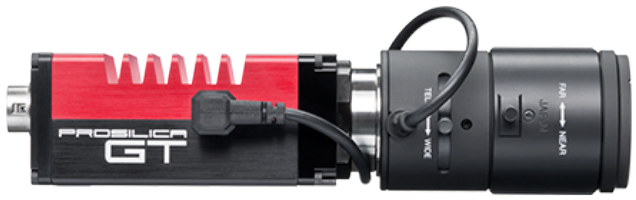
Allied Vision

Prosilica GT

1930



- Versatile temperature range for extreme environments
- Latest Sony CMOS sensor
- PTP and PoE
- P-Iris and DC-Iris lens control

Description

2.4 Megapixel CMOS camera for extreme environments - GigE Vision#

Prosilica GT1930 is a 2.4 Megapixel camera with a Gigabit Ethernet interface (GigE Vision#). Prosilica GT1930 incorporates the latest Sony IMX174 CMOS global shutter sensor providing excellent monochrome and color image quality. Prosilica GT1930 is a rugged camera designed to operate in extreme environments. Prosilica GT1930#offers Precise iris lens control allowing users to fix the aperture size to optimize depth of field, exposure, and gain without the need for additional control elements. #
Options:

- Various IR cut/pass filters

See the#Modular Concept#for lens mount, optical filters, and sensor options.

Specifications

Prosilica GT	**1930**
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	1936 × 1216
Sensor	Sony IMX174
Sensor type	CMOS Progressive
Cell size	5.86 µm x 5.86 µm
Lens mount	C-Mount, CS-Mount
Max frame rate at full resolution	50 fps
ADC	12 bit
On-board FIFO	128 Mbyte
Output	
Bit depth	12 bit

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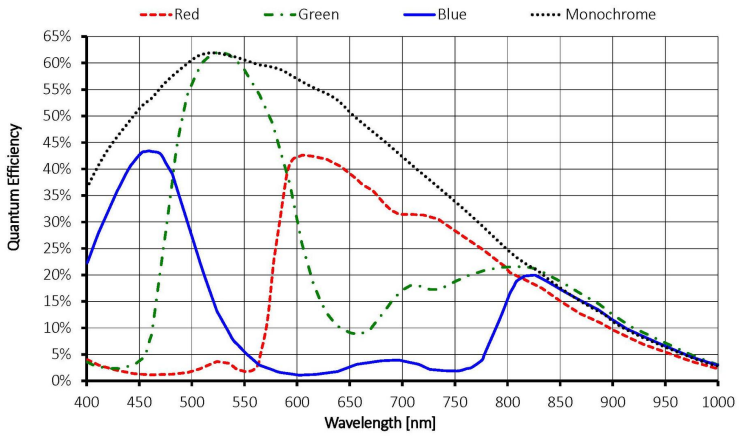
Mono modes	Mono8, Mono12Packed, Mono12
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 2 outputs
Opto-isolated I/Os	1 input, 2 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	-20°C to +65°C Housing temperature
Power requirements (DC)	PoE / 7 to 25 VDC
Power consumption (@12 V)	3.5 W (PoE) / 2.9 W @ 12 VDC
Mass	211 g
Body dimensions (L × W × H in mm)	86 × 53 × 33 (including connectors)
Regulations	CE, FCC Class A, RoHS (2011/65/EU)



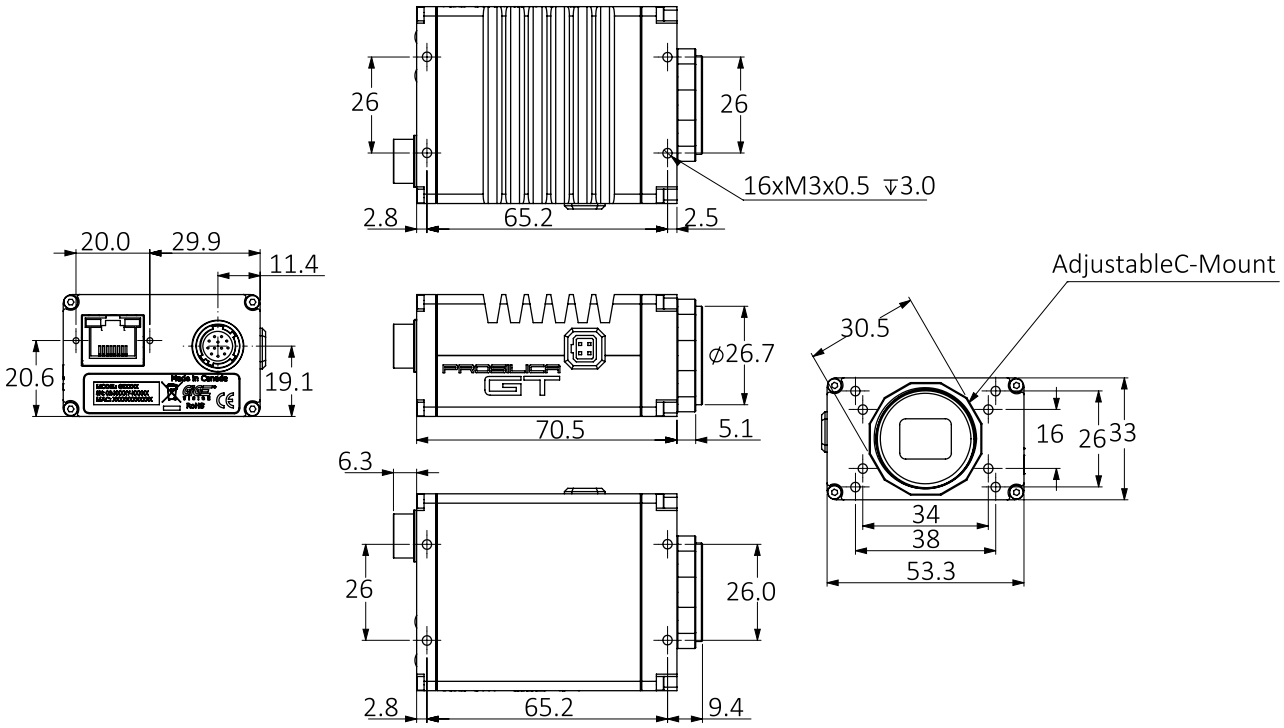
Features

Prosilica GT1930 features include:

- Precision Time Protocol (IEEE 1588)
- Camera temperature monitoring
- P-Iris and DC-Iris lens control

- ROI, separate ROI for auto features
- Binning
- Decimation
- ReverseX/Y
- Auto gain (manual gain control: 0 to 40 dB)
- Auto exposure
- Auto white balance
- LUTs (look-up tables)
- Gamma
- Hue, saturation, color correction
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Event channel
- Chunk data
- Storable user sets

Technical drawing



Applications

Prosilica GT1930 is ideal for a wide range of applications including:

- Outdoor imaging
- Traffic imaging / ITS
- Public security and surveillance
- Industrial inspection
- Machine vision
- Military and space applications