

Prosilica GT

1910



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

Description

2 Megapixel CCD camera for extreme environments, fast frame rates

Prosilica GT1910 is a 2 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). GT1910 incorporates OnSemi® KAI-02150 CCD sensor providing excellent image quality in High Definition resolution (1080p). GT1910 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.

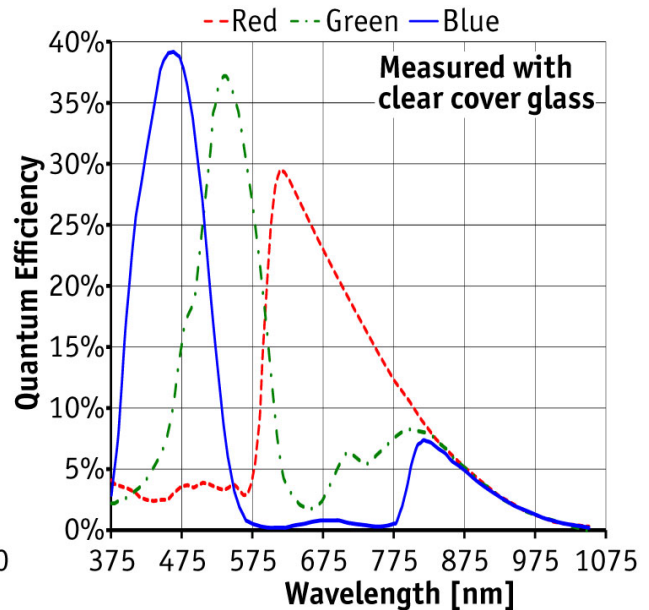
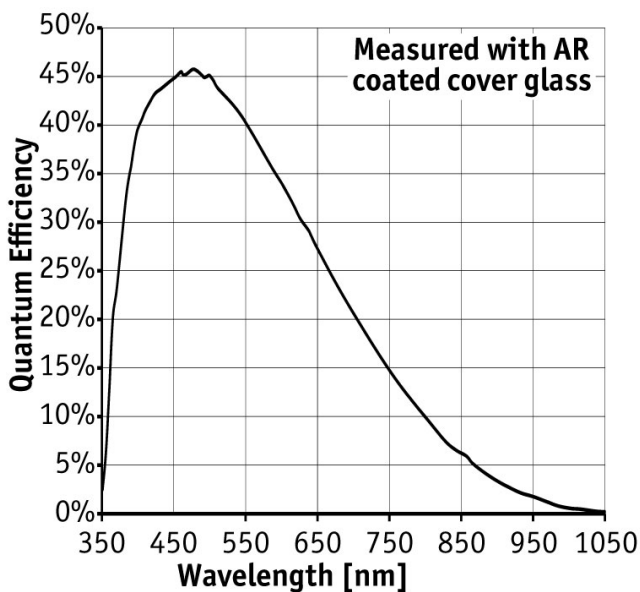
Options:

- Various IR cut/pass filters and lens mounts
- Sensor variant: Taped glass and microlens
- Sensor variant: Taped glass and no microlens

Specifications

Prosilica GT	1910
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	1920 × 1080
Sensor	OnSemi KAI-02150
Sensor type	CCD Progressive
Sensor size	Type 2/3
Cell size	5.5 µm
Lens mount	C (adjustable)
Max frame rate at full resolution	57.5 fps
ADC	14 bit
On-board FIFO	128
	Output
Bit depth	14 (mono) - 12 (color) bit

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Mono modes	Mono8, Mono12, Mono12Packed, Mono14
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
Raw modes	BayerGR8, BayerGR12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1
Opto-isolated I/Os	1 input, 2 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	-20°C ... +60°C
Power requirements (DC)	PoE, or 7-25 VDC
Power consumption (@12 V)	5.1 W @ 12VDC
Mass	224 g
Body dimensions (L × W × H in mm)	92 × 53.3 × 33 (including connectors, w/o tripod and lens)
Regulations	CE, FCC Class A, RoHS (2011/65/EU)



