

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

Description

2.1 Megapixel CCD camera for extreme environments, fast frame rates

Prosilica GT1910/GT1910C is a 2.1 Megapixel camera with a GigE Vision compliant Gigabit Ethernet interface. This camera incorporates the high quality ON Semiconductor KAI-02150 TRUESENSE CCD sensor providing excellent image quality in High Definition resolution (1080p). It is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. It 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. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Options:

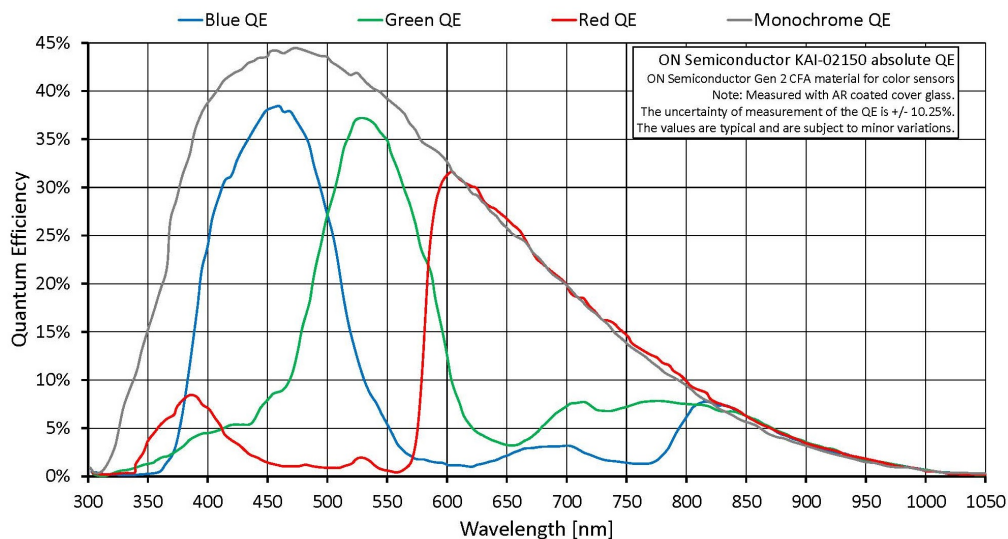
- Various IR cut/pass filters and lens mounts
- Various sensor options

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

Specifications

Prosilica GT	1910
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	1920 (H) × 1080 (V)
Sensor	ON Semi KAI-02150
Sensor type	CCD Progressive
Cell size	5.5 μm x 5.5 μm
Lens mount	C-Mount
Max frame rate at full resolution	57.5 fps
ADC	14 bit

Prosilica GT	1910
Image buffer (RAM)	128 MByte
Output	
Bit depth	14 (monochrome); 12 (color) bit
Mono modes	Mono8, Mono12, Mono12Packed, Mono14
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
Raw modes	BayerGR8, BayerGR12, BayerRG12Packed
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 +60 °C ambient (without condensation)
Power requirements (DC)	7 to 25 VDC; PoE
Power consumption (@12 V)	5.1 W @ 12VDC; 6.3 W PoE
Mass	224 g
Body dimensions (L × W × H in mm)	92 × 53.3 × 33 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



Features

Image optimization features:

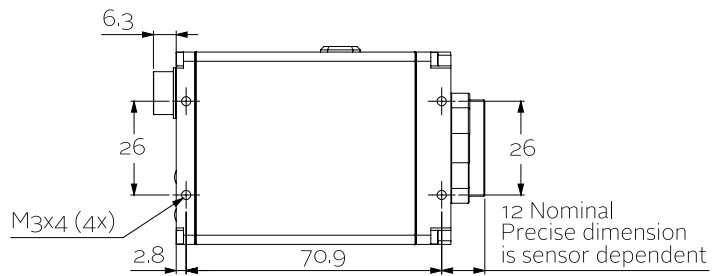
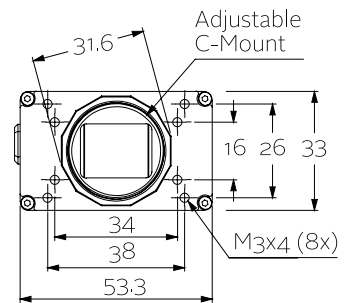
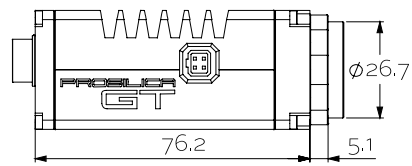
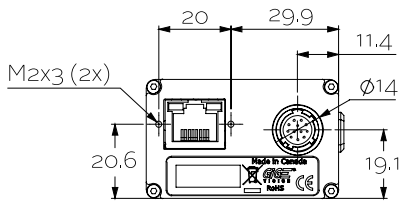
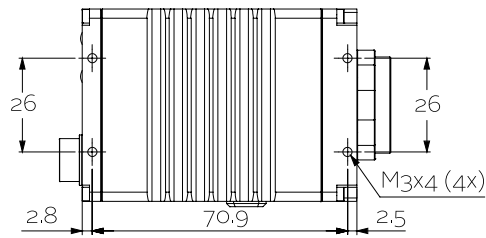


- Auto gain (manual gain control: 0 to 32 dB)
- Auto exposure (manual exposure control: 10 #s to 26.8 s)
- Auto white balance
- Binning (horizontal and vertical)
- Color correction, hue, saturation#(color models only)
- Column defect masking
- Decimation X/Y
- Gamma correction
- Look-up tables (LUTs)
- 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
- Tap mode switchable in Vimba Viewer 2.0 or later (four-tap, one-tap)
- Temperature monitoring (main board and sensor board)
- Trigger over Ethernet (ToE) Action Commands

Technical drawing





Applications

Prosilica GT1910/GT1910C 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