



<b>Sensor</b>	Sony IMX287 CMOS Sensor
<b>Resolution</b>	0.4 MP, 728 x 544 px
<b>Frame Rate</b>	291 FPS

<b>Model SKUs</b>	<b>Chroma</b>	<b>Lens Mount</b>	<b>GigE Vision Connector</b>
TRI004S-CC	Color	C-mount	M12
TRI004S-MC	Mono	C-mount	M12

### Specifications

Sensor Properties	
Sensor Model	Sony IMX287 CMOS
Shutter Type	Global
Sensor Size	6.3 mm (Type 1/2.9")
Resolution	728 x 544 px, 0.4 MP
Pixel Size	6.9 μm (H) x 6.9 μm (V)
Framerate	291 FPS @ 0.4 MP

Physical Properties	
Dimensions	29 x 29 x 44.5 mm
Lens Mount	C-mount
Weight	67 g

Interface and Power Information	
Digital Interface	1000BASE-T GigE M12, PoE
GPIO Interface	8 pin M8 connector
Opto-Isolated I/O Ports	1 input, 1 output
Non-Isolated I/O Ports	2 bi-directional
Power Requirement	PoE (IEEE 802.3af), or 12-24 VDC external
Power Consumption	3.1W via PoE, 2.5W when powered externally

Imaging Properties	
Image Buffer	128 MB
Image Processing	Gain, gamma, black level, white balance, LUT, CCM, pixel correction, hue, saturation, color space conversion
Pixel Formats	Mono8/10/12/16, Bayer8/10/12/16, RGB8, YUV422, YUV411
Image Modes	Horizontal and vertical binning, decimation, ROI, horizontal and vertical flip
ADC	12 bit
Gain Range	0 dB to 48 dB analog and digital
Exposure Time	30 μs to 10 s

Camera Features	
User Sets	1 default and 2 custom user set
File System Size	16 MB
Chunk Data	Timestamp, frame counter, offset X/Y, width/height, exposure time, gain, black level, line status, sequencer set
Event Data	Acquisition start/end, exposure start/end, line rise/fall, error
Counter & Timer	2 counters and 2 timers
Sequencer	Exposure time, gain
Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)

Standards and Certifications	
Standard	GigE Vision v2.0
Compliance	CE, FCC, RoHS, REACH, WEEE
Storage Temperature	-30 to 60°C
Operating Temperature	-20 to 55°C ambient
Humidity	Operating: 20% ~ 80%, relative, non-condensing
Protection	IP67
Shock and Vibration	DIN EN 60068-2-27, DIN EN 60068-2-64
Warranty	3 year