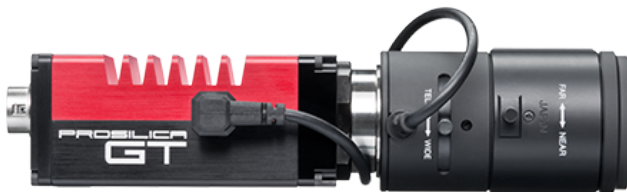


Prosilica GT

1290



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

Description

1.2 Megapixel camera for extreme environments

Prosilica GT1290 is a 1.2 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). GT1290 incorporates a high-quality Sony ICX445 EXview HAD CCD sensor providing excellent monochrome and color image quality. GT1290 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. GT1290 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.

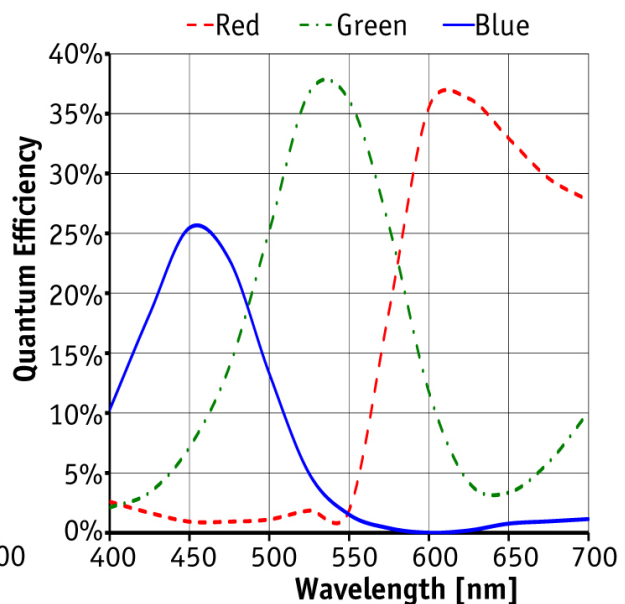
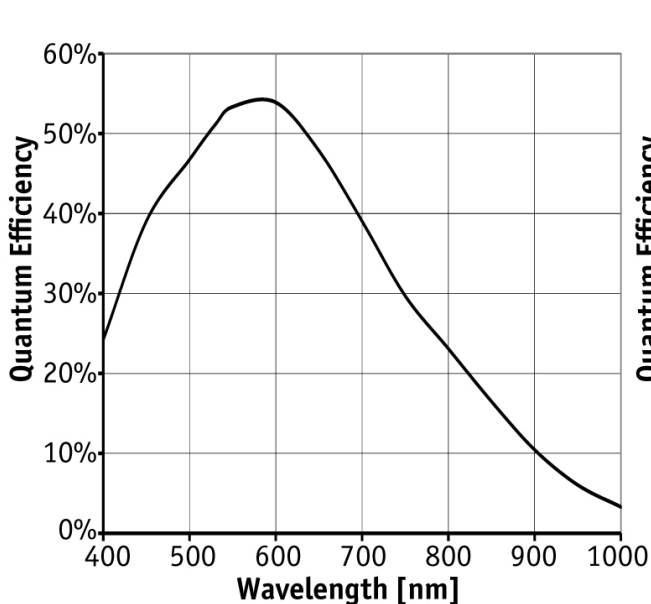
Options:

- Various IR cut/pass filters and lens mounts

Specifications

| Prosilica GT | 1290 |
|-----------------------------------|---|
| Interface | IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) |
| Resolution | 1280 × 960 |
| Sensor | Sony ICX445 |
| Sensor type | CCD Progressive |
| Sensor size | Type 1/3 |
| Cell size | 3.75 μm |
| Lens mount | C (adjustable) / CS |
| Max frame rate at full resolution | 33.3 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 |

| | |
|---|--|
| Prosilica GT | 1290 |
| Color modes RGB | RGB8Packed, BGR8Packed |
| Raw modes | BayerRG8, BayerRG12, 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 ... +65°C |
| Power requirements (DC) | PoE, or 7-25 VDC |
| Power consumption (@12 V) | 3.5 W (PoE) / 2.9 W @ 12 VDC |
| Mass | 211 g |
| Body dimensions (L × W × H in mm) | 86 × 53.3 × 33 (including connectors, w/o tripod and lens) |
| Regulations | CE, FCC Class A, RoHS (2011/65/EU) |



