Allied Vision



Goldeye G

Goldeye G-033 SWIR TEC1

The Goldeye G-033 TEC1 high-speed camera is the fastest VGA resolution short wave infrared camera (SWIR) with GigE Vision interface. Frame rates up to 301 fps at full resolution enable you to access versatile application fields and to speed up your processes.

General

Model	Goldeye G-033 SWIR TEC1
Product series	Goldeye G
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR
Spectral range	900 nm to 1700 nm
Resolution	640 × 512 (0.33 MP)
Sensor model	Progressive scan 0.33 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	15.00 µm × 15.00 µm

Pixel formats

Sensor bit depth	14-bit

Timing and gain

Max. frame rate	301 fps
Exposure time	1 µs to 200.00 ms
Gain	0.0 dB to 33.0 dB

I/Os and power

Non-isolated lines	LVTTL I/Os: 1 input, 1 output

I/Os and power

Specific non-isolated lines	115 200 Baud, 8N1 (adjustable)
Opto-isolated lines	1 Input, 2 Outputs
Power supply	10.8 V DC to 30.0 V or via PoE
Power consumption	10.8 W (at 12 VDC), <12.95 W (PoE)

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm)	78 × 55 × 55
Weight	370 g

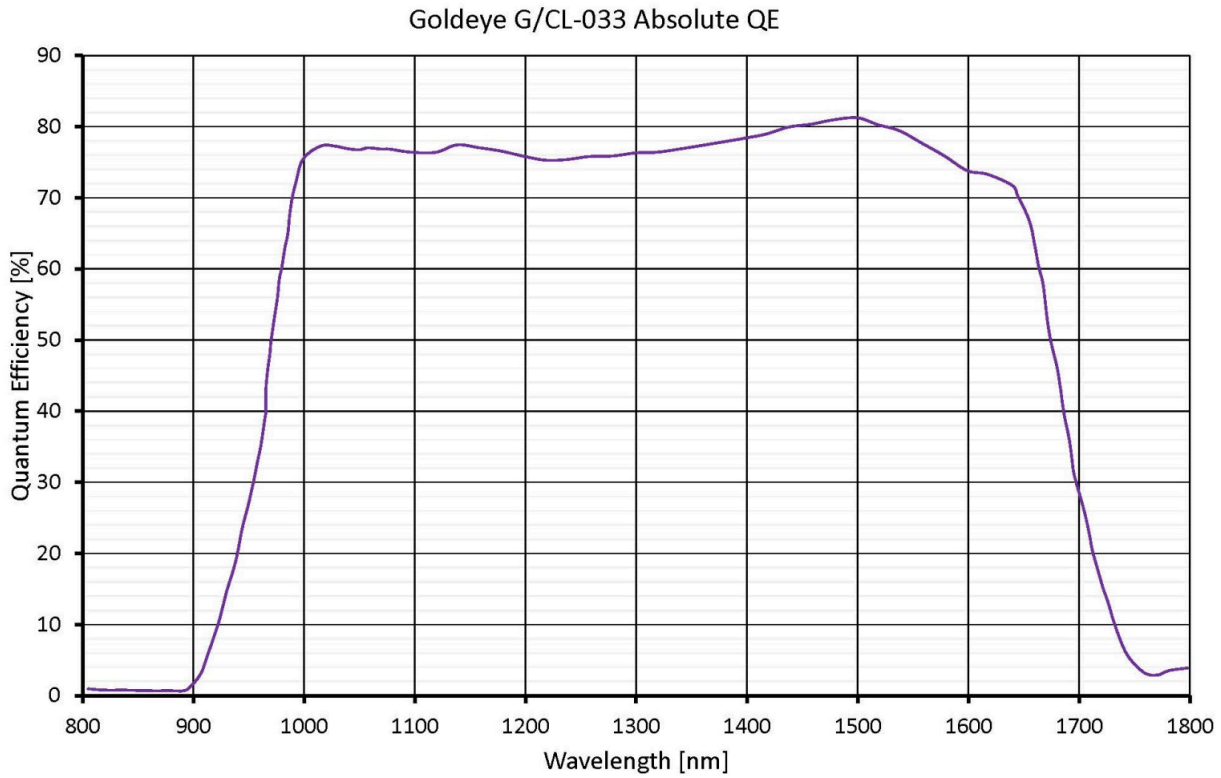
On-board memory and FPGA

Image buffer (RAM)	256 MByte

Interfaces

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

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Technical Drawing

