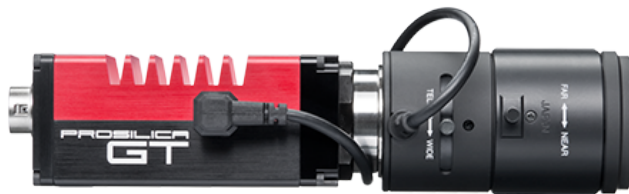# Prosilica GT
1930

- Versatile temperature range for extreme environments
- IEEE 1588 PTP
- PoE
- P-Iris and DC-Iris lens control

Description

2.4 Megapixel CMOS camera for extreme environments - GigE Vision#

Prosilica GT1930/GT1930C is a 2.4 Megapixel camera with a GigE Vision Gigabit Ethernet interface. This camera incorporates the high quality Sony IMX174 Exmor CMOS sensor with Pregius global shutter technology providing excellent monochrome and color image quality. It is a rugged camera designed to operate in extreme environments. This camera 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 optical filters#(IR cut filter/Protection glass)
- Various lens mounts

See the#Modular Concept#for lens mount and optical filter options.

Specifications

Prosilica GT	1930
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	1936 (H) × 1216 (V)
Sensor	Sony IMX174
Sensor type	CMOS
Cell size	5.86 µm x 5.86 µm
Lens mount	C-Mount
Max frame rate at full resolution	50.7 fps
ADC	12 bit
Image buffer (RAM)	128 MByte

Prosilica GT	1930
Output	
Bit depth	12 bit
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 ambient (without condensation)
Power requirements (DC)	7 to 25 VDC; PoE
Power consumption (@12 V)	2.9 W @ 12 VDC; 3.5 W PoE
Mass	211 g
Body dimensions (L × W × H in mm)	86 × 53 × 33 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES
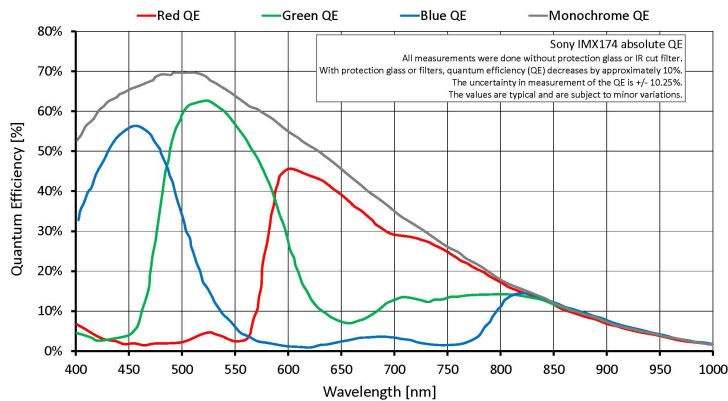
Features

Image optimization features:

- Auto gain (manual gain control: 0 to 40 dB)

- Auto exposure (manual exposure control)
- Auto white balance
- Binning (horizontal and vertical)
- BlackLevel (offset)
- Color correction, hue, saturation#(color models only)
- Decimation X/Y
- Gamma correction
- Look-up tables (LUTs)
- Region of interest (ROI), separate ROI for auto features
- Reverse X/Y

Camera control features:

- P-Iris and DC-Iris lens control
- Event channel
- Image chunk data
- IEEE 1588 Precision Time Protocol (PTP)
- RS232
- Storable user sets
- StreamBytesPerSecond (easy bandwidth control)
- StreamHold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Temperature monitoring (main board only)
- Trigger over Ethernet (ToE) Action Commands

Technical drawing
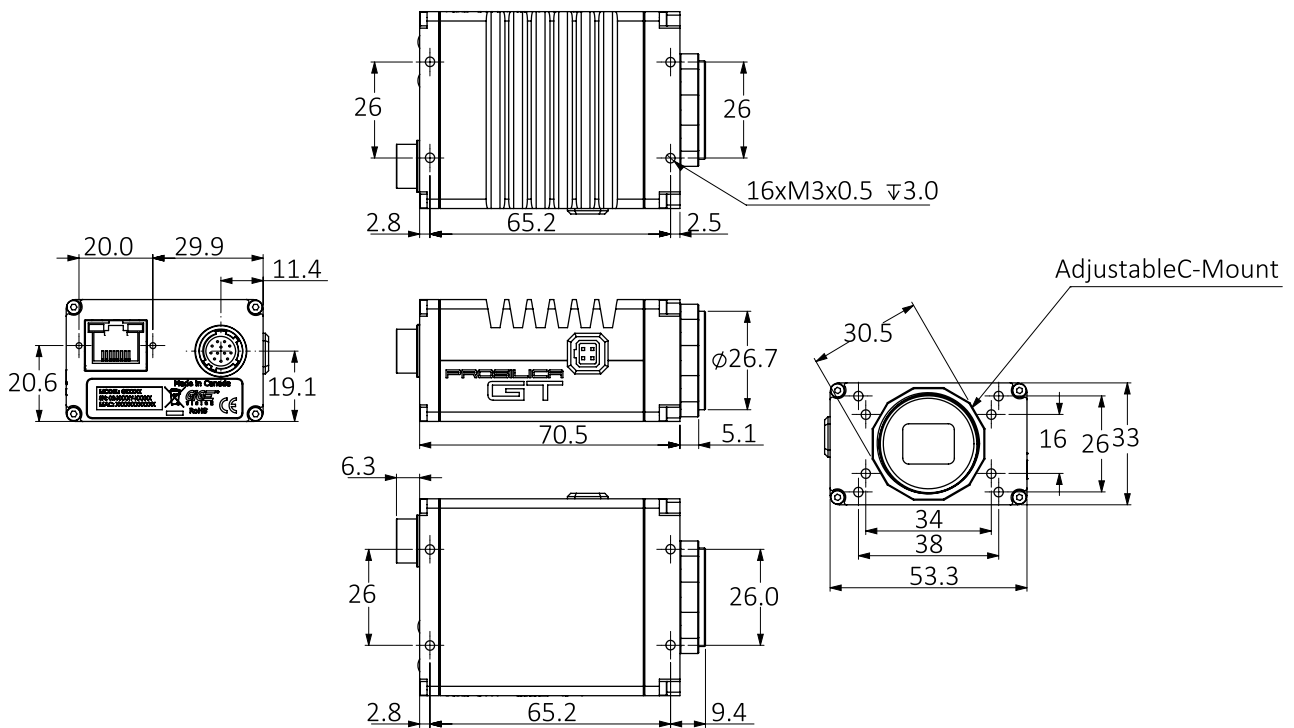
Applications

Prosilica GT1930/GT1930C is ideal for a wide range of applications including:

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