation Category" on page 85



StreamEnumeration

Feature Info

Module	Category Path	Туре	Access
Device	Root	Category	RW

Category Members

See also: "StreamEnumeration Category" on page 92



GigEVision

Feature Info

Module	Category Path	Туре	Access
Device	Root	Category	RW

Category Members

See also: "GigEVision Category" on page 95



3.2. DeviceInformation Category

DeviceID	
DeviceVendorName	
DeviceModelName	
DeviceAccessStatus	
DeviceType	
DeviceDescription	



DeviceID

Feature Info

Module	Category Path	Туре	Access
Device	Root \rightarrow DeviceInformation	String	Imposed: RO

Short Description

Interface wide unique identifier of this device.



DeviceVendorName

Feature Info

Module	Category Path	Туре	Access
Device	Root \rightarrow DeviceInformation	String	Imposed: RO

Short Description

Name of the device vendor.



DeviceModelName

Feature Info

Module	Category Path	Туре	Access
Device	Root \rightarrow DeviceInformation	String	Imposed: RO

Short Description

Name of the device model.



DeviceAccessStatus

Feature Info

Module	Category Path	Туре	Access
Device	Root \rightarrow DeviceInformation	Enumeration	Imposed: RO

Short Description

Gives the device's access status at the moment of the last execution of DeviceUpdateList.

Enumeration Values

- Unknown: Unknown access.
- ReadWrite: Available to be opened with full access.
- ReadOnly: Available to be opened with read-only access.
- NoAccess: Not reachable.
- Busy: Already opened by another entity.
- **OpenReadWrite**: Opened with read-write access.
- **OpenReadOnly**: Opened with read-only access.



DeviceType

Feature Info

Module	Category Path	Туре	Access
Device	Root \rightarrow DeviceInformation	Enumeration	Imposed: RO

Short Description

Identifies the transport layer technology of the interface.

Enumeration Values

• GEV: This enumeration value indicates GigE Vision transport layer technology.



DeviceDescription

Feature Info

Module	Category Path	Туре	Access
Device	Root \rightarrow DeviceInformation	String	Imposed: RO

Short Description

Description of the device.



3.3. StreamEnumeration Category

StreamSelector	
StreamID	



StreamSelector

Feature Info

Module	Category Path	Туре	Access
Device	Root \rightarrow StreamEnumeration	Integer	RW

Value Info

Minimum value: 0

Short Description

Selector for the different stream channels.

Selected Features

• "StreamID" on page 94



StreamID

Feature Info

Module	Category Path	Туре	Access
Device	$Root \to StreamEnumeration$	String	Imposed: RO

Short Description

Device unique ID for the stream.



3.4. GigEVision Category

DeviceLinkHeartbeatTimeout	96
ActionDeviceKey	
ActionGroupKey	
ActionGroupMask	
ExecuteAction	



DeviceLinkHeartbeatTimeout

Feature Info

Module	Category Path	Туре	Access
Device	$Root \to GigEVision$	FloatReg	RW

Register Port: DevicePort

Value Info

Unit: microseconds

Short Description

Writing a new heartbeat timeout will affect both device GevHeartbeatTimeout and keep-alive delays on the host



ActionDeviceKey

Feature Info

Module	Category Path	Туре	Access
Device	$Root \to GigEVision$	IntReg	WO

Register Port: DevicePort

Short Description

Action Device Key.



ActionGroupKey

Feature Info

Module	Category Path	Туре	Access
Device	$Root \to GigEVision$	IntReg	RW

Register Port: DevicePort

Short Description

Action Group Key.



ActionGroupMask

Feature Info

Module	Category Path	Туре	Access
Device	$Root \to GigEVision$	IntReg	RW

Register Port: DevicePort

Short Description

Action Group Mask.



ExecuteAction

Feature Info

Module	Category Path	Туре	Access
Device	Root \rightarrow GigEVision	Command	Imposed: WO

Short Description

Execute Action.



4. Gigelink Data Stream Module Register Description

Categorized features list of Data Streammodule version 24_04_0

4.1. Root Category	
4.2. StreamInformation Category	
4.3. ImageFormatControl Category	
4.4. TransportLayerControl Category	
4.5. BufferHandlingControl Category	
4.6. GigEVision Category	
4.7. StreamControl Category	
4.8. EventControl Category	
4.9. StreamStatistics Category	



4.1. Root Category

StreamInformation	
ImageFormatControl	
TransportLayerControl	
BufferHandlingControl	106
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StreamInformation

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root	Category	RW

Category Members

See also: "StreamInformation Category" on page 111



ImageFormatControl

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root	Category	RW

Category Members

See also: "ImageFormatControl Category" on page 116



TransportLayerControl

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root	Category	RW

Category Members

See also: "TransportLayerControl Category" on page 145



BufferHandlingControl

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root	Category	RW

Category Members

See also: "BufferHandlingControl Category" on page 148



StreamControl

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root	Category	RW

Category Members

See also: "StreamControl Category" on page 174



GigEVision

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root	Category	RW

Category Members

See also: "GigEVision Category" on page 170


EventControl

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root	Category	RW

Category Members

See also: "EventControl Category" on page 178



StreamStatistics

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root	Category	RW

Category Members

See also: "StreamStatistics Category" on page 186



4.2. StreamInformation Category

StreamID	
StreamType	
StreamDescription	
StreamConfigurationStatus	



StreamID

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \to StreamInformation$	String	Imposed: RO

Short Description

Device unique ID for the data stream.



StreamType

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \to StreamInformation$	Enumeration	Imposed: RO

Short Description

Identifies the transport layer technology of the interface.

Enumeration Values

• GEV: This enumeration value indicates GigE Vision transport layer technology.



StreamDescription

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \to StreamInformation$	String	Imposed: RO

Short Description

Description of the stream.



StreamConfigurationStatus

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow StreamInformation$	Enumeration	Imposed: RO

Short Description

Stream Configuration Status.

- OK:
- UnknownError:
- BayerDecoderAndUnpackingModeMsbNotAllowed:
- BayerDecoderAndUnpackingModeOffNotAllowed:
- BinningAndFormatNotAllowed:
- BinningAndUnpackingModeNotAllowed:
- BinningConfigAndFormatDepthNotAllowed:
- LleNotImplemented:
- LleAndFormatNotAllowed:
- LutAndBayerFormatNotAllowed:
- LutAndLleNotAllowed:
- LutAndMultiComponentFormatNotAllowed:
- LutAndPackedFormatNotAllowed:
- LutAndUnpackingModeOffNotAllowed:
- LutConfigAndFormatDepthDontMatch:
- WidthNotAligned:
- CameraWidthNotAlignedToBinningWindow:
- CameraHeightNotAlignedToBinningWindow:
- UnpackingModeOffAnd16bitFormatNotAllowed:
- UnpackingModeOffAndFormatNotAllowed:
- ReverseXAndFormatNotAllowed:
- ReverseXAndUnpackingModeNotAllowed:
- CameraWidthTooLargeForReverseX:



4.3. ImageFormatControl Category

PixelFormat	.117
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PixelSize	.128
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PixelFormat

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → ImageFormatControl	Enumeration	Imposed: RO

Short Description

Pixel format of the image.

- BayerBG10pmsb: BayerBG10pmsb.
- BayerBG12pmsb: BayerBG12pmsb.
- BayerBG14pmsb: BayerBG14pmsb.
- BayerGB10pmsb: BayerGB10pmsb.
- BayerGB12pmsb: BayerGB12pmsb.
- BayerGB14pmsb: BayerGB14pmsb.
- BayerGR10pmsb: BayerGR10pmsb.
- BayerGR12pmsb: BayerGR12pmsb.
- BayerGR14pmsb: BayerGR14pmsb.
- BayerRG10pmsb: BayerRG10pmsb.
- BayerRG12pmsb: BayerRG12pmsb.
- BayerRG14pmsb: BayerRG14pmsb.
- Mono10pmsb: Mono10pmsb.
- Mono12pmsb: Mono12pmsb.
- Mono14pmsb: Mono14pmsb.
- RGB10pmsb: RGB10pmsb.
- RGB12pmsb: RGB12pmsb.
- RGB14pmsb: RGB14pmsb.
- RGBa10pmsb: RGBa10pmsb.
- RGBa12pmsb: RGBa12pmsb.
- RGBa14pmsb: RGBa14pmsb.
- YCbCr601_10pmsb: YCbCr601_10pmsb.
- YCbCr601_12pmsb: YCbCr601_12pmsb.
- YCbCr601_14pmsb: YCbCr601_14pmsb.



- YCbCr601_16: YCbCr601_16.
- YCbCr601_411_10pmsb: YCbCr601_411_10pmsb.
- YCbCr601_411_12pmsb: YCbCr601_411_12pmsb.
- YCbCr601_411_14pmsb: YCbCr601_411_14pmsb.
- YCbCr601_411_16: YCbCr601_411_16.
- YCbCr601_411_8: YCbCr601_411_8.
- YCbCr601_422_10pmsb: YCbCr601_422_10pmsb.
- YCbCr601_422_12pmsb: YCbCr601_422_12pmsb.
- YCbCr601_422_14pmsb: YCbCr601_422_14pmsb.
- YCbCr601_422_16: YCbCr601_422_16.
- YCbCr601_8: YCbCr601_8.
- YCbCr709_10pmsb: YCbCr709_10pmsb.
- YCbCr709_12pmsb: YCbCr709_12pmsb.
- YCbCr709_14pmsb: YCbCr709_14pmsb.
- YCbCr709_16: YCbCr709_16.
- YCbCr709_411_10pmsb: YCbCr709_411_10pmsb.
- YCbCr709_411_12pmsb: YCbCr709_411_12pmsb.
- YCbCr709_411_14pmsb: YCbCr709_411_14pmsb.
- YCbCr709_411_16: YCbCr709_411_16.
- YCbCr709_411_8: YCbCr709_411_8.
- YCbCr709_422_10pmsb: YCbCr709_422_10pmsb.
- YCbCr709_422_12pmsb: YCbCr709_422_12pmsb.
- YCbCr709_422_14pmsb: YCbCr709_422_14pmsb.
- YCbCr709_422_16: YCbCr709_422_16.
- YCbCr709_8: YCbCr709_8.
- YUV10pmsb: YUV10pmsb.
- YUV12pmsb: YUV12pmsb.
- YUV14pmsb: YUV14pmsb.
- YUV16: YUV16.
- YUV411_10pmsb: YUV411_10pmsb.
- YUV411_12pmsb: YUV411_12pmsb.
- YUV411_14pmsb: YUV411_14pmsb.
- YUV411_16: YUV411_16.
- YUV411_8: YUV411_8.
- YUV422_10pmsb: YUV422_10pmsb.
- YUV422_12pmsb: YUV422_12pmsb.