Features

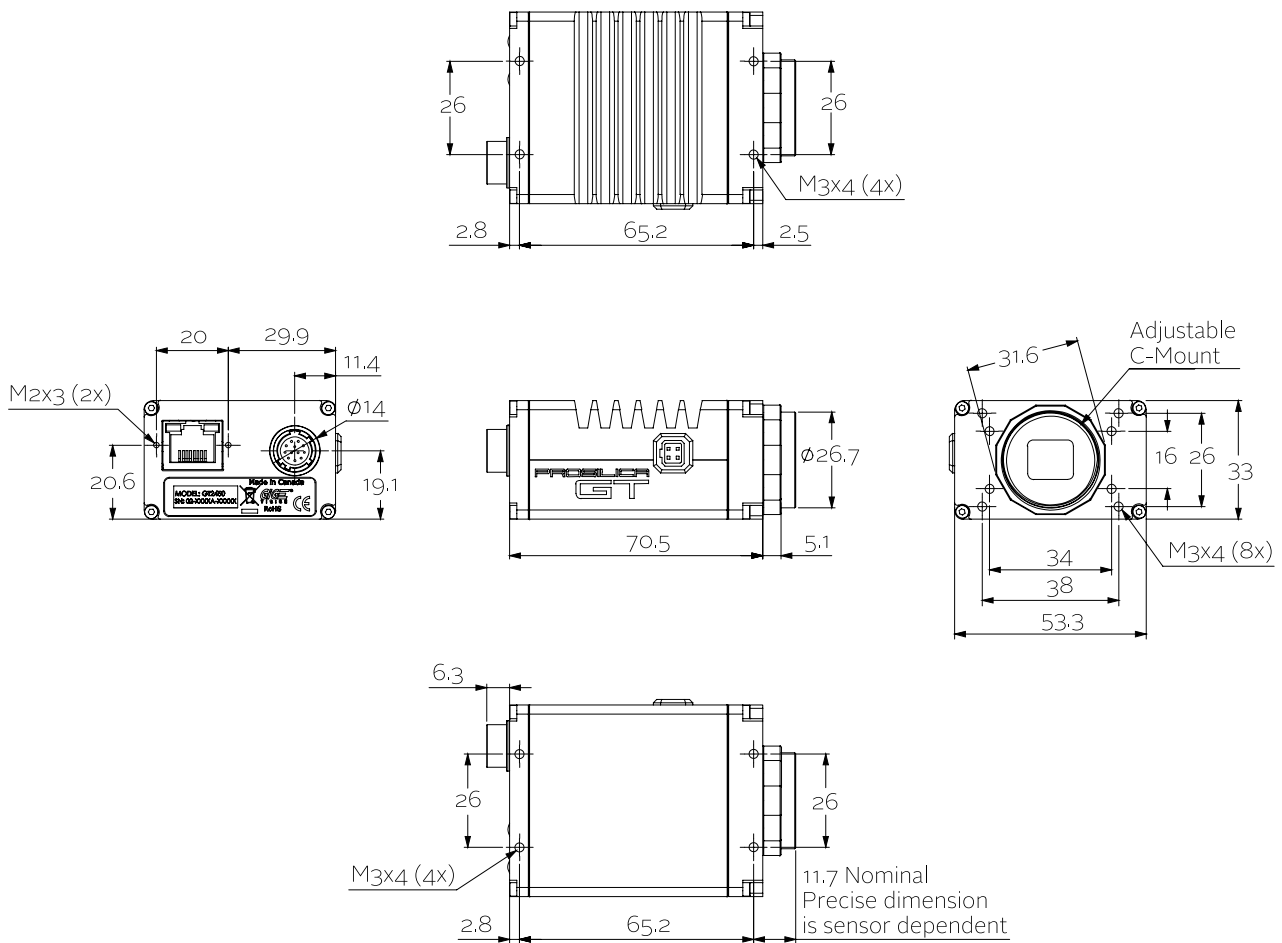
Prosilica GT1290 features include:

- Precision Time Protocol (IEEE 1588)
- Camera 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: 12 μ s to 77.3 s)
- Auto white balance
- LUTs (look-up tables)
- 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 GT1290 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