

Prosilica GS

1380



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

Landscape or portrait orientation

Right-angle CCD camera with Gigabit Ethernet interface

Prosilica GS 1380 with Sony ICX285 runs 30.0 frames per second at 1.4 MP resolution.

Prosilica GS cameras are periscope-type CCD cameras for industrial and microscopy applications. The compact GS-Series cameras have a Gigabit Ethernet interface (GigE Vision) that allows for very fast frame rates and long cable lengths.

- Compact size
- Very rugged
- Fast frame rates to 120 fps
- VGA to 5 Megapixels
- Landscape or portrait orientation
- Optional white medical housing
- Modular options available

Specifications

| | |
|------------------------------------|----------------------|
| Interface | IEEE 802.3 1000baseT |
| Resolution | 1360 (H) × 1024 (V) |
| Sensor | Sony ICX285 |
| Sensor type | CCD Progressive |
| Shutter mode | GS (Global shutter) |
| 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-bit or 12-bit |
| Monochrome pixel formats | Mono8, Mono12, Mono12Packed |
| YUV color pixel formats | YUV411Packed, YUV422Packed, YUV444Packed |
| RGB color pixel formats | RGB8Packed, BGR8Packed |
| Raw color pixel formats (Bayer) | BayerRG8, BayerRG12, BayerGR12Packed |

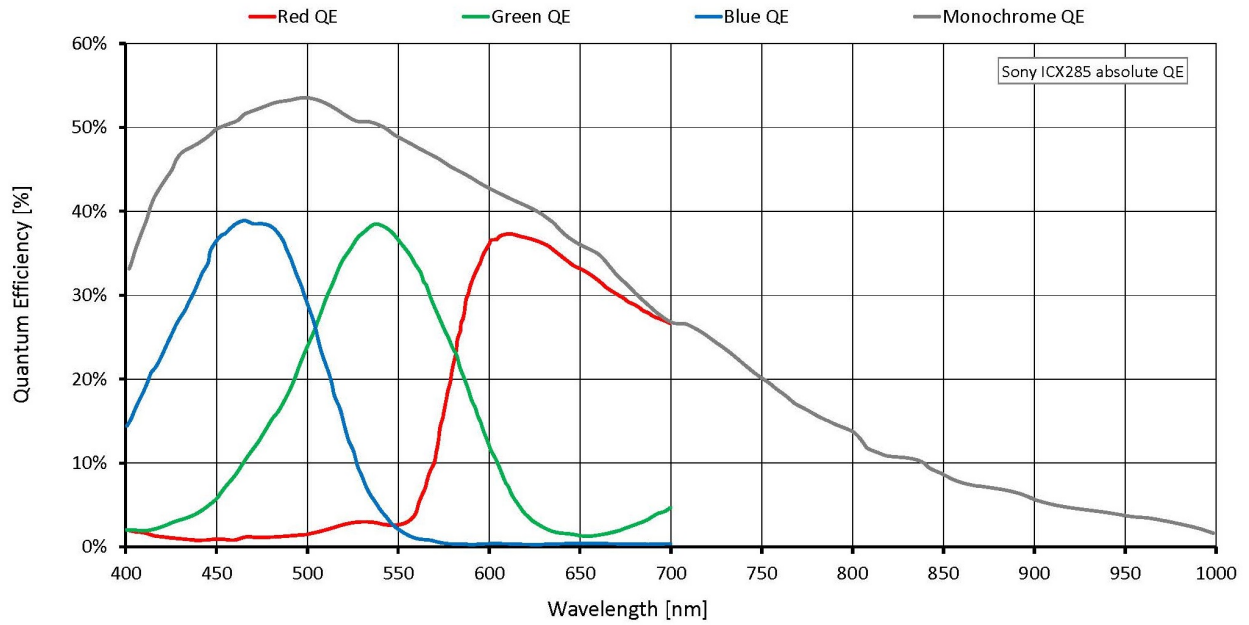
General purpose inputs/outputs (GPIOs)

| | |
|--------------------|-------------------|
| 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) |