- YUV422_14pmsb: YUV422_14pmsb.
- YUV422_16: YUV422_16.
- YUV8: YUV8.
- **B10**: Blue 10-bit.
- **B12**: Blue 12-bit.
- **B16**: Blue 16-bit.
- B8: Blue 8-bit.
- BayerBG10: Bayer Blue-Green 10-bit unpacked.
- BayerBG10p: Bayer Blue-Green 10-bit packed.
- BayerBG10Packed: Bayer Blue-Green 10-bit packed.
- BayerBG12: Bayer Blue-Green 12-bit unpacked.
- BayerBG12p: Bayer Blue-Green 12-bit packed.
- BayerBG12Packed: Bayer Blue-Green 12-bit packed.
- BayerBG14: Bayer Blue-Green 14-bit.
- BayerBG14p: Bayer Blue-Green 14-bit packed.
- BayerBG16: Bayer Blue-Green 16-bit.
- BayerBG4p: Bayer Blue-Green 4-bit packed.
- BayerBG8: Bayer Blue-Green 8-bit.
- BayerGB10: Bayer Green-Blue 10-bit unpacked.
- BayerGB10p: Bayer Green-Blue 10-bit packed.
- BayerGB10Packed: Bayer Green-Blue 10-bit packed.
- BayerGB12: Bayer Green-Blue 12-bit unpacked.
- BayerGB12p: Bayer Green-Blue 12-bit packed.
- BayerGB12Packed: Bayer Green-Blue 12-bit packed.
- BayerGB14: Bayer Green-Blue 14-bit.
- BayerGB14p: Bayer Green-Blue 14-bit packed.
- BayerGB16: Bayer Green-Blue 16-bit.
- BayerGB4p: Bayer Green-Blue 4-bit packed.
- BayerGB8: Bayer Green-Blue 8-bit.
- BayerGR10: Bayer Green-Red 10-bit unpacked.
- BayerGR10p: Bayer Green-Red 10-bit packed.
- BayerGR10Packed: Bayer Green-Red 10-bit packed.
- BayerGR12: Bayer Green-Red 12-bit unpacked.
- BayerGR12p: Bayer Green-Red 12-bit packed.
- BayerGR12Packed: Bayer Green-Red 12-bit packed.
- BayerGR14: Bayer Green-Red 14-bit.



- BayerGR14p: Bayer Green-Red 14-bit packed.
- BayerGR16: Bayer Green-Red 16-bit.
- BayerGR4p: Bayer Green-Red 4-bit packed.
- BayerGR8: Bayer Green-Red 8-bit.
- BayerRG10: Bayer Red-Green 10-bit unpacked.
- BayerRG10p: Bayer Red-Green 10-bit packed.
- BayerRG10Packed: Bayer Red-Green 10-bit packed.
- BayerRG12: Bayer Red-Green 12-bit unpacked.
- BayerRG12p: Bayer Red-Green 12-bit packed.
- BayerRG12Packed: Bayer Red-Green 12-bit packed.
- BayerRG14: Bayer Red-Green 14-bit.
- BayerRG14p: Bayer Red-Green 14-bit packed.
- BayerRG16: Bayer Red-Green 16-bit.
- BayerRG4p: Bayer Red-Green 4-bit packed.
- BayerRG8: Bayer Red-Green 8-bit.
- BGR10: Blue-Green-Red 10-bit unpacked.
- BGR10p: Blue-Green-Red 10-bit packed.
- BGR12: Blue-Green-Red 12-bit unpacked.
- BGR12p: Blue-Green-Red 12-bit packed.
- BGR14: Blue-Green-Red 14-bit unpacked.
- BGR16: Blue-Green-Red 16-bit.
- BGR565p: Blue-Green-Red 5/6/5-bit packed.
- BGR8: Blue-Green-Red 8-bit.
- BGR8a32: BGR8a32.
- BGRa10: Blue-Green-Red-alpha 10-bit unpacked.
- BGRa10p: Blue-Green-Red-alpha 10-bit packed.
- BGRa12: Blue-Green-Red-alpha 12-bit unpacked.
- BGRa12p: Blue-Green-Red-alpha 12-bit packed.
- BGRa14: Blue-Green-Red-alpha 14-bit unpacked.
- BGRa16: Blue-Green-Red-alpha 16-bit.
- BGRa8: Blue-Green-Red-alpha 8-bit.
- BiColorBGRG10: Bi-color Blue/Green Red/Green 10-bit unpacked.
- BiColorBGRG10p: Bi-color Blue/Green Red/Green 10-bit packed.
- BiColorBGRG12: Bi-color Blue/Green Red/Green 12-bit unpacked.
- BiColorBGRG12p: Bi-color Blue/Green Red/Green 12-bit packed.
- BiColorBGRG8: Bi-color Blue/Green Red/Green 8-bit.



- **BiColorRGBG10**: Bi-color Red/Green Blue/Green 10-bit unpacked.
- BiColorRGBG10p: Bi-color Red/Green Blue/Green 10-bit packed.
- BiColorRGBG12: Bi-color Red/Green Blue/Green 12-bit unpacked.
- BiColorRGBG12p: Bi-color Red/Green Blue/Green 12-bit packed.
- BiColorRGBG8: Bi-color Red/Green Blue/Green 8-bit.
- Confidence1: Confidence 1-bit unpacked.
- Confidence16: Confidence 16-bit.
- Confidence1p: Confidence 1-bit packed.
- Confidence32f: Confidence 32-bit floating point.
- Confidence8: Confidence 8-bit.
- Coord3D_A10p: 3D coordinate A 10-bit packed.
- Coord3D_A12p: 3D coordinate A 12-bit packed.
- Coord3D_A16: 3D coordinate A 16-bit.
- Coord3D_A32f: 3D coordinate A 32-bit floating point.
- Coord3D_A8: 3D coordinate A 8-bit.
- Coord3D_ABC10p: 3D coordinate A-B-C 10-bit packed.
- Coord3D_ABC10p_Planar: 3D coordinate A-B-C 10-bit packed planar.
- Coord3D_ABC12p: 3D coordinate A-B-C 12-bit packed.
- Coord3D_ABC12p_Planar: 3D coordinate A-B-C 12-bit packed planar.
- Coord3D_ABC16: 3D coordinate A-B-C 16-bit.
- Coord3D_ABC16_Planar: 3D coordinate A-B-C 16-bit planar.
- Coord3D_ABC32f: 3D coordinate A-B-C 32-bit floating point.
- Coord3D_ABC32f_Planar: 3D coordinate A-B-C 32-bit floating point planar.
- Coord3D_ABC8: 3D coordinate A-B-C 8-bit.
- Coord3D_ABC8_Planar: 3D coordinate A-B-C 8-bit planar.
- Coord3D_AC10p: 3D coordinate A-C 10-bit packed.
- Coord3D_AC10p_Planar: 3D coordinate A-C 10-bit packed planar.
- Coord3D_AC12p: 3D coordinate A-C 12-bit packed.
- Coord3D_AC12p_Planar: 3D coordinate A-C 12-bit packed planar.
- Coord3D_AC16: 3D coordinate A-C 16-bit.
- Coord3D_AC16_Planar: 3D coordinate A-C 16-bit planar.
- Coord3D_AC32f: 3D coordinate A-C 32-bit floating point.
- Coord3D_AC32f_Planar: 3D coordinate A-C 32-bit floating point planar.
- Coord3D_AC8: 3D coordinate A-C 8-bit.
- Coord3D_AC8_Planar: 3D coordinate A-C 8-bit planar.
- Coord3D_B10p: 3D coordinate B 10-bit packed.



- Coord3D_B12p: 3D coordinate B 12-bit packed.
- Coord3D_B16: 3D coordinate B 16-bit.
- Coord3D_B32f: 3D coordinate B 32-bit floating point.
- Coord3D_B8: 3D coordinate B 8-bit.
- Coord3D_C10p: 3D coordinate C 10-bit packed.
- Coord3D_C12p: 3D coordinate C 12-bit packed.
- Coord3D_C16: 3D coordinate C 16-bit.
- Coord3D_C32f: 3D coordinate C 32-bit floating point.
- Coord3D_C8: 3D coordinate C 8-bit.
- CustomBayerBG14: CustomBayerBG14.
- CustomBayerGB14: CustomBayerGB14.
- CustomBayerGR14: CustomBayerGR14.
- CustomBayerRG14: CustomBayerRG14.
- CustomJFIF: CustomJFIF.
- G10: Green 10-bit.
- G12: Green 12-bit.
- G16: Green 16-bit.
- G8: Green 8-bit.
- Mono10: Monochrome 10-bit unpacked.
- Mono10p: Monochrome 10-bit packed.
- Mono10Packed: Monochrome 10-bit packed.
- Mono12: Monochrome 12-bit unpacked.
- Mono12p: Monochrome 12-bit packed.
- Mono12Packed: Monochrome 12-bit packed.
- Mono14: Monochrome 14-bit unpacked.
- Mono14p: Monochrome 14-bit packed.
- Mono16: Monochrome 16-bit.
- Mono1p: Monochrome 1-bit packed.
- Mono2p: Monochrome 2-bit packed.
- Mono32: Monochrome 32-bit.
- Mono4p: Monochrome 4-bit packed.
- Mono8: Monochrome 8-bit.
- Mono8s: Monochrome 8-bit signed.
- R10: Red 10-bit.
- R12: Red 12-bit.
- R16: Red 16-bit.