Features

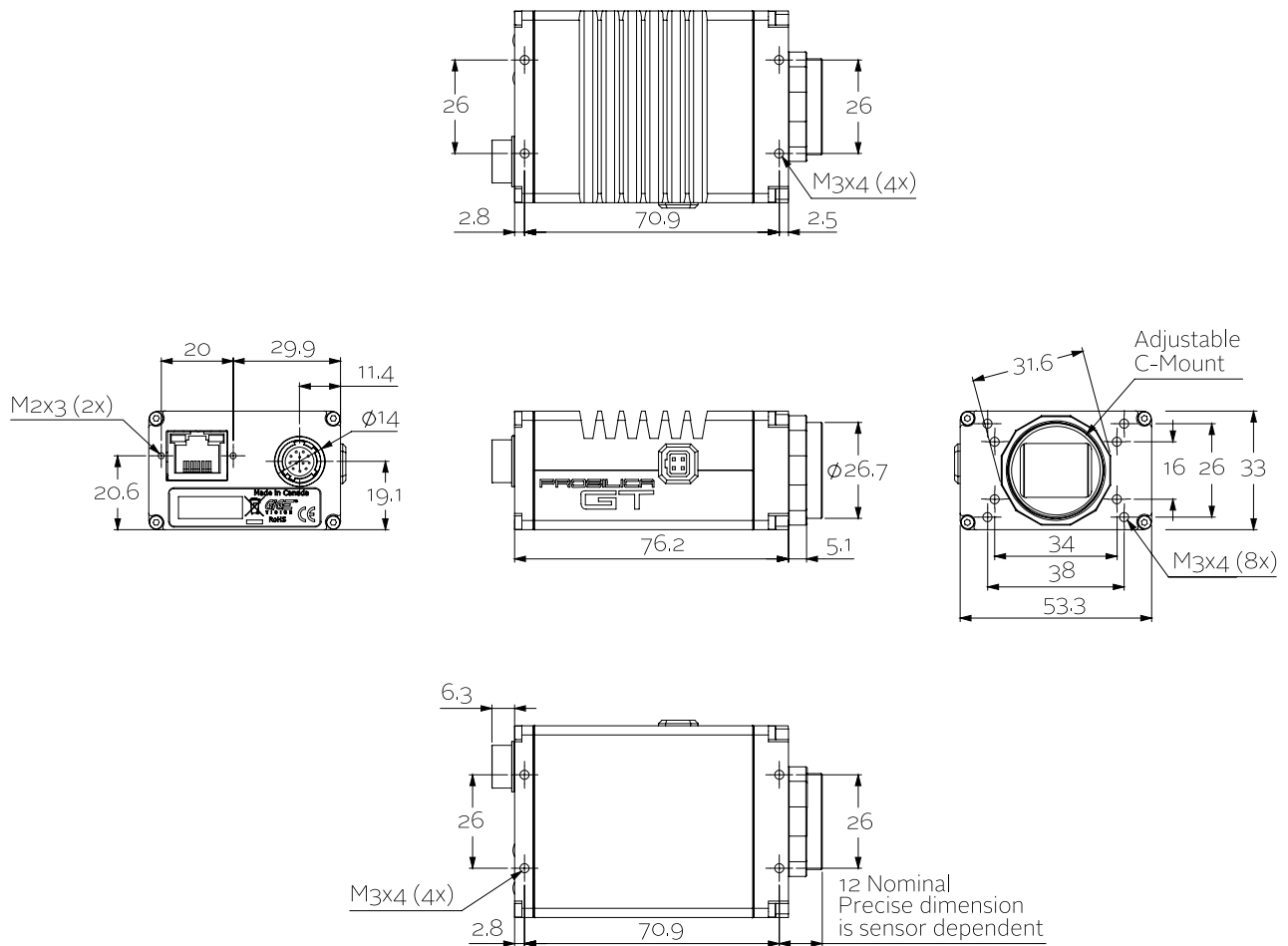
Prosilica GT1910 features include:

- Precision Time Protocol (IEEE 1588)
- Camera and sensor temperature monitoring



- Auto iris (P-Iris and DC-Iris)
- ROI, separate ROI for auto features
- Binning
- Auto gain (manual gain control: 0 to 32 dB)
- Auto exposure (manual exposure control: 10 μ s to 26.8 s)
- Auto white balance
- 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 GT1910 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

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