Allied Vision

Goldeye G

Goldeye G-008 SWIR Cool TEC1

The Goldeye G-008 Cool TEC1 is the fastest QVGA resolution short wave infrared camera with GigE Vision interface that is optimized for scientific grade applications often requiring long exposure times. With frame rates up to 344 fps at full resolution, versatile application fields can be addressed and processes can b

General

Model	Goldeye G-008 SWIR Cool TEC1
Product series	Goldeye G
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR
Spectral range	900 nm to 1700 nm
Resolution	320 × 256 (0.08 MP)
Sensor model	Progressive scan 0.08 MP
Sensor architecture (material)	cmos-ingaas
Shutter type(s)	Global shutter (GS)
Sensor size	9.6 × 7.68 mm (12.3 mm, Type 1)
Pixel size	30.00 µm × 30.00 µm

Pixel formats

Sensor bit depth	14-bit

Timing and gain

Max. frame rate	344 fps
Exposure time	6 µs to 1 s
Gain	0.0 dB to 24.0 dB

I/Os and power

Non-isolated lines	LVTTL I/Os: 1 Input, 1 Output
Specific non-isolated lines	115 000 Baud, 8N1 (adjustable)
Opto-isolated lines	1 Input, 2 Outputs
Power supply	10.8 V to 30.0 V or via PoE
Power consumption	10.7 W (at 12 VDC), <12.95 W (PoE)

Operating conditions

Operating temperature (housing)	-20 °C to 55 °C ((housing))

