

Prosilica GS

1380



- Right-angle CCD camera with low height profile
- 30 fps @ full resolution
- Video-type auto iris
- Landscape or portrait sensor orientation

Description

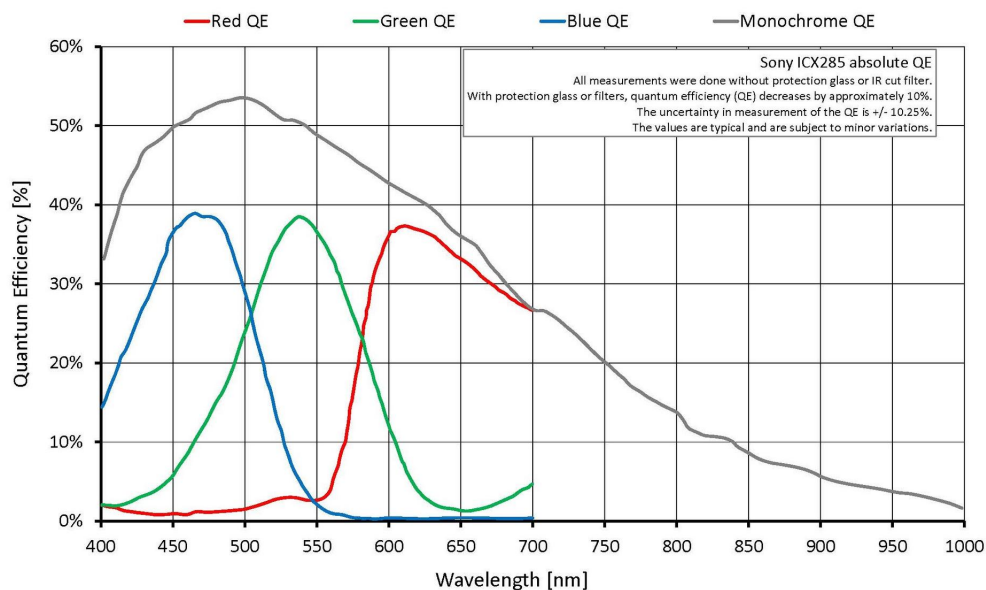
1.4 Megapixel CCD camera with GigE Vision, High sensitivity

Prosilica GS1380 is a very sensitive, high-resolution CCD camera with Gigabit Ethernet interface. This camera incorporates the Sony ICX285 CCD sensor with EXview technology. This camera is available in landscape or portrait orientation. At full resolution, this camera has a frame rate of 30 frames per second. With a smaller region of interest higher frame rates are possible. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Specifications

| Prosilica GS | 1380 |
|------------------------------------|--|
| Interface | IEEE 802.3 1000baseT |
| Resolution | 1360 (H) × 1024 (V) |
| Sensor | Sony ICX285 |
| Sensor type | CCD Progressive |
| Sensor size | Type 2/3 |
| Pixel size | 6.45 μm × 6.45 μm |
| Lens mount (default) | C-Mount |
| Max. frame rate at full resolution | 30 fps |
| ADC | 14 bit |
| Image buffer (RAM) | 16 MByte |
| Output | |
| Bit depth | 8/12 bit |
| Monochrome pixel formats | Mono8, Mono12, Mono12Packed |
| YUV color pixel formats | YUV411Packed, YUV422Packed, YUV444Packed |
| RGB color pixel formats | RGB8Packed, BGR8Packed |

| | |
|---|---|
| Prosilica GS | 1380 |
| Raw pixel formats | BayerRG8, BayerRG12, BayerGR12Packed |
| General purpose inputs/outputs (GPIOs) | |
| TTL I/Os | 1 input, 1 output |
| Opto-isolated I/Os | 1 input, 1 output |
| RS232 | 1 |
| Operating conditions/dimensions | |
| Operating temperature | 0 °C to +70 °C ambient (without condensation) |
| Power requirements (DC) | 5 to 25 VDC |
| Power consumption | 3.5 W at 12 VDC |
| Mass | 187 g |
| Body dimensions (L × W × H in mm) | 96 × 56 × 26 (including connectors) |
| Regulations | CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A |



