

Prosilica GS

2450



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

Description

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

Prosilica GS2450/GS2450C 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. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Options:

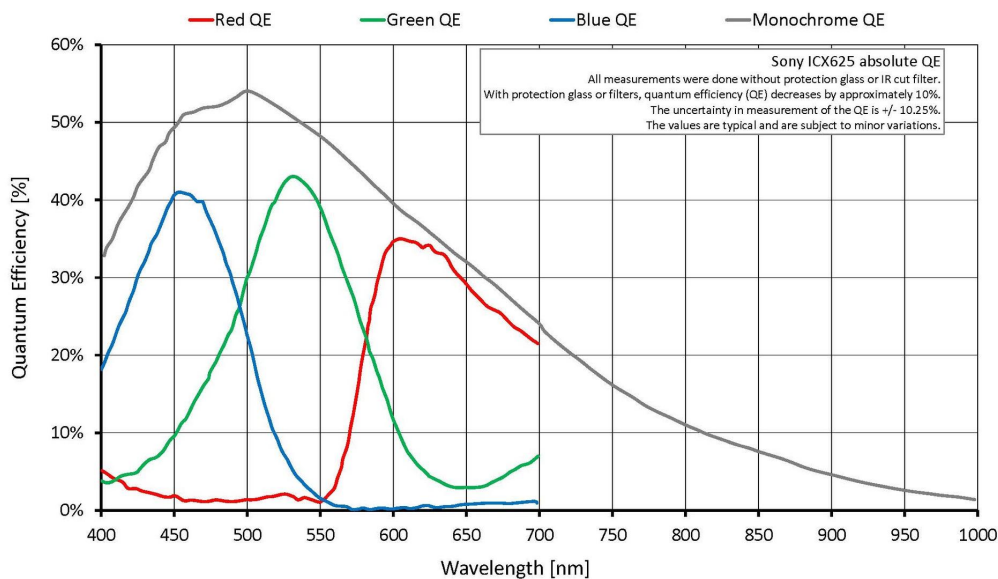
- CS-Mount
- Optical filters (IR cut filter/Protection glass)
- White medical housing

See the Modular Concept for lens mount, optical filters, and case design options.

Specifications

| Prosilica GS | 2450 |
|-----------------------------------|----------------------|
| Interface | IEEE 802.3 1000baseT |
| Resolution | 2448 (H) × 2050 (V) |
| Sensor | Sony ICX625 |
| Sensor type | CCD Progressive |
| Cell size | 3.45 μm x 3.45 μm |
| Lens mount | C-Mount |
| Max frame rate at full resolution | 15 fps |
| ADC | 14 bit |
| Image buffer (RAM) | 16 MByte |
| Output | |

| | |
|---|---|
| Prosilica GS | 2450 |
| Bit depth | 8/12 bit |
| Mono modes | Mono8, Mono12, Mono12Packed |
| 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, 1 output |
| Opto-isolated I/Os | 1 input, 1 output |
| RS-232 | 1 |
| Operating conditions/dimensions | |
| Operating temperature | 0 °C to +70 °C ambient (without condensation) |
| Power requirements (DC) | 5 to 25 VDC |
| Power consumption (@12 V) | 3.8 W |
| Mass | 186 g |
| Body dimensions (L × W × H in mm) | 96 × 56 × 26 (including connectors) |
| Regulations | CE, RoHS, REACH, WEEE, FCC, ICES |



Features

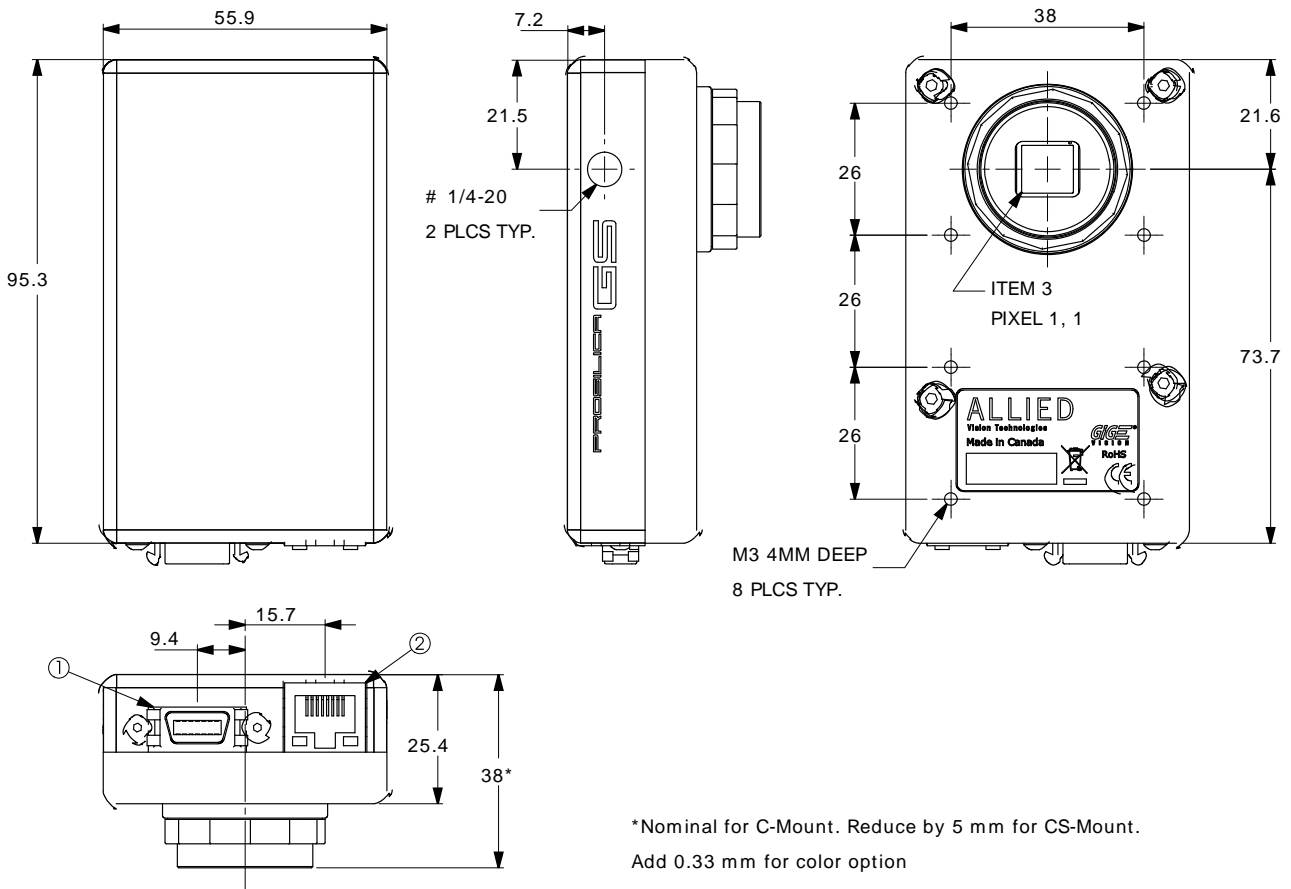
Prosilica GS2450/GS2450C features include:

- 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 #s to 42.9 s)
- Auto white balance
- StreamBytesPerSecond (easy 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/GS2450C 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