Allied Vision

Goldeye G

Goldeye G-032 SWIR Cool TEC2

The Goldeye G-032 Cool TEC2 is a short-wave infrared camera that is optimized for scientific grade applications often requiring long exposure times. To enable low-noise imaging in the spectral range from 900 nm to 1700 nm the camera is equipped with a nitrogen filled cooling chamber and enables via the dual-stage therm

General

Model	Goldeye G-032 SWIR Cool TEC2
Product series	Goldeye G
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR
Spectral range	900 nm to 1700 nm
Resolution	636 × 508 (0.36 MP)
Sensor model	Progressive scan 0.36 MP
Sensor architecture (material)	cmos-ingaas
Shutter type(s)	Global shutter (GS)
Sensor size	15.9 × 12.7 mm (20.4 mm, Type 4/3)
Pixel size	25.00 µm × 25.00 µm

Pixel formats

Sensor bit depth	14-bit

Timing and gain

Max. frame rate	100 fps
Exposure time	6 µs to 1 s
Gain	0.0 dB to 34.0 dB

I/Os and power

Non-isolated lines	LVTTL I/Os: 1 Input, 1 Output
Specific non-isolated lines	115 200 Baud, 8N1 (adjustable)
Opto-isolated lines	1 Input, 2 Outputs
Power supply	10.8 V to 30.0 V or via PoE+
Power consumption	19 W (at 12 VDC), 22 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	810 g

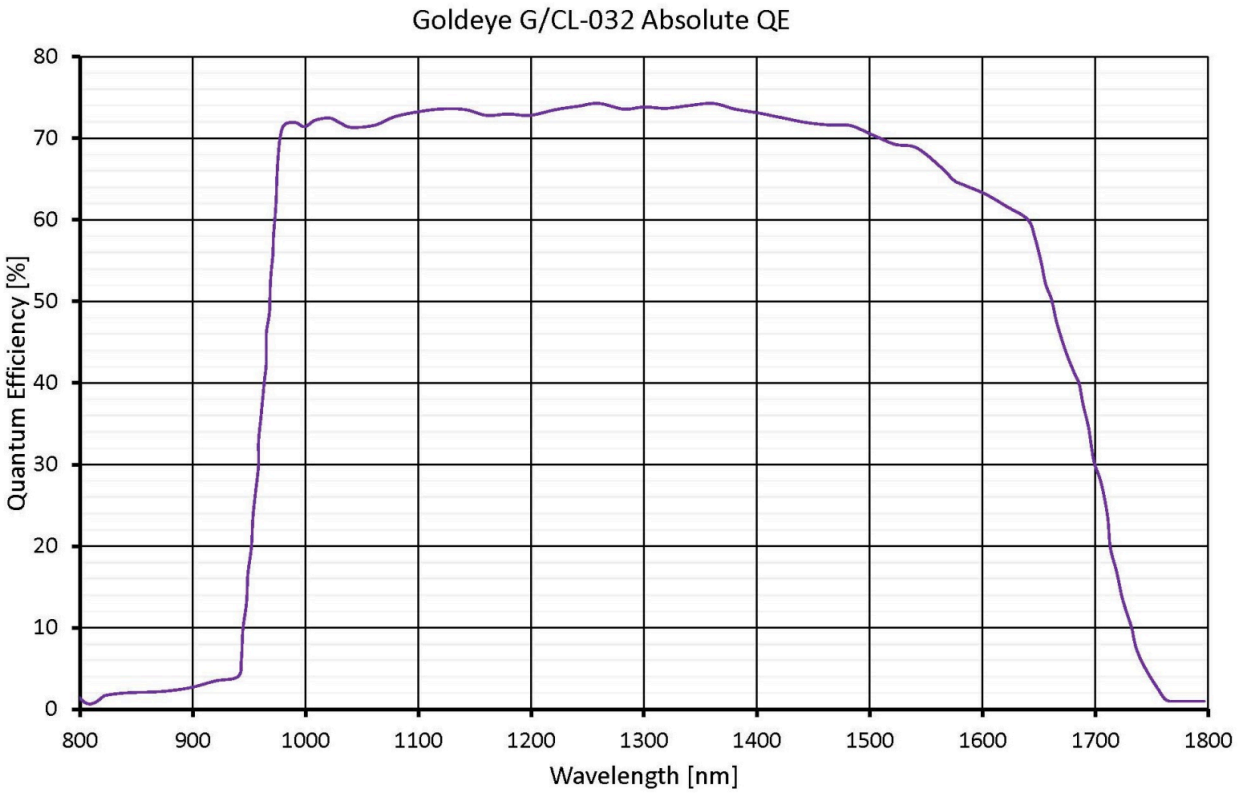
On-board memory and FPGA

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

Interfaces

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

Quantum Efficiency



Technical Drawing