- **R8**: Red 8-bit.
- RGB10: Red-Green-Blue 10-bit unpacked.
- RGB10_Planar: Red-Green-Blue 10-bit unpacked planar.
- RGB10p: Red-Green-Blue 10-bit packed.
- RGB10p32: Red-Green-Blue 10-bit packed into 32-bit.
- RGB10V1Packed: Red-Green-Blue 10-bit packed variant 1.
- **RGB12**: Red-Green-Blue 12-bit unpacked.
- RGB12_Planar: Red-Green-Blue 12-bit unpacked planar.
- RGB12p: Red-Green-Blue 12-bit packed.
- RGB12V1Packed: Red-Green-Blue 12-bit packed variant 1.
- RGB14: Red-Green-Blue 14-bit unpacked.
- RGB16: Red-Green-Blue 16-bit.
- RGB16_Planar: Red-Green-Blue 16-bit planar.
- RGB565p: Red-Green-Blue 5/6/5-bit packed.
- RGB8: Red-Green-Blue 8-bit.
- RGB8_Planar: Red-Green-Blue 8-bit planar.
- RGB8a32: RGB8a32.
- RGBa10: Red-Green-Blue-alpha 10-bit unpacked.
- RGBa10p: Red-Green-Blue-alpha 10-bit packed.
- RGBa12: Red-Green-Blue-alpha 12-bit unpacked.
- RGBa12p: Red-Green-Blue-alpha 12-bit packed.
- RGBa14: Red-Green-Blue-alpha 14-bit unpacked.
- RGBa16: Red-Green-Blue-alpha 16-bit.
- RGBa8: Red-Green-Blue-alpha 8-bit.
- SCF1WBWG10: Sparse Color Filter #1 White-Blue-White-Green 10-bit unpacked.
- SCF1WBWG10p: Sparse Color Filter #1 White-Blue-White-Green 10-bit packed.
- SCF1WBWG12: Sparse Color Filter #1 White-Blue-White-Green 12-bit unpacked.
- SCF1WBWG12p: Sparse Color Filter #1 White-Blue-White-Green 12-bit packed.
- SCF1WBWG14: Sparse Color Filter #1 White-Blue-White-Green 14-bit unpacked.
- SCF1WBWG16: Sparse Color Filter #1 White-Blue-White-Green 16-bit unpacked.
- SCF1WBWG8: Sparse Color Filter #1 White-Blue-White-Green 8-bit.
- SCF1WGWB10: Sparse Color Filter #1 White-Green-White-Blue 10-bit unpacked.
- SCF1WGWB10p: Sparse Color Filter #1 White-Green-White-Blue 10-bit packed.
- SCF1WGWB12: Sparse Color Filter #1 White-Green-White-Blue 12-bit unpacked.
- SCF1WGWB12p: Sparse Color Filter #1 White-Green-White-Blue 12-bit packed.
- SCF1WGWB14: Sparse Color Filter #1 White-Green-White-Blue 14-bit unpacked.



- SCF1WGWB16: Sparse Color Filter #1 White-Green-White-Blue 16-bit.
- SCF1WGWB8: Sparse Color Filter #1 White-Green-White-Blue 8-bit.
- SCF1WGWR10: Sparse Color Filter #1 White-Green-White-Red 10-bit unpacked.
- SCF1WGWR10p: Sparse Color Filter #1 White-Green-White-Red 10-bit packed.
- SCF1WGWR12: Sparse Color Filter #1 White-Green-White-Red 12-bit unpacked.
- SCF1WGWR12p: Sparse Color Filter #1 White-Green-White-Red 12-bit packed.
- SCF1WGWR14: Sparse Color Filter #1 White-Green-White-Red 14-bit unpacked.
- SCF1WGWR16: Sparse Color Filter #1 White-Green-White-Red 16-bit.
- SCF1WGWR8: Sparse Color Filter #1 White-Green-White-Red 8-bit.
- SCF1WRWG10: Sparse Color Filter #1 White-Red-White-Green 10-bit unpacked.
- SCF1WRWG10p: Sparse Color Filter #1 White-Red-White-Green 10-bit packed.
- SCF1WRWG12: Sparse Color Filter #1 White-Red-White-Green 12-bit unpacked.
- SCF1WRWG12p: Sparse Color Filter #1 White-Red-White-Green 12-bit packed.
- SCF1WRWG14: Sparse Color Filter #1 White-Red-White-Green 14-bit unpacked.
- SCF1WRWG16: Sparse Color Filter #1 White-Red-White-Green 16-bit.
- SCF1WRWG8: Sparse Color Filter #1 White-Red-White-Green 8-bit.
- YCbCr10_CbYCr: YCbCr 4:4:4 10-bit unpacked.
- YCbCr10p_CbYCr: YCbCr 4:4:4 10-bit packed.
- YCbCr12_CbYCr: YCbCr 4:4:4 12-bit unpacked.
- YCbCr12p_CbYCr: YCbCr 4:4:4 12-bit packed.
- YCbCr2020_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.2020.
- YCbCr2020_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.2020.
- YCbCr2020_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.2020.
- YCbCr2020_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.2020.
- YCbCr2020_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.2020.
- YCbCr2020_422_10: YCbCr 4:2:2 10-bit unpacked BT.2020.
- YCbCr2020_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.2020.
- YCbCr2020_422_10p: YCbCr 4:2:2 10-bit packed BT.2020.
- YCbCr2020_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.2020.
- YCbCr2020_422_12: YCbCr 4:2:2 12-bit unpacked BT.2020.
- YCbCr2020_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.2020.
- YCbCr2020_422_12p: YCbCr 4:2:2 12-bit packed BT.2020.
- YCbCr2020_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.2020.
- YCbCr2020_422_8: YCbCr 4:2:2 8-bit BT.2020.
- YCbCr2020_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.2020.
- YCbCr2020_8_CbYCr: YCbCr 4:4:4 8-bit BT.2020.



- YCbCr411_8: YCbCr 4:1:1 8-bit.
- YCbCr411_8_CbYYCrYY: YCbCr 4:1:1 8-bit.
- YCbCr420_8_YY_CbCr_Semiplanar: YCbCr 4:2:0 8-bit YY/CbCr Semiplanar.
- YCbCr420_8_YY_CrCb_Semiplanar: YCbCr 4:2:0 8-bit YY/CrCb Semiplanar.
- YCbCr422_10: YCbCr 4:2:2 10-bit unpacked.
- YCbCr422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked.
- YCbCr422_10p: YCbCr 4:2:2 10-bit packed.
- YCbCr422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed.
- YCbCr422_12: YCbCr 4:2:2 12-bit unpacked.
- YCbCr422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked.
- YCbCr422_12p: YCbCr 4:2:2 12-bit packed.
- YCbCr422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed.
- YCbCr422_8: YCbCr 4:2:2 8-bit.
- YCbCr422_8_CbYCrY: YCbCr 4:2:2 8-bit.
- YCbCr422_8_YY_CbCr_Semiplanar: YCbCr 4:2:2 8-bit YY/CbCr Semiplanar.
- YCbCr422_8_YY_CrCb_Semiplanar: YCbCr 4:2:2 8-bit YY/CrCb Semiplanar.
- YCbCr601_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.601.
- YCbCr601_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.601.
- YCbCr601_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.601.
- YCbCr601_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.601.
- YCbCr601_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.601.
- YCbCr601_422_10: YCbCr 4:2:2 10-bit unpacked BT.601.
- YCbCr601_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.601.
- YCbCr601_422_10p: YCbCr 4:2:2 10-bit packed BT.601.
- YCbCr601_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.601.
- YCbCr601_422_12: YCbCr 4:2:2 12-bit unpacked BT.601.
- YCbCr601_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.601.
- YCbCr601_422_12p: YCbCr 4:2:2 12-bit packed BT.601.
- YCbCr601_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.601.
- YCbCr601_422_8: YCbCr 4:2:2 8-bit BT.601.
- YCbCr601_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.601.
- YCbCr601_8_CbYCr: YCbCr 4:4:4 8-bit BT.601.
- YCbCr709_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.709.
- YCbCr709_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.709.
- YCbCr709_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.709.
- YCbCr709_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.709.



- YCbCr709_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.709.
- YCbCr709_422_10: YCbCr 4:2:2 10-bit unpacked BT.709.
- YCbCr709_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.709.
- YCbCr709_422_10p: YCbCr 4:2:2 10-bit packed BT.709.
- YCbCr709_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.709.
- YCbCr709_422_12: YCbCr 4:2:2 12-bit unpacked BT.709.
- YCbCr709_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.709.
- YCbCr709_422_12p: YCbCr 4:2:2 12-bit packed BT.709.
- YCbCr709_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.709.
- YCbCr709_422_8: YCbCr 4:2:2 8-bit BT.709.
- YCbCr709_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.709.
- YCbCr709_8_CbYCr: YCbCr 4:4:4 8-bit BT.709.
- YCbCr8: YCbCr 4:4:4 8-bit.
- YCbCr8_CbYCr: YCbCr 4:4:4 8-bit.
- YUV411_8_UYYVYY: YUV 4:1:1 8-bit.
- YUV422_8: YUV 4:2:2 8-bit.
- YUV422_8_UYVY: YUV 4:2:2 8-bit.
- YUV422Packed: YUV422Packed.
- YUV8_UYV: YUV 4:4:4 8-bit.



PixelFormatNamespace

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → ImageFormatControl	Enumeration	Imposed: RO

Short Description

Namespace of the pixel format.

- Unknown: Unknown.
- **GEV**: GEV.
- IIDC: IIDC.
- **PFNC_16BIT**: PFNC 16-bit.
- PFNC_32BIT: PFNC 32-bit.



PixelSize

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → ImageFormatControl	IntReg	RO

Register Port: StreamPort

Short Description

Pixel size in bits.



PixelComponentCount

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow ImageFormatControl$	IntReg	RO

Register Port: StreamPort

Short Description

Number of components per pixel.



Width

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → ImageFormatControl	Integer	Imposed: RO

Short Description

Width of the image.



Height

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → ImageFormatControl	Integer	Imposed: RO

Short Description

Height of the image.



ImageFormatSource

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → ImageFormatControl	Enumeration	RW

Short Description

Source of remote device image format.

- RemoteDevice: Remote device (PixelFormat, Width, Height).
- DataStream: Data stream (RemotePixelFormat, RemoteWidth, RemoteHeight).



RemotePixelFormat

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow ImageFormatControl$	Enumeration	RW

Short Description

Pixel format of the remote device image.

- BayerBG10pmsb: BayerBG10pmsb.
- BayerBG12pmsb: BayerBG12pmsb.
- BayerBG14pmsb: BayerBG14pmsb.
- BayerGB10pmsb: BayerGB10pmsb.
- BayerGB12pmsb: BayerGB12pmsb.
- BayerGB14pmsb: BayerGB14pmsb.
- BayerGR10pmsb: BayerGR10pmsb.
- BayerGR12pmsb: BayerGR12pmsb.
- BayerGR14pmsb: BayerGR14pmsb.
- BayerRG10pmsb: BayerRG10pmsb.
- BayerRG12pmsb: BayerRG12pmsb.
- BayerRG14pmsb: BayerRG14pmsb.
- Mono10pmsb: Mono10pmsb.
- Mono12pmsb: Mono12pmsb.
- Mono14pmsb: Mono14pmsb.
- RGB10pmsb: RGB10pmsb.
- RGB12pmsb: RGB12pmsb.
- RGB14pmsb: RGB14pmsb.
- RGBa10pmsb: RGBa10pmsb.
- RGBa12pmsb: RGBa12pmsb.
- RGBa14pmsb: RGBa14pmsb.
- YCbCr601_10pmsb: YCbCr601_10pmsb.
- YCbCr601_12pmsb: YCbCr601_12pmsb.
- YCbCr601_14pmsb: YCbCr601_14pmsb.



