

Allegro SONY IMX174 2.3MP



SPECIFICATIONS

Image Sensor Model	Sony Pregius IMX174
Sensor Format	1/1.2 inch
Max Resolution	1920 x 1200, 2.3MP
Max Frame Rate	54 fps (mono)
Burst Frame Rate	82 (10-bit), 64 (12-bit) fps into internal buffer (mono)
Pixel Size	5.86 x 5.86 μm
Shutter	Global
Vision Standard	GigE Vision™ Specification v1.1
Analog-to-Digital Converter	12-bit ADC
Sensor Video Data	10-bit, 12-bit digital data
Image Data Formats	YUV, YCbCr422/400, RGB8/565, processed Bayer8/10/12, Mono8/10/12, including packed
FPGA	Altera Cyclone V
On-Board Memory	256 MB
Dynamic Range	60 dB and other High Dynamic Range Modes Available
Partial Image Modes	2 x 2 Binning is supported. Programmable region of interest capability.
Gain Control	Analog Gain & Digital Gain (programmable)
Shutter Speed	Manual / One-push auto modes. Programmable from 0.03 ms to 1 sec. Longer exposure (integration) times can be supported if needed.
Synchronization	Via external trigger
Trigger Latency / Jitter	Latency TBD, Jitter +/- 0.5 microsecond
Interface Port	Gigabit Ethernet RJ45
General Purpose I/O Port	12 Pin 7 mm Push-pull connector Programmable opto-isolated trigger input 2 Programmable opto-isolated strobe outputs
Power / Voltage	Via 12 pin Push-pull connector 6 V at 2 A or USB3 connector 5 V +/- 10% at 0.9 A max
Dimensions (W x H x L)	52 x 46 x 39 mm (camera body)
Mass	140 g (without optics)
Lens Mount	C-Mount or CS-Mount
Adjustable Back Focal Length	Optional
Emissions Compliance	CE, FCC, RoHS
Operating Temperature	-0° to 50° C
Storage Temperature	-30° to 70° C
Vibration Resistance	10 G (14 Hz to 200 Hz)
LED Indicator	Status and power monitoring Dual color
Enclosure	Pre-drilled mounting holes Tripod mount available Heavy duty aluminum Sealed Sensor Cavity
Warranty	4 years – Industry leading

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