

Allegro SONY IMX253 12MP



SPECIFICATIONS

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|-------------------------------------|---|
| Image Sensor Model | Sony Pregius IMX253 |
| Sensor Format | 1.1 inch |
| Max Resolution | 4096 x 3000, 12MP |
| Max Frame Rate | 10 fps (mono) |
| Burst Frame Rate | 34 fps into internal buffer (mono) |
| Pixel Size | 3.45 x 3.45 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 | 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 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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