

Prosilica GT

1920



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

Description

2.82 Megapixel HD CCD camera for extreme environments - fast frame rates

Prosilica GT1920 is a 2.82 Megapixel camera with a Gigabit Ethernet interface (GigE Vision#).#GT1920 incorporates Sony ICX674#CCD sensor that provides high sensitivity, near IR response, low noise, anti-blooming, and excellent image quality. GT1920 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.#

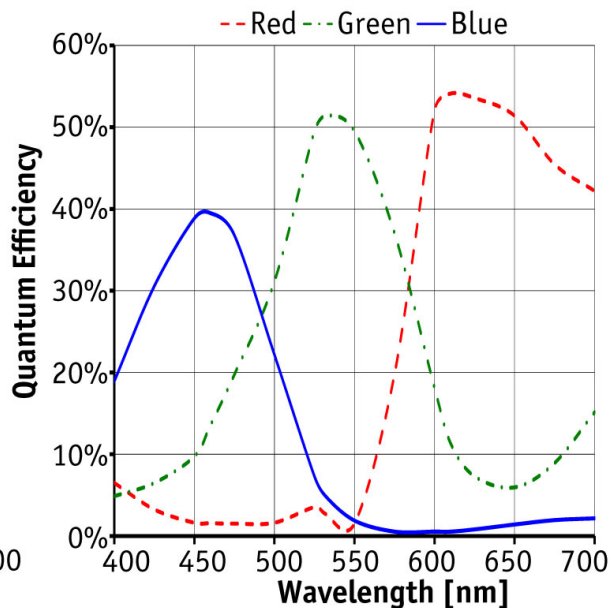
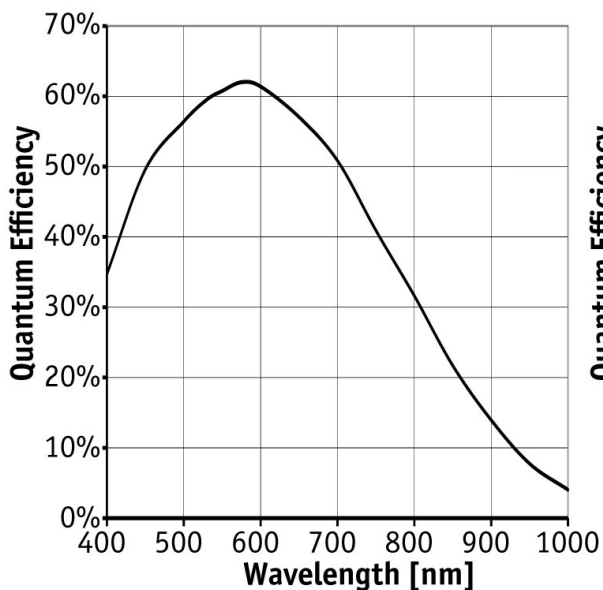
Options:

- Various IR cut/pass filters and lens mounts

Specifications

Prosilica GT	1920
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	1936 × 1456
Sensor	Sony ICX674
Sensor type	CCD Progressive
Sensor size	Type 2/3
Cell size	4.54 μm
Lens mount	C (adjustable)
Max frame rate at full resolution	40.7 fps
ADC	14 bit
On-board FIFO	128
	Output
Bit depth	14 (mono) - 12 (color) bit
Mono modes	Mono8, Mono12, Mono12Packed, Mono14

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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)	4.9 W @ 12 VDC
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

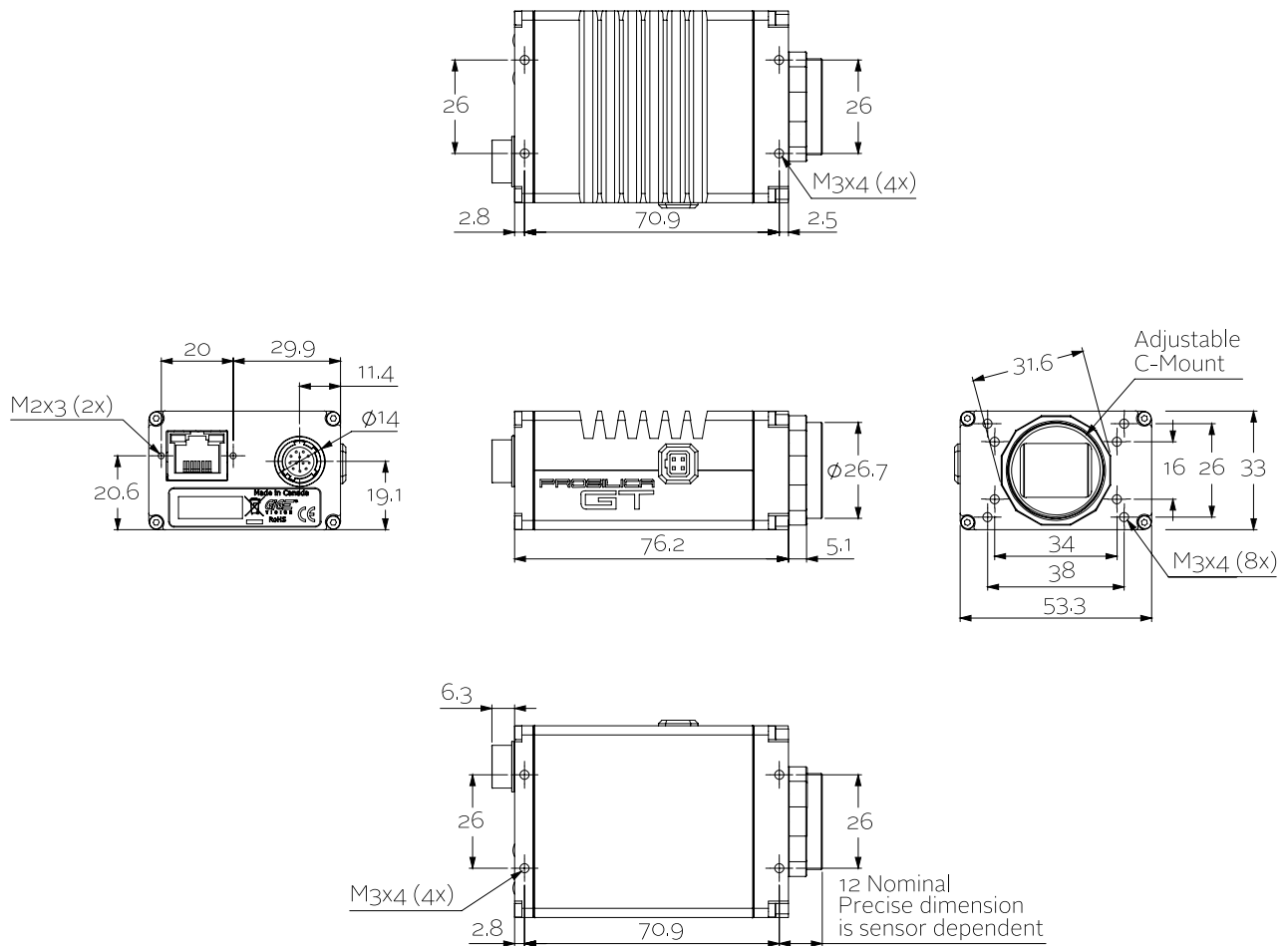
Prosilica GT1920 features include:

- 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 33 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 GT1920 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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