- YCbCr601_16: YCbCr601_16.
- YCbCr601_411_10pmsb: YCbCr601_411_10pmsb.
- YCbCr601_411_12pmsb: YCbCr601_411_12pmsb.
- YCbCr601_411_14pmsb: YCbCr601_411_14pmsb.
- YCbCr601_411_16: YCbCr601_411_16.
- YCbCr601_411_8: YCbCr601_411_8.
- YCbCr601_422_10pmsb: YCbCr601_422_10pmsb.
- YCbCr601_422_12pmsb: YCbCr601_422_12pmsb.
- YCbCr601_422_14pmsb: YCbCr601_422_14pmsb.
- YCbCr601_422_16: YCbCr601_422_16.
- YCbCr601_8: YCbCr601_8.
- YCbCr709_10pmsb: YCbCr709_10pmsb.
- YCbCr709_12pmsb: YCbCr709_12pmsb.
- YCbCr709_14pmsb: YCbCr709_14pmsb.
- YCbCr709_16: YCbCr709_16.
- YCbCr709_411_10pmsb: YCbCr709_411_10pmsb.
- YCbCr709_411_12pmsb: YCbCr709_411_12pmsb.
- YCbCr709_411_14pmsb: YCbCr709_411_14pmsb.
- YCbCr709_411_16: YCbCr709_411_16.
- YCbCr709_411_8: YCbCr709_411_8.
- YCbCr709_422_10pmsb: YCbCr709_422_10pmsb.
- YCbCr709_422_12pmsb: YCbCr709_422_12pmsb.
- YCbCr709_422_14pmsb: YCbCr709_422_14pmsb.
- YCbCr709_422_16: YCbCr709_422_16.
- YCbCr709_8: YCbCr709_8.
- YUV10pmsb: YUV10pmsb.
- YUV12pmsb: YUV12pmsb.
- YUV14pmsb: YUV14pmsb.
- YUV16: YUV16.
- YUV411_10pmsb: YUV411_10pmsb.
- YUV411_12pmsb: YUV411_12pmsb.
- YUV411_14pmsb: YUV411_14pmsb.
- YUV411_16: YUV411_16.
- YUV411_8: YUV411_8.
- YUV422_10pmsb: YUV422_10pmsb.
- YUV422_12pmsb: YUV422_12pmsb.



- YUV422_14pmsb: YUV422_14pmsb.
- YUV422_16: YUV422_16.
- YUV8: YUV8.
- **B10**: Blue 10-bit.
- **B12**: Blue 12-bit.
- **B16**: Blue 16-bit.
- B8: Blue 8-bit.
- BayerBG10: Bayer Blue-Green 10-bit unpacked.
- BayerBG10p: Bayer Blue-Green 10-bit packed.
- BayerBG10Packed: Bayer Blue-Green 10-bit packed.
- BayerBG12: Bayer Blue-Green 12-bit unpacked.
- BayerBG12p: Bayer Blue-Green 12-bit packed.
- BayerBG12Packed: Bayer Blue-Green 12-bit packed.
- BayerBG14: Bayer Blue-Green 14-bit.
- BayerBG14p: Bayer Blue-Green 14-bit packed.
- BayerBG16: Bayer Blue-Green 16-bit.
- BayerBG4p: Bayer Blue-Green 4-bit packed.
- BayerBG8: Bayer Blue-Green 8-bit.
- BayerGB10: Bayer Green-Blue 10-bit unpacked.
- BayerGB10p: Bayer Green-Blue 10-bit packed.
- BayerGB10Packed: Bayer Green-Blue 10-bit packed.
- BayerGB12: Bayer Green-Blue 12-bit unpacked.
- BayerGB12p: Bayer Green-Blue 12-bit packed.
- BayerGB12Packed: Bayer Green-Blue 12-bit packed.
- BayerGB14: Bayer Green-Blue 14-bit.
- BayerGB14p: Bayer Green-Blue 14-bit packed.
- BayerGB16: Bayer Green-Blue 16-bit.
- BayerGB4p: Bayer Green-Blue 4-bit packed.
- BayerGB8: Bayer Green-Blue 8-bit.
- BayerGR10: Bayer Green-Red 10-bit unpacked.
- BayerGR10p: Bayer Green-Red 10-bit packed.
- BayerGR10Packed: Bayer Green-Red 10-bit packed.
- BayerGR12: Bayer Green-Red 12-bit unpacked.
- BayerGR12p: Bayer Green-Red 12-bit packed.
- BayerGR12Packed: Bayer Green-Red 12-bit packed.
- BayerGR14: Bayer Green-Red 14-bit.



- BayerGR14p: Bayer Green-Red 14-bit packed.
- BayerGR16: Bayer Green-Red 16-bit.
- BayerGR4p: Bayer Green-Red 4-bit packed.
- BayerGR8: Bayer Green-Red 8-bit.
- BayerRG10: Bayer Red-Green 10-bit unpacked.
- BayerRG10p: Bayer Red-Green 10-bit packed.
- BayerRG10Packed: Bayer Red-Green 10-bit packed.
- BayerRG12: Bayer Red-Green 12-bit unpacked.
- BayerRG12p: Bayer Red-Green 12-bit packed.
- BayerRG12Packed: Bayer Red-Green 12-bit packed.
- BayerRG14: Bayer Red-Green 14-bit.
- BayerRG14p: Bayer Red-Green 14-bit packed.
- BayerRG16: Bayer Red-Green 16-bit.
- BayerRG4p: Bayer Red-Green 4-bit packed.
- BayerRG8: Bayer Red-Green 8-bit.
- BGR10: Blue-Green-Red 10-bit unpacked.
- BGR10p: Blue-Green-Red 10-bit packed.
- BGR12: Blue-Green-Red 12-bit unpacked.
- BGR12p: Blue-Green-Red 12-bit packed.
- BGR14: Blue-Green-Red 14-bit unpacked.
- BGR16: Blue-Green-Red 16-bit.
- BGR565p: Blue-Green-Red 5/6/5-bit packed.
- BGR8: Blue-Green-Red 8-bit.
- BGR8a32: BGR8a32.
- BGRa10: Blue-Green-Red-alpha 10-bit unpacked.
- BGRa10p: Blue-Green-Red-alpha 10-bit packed.
- BGRa12: Blue-Green-Red-alpha 12-bit unpacked.
- BGRa12p: Blue-Green-Red-alpha 12-bit packed.
- BGRa14: Blue-Green-Red-alpha 14-bit unpacked.
- BGRa16: Blue-Green-Red-alpha 16-bit.
- BGRa8: Blue-Green-Red-alpha 8-bit.
- BiColorBGRG10: Bi-color Blue/Green Red/Green 10-bit unpacked.
- BiColorBGRG10p: Bi-color Blue/Green Red/Green 10-bit packed.
- BiColorBGRG12: Bi-color Blue/Green Red/Green 12-bit unpacked.
- BiColorBGRG12p: Bi-color Blue/Green Red/Green 12-bit packed.
- BiColorBGRG8: Bi-color Blue/Green Red/Green 8-bit.



- **BiColorRGBG10**: Bi-color Red/Green Blue/Green 10-bit unpacked.
- BiColorRGBG10p: Bi-color Red/Green Blue/Green 10-bit packed.
- BiColorRGBG12: Bi-color Red/Green Blue/Green 12-bit unpacked.
- BiColorRGBG12p: Bi-color Red/Green Blue/Green 12-bit packed.
- BiColorRGBG8: Bi-color Red/Green Blue/Green 8-bit.
- Confidence1: Confidence 1-bit unpacked.
- Confidence16: Confidence 16-bit.
- Confidence1p: Confidence 1-bit packed.
- Confidence32f: Confidence 32-bit floating point.
- Confidence8: Confidence 8-bit.
- Coord3D_A10p: 3D coordinate A 10-bit packed.
- Coord3D_A12p: 3D coordinate A 12-bit packed.
- Coord3D_A16: 3D coordinate A 16-bit.
- Coord3D_A32f: 3D coordinate A 32-bit floating point.
- Coord3D_A8: 3D coordinate A 8-bit.
- Coord3D_ABC10p: 3D coordinate A-B-C 10-bit packed.
- Coord3D_ABC10p_Planar: 3D coordinate A-B-C 10-bit packed planar.
- Coord3D_ABC12p: 3D coordinate A-B-C 12-bit packed.
- Coord3D_ABC12p_Planar: 3D coordinate A-B-C 12-bit packed planar.
- Coord3D_ABC16: 3D coordinate A-B-C 16-bit.
- Coord3D_ABC16_Planar: 3D coordinate A-B-C 16-bit planar.
- Coord3D_ABC32f: 3D coordinate A-B-C 32-bit floating point.
- Coord3D_ABC32f_Planar: 3D coordinate A-B-C 32-bit floating point planar.
- Coord3D_ABC8: 3D coordinate A-B-C 8-bit.
- Coord3D_ABC8_Planar: 3D coordinate A-B-C 8-bit planar.
- Coord3D_AC10p: 3D coordinate A-C 10-bit packed.
- Coord3D_AC10p_Planar: 3D coordinate A-C 10-bit packed planar.
- Coord3D_AC12p: 3D coordinate A-C 12-bit packed.
- Coord3D_AC12p_Planar: 3D coordinate A-C 12-bit packed planar.
- Coord3D_AC16: 3D coordinate A-C 16-bit.
- Coord3D_AC16_Planar: 3D coordinate A-C 16-bit planar.
- Coord3D_AC32f: 3D coordinate A-C 32-bit floating point.
- Coord3D_AC32f_Planar: 3D coordinate A-C 32-bit floating point planar.
- Coord3D_AC8: 3D coordinate A-C 8-bit.
- Coord3D_AC8_Planar: 3D coordinate A-C 8-bit planar.
- Coord3D_B10p: 3D coordinate B 10-bit packed.