Quantum efficiency

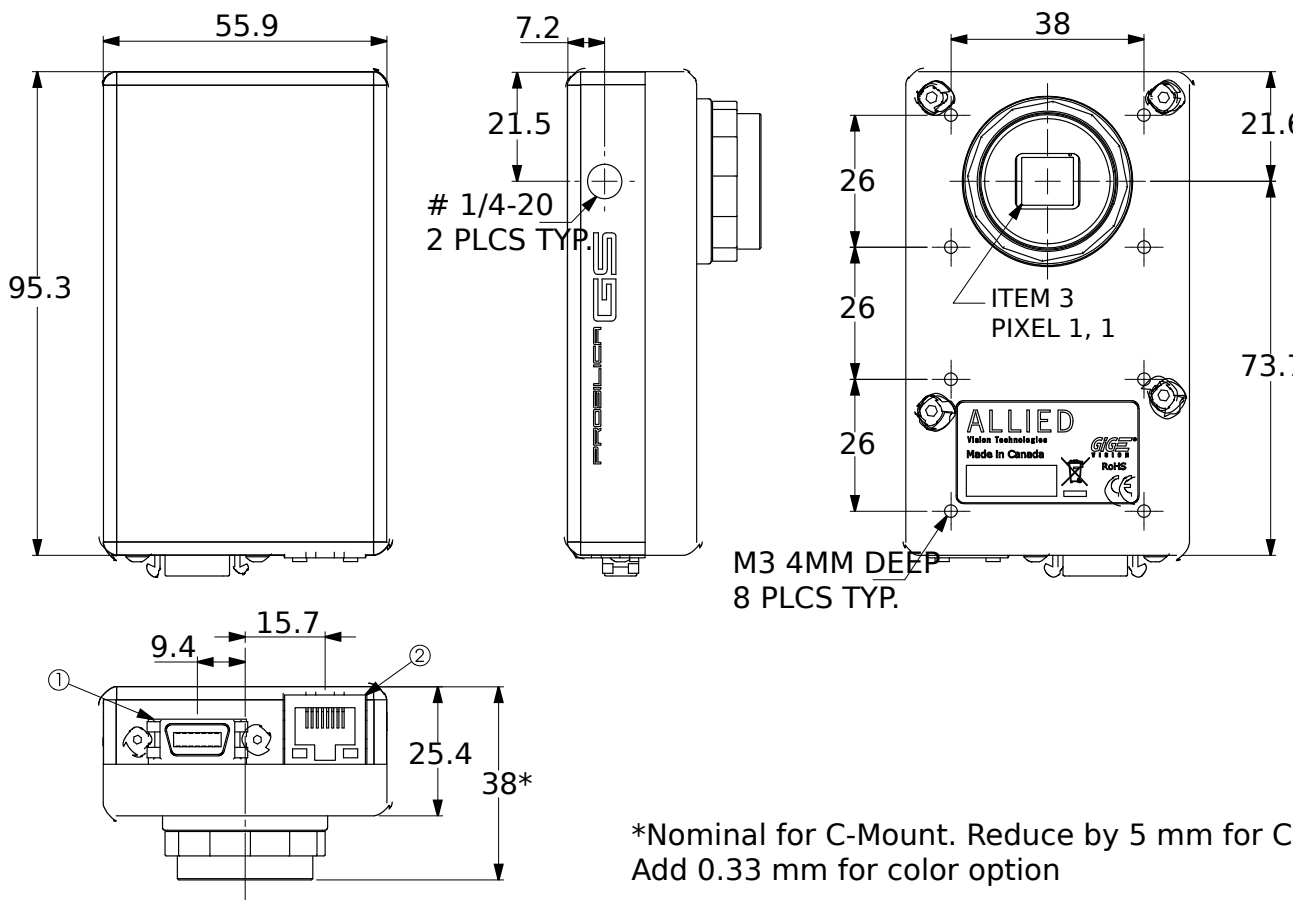


Features

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