Mechanical properties

Body dimensions (L x W x H in mm)	90 × 80 × 80
Weight	790 g

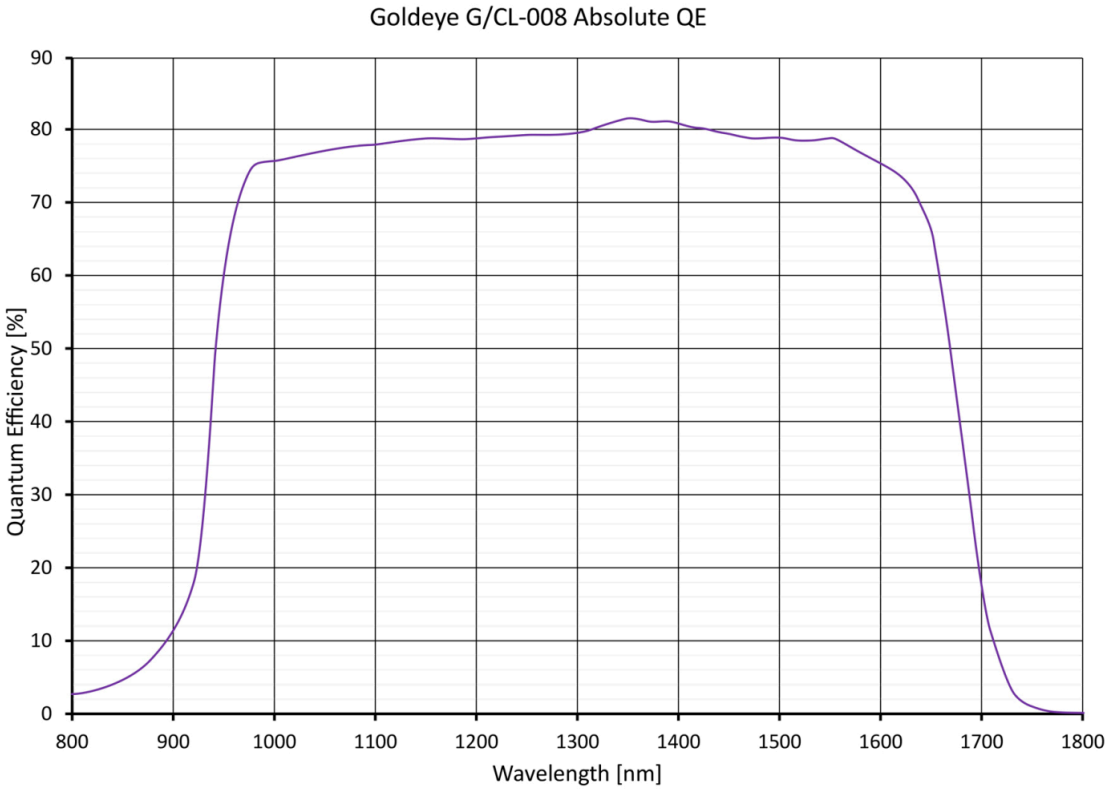
On-board memory and FPGA

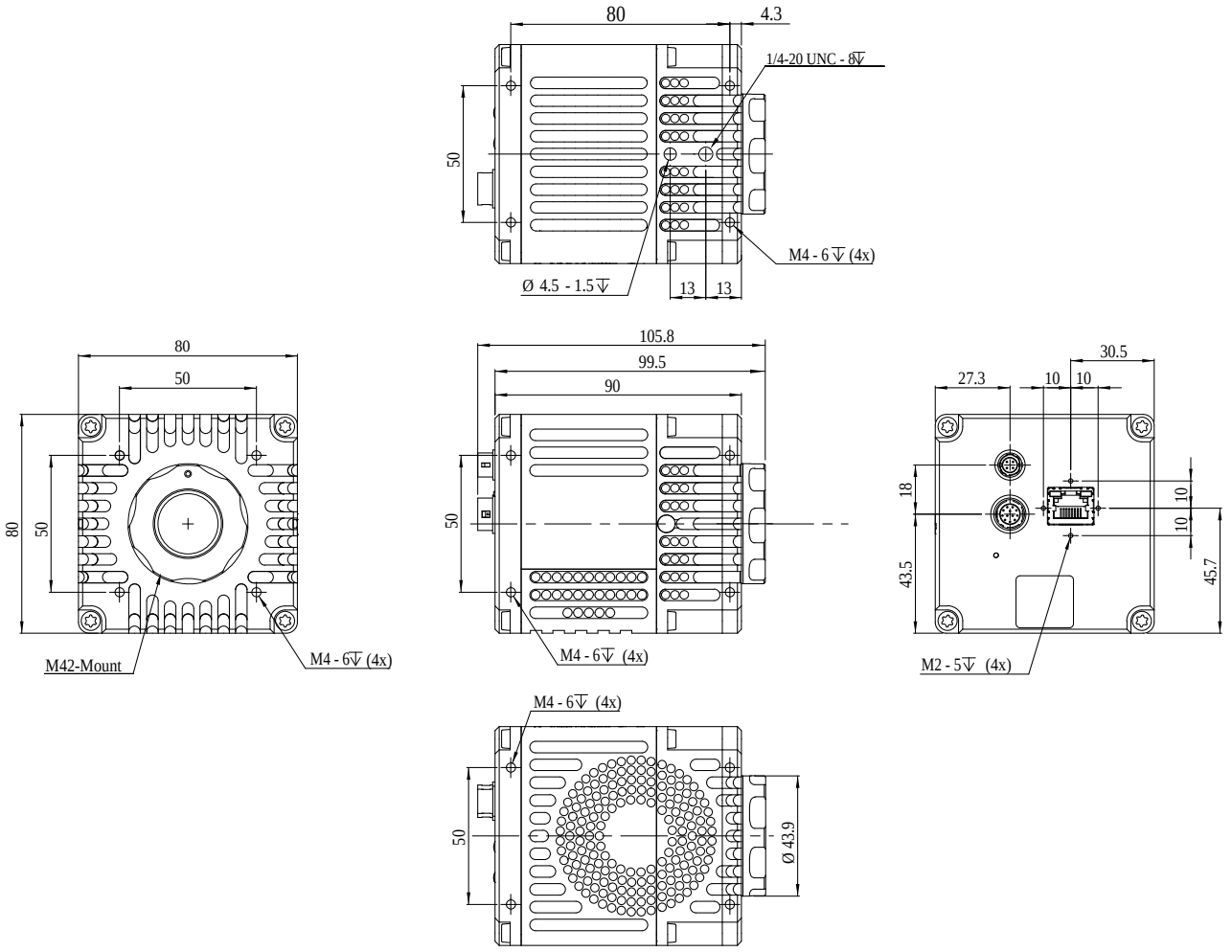
Image buffer (RAM)	256 MByte
Non-volatile memory (Flash)	262 MByte

Interfaces

Digital interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)

Quantum Efficiency



Allied Vision

Technical Drawing