



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 (0.30 MP)
Sensor model:	FPA 636 × 508 25 µm InGaAs
Sensor architecture (material):	InGaAs
Sensor size:	20.3 mm ø (20.3 mm (diagonal))
Pixel size:	25.00 µm × 25.00 µm

Pixel formats

Sensor bit depth:	8-bit to 14-bit
Monochrome pixel formats:	Mono8, Mono12, Mono12Packed, Mono14

Timing and gain

Max. frame rate:	100 fps
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I/Os and power

Non-isolated lines:	LVTTTL 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)
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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+)
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Goldeye G/CL-032 Absolute QE



