

# Prosilica GS

## 2450



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

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

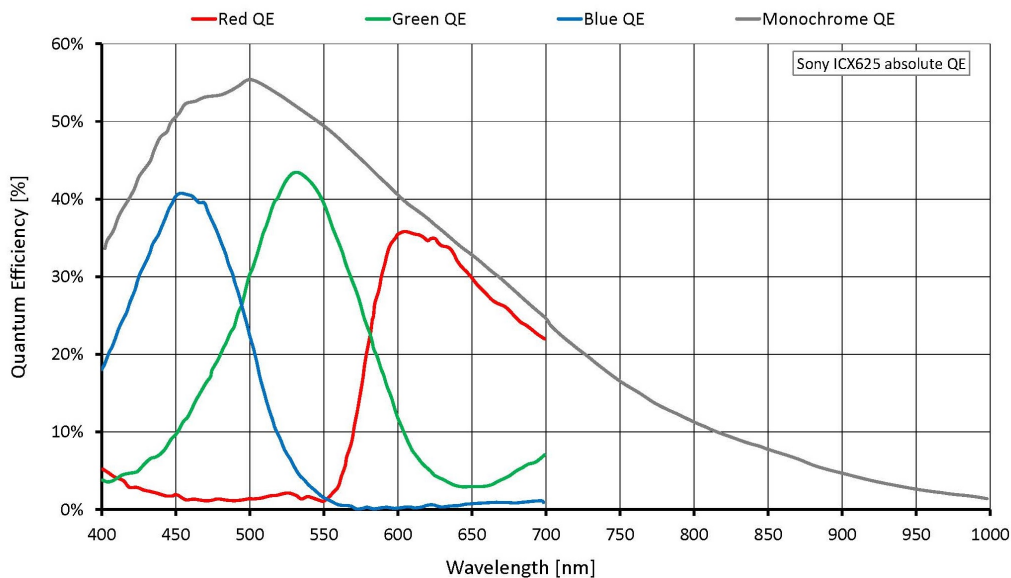
Prosilica GS2450 is a very high-resolution CCD camera with Gigabit Ethernet output. This camera uses the high-quality Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise. At full resolution, this camera has a frame rate of 15 frames per second. With 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

<b>Prosilica GS</b>	<b>2450</b>
Interface	IEEE 802.3 1000baseT
Resolution	2448 (H) × 2050 (V)
Sensor	Sony ICX625
Sensor type	CCD Progressive
Shutter mode	Global shutter
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
	<b>Output</b>
Bit depth	8/12 Bit
Monochrome pixel formats	Mono8, Mono12, Mono12Packed

<b>Prosilica GS</b>	<b>2450</b>
YUV color pixel formats	YUV411Packed, YUV422Packed, YUV444Packed
RGB color pixel formats	RGB8Packed, BGR8Packed
Raw pixel formats	BayerRG8, BayerRG12, BayerGR12Packed
<b>General purpose inputs/outputs (GPIOs)</b>	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS232	1
<b>Operating conditions/dimensions</b>	
Operating temperature	0 °C to +70 °C ambient (without condensation)
Power requirements (DC)	5 to 25 VDC
Power consumption	3.8 W at 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

## Quantum efficiency



## Features

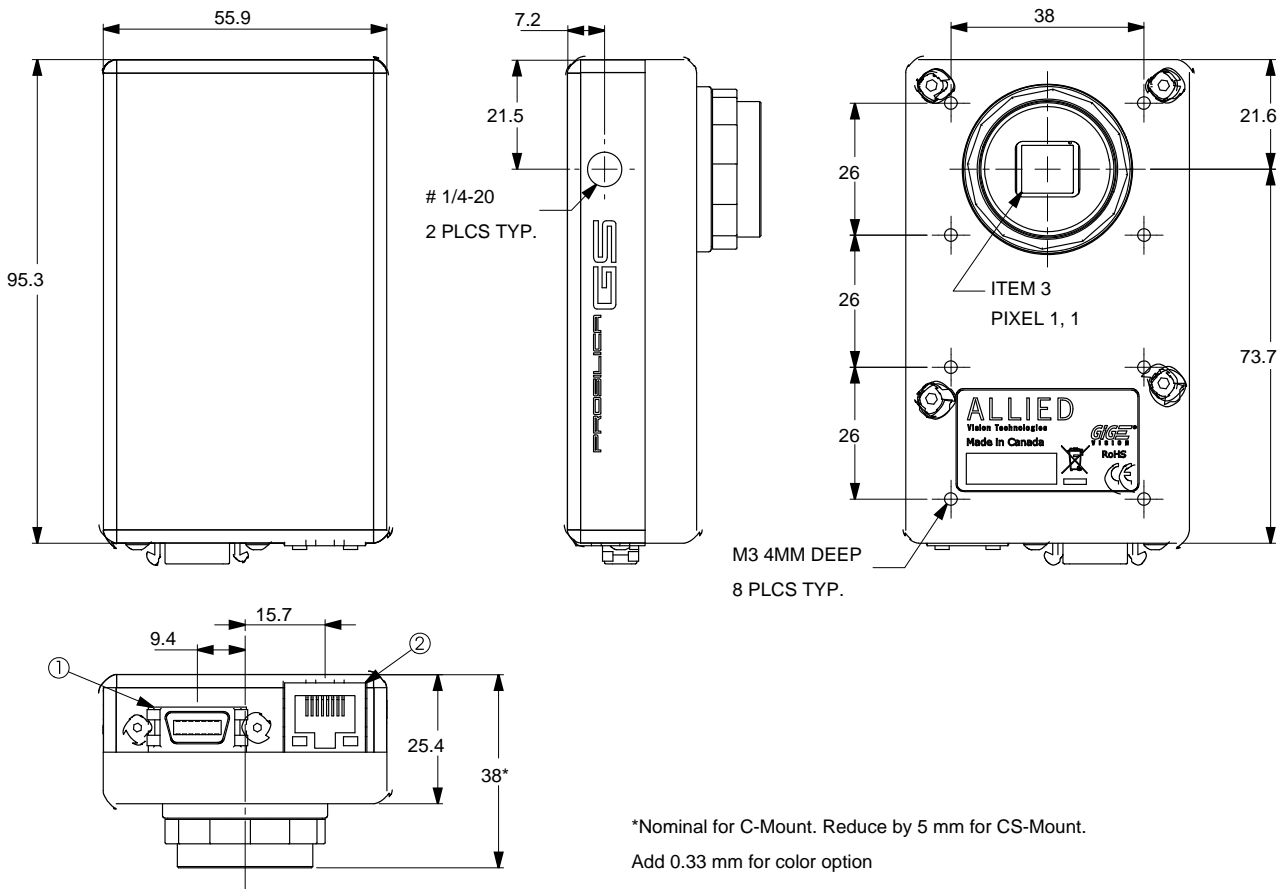
Prosilica GS2450 features include:

- 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  $\mu$ 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