

Prosilica GS

660



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

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

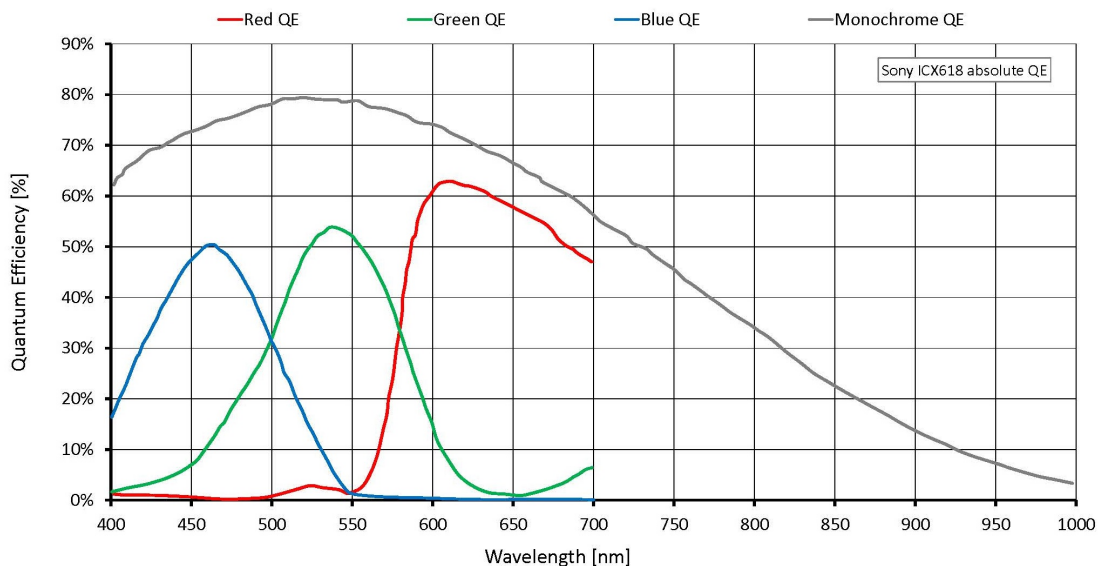
Prosilica GS660 is a fast, VGA resolution, high-performance machine vision camera with Gigabit Ethernet interface. This camera incorporates a Sony ICX618 EXview HAD CCD sensor that has particularly high quantum efficiency and excellent NIR response for excellent image quality and sensitivity. At full 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
Shutter mode	Global shutter
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
Output	
Bit depth	8/12 Bit

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Monochrome pixel formats	Mono8, Mono12, Mono12Packed
YUV color pixel formats	YUV411Packed, YUV422Packed, YUV444Packed
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 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

Quantum efficiency



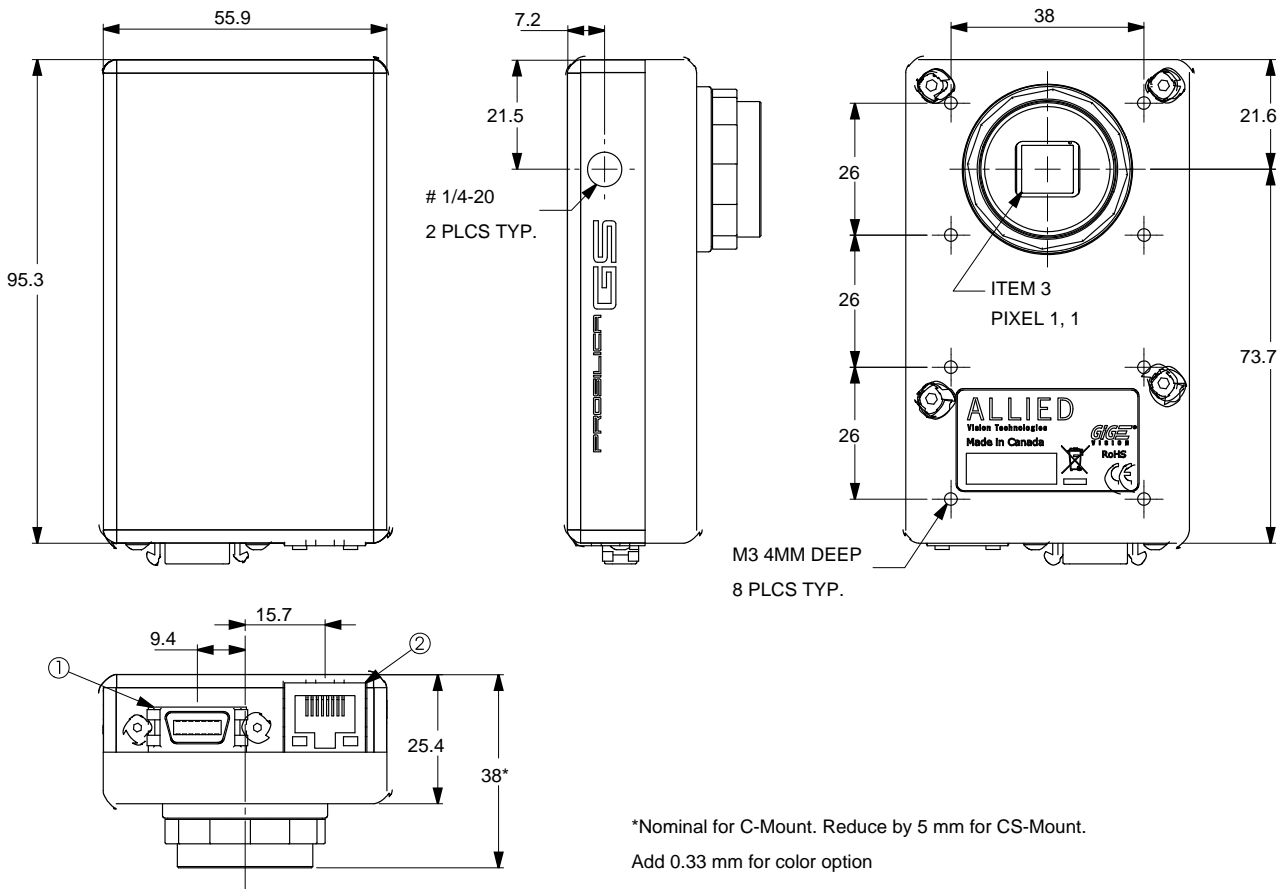
Features

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 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 GS660 is ideal for a wide range of applications including:

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