

## List of supported camera features

This camera model supports the following GenICam standard features. More information on these features can be found in the GenICam™ Standard Features Naming Convention under <http://www.emva.org/standards-technology/genicam/genicam-downloads/>.

### DeviceControl

Name	Description	Values
Device Reset	Resets the device to its power up state.	
Device Vendor Name	Name of the manufacturer of the device.	
Device Model Name	Model of the device.	
Device Family Name	Identifier of the product family of the device.	
Device Manufacturer Info	Manufacturer information about the device.	
Device Firmware Version	Version of the firmware in the device.	
Device User ID	User-programmable device identifier.	
Device Character Set	Character set used by the strings of the device's bootstrap registers.	UTF 8 ASCII
Device Stream Channel Packet Size	Specifies the stream packet size, in bytes, to send on the selected channel for a Transmitter or specifies the maximum packet size supported by a receiver.	
TestPendingAck	TestPendingAck	
Device Link Heartbeat Timeout	Controls the current heartbeat timeout of the specific Link.	

## AcquisitionControl

Name	Description	Values
Acquisition Mode	Sets the acquisition mode of the device. It defines mainly the number of frames to capture during an acquisition and the way the acquisition stops.	Single Frame Multi Frame Continuous
Acquisition Frame Count	Number of frames to acquire in MultiFrame Acquisition mode.	
Acquisition Start	Starts the Acquisition of the device. The number of frames captured is specified by AcquisitionMode.	
Acquisition Stop	Stops the Acquisition of the device at the end of the current Frame. It is mainly used when AcquisitionMode is Continuous but can be used in any acquisition mode.	
Exposure Mode	Sets the operation mode of the Exposure (or shutter).	Timed
Exposure Time	Sets the Exposure time when ExposureMode is Timed and ExposureAuto is Off. This controls the duration where the photosensitive cells are exposed to light.	
Acquisition Frame Rate	Controls the acquisition rate (in Hertz) at which the frames are captured.	
Trigger Selector	Selects the type of trigger to configure.	Exposure Start
Trigger Mode	Controls if the selected trigger is active.	Off On
Trigger Source	Specifies the internal signal or physical input Line to use as the trigger source. The selected trigger must have its TriggerMode set to On.	Software Line 0 Line 2 Line 3 User Output 0 User Output 1 User Output 2 User Output 3
Trigger Activation	Specifies the activation mode of the trigger.	Rising Edge Falling Edge Any Edge
Trigger Software	Generates an internal trigger. TriggerSource must be set to Software.	

## GigE Vision

Name	Description	Values
Gev MAC Address	MAC address of the logical link.	
Gev Current IP Configuration Persistent IP	Controls whether the PersistentIP configuration scheme is activated on the given logical link.	
Gev Current IP Configuration LLA	Controls whether the Link Local Address IP configuration scheme is activated on the given logical link.	
Gev Current IP Configuration DHCP	Controls whether the DHCP IP configuration scheme is activated on the given logical link.	
Gev Current IP Address	Reports the IP address for the given logical link.	
Gev Current Subnet Mask	Reports the subnet mask of the given logical link.	
Gev Current Default Gateway	Reports the default gateway IP address to be used on the given logical link.	
Gev Persistent IP Address	Controls the Persistent IP address for this logical link. It is only used when the device boots with the Persistent IP configuration scheme.	
Gev Persistent Subnet Mask	Controls the Persistent subnet mask associated with the Persistent IP address on this logical link. It is only used when the device boots with the Persistent IP configuration scheme.	
Gev Persistent Default Gateway	Controls the persistent default gateway for this logical link. It is only used when the device boots with the Persistent IP configuration scheme. Visibility	
Gev MCDA	Controls the destination IP address for the message channel.	
Gev MCTT	Provides the transmission timeout value in milliseconds.	
Gev MCRC	Controls the number of retransmissions allowed when a message channel message times out.	
Gev MCSP	This feature indicates the source port for the message channel.	
Gev SCDA	Controls the destination IP address of the selected stream channel to which a GVSP transmitter must send data stream or the destination IP address from which a GVSP receiver may receive data stream.	

## TestControl

Name	Description	Values
TestEventGenerate	Generates a Test Event.	

ImageFormatControl

Name	Description	Values
Sensor Width	Effective width of the sensor in pixels.	
Sensor Height	Effective height of the sensor in pixels.	
Width Max	Maximum width of the image (in pixels). The dimension is calculated after horizontal binning, decimation or any other function changing the horizontal dimension of the image.	
Height Max	Maximum height of the image (in pixels). This dimension is calculated after vertical binning, decimation or any other function changing the vertical dimension of the image	
Width	Width of the image provided by the device (in pixels).	
Height	Height of the image provided by the device (in pixels).	
Offset X	Horizontal offset from the origin to the region of interest (in pixels).	
Offset Y	Vertical offset from the origin to the region of interest (in pixels).	
Test Pattern	Selects the type of test pattern that is generated by the device as image source.	Off Grey Horizontal Ramp SequencePattern1 SequencePattern2 White (FPGA) VerticalGrayscale (FPGA) Chessboard (FPGA) Black (FPGA) Grayscale (FPGA) Framecount (FPGA)
Decimation Horizontal	Horizontal sub-sampling of the image. This reduces the horizontal resolution (width) of the image by the specified horizontal decimation factor.	
Decimation Vertical	Vertical sub-sampling of the image. This reduces the vertical resolution (height) of the image by the specified vertical decimation factor.	
Pixel Format	Format of the pixels provided by the device. It represents all the information provided by PixelCoding, PixelSize, PixelColorFilter combined in a single feature.	BayerRG8 BayerRG10 BayerRG12
Pixel Color Filter	Type of color filter that is applied to the image.	None BayerRG BayerGB BayerGR BayerBG

### TransportLayerControl

Name	Description	Values
Payload Size	Provides the number of bytes transferred for each image or chunk on the stream channel. This includes any end-of-line, end-of-frame statistics or other stamp data. This is the total size of data payload for a data block.	

### DigitalIOControl

Name	Description	Values
Line Selector	Selects the physical line (or pin) of the external device connector to configure.	Line 0 Line 1 Line 2 Line 3
Line Mode	Controls if the physical Line is used to Input or Output a signal.	Input Output
Line Inverter	Controls the inversion of the signal of the selected input or output Line.	
Line Status	Returns the current status of the selected input or output Line.	
Line Status All	Returns the current status of all available Line signals at time of polling in a single bitfield.	
Line Source	Selects which internal acquisition or I/O source signal to output on the selected Line. LineMode must be Output.	Off Exposure Active User Output 0 User Output 1 User Output 2 User Output 3
User Output Selector	Selects which bit of the User Output register will be set by UserOutputValue.	User Output 0 User Output 1 User Output 2 User Output 3
User Output Value	Sets the value of the bit selected by UserOutputSelector.	
User Output Value All	Sets the value of all the bits of the User Output register. It is subject to the UserOutputValueAllMask.	

## AnalogControl

Name	Description	Values
Gain Selector	Selects which Gain is controlled by the various Gain features.	Analog All Digital All Digital Red Digital Green Digital Blue AnalogAllSource
Gain	Controls the selected gain as an absolute physical value. This is an amplification factor applied to the video signal.	