





Prosilica GT

1930L

- -20° C to +65° C (ambient temperature)
- PoE
- IEEE 1588 PTP
- Trigger over Ethernet
- Auto iris

Engineered for every environment

High-resolution cameras for demanding applications

Prosilica GT 1930L with Sony IMX174 runs 50.8 frames per second at 2.4 MP resolution.

The rugged housing optimized for heat dissipation makes Prosilica GT the ideal solution for harsh environments. The various lens control options allow constant adjustment of the image brightness to changing light conditions. Offering resolutions of up to 31 megapixels, they are ideal for high-definition imaging applications with demanding requirements of robustness and design-in flexibility.

Easy software integration with Allied Vision's Vimba Suite and compatibility to the most popular third party image-processing libraries.

See the Modular Concept for lens mount, housing variants, optical filters, case design, and other modular options. See the Customization and OEM Solutions webpage for additional options.

Specifications

Prosilica GT 1930L	
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	1936 (H) × 1216 (V)
Sensor	Sony IMX174
Sensor type	CMOS
Shutter mode	Global shutter
Sensor size	Type 1/1.2



Prosilica GT 1930L		
Pixel size	5.86 μm × 5.86 μm	
Lens mount (default)	EF-Mount	
Max. frame rate at full resolution	50.8 fps	
ADC	12 Bit	
Image buffer (RAM)	128 MByte	
Imaging performance Imaging performance data is based on the evaluation methods in the EMVA 1288 Release 3.1 standard for characterization of image sensors and cameras. Measurements are typical values for monochrome models measured at full resolution without optical filter.		
Quantum efficiency at 529 nm	69 %	
Temporal dark noise	6.0 e ⁻	
Saturation capacity	32600 e ⁻	
Dynamic range	73.5 dB	
Absolute sensitivity threshold	6.9 e ⁻	
Output		
Bit depth	12 Bit	
Monochrome pixel formats	Mono8, Mono12Packed, Mono12	
YUV color pixel formats	YUV411Packed, YUV422Packed, YUV444Packed	
RGB color pixel formats	RGB8Packed, BGR8Packed	
Raw pixel formats	BayerRG8, BayerRG12, BayerRG12Packed	
General purpose inputs/outputs (GPIOs)		
TTL I/Os	1 input, 2 outputs	
Opto-isolated I/Os	1 input, 2 outputs	
RS232	1	
Operating conditions/dimensions		
Operating temperature	-30 °C to +70 °C housing (without condensation)	
Power requirements (DC)	7 to 25 VDC AUX or 802.3at Type 1 PoE	
Power consumption	3.24 W at 12 VDC; 3.88 W PoE	
Mass	372 g	
Body dimensions (L × W × H in mm)	96 × 66 × 53.3 (including connectors)	

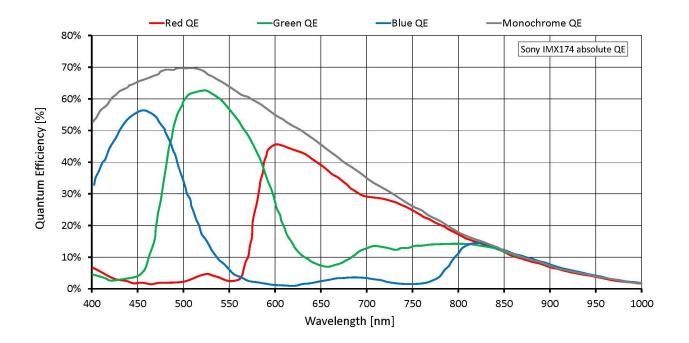


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Regulations

CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A; CAN ICES-003 Issue 4/5

Quantum efficiency



Features

Image control: Auto

- Auto exposure
- Auto gain
- Auto white balance (color models)

Image control: Other

- Binning
- Black level



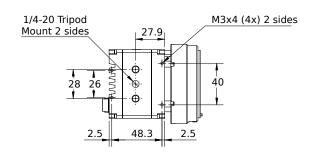
- Color transformation (incl. hue, saturation; color models)
- Decimation
- Gamma
- LUT (look-up table)
- Reverse X/Y
- ROI (region of interest)

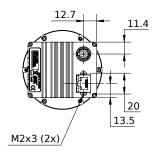
Camera control

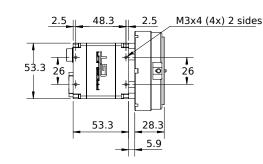
- Acquisition frame rate
- Auto iris
- Bandwidth control
- EF Mount lens control
- Event channel
- Firmware update in the field
- I/O and trigger control
- Image chunk data
- Stream hold
- · Temperature monitoring
- ToE (trigger over Ethernet, action commands)
- User sets

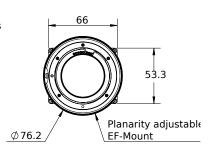


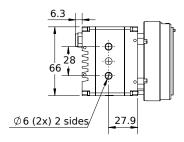
Technical drawing











Applications

Prosilica GT1930L is ideal for a wide range of applications including:

- Outdoor imaging
- Traffic imaging and Intelligent Traffic Systems
- Public security and surveillance
- Industrial inspection
- Machine vision
- Military and space applications