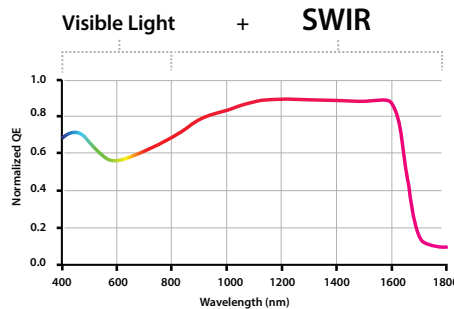


ATLAS SWIR

SWIR Camera with Visible Light Sensitivity and Integrated TEC



Specifications

Resolution	FPS	Sensor	Pixel Size	Shutter	Sensitivity Range	Lens Mount	GigE Interface
0.3 MP 640 x 512 px	256 fps	Sony IMX991 CMOS	5.0 μ m	Global	400 to 1700 nm	C-Mount	1GBASE-T, M12, PoE+
1.3 MP 1280 x 1024 px	84.9 fps	Sony IMX990 CMOS	5.0 μ m	Global	400 to 1700 nm	C-Mount	1GBASE-T, M12, PoE+

Interface, Power, and Size Information

Digital Interface	1000BASE-T, 100BASE-TX M12, PoE
GPIO Interface	8 pin M8 connector
Opto-isolated I/O ports	1 input, 1 output
Non-isolated I/O ports	2 bi-directional
Dimensions	60 x 60 x 70 mm
Lens Mount	C-Mount
Weight	300 g
Power Requirement	PoE (IEEE 802.3at), or 12-24 VDC external
Power Consumption	<12W via PoE+, 11.5W via GPIO

Standard and Certifications

Standard	GigE Vision v2.0
Compliance	CE, FCC, RoHS, REACH, WEEE
IP Rating	IP67
Storage Temperature	-30 to 60°C
Operating Temperature	-20 to 50°C Case Temperature
Humidity	Operating: 20% ~ 80%, relative, non-condensing
Storage Humidity	20% ~ 95%, relative, non-condensing
Warranty	3 years

Imaging Properties

Image Buffer	380 MB
Image Processing	Gain, gamma, black level, white balance, LUT, pixel correction, hue, saturation
Pixel Formats	Mono8/10/12/16,
Image Modes	Decimation, ROI, horizontal and vertical flip
ADC	8, 10, 12 bit
Gain Range	0 dB to 42 dB analog and digital
Exposure Time	30 μ s to 10 s

Camera Features

Cooling Capability	Delta T up to 30°C TEC up to 45°C ambient
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
Synchronization	Software trigger, hardware trigger, PTP (IEEE 1588)



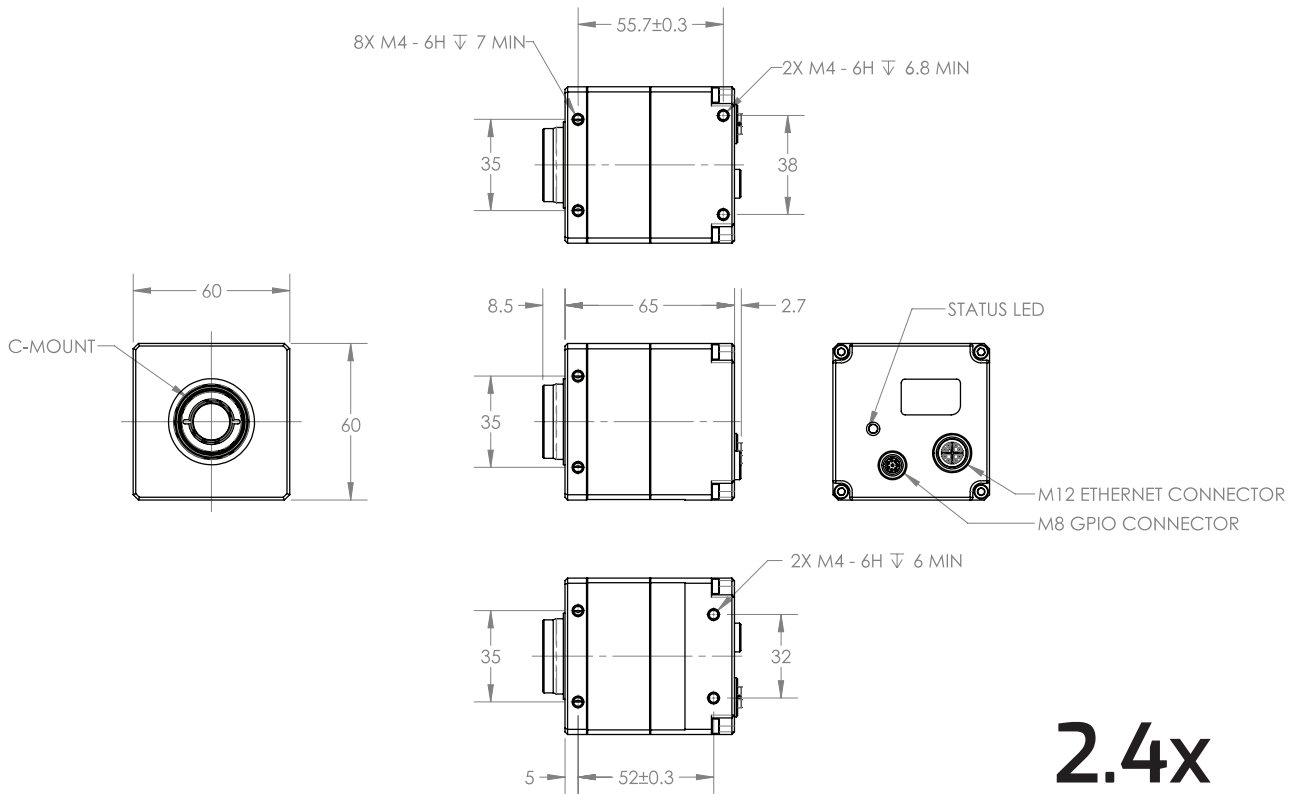
sales@thinklucid.com
www.thinklucid.com

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ATLAS SWIR



SWIR Camera with Visible Light Sensitivity and Integrated TEC



2.4x
Higher Dark Current
(Running @ 25°C, 10°C higher)

Atlas SWIR with TEC provides consistent 15°C sensor temperature for optimal image quality without additional passive or active cooling.



Relative Dark Current
with TEC @ 15°C