- Coord3D_B12p: 3D coordinate B 12-bit packed.
- Coord3D_B16: 3D coordinate B 16-bit.
- Coord3D_B32f: 3D coordinate B 32-bit floating point.
- Coord3D_B8: 3D coordinate B 8-bit.
- Coord3D_C10p: 3D coordinate C 10-bit packed.
- Coord3D_C12p: 3D coordinate C 12-bit packed.
- Coord3D_C16: 3D coordinate C 16-bit.
- Coord3D_C32f: 3D coordinate C 32-bit floating point.
- Coord3D_C8: 3D coordinate C 8-bit.
- CustomBayerBG14: CustomBayerBG14.
- CustomBayerGB14: CustomBayerGB14.
- CustomBayerGR14: CustomBayerGR14.
- CustomBayerRG14: CustomBayerRG14.
- CustomJFIF: CustomJFIF.
- G10: Green 10-bit.
- G12: Green 12-bit.
- G16: Green 16-bit.
- G8: Green 8-bit.
- Mono10: Monochrome 10-bit unpacked.
- Mono10p: Monochrome 10-bit packed.
- Mono10Packed: Monochrome 10-bit packed.
- Mono12: Monochrome 12-bit unpacked.
- Mono12p: Monochrome 12-bit packed.
- Mono12Packed: Monochrome 12-bit packed.
- Mono14: Monochrome 14-bit unpacked.
- Mono14p: Monochrome 14-bit packed.
- Mono16: Monochrome 16-bit.
- Mono1p: Monochrome 1-bit packed.
- Mono2p: Monochrome 2-bit packed.
- Mono32: Monochrome 32-bit.
- Mono4p: Monochrome 4-bit packed.
- Mono8: Monochrome 8-bit.
- Mono8s: Monochrome 8-bit signed.
- R10: Red 10-bit.
- R12: Red 12-bit.
- R16: Red 16-bit.



- **R8**: Red 8-bit.
- RGB10: Red-Green-Blue 10-bit unpacked.
- RGB10_Planar: Red-Green-Blue 10-bit unpacked planar.
- RGB10p: Red-Green-Blue 10-bit packed.
- RGB10p32: Red-Green-Blue 10-bit packed into 32-bit.
- RGB10V1Packed: Red-Green-Blue 10-bit packed variant 1.
- RGB12: Red-Green-Blue 12-bit unpacked.
- RGB12_Planar: Red-Green-Blue 12-bit unpacked planar.
- RGB12p: Red-Green-Blue 12-bit packed.
- RGB12V1Packed: Red-Green-Blue 12-bit packed variant 1.
- RGB14: Red-Green-Blue 14-bit unpacked.
- RGB16: Red-Green-Blue 16-bit.
- RGB16_Planar: Red-Green-Blue 16-bit planar.
- RGB565p: Red-Green-Blue 5/6/5-bit packed.
- RGB8: Red-Green-Blue 8-bit.
- RGB8_Planar: Red-Green-Blue 8-bit planar.
- RGB8a32: RGB8a32.
- RGBa10: Red-Green-Blue-alpha 10-bit unpacked.
- RGBa10p: Red-Green-Blue-alpha 10-bit packed.
- RGBa12: Red-Green-Blue-alpha 12-bit unpacked.
- RGBa12p: Red-Green-Blue-alpha 12-bit packed.
- RGBa14: Red-Green-Blue-alpha 14-bit unpacked.
- RGBa16: Red-Green-Blue-alpha 16-bit.
- RGBa8: Red-Green-Blue-alpha 8-bit.
- SCF1WBWG10: Sparse Color Filter #1 White-Blue-White-Green 10-bit unpacked.
- SCF1WBWG10p: Sparse Color Filter #1 White-Blue-White-Green 10-bit packed.
- SCF1WBWG12: Sparse Color Filter #1 White-Blue-White-Green 12-bit unpacked.
- SCF1WBWG12p: Sparse Color Filter #1 White-Blue-White-Green 12-bit packed.
- SCF1WBWG14: Sparse Color Filter #1 White-Blue-White-Green 14-bit unpacked.
- SCF1WBWG16: Sparse Color Filter #1 White-Blue-White-Green 16-bit unpacked.
- SCF1WBWG8: Sparse Color Filter #1 White-Blue-White-Green 8-bit.
- SCF1WGWB10: Sparse Color Filter #1 White-Green-White-Blue 10-bit unpacked.
- SCF1WGWB10p: Sparse Color Filter #1 White-Green-White-Blue 10-bit packed.
- SCF1WGWB12: Sparse Color Filter #1 White-Green-White-Blue 12-bit unpacked.
- SCF1WGWB12p: Sparse Color Filter #1 White-Green-White-Blue 12-bit packed.
- SCF1WGWB14: Sparse Color Filter #1 White-Green-White-Blue 14-bit unpacked.



- SCF1WGWB16: Sparse Color Filter #1 White-Green-White-Blue 16-bit.
- SCF1WGWB8: Sparse Color Filter #1 White-Green-White-Blue 8-bit.
- SCF1WGWR10: Sparse Color Filter #1 White-Green-White-Red 10-bit unpacked.
- SCF1WGWR10p: Sparse Color Filter #1 White-Green-White-Red 10-bit packed.
- SCF1WGWR12: Sparse Color Filter #1 White-Green-White-Red 12-bit unpacked.
- SCF1WGWR12p: Sparse Color Filter #1 White-Green-White-Red 12-bit packed.
- SCF1WGWR14: Sparse Color Filter #1 White-Green-White-Red 14-bit unpacked.
- SCF1WGWR16: Sparse Color Filter #1 White-Green-White-Red 16-bit.
- SCF1WGWR8: Sparse Color Filter #1 White-Green-White-Red 8-bit.
- SCF1WRWG10: Sparse Color Filter #1 White-Red-White-Green 10-bit unpacked.
- SCF1WRWG10p: Sparse Color Filter #1 White-Red-White-Green 10-bit packed.
- SCF1WRWG12: Sparse Color Filter #1 White-Red-White-Green 12-bit unpacked.
- SCF1WRWG12p: Sparse Color Filter #1 White-Red-White-Green 12-bit packed.
- SCF1WRWG14: Sparse Color Filter #1 White-Red-White-Green 14-bit unpacked.
- SCF1WRWG16: Sparse Color Filter #1 White-Red-White-Green 16-bit.
- SCF1WRWG8: Sparse Color Filter #1 White-Red-White-Green 8-bit.
- YCbCr10_CbYCr: YCbCr 4:4:4 10-bit unpacked.
- YCbCr10p_CbYCr: YCbCr 4:4:4 10-bit packed.
- YCbCr12_CbYCr: YCbCr 4:4:4 12-bit unpacked.
- YCbCr12p_CbYCr: YCbCr 4:4:4 12-bit packed.
- YCbCr2020_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.2020.
- YCbCr2020_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.2020.
- YCbCr2020_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.2020.
- YCbCr2020_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.2020.
- YCbCr2020_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.2020.
- YCbCr2020_422_10: YCbCr 4:2:2 10-bit unpacked BT.2020.
- YCbCr2020_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.2020.
- YCbCr2020_422_10p: YCbCr 4:2:2 10-bit packed BT.2020.
- YCbCr2020_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.2020.
- YCbCr2020_422_12: YCbCr 4:2:2 12-bit unpacked BT.2020.
- YCbCr2020_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.2020.
- YCbCr2020_422_12p: YCbCr 4:2:2 12-bit packed BT.2020.
- YCbCr2020_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.2020.
- YCbCr2020_422_8: YCbCr 4:2:2 8-bit BT.2020.
- YCbCr2020_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.2020.
- YCbCr2020_8_CbYCr: YCbCr 4:4:4 8-bit BT.2020.



- YCbCr411_8: YCbCr 4:1:1 8-bit.
- YCbCr411_8_CbYYCrYY: YCbCr 4:1:1 8-bit.
- YCbCr420_8_YY_CbCr_Semiplanar: YCbCr 4:2:0 8-bit YY/CbCr Semiplanar.
- YCbCr420_8_YY_CrCb_Semiplanar: YCbCr 4:2:0 8-bit YY/CrCb Semiplanar.
- YCbCr422_10: YCbCr 4:2:2 10-bit unpacked.
- YCbCr422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked.
- YCbCr422_10p: YCbCr 4:2:2 10-bit packed.
- YCbCr422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed.
- YCbCr422_12: YCbCr 4:2:2 12-bit unpacked.
- YCbCr422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked.
- YCbCr422_12p: YCbCr 4:2:2 12-bit packed.
- YCbCr422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed.
- YCbCr422_8: YCbCr 4:2:2 8-bit.
- YCbCr422_8_CbYCrY: YCbCr 4:2:2 8-bit.
- YCbCr422_8_YY_CbCr_Semiplanar: YCbCr 4:2:2 8-bit YY/CbCr Semiplanar.
- YCbCr422_8_YY_CrCb_Semiplanar: YCbCr 4:2:2 8-bit YY/CrCb Semiplanar.
- YCbCr601_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.601.
- YCbCr601_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.601.
- YCbCr601_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.601.
- YCbCr601_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.601.
- YCbCr601_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.601.
- YCbCr601_422_10: YCbCr 4:2:2 10-bit unpacked BT.601.
- YCbCr601_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.601.
- YCbCr601_422_10p: YCbCr 4:2:2 10-bit packed BT.601.
- YCbCr601_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.601.
- YCbCr601_422_12: YCbCr 4:2:2 12-bit unpacked BT.601.
- YCbCr601_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.601.
- YCbCr601_422_12p: YCbCr 4:2:2 12-bit packed BT.601.
- YCbCr601_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.601.
- YCbCr601_422_8: YCbCr 4:2:2 8-bit BT.601.
- YCbCr601_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.601.
- YCbCr601_8_CbYCr: YCbCr 4:4:4 8-bit BT.601.
- YCbCr709_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.709.
- YCbCr709_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.709.
- YCbCr709_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.709.
- YCbCr709_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.709.



- YCbCr709_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.709.
- YCbCr709_422_10: YCbCr 4:2:2 10-bit unpacked BT.709.
- YCbCr709_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.709.
- YCbCr709_422_10p: YCbCr 4:2:2 10-bit packed BT.709.
- YCbCr709_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.709.
- YCbCr709_422_12: YCbCr 4:2:2 12-bit unpacked BT.709.
- YCbCr709_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.709.
- YCbCr709_422_12p: YCbCr 4:2:2 12-bit packed BT.709.
- YCbCr709_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.709.
- YCbCr709_422_8: YCbCr 4:2:2 8-bit BT.709.
- YCbCr709_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.709.
- YCbCr709_8_CbYCr: YCbCr 4:4:4 8-bit BT.709.
- YCbCr8: YCbCr 4:4:4 8-bit.
- YCbCr8_CbYCr: YCbCr 4:4:4 8-bit.
- YUV411_8_UYYVYY: YUV 4:1:1 8-bit.
- YUV422_8: YUV 4:2:2 8-bit.
- YUV422_8_UYVY: YUV 4:2:2 8-bit.
- YUV422Packed: YUV422Packed.
- YUV8_UYV: YUV 4:4:4 8-bit.



