



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

Model SKUs	Chroma	Lens Mount	GigE Vision Connector
PHX004S-CC	Color	C-mount	RJ45
PHX004S-MC	Mono	C-mount	RJ45
PHX004S-CNF	Color	NF-mount	RJ45
PHX004S-MNF	Mono	NF-mount	RJ45
PHX004S-CS	Color	S-mount	RJ45
PHX004S-MS	Mono	S-mount	RJ45
PHX004S-CC-IX	Color	C-mount	ix Industrial
PHX004S-MC-IX	Mono	C-mount	ix Industrial
PHX004S-CNF-IX	Color	NF-mount	ix Industrial
PHX004S-MNF-IX	Mono	NF-mount	ix Industrial
PHX004S-CS-IX	Color	S-mount	ix Industrial
PHX004S-MS-IX	Mono	S-mount	ix Industrial

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	24 x 24 x 27.35 mm
Lens Mount	C, NF, S-mount
Weight	30 g

Interface and Power Information

Digital Interface	1000BASE-T RJ45, PoE ix Industrial, PoE
GPIO Interface	8 pin JST 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	-10 to 55°C ambient
Humidity	Operating: 20% ~ 80%, relative, non-condensing
Warranty	3 year