

Allegro SONY IMX253 12MP



US3
VISION

SPECIFICATIONS

Image Sensor Model	Sony Pregius IMX253
Sensor Format	1.1 inch
Max Resolution	4096 x 3000, 12MP
Max Frame Rate	33 fps (10-bit mono)
Burst Frame Rate	64 fps into internal buffer
Pixel Size	3.45 x 3.45 μm
Shutter	Global
Vision Standard	USB3 Vision™ Specification v1.0
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	72 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 modes, programmable via software, 0.03 ms to 1 sec, longer exposure (integration) times can be supported if needed
Synchronization	Via external trigger and software trigger
Trigger Latency / Jitter	Latency TBD / Jitter +/- 0.5 microsecond (to be measured)
Interface Port	USB3
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	USB3 Host Port, 5 V +/- 10% at 0.9 A max
Dimensions (W x H x L)	52 x 46 x 33 mm (camera body)
Mass	126 g (without optics)
Lens Mount	C-Mount or CS-Mount (optional)
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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