RemoteWidth

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → ImageFormatControl	Integer	RW

Value Info

Minimum value: 1

Short Description

Width of the remote device image.



RemoteHeight

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → ImageFormatControl	Integer	RW

Value Info

Minimum value: 1

Short Description

Height of the remote device image.


4.4. TransportLayerControl Category

PayloadSize	146
ControlRemoteDevice	147



PayloadSize

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow TransportLayerControl	Integer	Imposed: RO

Short Description

Expected size of buffers for the data stream.



ControlRemoteDevice

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \to TransportLayerControl$	Boolean	RW

Short Description

Defines whether or not to start and stop the remote device by automatically executing AcquisitionStart and AcquisitionStop commands.



4.5. BufferHandlingControl Category

StreamAnnouncedBufferCount	149
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StreamAnnouncedBufferCount

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Integer	Imposed: RO

Short Description

Number of announced buffers on the stream.



StreamBufferHandlingMode

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Enumeration	RW

Short Description

Available buffer handling modes of this Stream.

Enumeration Values

• Default: Default Buffer Handling Mode.



StreamAnnounceBufferMinimum

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Integer	Imposed: RO

Short Description

Minimal number of buffers to announce to enable selected buffer handling mode.



StreamAcquisitionModeSelector

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Enumeration	RW

Short Description

Available buffer handling modes of this Stream. Deprecated.

Enumeration Values

• Default: Default Buffer Handling Mode.



BufferAllocationAlignmentControl

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Enumeration	RW

Short Description

Buffer Allocation Alignment Control.

Enumeration Values

- **Disable**: Disable aligned buffer allocation.
- Enable: Enable aligned buffer allocation.



BufferAllocationAlignment

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Integer	RW

Value Info

Minimum value: 1

Short Description

Alignment of buffers allocated by DSAllocAndAnnounceBuffer, should be a power of 2.



BufferInfoSource

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \to BufferHandlingControl$	Enumeration	RW

Short Description

Source of buffer info.

Enumeration Values

- ImageHeader: Remote device image header (PixelFormat, Width, Height).
- DataStream: Data stream (BufferInfoPixelFormat, BufferInfoWidth, BufferInfoHeight).



BufferInfoWidth

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Integer	RW

Value Info

Minimum value: 1

Short Description

Imposed width.



BufferInfoHeight

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Integer	RW

Value Info

Minimum value: 0

Short Description

Imposed height.



BufferInfoPixelFormat

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow BufferHandlingControl$	Enumeration	RW

Short Description

Imposed pixel format.

Enumeration Values

- BayerBG10pmsb: BayerBG10pmsb.
- BayerBG12pmsb: BayerBG12pmsb.
- BayerBG14pmsb: BayerBG14pmsb.
- BayerGB10pmsb: BayerGB10pmsb.
- BayerGB12pmsb: BayerGB12pmsb.
- BayerGB14pmsb: BayerGB14pmsb.
- BayerGR10pmsb: BayerGR10pmsb.
- BayerGR12pmsb: BayerGR12pmsb.
- BayerGR14pmsb: BayerGR14pmsb.
- BayerRG10pmsb: BayerRG10pmsb.
- BayerRG12pmsb: BayerRG12pmsb.
- BayerRG14pmsb: BayerRG14pmsb.
- Mono10pmsb: Mono10pmsb.
- Mono12pmsb: Mono12pmsb.
- Mono14pmsb: Mono14pmsb.
- RGB10pmsb: RGB10pmsb.
- RGB12pmsb: RGB12pmsb.
- RGB14pmsb: RGB14pmsb.
- RGBa10pmsb: RGBa10pmsb.
- RGBa12pmsb: RGBa12pmsb.
- RGBa14pmsb: RGBa14pmsb.
- YCbCr601_10pmsb: YCbCr601_10pmsb.
- YCbCr601_12pmsb: YCbCr601_12pmsb.
- YCbCr601_14pmsb: YCbCr601_14pmsb.



- YCbCr601_16: YCbCr601_16.
- YCbCr601_411_10pmsb: YCbCr601_411_10pmsb.
- YCbCr601_411_12pmsb: YCbCr601_411_12pmsb.
- YCbCr601_411_14pmsb: YCbCr601_411_14pmsb.
- YCbCr601_411_16: YCbCr601_411_16.
- YCbCr601_411_8: YCbCr601_411_8.
- YCbCr601_422_10pmsb: YCbCr601_422_10pmsb.
- YCbCr601_422_12pmsb: YCbCr601_422_12pmsb.
- YCbCr601_422_14pmsb: YCbCr601_422_14pmsb.
- YCbCr601_422_16: YCbCr601_422_16.
- YCbCr601_8: YCbCr601_8.
- YCbCr709_10pmsb: YCbCr709_10pmsb.
- YCbCr709_12pmsb: YCbCr709_12pmsb.
- YCbCr709_14pmsb: YCbCr709_14pmsb.
- YCbCr709_16: YCbCr709_16.
- YCbCr709_411_10pmsb: YCbCr709_411_10pmsb.
- YCbCr709_411_12pmsb: YCbCr709_411_12pmsb.
- YCbCr709_411_14pmsb: YCbCr709_411_14pmsb.
- YCbCr709_411_16: YCbCr709_411_16.
- YCbCr709_411_8: YCbCr709_411_8.
- YCbCr709_422_10pmsb: YCbCr709_422_10pmsb.
- YCbCr709_422_12pmsb: YCbCr709_422_12pmsb.
- YCbCr709_422_14pmsb: YCbCr709_422_14pmsb.
- YCbCr709_422_16: YCbCr709_422_16.
- YCbCr709_8: YCbCr709_8.
- YUV10pmsb: YUV10pmsb.
- YUV12pmsb: YUV12pmsb.
- YUV14pmsb: YUV14pmsb.
- YUV16: YUV16.
- YUV411_10pmsb: YUV411_10pmsb.
- YUV411_12pmsb: YUV411_12pmsb.
- YUV411_14pmsb: YUV411_14pmsb.
- YUV411_16: YUV411_16.
- YUV411_8: YUV411_8.
- YUV422_10pmsb: YUV422_10pmsb.
- YUV422_12pmsb: YUV422_12pmsb.



- YUV422_14pmsb: YUV422_14pmsb.
- YUV422_16: YUV422_16.
- YUV8: YUV8.
- **B10**: Blue 10-bit.
- **B12**: Blue 12-bit.
- **B16**: Blue 16-bit.
- B8: Blue 8-bit.
- BayerBG10: Bayer Blue-Green 10-bit unpacked.
- BayerBG10p: Bayer Blue-Green 10-bit packed.
- BayerBG10Packed: Bayer Blue-Green 10-bit packed.
- BayerBG12: Bayer Blue-Green 12-bit unpacked.
- BayerBG12p: Bayer Blue-Green 12-bit packed.
- BayerBG12Packed: Bayer Blue-Green 12-bit packed.
- BayerBG14: Bayer Blue-Green 14-bit.
- BayerBG14p: Bayer Blue-Green 14-bit packed.
- BayerBG16: Bayer Blue-Green 16-bit.
- BayerBG4p: Bayer Blue-Green 4-bit packed.
- BayerBG8: Bayer Blue-Green 8-bit.
- BayerGB10: Bayer Green-Blue 10-bit unpacked.
- BayerGB10p: Bayer Green-Blue 10-bit packed.
- BayerGB10Packed: Bayer Green-Blue 10-bit packed.
- BayerGB12: Bayer Green-Blue 12-bit unpacked.
- BayerGB12p: Bayer Green-Blue 12-bit packed.
- BayerGB12Packed: Bayer Green-Blue 12-bit packed.
- BayerGB14: Bayer Green-Blue 14-bit.
- BayerGB14p: Bayer Green-Blue 14-bit packed.
- BayerGB16: Bayer Green-Blue 16-bit.
- BayerGB4p: Bayer Green-Blue 4-bit packed.
- BayerGB8: Bayer Green-Blue 8-bit.
- BayerGR10: Bayer Green-Red 10-bit unpacked.
- BayerGR10p: Bayer Green-Red 10-bit packed.
- BayerGR10Packed: Bayer Green-Red 10-bit packed.
- BayerGR12: Bayer Green-Red 12-bit unpacked.
- BayerGR12p: Bayer Green-Red 12-bit packed.
- BayerGR12Packed: Bayer Green-Red 12-bit packed.
- BayerGR14: Bayer Green-Red 14-bit.



- BayerGR14p: Bayer Green-Red 14-bit packed.
- BayerGR16: Bayer Green-Red 16-bit.
- BayerGR4p: Bayer Green-Red 4-bit packed.
- BayerGR8: Bayer Green-Red 8-bit.
- BayerRG10: Bayer Red-Green 10-bit unpacked.
- BayerRG10p: Bayer Red-Green 10-bit packed.
- BayerRG10Packed: Bayer Red-Green 10-bit packed.
- BayerRG12: Bayer Red-Green 12-bit unpacked.
- BayerRG12p: Bayer Red-Green 12-bit packed.
- BayerRG12Packed: Bayer Red-Green 12-bit packed.
- BayerRG14: Bayer Red-Green 14-bit.
- BayerRG14p: Bayer Red-Green 14-bit packed.
- BayerRG16: Bayer Red-Green 16-bit.
- BayerRG4p: Bayer Red-Green 4-bit packed.
- BayerRG8: Bayer Red-Green 8-bit.
- BGR10: Blue-Green-Red 10-bit unpacked.
- BGR10p: Blue-Green-Red 10-bit packed.
- BGR12: Blue-Green-Red 12-bit unpacked.
- BGR12p: Blue-Green-Red 12-bit packed.
- BGR14: Blue-Green-Red 14-bit unpacked.
- BGR16: Blue-Green-Red 16-bit.
- BGR565p: Blue-Green-Red 5/6/5-bit packed.
- BGR8: Blue-Green-Red 8-bit.
- BGR8a32: BGR8a32.
- BGRa10: Blue-Green-Red-alpha 10-bit unpacked.
- BGRa10p: Blue-Green-Red-alpha 10-bit packed.
- BGRa12: Blue-Green-Red-alpha 12-bit unpacked.
- BGRa12p: Blue-Green-Red-alpha 12-bit packed.
- BGRa14: Blue-Green-Red-alpha 14-bit unpacked.
- BGRa16: Blue-Green-Red-alpha 16-bit.
- BGRa8: Blue-Green-Red-alpha 8-bit.
- BiColorBGRG10: Bi-color Blue/Green Red/Green 10-bit unpacked.
- BiColorBGRG10p: Bi-color Blue/Green Red/Green 10-bit packed.
- BiColorBGRG12: Bi-color Blue/Green Red/Green 12-bit unpacked.
- BiColorBGRG12p: Bi-color Blue/Green Red/Green 12-bit packed.
- BiColorBGRG8: Bi-color Blue/Green Red/Green 8-bit.