Features

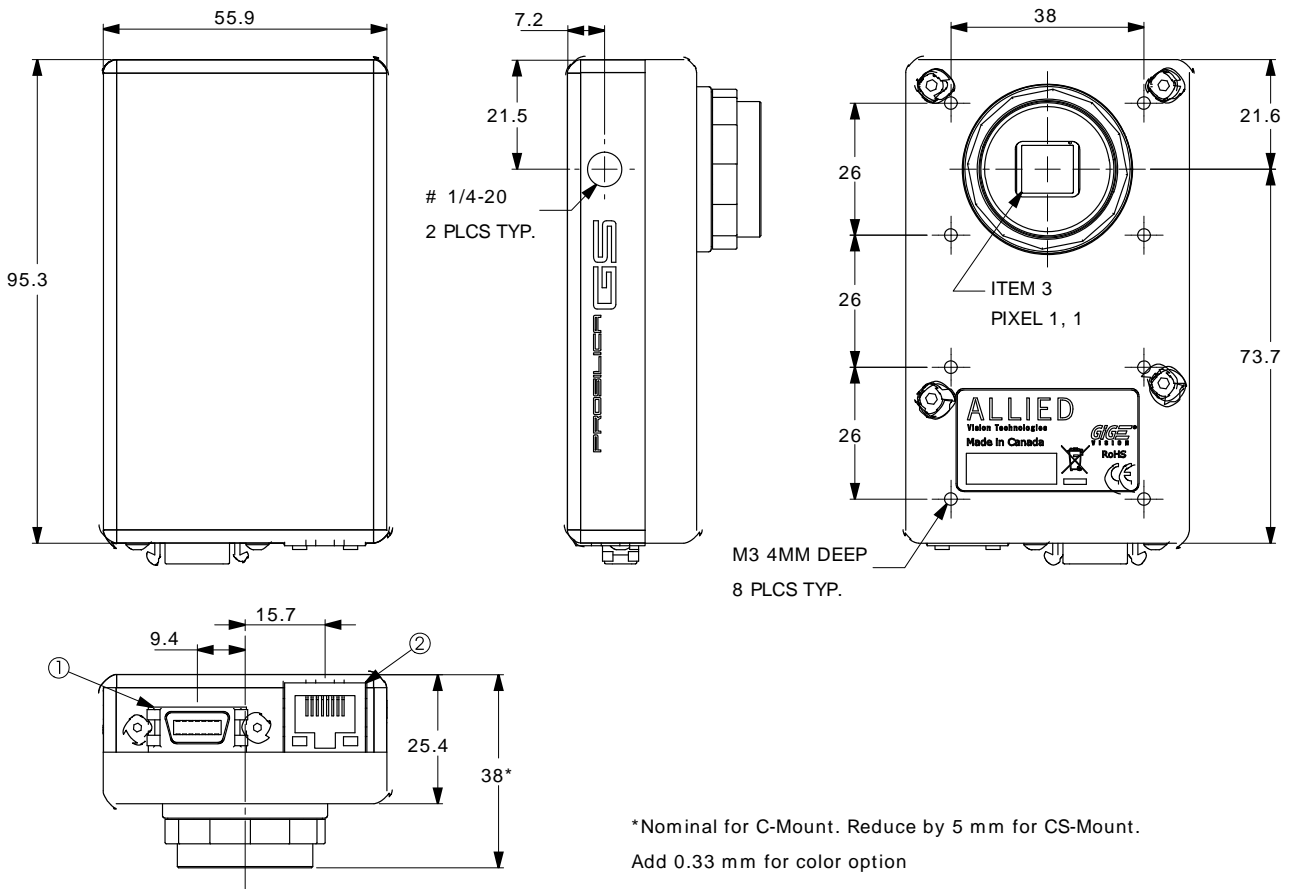
Prosilica GS1380 features include:

- Auto-iris (video type)
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning (Sum)
- Auto gain (manual gain control: 0 to 30 dB)
- Auto exposure (manual exposure controls: 10 μ s to 78.5 s)



- Auto white balance
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Global shutter (digital shutter)
- Recorder and Multiframe acquisition modes
- Event channel
- Image chunk data
- Storable user sets

Technical drawing





Applications

Prosilica GS1380 is ideal for a wide range of applications including:

- Industrial inspection
- Machine vision
- Microscopy
- Ophthalmology
- Fluorescence
- Aeronautical and aerospace
- Public security
- Surveillance