Atlas10™ UV

10GBASE-T with PoE+

- 200nm to 1000nm Sensitivity
- 8.1 MP, 2840 x 2840 px
- Up to 1.2 GB/s data transfer rates
- Active Sensor Alignment
- Power over Ethernet (PoE)

10GiGE+RDMA with Power over Ethernet

Atlas10 UV 8.1MP Model

Model	MP	Resolution	FPS	Sensor	Format	Pixel Size	Shutter	Lens Mount	GigE Interface
ATX081S-UC	8.1 MP	2840 x 2840 px	136.8 FPS	Sony IMX487 CMOS	11.1mm (Type 2/3")	2.74 µm	Global	C	10GBASE-T, M12

Specifications

Interface, Power, and Size Information	
Digital Interface	10GBASE-T*, 5GBASE-T, 2.5GBASE-T, 1000BASE-T, 100BASE-TX M12, PoE+ (*10GBASE-T runs in Short Reach Mode, 25m cable length max)
Transport Layer Protocol	UDP (GigE Vision), TCP, RDMA (RoCE v2)
GPIO Interface	8 pin M8 connector
Opto-isolated I/O ports	1 input, 1 output
Non-isolated I/O ports	2 bi-directional
Dimensions	55 x 55 x 95.5 mm
Lens Mount	TFL mount
Weight	304 g
Power Requirement	PoE+ (IEEE 802.3at) or 12-24 V through GPIO
Power Consumption	<12W via PoE+, 11.5W when powered externally

Standard 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
Storage Humidity	20% ~ 95%, relative, non-condensing
Shock and Vibration	DIN EN 60068-2-27, DIN EN 60068-2-64
Warranty	3 years

Imaging Properties	
Image Buffer	380 MB
Image Processing	Gain, gamma, black level, LUT, pixel correction
Pixel Formats	Mono8/10/12/16
Image Modes	Horizontal and vertical binning, decimation, ROI
ADC	8, 10, 12 bit
Frame Rate	135.6 @ 8.1 MP (8 Bit ADC mode) 136.8 @ 8.1 MP (10 Bit ADC mode) 126.1 @ 8.1 MP (12 Bit ADC mode)
Gain Range	0 dB to 48 dB analog and digital
Exposure Time	5.05 µs to 10 s (Normal) / 2.23 µs to 2.47 µs (Short Mode)
Spectrum Sensitivity	200nm - 1100nm (UV + Visible)

Camera Features	
User Sets	1 default and 2 custom
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	Exposure start/end
Counter & Timer	2 counters and 2 timers
Sequencer	Exposure time, gain (Max 8)
Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)

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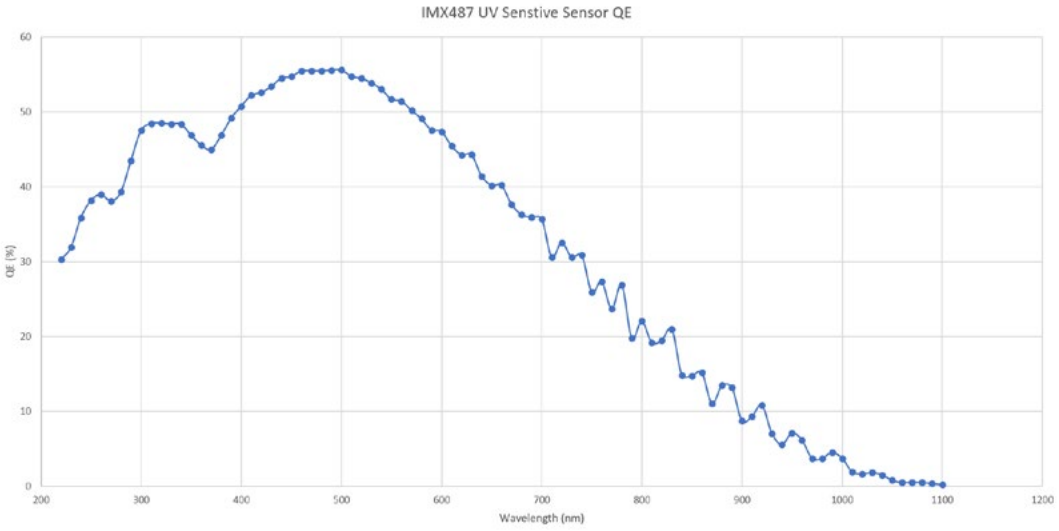
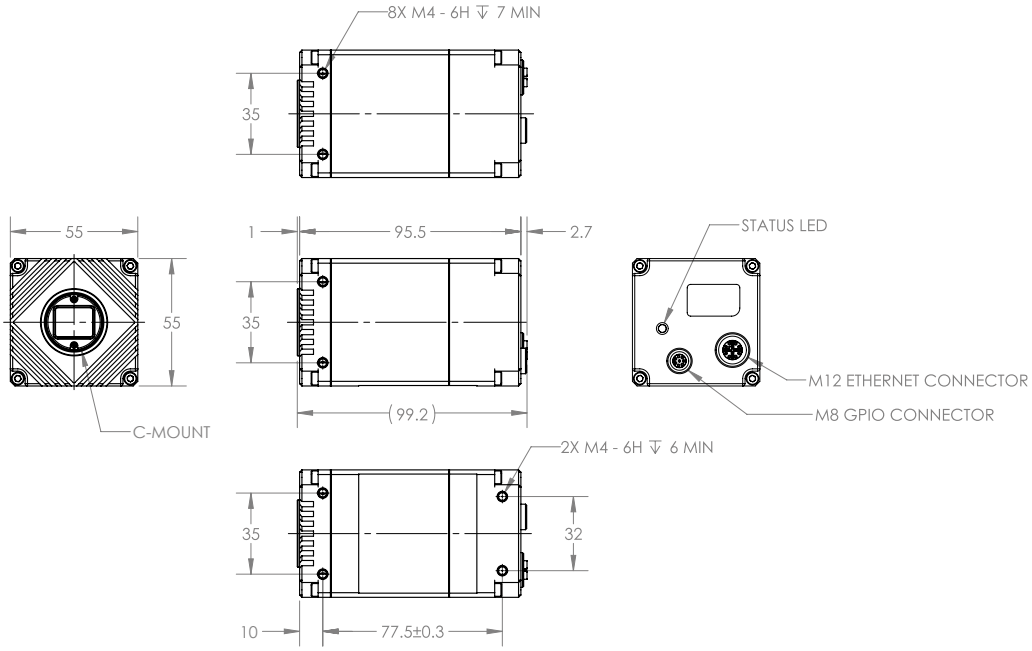


MONO EMVA 1288 RESULTS	
Dynamic Range	69.84 dB
SNR (Max)	39.85 dB
Saturation Capacity	9662 e-
Absolute Sensitivity Threshold (Measured at 527.5nm)	5.67 photons @ 527.5nm
Temporal Dark Noise	2.51 e-
Gain	0.40 DN12/e-
Dark Current	0.12 e-/s



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