- **BiColorRGBG10**: Bi-color Red/Green Blue/Green 10-bit unpacked.
- BiColorRGBG10p: Bi-color Red/Green Blue/Green 10-bit packed.
- BiColorRGBG12: Bi-color Red/Green Blue/Green 12-bit unpacked.
- BiColorRGBG12p: Bi-color Red/Green Blue/Green 12-bit packed.
- BiColorRGBG8: Bi-color Red/Green Blue/Green 8-bit.
- Confidence1: Confidence 1-bit unpacked.
- Confidence16: Confidence 16-bit.
- Confidence1p: Confidence 1-bit packed.
- Confidence32f: Confidence 32-bit floating point.
- Confidence8: Confidence 8-bit.
- Coord3D_A10p: 3D coordinate A 10-bit packed.
- Coord3D_A12p: 3D coordinate A 12-bit packed.
- Coord3D_A16: 3D coordinate A 16-bit.
- Coord3D_A32f: 3D coordinate A 32-bit floating point.
- Coord3D_A8: 3D coordinate A 8-bit.
- Coord3D_ABC10p: 3D coordinate A-B-C 10-bit packed.
- Coord3D_ABC10p_Planar: 3D coordinate A-B-C 10-bit packed planar.
- Coord3D_ABC12p: 3D coordinate A-B-C 12-bit packed.
- Coord3D_ABC12p_Planar: 3D coordinate A-B-C 12-bit packed planar.
- Coord3D_ABC16: 3D coordinate A-B-C 16-bit.
- Coord3D_ABC16_Planar: 3D coordinate A-B-C 16-bit planar.
- Coord3D_ABC32f: 3D coordinate A-B-C 32-bit floating point.
- Coord3D_ABC32f_Planar: 3D coordinate A-B-C 32-bit floating point planar.
- Coord3D_ABC8: 3D coordinate A-B-C 8-bit.
- Coord3D_ABC8_Planar: 3D coordinate A-B-C 8-bit planar.
- Coord3D_AC10p: 3D coordinate A-C 10-bit packed.
- Coord3D_AC10p_Planar: 3D coordinate A-C 10-bit packed planar.
- Coord3D_AC12p: 3D coordinate A-C 12-bit packed.
- Coord3D_AC12p_Planar: 3D coordinate A-C 12-bit packed planar.
- Coord3D_AC16: 3D coordinate A-C 16-bit.
- Coord3D_AC16_Planar: 3D coordinate A-C 16-bit planar.
- Coord3D_AC32f: 3D coordinate A-C 32-bit floating point.
- Coord3D_AC32f_Planar: 3D coordinate A-C 32-bit floating point planar.
- Coord3D_AC8: 3D coordinate A-C 8-bit.
- Coord3D_AC8_Planar: 3D coordinate A-C 8-bit planar.
- Coord3D_B10p: 3D coordinate B 10-bit packed.



- Coord3D_B12p: 3D coordinate B 12-bit packed.
- Coord3D_B16: 3D coordinate B 16-bit.
- Coord3D_B32f: 3D coordinate B 32-bit floating point.
- Coord3D_B8: 3D coordinate B 8-bit.
- Coord3D_C10p: 3D coordinate C 10-bit packed.
- Coord3D_C12p: 3D coordinate C 12-bit packed.
- Coord3D_C16: 3D coordinate C 16-bit.
- Coord3D_C32f: 3D coordinate C 32-bit floating point.
- Coord3D_C8: 3D coordinate C 8-bit.
- CustomBayerBG14: CustomBayerBG14.
- CustomBayerGB14: CustomBayerGB14.
- CustomBayerGR14: CustomBayerGR14.
- CustomBayerRG14: CustomBayerRG14.
- CustomJFIF: CustomJFIF.
- G10: Green 10-bit.
- G12: Green 12-bit.
- G16: Green 16-bit.
- G8: Green 8-bit.
- Mono10: Monochrome 10-bit unpacked.
- Mono10p: Monochrome 10-bit packed.
- Mono10Packed: Monochrome 10-bit packed.
- Mono12: Monochrome 12-bit unpacked.
- Mono12p: Monochrome 12-bit packed.
- Mono12Packed: Monochrome 12-bit packed.
- Mono14: Monochrome 14-bit unpacked.
- Mono14p: Monochrome 14-bit packed.
- Mono16: Monochrome 16-bit.
- Mono1p: Monochrome 1-bit packed.
- Mono2p: Monochrome 2-bit packed.
- Mono32: Monochrome 32-bit.
- Mono4p: Monochrome 4-bit packed.
- Mono8: Monochrome 8-bit.
- Mono8s: Monochrome 8-bit signed.
- R10: Red 10-bit.
- R12: Red 12-bit.
- R16: Red 16-bit.



- **R8**: Red 8-bit.
- RGB10: Red-Green-Blue 10-bit unpacked.
- RGB10_Planar: Red-Green-Blue 10-bit unpacked planar.
- RGB10p: Red-Green-Blue 10-bit packed.
- RGB10p32: Red-Green-Blue 10-bit packed into 32-bit.
- RGB10V1Packed: Red-Green-Blue 10-bit packed variant 1.
- RGB12: Red-Green-Blue 12-bit unpacked.
- RGB12_Planar: Red-Green-Blue 12-bit unpacked planar.
- RGB12p: Red-Green-Blue 12-bit packed.
- RGB12V1Packed: Red-Green-Blue 12-bit packed variant 1.
- RGB14: Red-Green-Blue 14-bit unpacked.
- RGB16: Red-Green-Blue 16-bit.
- RGB16_Planar: Red-Green-Blue 16-bit planar.
- RGB565p: Red-Green-Blue 5/6/5-bit packed.
- RGB8: Red-Green-Blue 8-bit.
- RGB8_Planar: Red-Green-Blue 8-bit planar.
- RGB8a32: RGB8a32.
- RGBa10: Red-Green-Blue-alpha 10-bit unpacked.
- RGBa10p: Red-Green-Blue-alpha 10-bit packed.
- RGBa12: Red-Green-Blue-alpha 12-bit unpacked.
- RGBa12p: Red-Green-Blue-alpha 12-bit packed.
- RGBa14: Red-Green-Blue-alpha 14-bit unpacked.
- RGBa16: Red-Green-Blue-alpha 16-bit.
- RGBa8: Red-Green-Blue-alpha 8-bit.
- SCF1WBWG10: Sparse Color Filter #1 White-Blue-White-Green 10-bit unpacked.
- SCF1WBWG10p: Sparse Color Filter #1 White-Blue-White-Green 10-bit packed.
- SCF1WBWG12: Sparse Color Filter #1 White-Blue-White-Green 12-bit unpacked.
- SCF1WBWG12p: Sparse Color Filter #1 White-Blue-White-Green 12-bit packed.
- SCF1WBWG14: Sparse Color Filter #1 White-Blue-White-Green 14-bit unpacked.
- SCF1WBWG16: Sparse Color Filter #1 White-Blue-White-Green 16-bit unpacked.
- SCF1WBWG8: Sparse Color Filter #1 White-Blue-White-Green 8-bit.
- SCF1WGWB10: Sparse Color Filter #1 White-Green-White-Blue 10-bit unpacked.
- SCF1WGWB10p: Sparse Color Filter #1 White-Green-White-Blue 10-bit packed.
- SCF1WGWB12: Sparse Color Filter #1 White-Green-White-Blue 12-bit unpacked.
- SCF1WGWB12p: Sparse Color Filter #1 White-Green-White-Blue 12-bit packed.
- SCF1WGWB14: Sparse Color Filter #1 White-Green-White-Blue 14-bit unpacked.



- SCF1WGWB16: Sparse Color Filter #1 White-Green-White-Blue 16-bit.
- SCF1WGWB8: Sparse Color Filter #1 White-Green-White-Blue 8-bit.
- SCF1WGWR10: Sparse Color Filter #1 White-Green-White-Red 10-bit unpacked.
- SCF1WGWR10p: Sparse Color Filter #1 White-Green-White-Red 10-bit packed.
- SCF1WGWR12: Sparse Color Filter #1 White-Green-White-Red 12-bit unpacked.
- SCF1WGWR12p: Sparse Color Filter #1 White-Green-White-Red 12-bit packed.
- SCF1WGWR14: Sparse Color Filter #1 White-Green-White-Red 14-bit unpacked.
- SCF1WGWR16: Sparse Color Filter #1 White-Green-White-Red 16-bit.
- SCF1WGWR8: Sparse Color Filter #1 White-Green-White-Red 8-bit.
- SCF1WRWG10: Sparse Color Filter #1 White-Red-White-Green 10-bit unpacked.
- SCF1WRWG10p: Sparse Color Filter #1 White-Red-White-Green 10-bit packed.
- SCF1WRWG12: Sparse Color Filter #1 White-Red-White-Green 12-bit unpacked.
- SCF1WRWG12p: Sparse Color Filter #1 White-Red-White-Green 12-bit packed.
- SCF1WRWG14: Sparse Color Filter #1 White-Red-White-Green 14-bit unpacked.
- SCF1WRWG16: Sparse Color Filter #1 White-Red-White-Green 16-bit.
- SCF1WRWG8: Sparse Color Filter #1 White-Red-White-Green 8-bit.
- YCbCr10_CbYCr: YCbCr 4:4:4 10-bit unpacked.
- YCbCr10p_CbYCr: YCbCr 4:4:4 10-bit packed.
- YCbCr12_CbYCr: YCbCr 4:4:4 12-bit unpacked.
- YCbCr12p_CbYCr: YCbCr 4:4:4 12-bit packed.
- YCbCr2020_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.2020.
- YCbCr2020_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.2020.
- YCbCr2020_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.2020.
- YCbCr2020_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.2020.
- YCbCr2020_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.2020.
- YCbCr2020_422_10: YCbCr 4:2:2 10-bit unpacked BT.2020.
- YCbCr2020_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.2020.
- YCbCr2020_422_10p: YCbCr 4:2:2 10-bit packed BT.2020.
- YCbCr2020_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.2020.
- YCbCr2020_422_12: YCbCr 4:2:2 12-bit unpacked BT.2020.
- YCbCr2020_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.2020.
- YCbCr2020_422_12p: YCbCr 4:2:2 12-bit packed BT.2020.
- YCbCr2020_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.2020.
- YCbCr2020_422_8: YCbCr 4:2:2 8-bit BT.2020.
- YCbCr2020_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.2020.
- YCbCr2020_8_CbYCr: YCbCr 4:4:4 8-bit BT.2020.



