

Prosilica GT

1920



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

Description

2.82 Megapixel industrial 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.

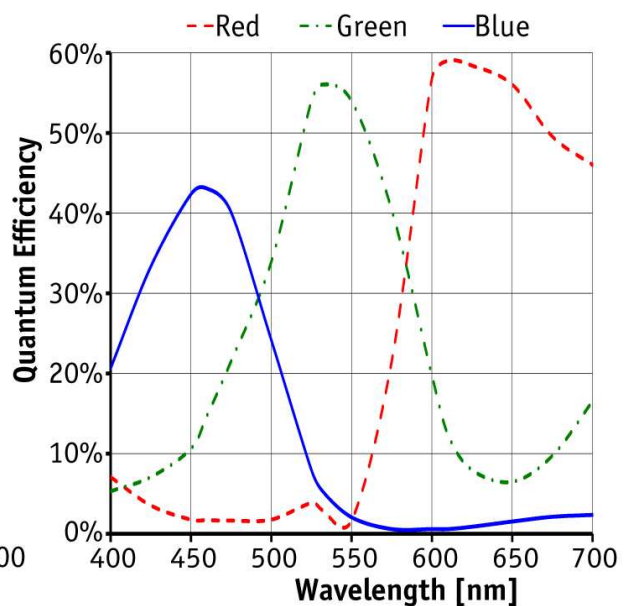
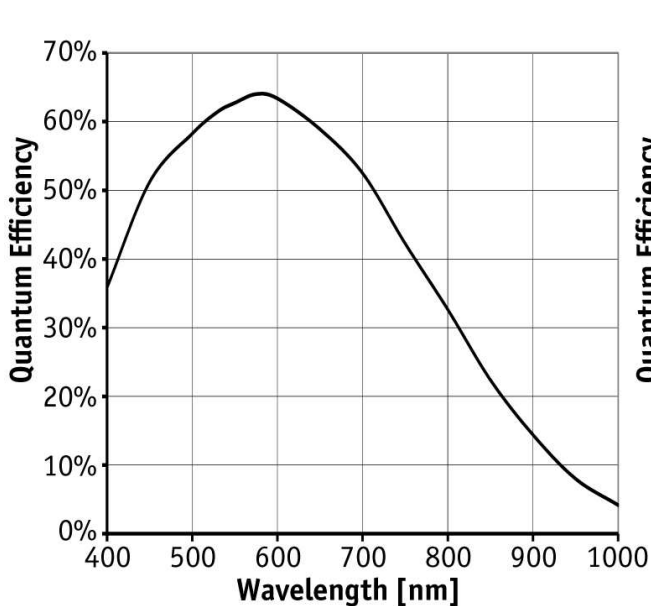
Options:

- 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
Cell size	4.54 μm
Lens mount	C-Mount
Max frame rate at full resolution	40.7 fps
ADC	14 bit
On-board FIFO	128 Mbyte
Output	
Bit depth	14 (mono) - 12 (color) bit
Mono modes	Mono8, Mono12, Mono12Packed, Mono14
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed

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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 input, 2 outputs
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)	6.0 W (PoE) / 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

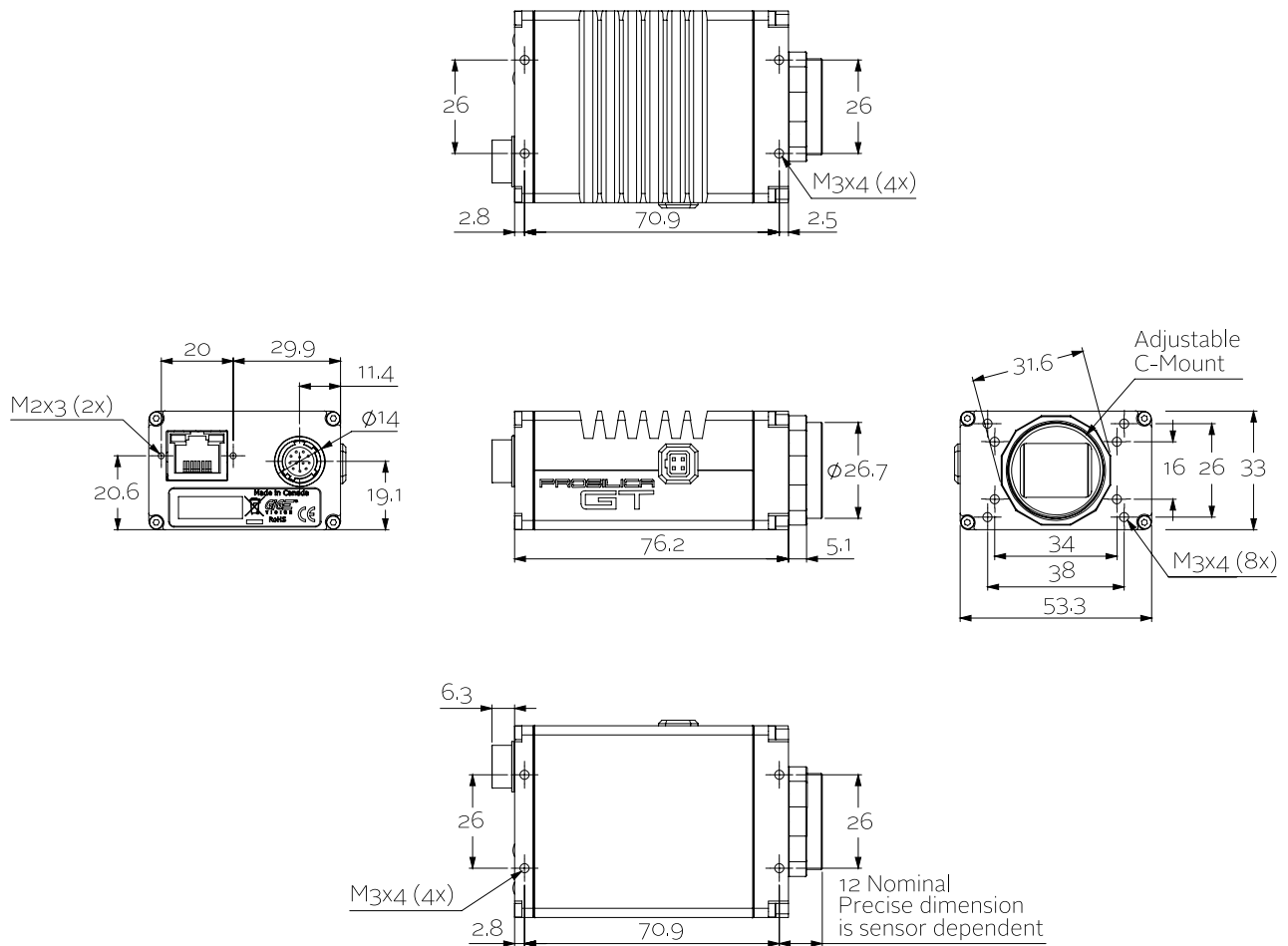
Prosilica GT1920 features include:

- 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