

# Prosilica GS

## 660



- Right-angle CCD camera with low height profile
- High frame rate
- Video-type auto iris
- Sony ICX618 sensor

## Description

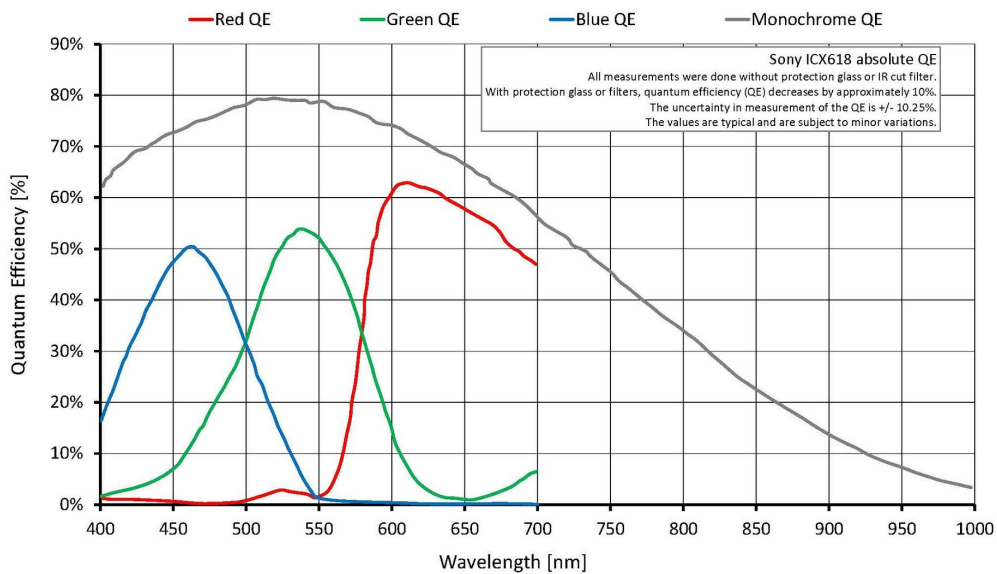
Right-angle GigE Vision camera, Sony ICX618 EXview sensor, 119 fps

Prosilica GS660 is a fast, VGA resolution, high-performance machine vision camera with Gigabit Ethernet interface. This camera incorporates a Sony ICX618 EXview HAD CCD sensor that has particularly high quantum efficiency and excellent NIR response for excellent image quality and sensitivity. At full resolution, this camera has a frame rate of 119 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	660
Interface	IEEE 802.3 1000baseT
Resolution	659 (H) × 493 (V)
Sensor	Sony ICX618
Sensor type	CCD Progressive
Sensor size	Type 1/4
Pixel size	5.6 μm × 5.6 μm
Lens mount (default)	C-Mount
Max. frame rate at full resolution	119 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>660</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 W at 12 VDC
Mass	184 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

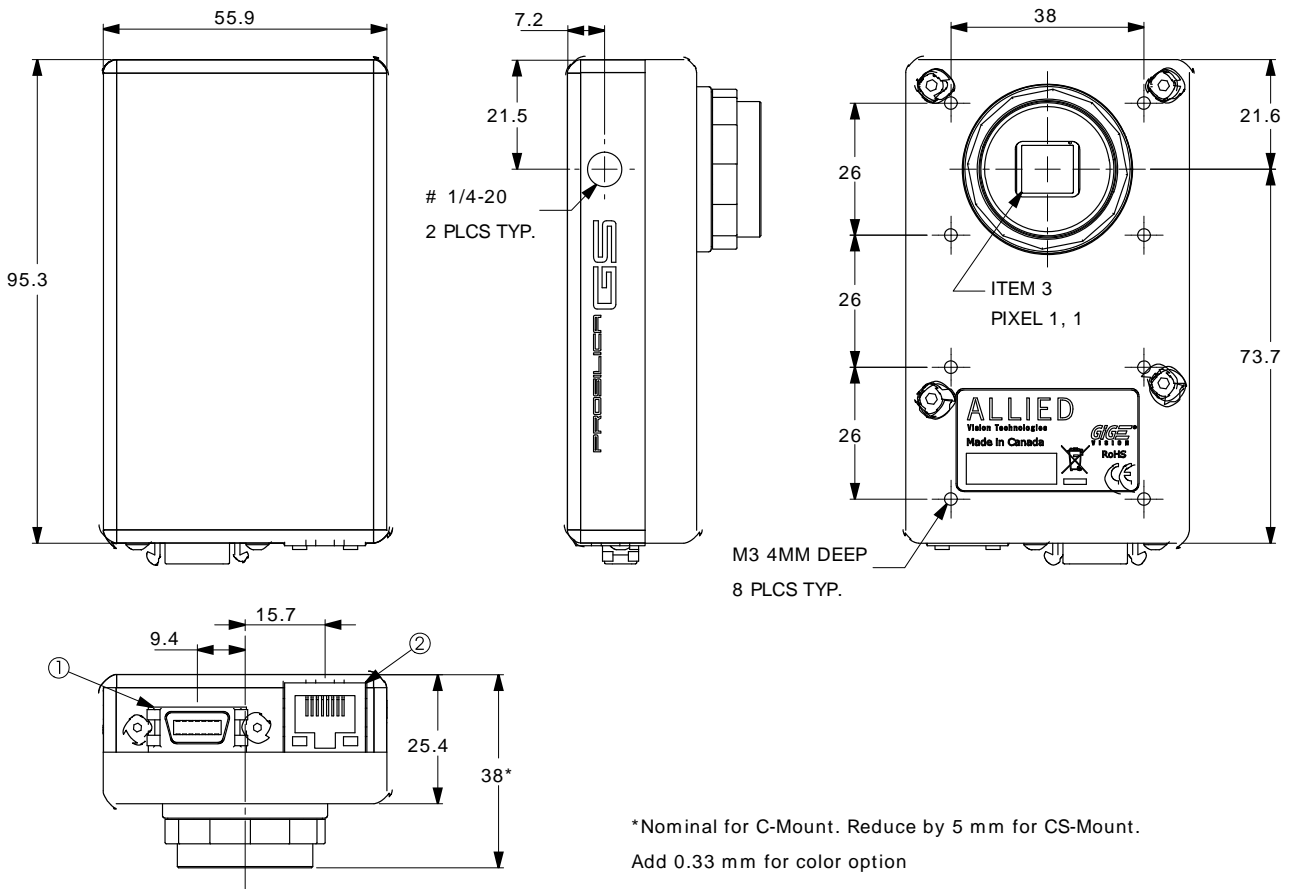
Prosilica GS660 features include:

- 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 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 GS660 is ideal for a wide range of applications including:

- Machine vision
- Industrial inspection
- Public security
- Traffic monitoring
- Microscopy