

Prosilica GS

2450



- Right-angle CCD camera with low height profile
- 15 fps @ full resolution
- Video-type auto iris
- Sony ICX625 CCD sensor

Description

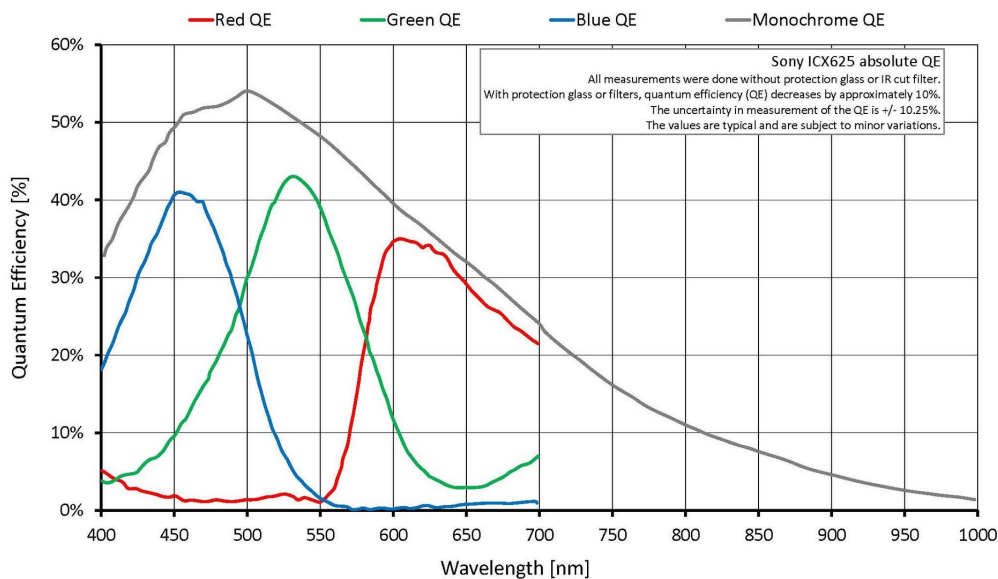
5 Megapixel periscope type camera with GigE Vision, 15 frames per second

Prosilica GS2450 is a very high-resolution CCD camera with Gigabit Ethernet output. This camera uses the high-quality Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise. At full resolution, this camera has a frame rate of 15 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 | 2450 |
|------------------------------------|--|
| Interface | IEEE 802.3 1000baseT |
| Resolution | 2448 (H) × 2050 (V) |
| Sensor | Sony ICX625 |
| Sensor type | CCD Progressive |
| Sensor size | Type 2/3 |
| Pixel size | 3.45 μm × 3.45 μm |
| Lens mount (default) | C-Mount |
| Max. frame rate at full resolution | 15 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 |

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|---|---|
| Prosilica GS | 2450 |
| RGB color pixel formats | RGB8Packed, BGR8Packed |
| 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 | 3.8 W @ 12 VDC |
| Mass | 186 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

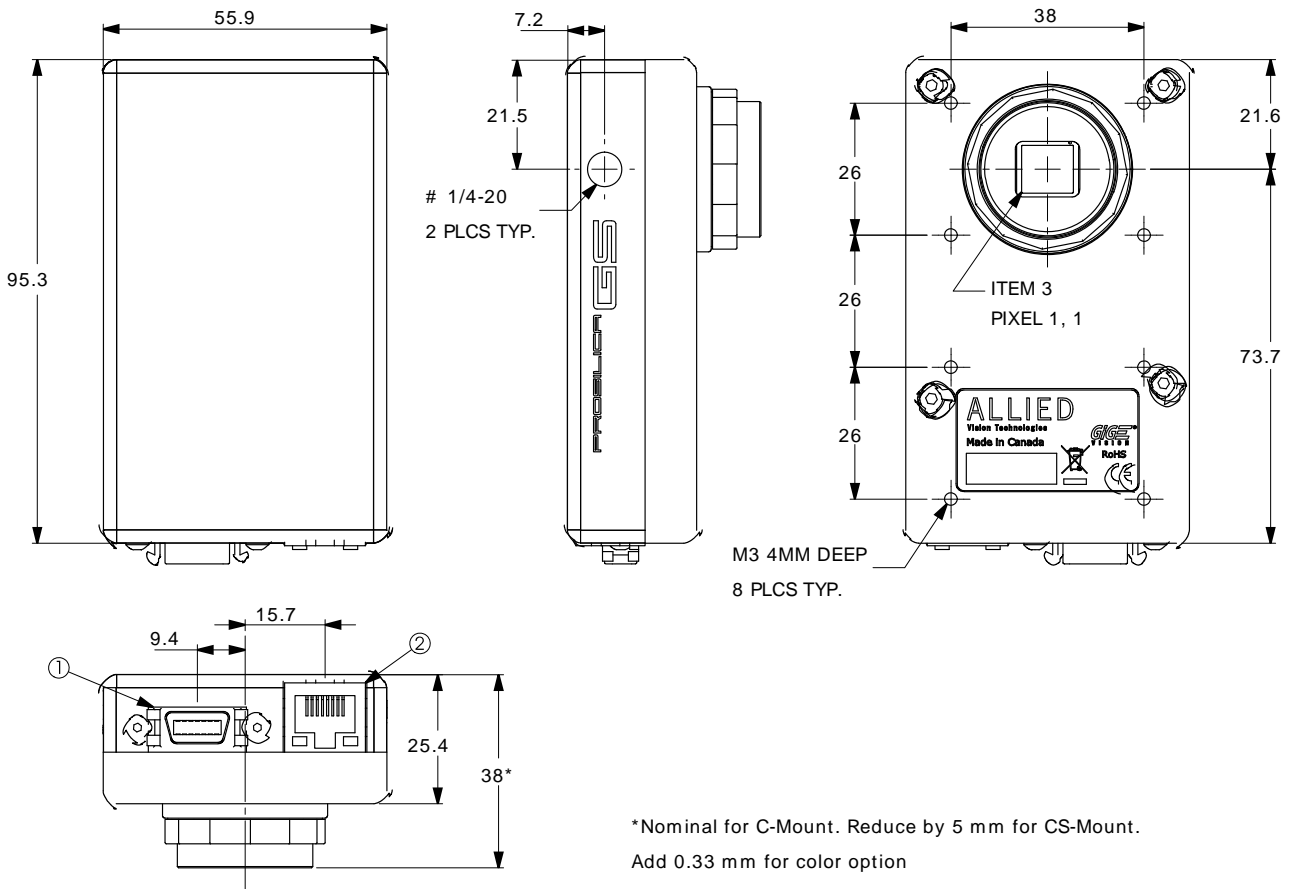
Prosilica GS2450 features include:

- 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 42.9 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 GS2450 is ideal for a wide range of applications including:

- LCD panel inspection
- High-resolution industrial inspection
- 3D metrology
- General machine vision
- Public security
- Surveillance
- Traffic imaging (Intelligent Traffic Systems)
- Embedded systems
- Microscopy