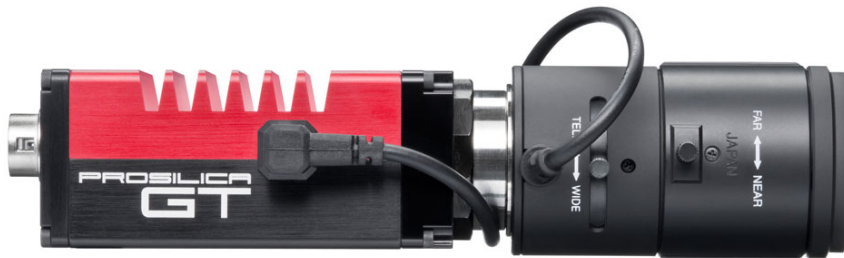


## GT1290/1290C



### Description

#### **NEW: 1.2 Megapixel camera for extreme environments**

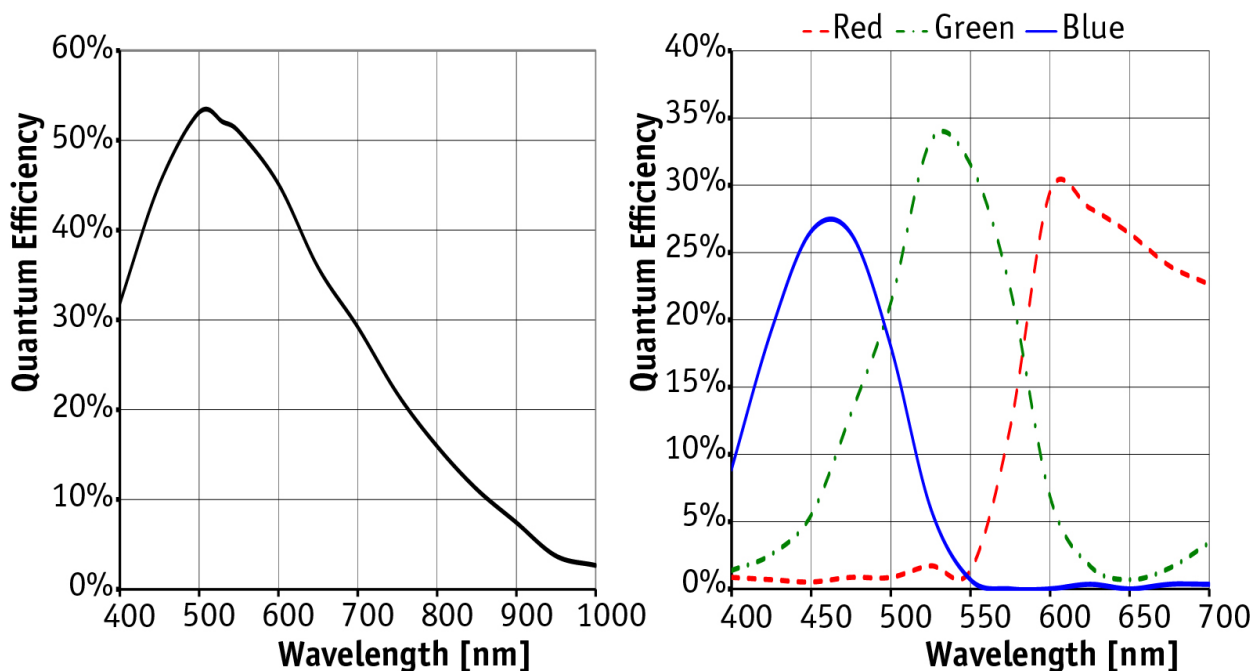
The Prosilica GT1290 is a 1.2 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT1290 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. The GT1290 offers Precise iris lens control allowing users to fix the aperture size to optimize depth of field, exposure and gain without the need for additional control elements. The GT1290 incorporates a high-quality Sony ICX445 EXview HAD CCD sensor providing excellent monochrome and color image quality.

- Sony ICX445 EXview HAD CCD sensor
- Auto Iris (P-Iris and DC)
- Power over Ethernet (PoE)
- Ethernet surge suppression
- Gamma, multiple LUT, color correction
- Metadata (Chunk data), clock synchronization (IEEE1588)
- Wide operating temperature range
- Global shutter (digital shutter)
- Camera temperature monitoring
- **Models:**
  - GT1290, 1280 x 960, 33 fps, CCD mono
  - GT1290C, 1280 x 960, 33 fps, CCD color

## Specifications

| Prosilica GT 1290                      |  |
|--|--|
| Interface                              | IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)                  |
| Resolution                             | 1280 x 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   |
| A/D                                    | 14 bit   |
| On-board FIFO                          | 128 MB   |
| Output                                 |  |
| Bit depth                              | 14 (mono) - 12 (color) bit                                 |
| Mono modes                             | Mono8, Mono12, Mono12Packed, Mono14                        |
| Color modes YUV                        | YUV411Packed, YUV422Packed, YUV444Packed                   |
| Color modes RGB                        | RGB8Packed, BGR8Packed                                     |
| Raw modes                              | BayerRG8, BayerRG12, BayerGR12Packed                       |
| General purpose inputs/outputs (GPIOs) |  |
| TTL I/Os                               | 1 input, 2 outputs   |
| Opto-coupled 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)               | 2.9 W @ 12 VDC   |
| Mass                                   | 211 g  |
| Body Dimensions<br>(L x W x H in mm)   | 86 x 53.3 x 33 (including connectors, w/o tripod and lens) |
| Regulations                            | CE, FCC Class A, RoHS (2011/65/EU)                         |

[Download Prosilica GT1290 Technical drawing](#)



## Smart features

The Prosilica GT1290 features include:

- Auto exposure, auto gain, and auto white balance
- Flexible binning
- Region of Interest (ROI) readout
- DSP subregion (selectable ROI for auto features)
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Multiple LUT
- Asynchronous external trigger and sync I/O
- Auto Iris (P-Iris and DC)
- Power over Ethernet (PoE)
- Ethernet surge suppression
- Gamma
- Color correction
- Metadata (Chunk data)
- Clock synchronization (IEEE1588)
- Recorder and multiframe acquisition modes
- Camera temperature monitoring

## White Paper

[Remote lens control with Prosilica GT cameras](#)

## Applications

The 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