- YCbCr411_8: YCbCr 4:1:1 8-bit.
- YCbCr411_8_CbYYCrYY: YCbCr 4:1:1 8-bit.
- YCbCr420_8_YY_CbCr_Semiplanar: YCbCr 4:2:0 8-bit YY/CbCr Semiplanar.
- YCbCr420_8_YY_CrCb_Semiplanar: YCbCr 4:2:0 8-bit YY/CrCb Semiplanar.
- YCbCr422_10: YCbCr 4:2:2 10-bit unpacked.
- YCbCr422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked.
- YCbCr422_10p: YCbCr 4:2:2 10-bit packed.
- YCbCr422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed.
- YCbCr422_12: YCbCr 4:2:2 12-bit unpacked.
- YCbCr422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked.
- YCbCr422_12p: YCbCr 4:2:2 12-bit packed.
- YCbCr422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed.
- YCbCr422_8: YCbCr 4:2:2 8-bit.
- YCbCr422_8_CbYCrY: YCbCr 4:2:2 8-bit.
- YCbCr422_8_YY_CbCr_Semiplanar: YCbCr 4:2:2 8-bit YY/CbCr Semiplanar.
- YCbCr422_8_YY_CrCb_Semiplanar: YCbCr 4:2:2 8-bit YY/CrCb Semiplanar.
- YCbCr601_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.601.
- YCbCr601_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.601.
- YCbCr601_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.601.
- YCbCr601_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.601.
- YCbCr601_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.601.
- YCbCr601_422_10: YCbCr 4:2:2 10-bit unpacked BT.601.
- YCbCr601_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.601.
- YCbCr601_422_10p: YCbCr 4:2:2 10-bit packed BT.601.
- YCbCr601_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.601.
- YCbCr601_422_12: YCbCr 4:2:2 12-bit unpacked BT.601.
- YCbCr601_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.601.
- YCbCr601_422_12p: YCbCr 4:2:2 12-bit packed BT.601.
- YCbCr601_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.601.
- YCbCr601_422_8: YCbCr 4:2:2 8-bit BT.601.
- YCbCr601_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.601.
- YCbCr601_8_CbYCr: YCbCr 4:4:4 8-bit BT.601.
- YCbCr709_10_CbYCr: YCbCr 4:4:4 10-bit unpacked BT.709.
- YCbCr709_10p_CbYCr: YCbCr 4:4:4 10-bit packed BT.709.
- YCbCr709_12_CbYCr: YCbCr 4:4:4 12-bit unpacked BT.709.
- YCbCr709_12p_CbYCr: YCbCr 4:4:4 12-bit packed BT.709.



- YCbCr709_411_8_CbYYCrYY: YCbCr 4:1:1 8-bit BT.709.
- YCbCr709_422_10: YCbCr 4:2:2 10-bit unpacked BT.709.
- YCbCr709_422_10_CbYCrY: YCbCr 4:2:2 10-bit unpacked BT.709.
- YCbCr709_422_10p: YCbCr 4:2:2 10-bit packed BT.709.
- YCbCr709_422_10p_CbYCrY: YCbCr 4:2:2 10-bit packed BT.709.
- YCbCr709_422_12: YCbCr 4:2:2 12-bit unpacked BT.709.
- YCbCr709_422_12_CbYCrY: YCbCr 4:2:2 12-bit unpacked BT.709.
- YCbCr709_422_12p: YCbCr 4:2:2 12-bit packed BT.709.
- YCbCr709_422_12p_CbYCrY: YCbCr 4:2:2 12-bit packed BT.709.
- YCbCr709_422_8: YCbCr 4:2:2 8-bit BT.709.
- YCbCr709_422_8_CbYCrY: YCbCr 4:2:2 8-bit BT.709.
- YCbCr709_8_CbYCr: YCbCr 4:4:4 8-bit BT.709.
- YCbCr8: YCbCr 4:4:4 8-bit.
- YCbCr8_CbYCr: YCbCr 4:4:4 8-bit.
- YUV411_8_UYYVYY: YUV 4:1:1 8-bit.
- YUV422_8: YUV 4:2:2 8-bit.
- YUV422_8_UYVY: YUV 4:2:2 8-bit.
- YUV422Packed: YUV422Packed.
- YUV8_UYV: YUV 4:4:4 8-bit.



BufferHeight

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \to BufferHandlingControl$	Integer	RW

Value Info

Unit: lines

Short Description

Height of the image in line-scan mode. This feature is only used in line-scan acquisition scenarios to compute PayloadSize



DeliverIncompleteImages

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \to BufferHandlingControl$	Boolean	RW

Short Description

Deliver Incomplete Images.



4.6. GigEVision Category

GevPacketResend	
SetPacketSizeToMaximum	
FilterDriverEnable	



GevPacketResend

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → GigEVision	Boolean	Imposed: RO

Short Description

Gev Packet Resend.



SetPacketSizeToMaximum

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root → GigEVision	Command	Imposed: WO

Short Description

Send test packets to figure out maximum packet size for this stream and save the highest working size into GevSCPSPacketSize.





FilterDriverEnable

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow GigEVision	Boolean	RW

Short Description

Toggle reception of data through filter driver.



4.7. StreamControl Category

StreamReset	
ActivateCic	
DeactivateCic	



StreamReset

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow StreamControl$	Command	Imposed: WO

Short Description

Stream Reset.





ActivateCic

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow StreamControl$	Command	Imposed: WO

Short Description

Activate the Camera and Illumination Controller if the data stream was started with ACQ_START_FLAGS_CUSTOM_DO_NOT_ACTIVATE_SEQUENCER.



DeactivateCic

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow StreamControl$	Command	Imposed: WO

Short Description

Deactivate the Camera and Illumination Controller.



4.8. EventControl Category

EventSelector	. 179
EventNotification	. 180
EventNotificationContext1	181
EventNotificationContext2	182
EventNotificationContext3	183
EventCount	. 184
EventCountReset	. 185



EventSelector

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow EventControl	Enumeration	RW

Short Description

Select an event.

Selected Features

- "EventNotification" on page 180
- "EventNotificationContext1" on page 181
- "EventNotificationContext2" on page 182
- "EventNotificationContext3" on page 183
- "EventCount" on page 184
- "EventCountReset" on page 185

Enumeration Values

- LostFrames: Frames never received. Cause unknown.
- CancelledFrames: Frames never sent by the camera.
- IncompleteFrame: Frames delivered while there are still missing packets.
- Failure: Fatal error that terminated acquisition.



EventNotification

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow EventControl$	Boolean	RW

Short Description

Activate or deactivate the notification to the host application of the occurrence of the selected event.


EventNotificationContext1

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow EventControl$	Enumeration	RW

Short Description

Select context information reported in EVENT_DATA_CUSTOM_CONTEXT_1.

- Nothing: No information.
- EventSpecific: Event-specific context information.
- BlockIDIo: GVSP Block identifier (lower half).
- BlockIDhi: GVSP Block identifier (higher half).



EventNotificationContext2

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow EventControl$	Enumeration	RW

Short Description

Select context information reported in EVENT_DATA_CUSTOM_CONTEXT_2.

- Nothing: No information.
- EventSpecific: Event-specific context information.
- BlockIDIo: GVSP Block identifier (lower half).
- BlockIDhi: GVSP Block identifier (higher half).



EventNotificationContext3

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow EventControl$	Enumeration	RW

Short Description

Select context information reported in EVENT_DATA_CUSTOM_CONTEXT_3.

- Nothing: No information.
- EventSpecific: Event-specific context information.
- BlockIDIo: GVSP Block identifier (lower half).
- BlockIDhi: GVSP Block identifier (higher half).



EventCount

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow EventControl$	IntReg	RO

Register Port: StreamPort

Short Description

Number of occurrences of the selected event (32-bit counter).



EventCountReset

Feature Info

Module	Category Path	Туре	Access
Data Stream	$Root \rightarrow EventControl$	Command	Imposed: WO

Short Description

Reset the selected EventCount.



4.9. StreamStatistics Category

StatisticsSamplingSelector	
StatisticsFrameRate	
StatisticsLineRate	
StatisticsDataRate	
StatisticsStartSampling	
StatisticsStopSampling	



StatisticsSamplingSelector

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow StreamStatistics	Enumeration	RW

Description

Selects the stream statistics sampling method.

Default value: LastSecond.

Selected Features

- "StatisticsFrameRate" on page 188
- "StatisticsLineRate" on page 189
- "StatisticsDataRate" on page 190

- LastSecond: During the last second.
- LastTenSeconds: During the last 10 seconds.
- Last2Buffers: For the last 2 buffers.
- Last10Buffers: For the last 10 buffers.
- Last100Buffers: For the last 100 buffers.
- Last1000Buffers: For the last 1000 buffers.
- LastAcquisition: During the last acquisition activity period. Namely since the last DSStartAcquisition() function call until now, if the acquisition is still active otherwise until the last DSStopAcquisition() function call.
- Custom: Custom sampling using StatisticsStartSampling and StatisticsStopSampling commands.



StatisticsFrameRate

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow StreamStatistics	FloatReg	RO

Register Port: StreamPort

Value Info

Unit: Fps (Frames per second)

Description

Average frame delivery rate using the selected sampling method.



This feature is only available for area-scan firmware variants.

P

NOTE

The statistics measures the frame rate at the level of the PCI Express interface, NOT at the level of the CoaXPress interface!



StatisticsLineRate

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow StreamStatistics	FloatReg	RO

Register Port: StreamPort

Value Info

Unit: Lps (Lines per second)

Description

Average line delivery rate using the selected sampling method.

This feature is only available for line-scan firmware variants.



NOTE

NOTE

The statistics measures the line rate at the level of the PCI Express interface, NOT at the level of the CoaXPress interface!



StatisticsDataRate

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow StreamStatistics	FloatReg	RO

Register Port: StreamPort

Value Info

Unit: MBps (Megabytes per second)

Short Description

Get the average PCI data delivery rate using the selected sampling method.



StatisticsStartSampling

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow StreamStatistics	Command	Imposed: WO

Short Description

Start sampling the stream data. Applies only when StatisticsSamplingSelector = Custom.



StatisticsStopSampling

Feature Info

Module	Category Path	Туре	Access
Data Stream	Root \rightarrow StreamStatistics	Command	Imposed: WO

Short Description

Stop sampling the stream data. Applies only when StatisticsSamplingSelector = Custom.