

Prosilica GS

650



- Right-angle CCD camera with low height profile
- High frame rate
- Video-type auto iris
- Landscape or portrait sensor orientation

Description

90-degree GigE Vision camera, VGA resolution, 120 frames per second

Prosilica GS650/GS650C is a fast, VGA resolution, high-performance machine vision camera with Gigabit Ethernet interface. The CCD sensor has excellent image quality and sensitivity. This camera is available in landscape or portrait orientation. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Options:

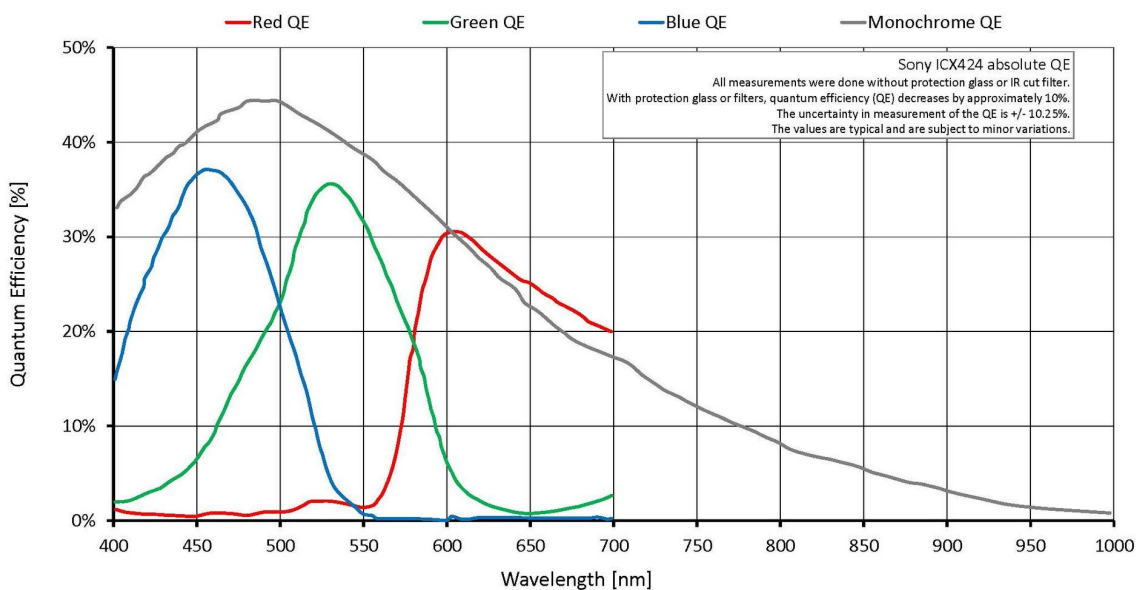
- CS-Mount
- Optical filters (IR cut filter/Protection glass)
- White medical housing

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

Specifications

Prosilica GS	650
Interface	IEEE 802.3 1000baseT
Resolution	659 (H) × 493 (V)
Sensor	Sony ICX424
Sensor type	CCD Progressive
Cell size	7.4 μm x 7.4 μm
Lens mount	C-Mount
Max frame rate at full resolution	120 fps
ADC	14 bit
Image buffer (RAM)	16 MByte
Output	

Prosilica GS	650
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 W
Mass	184 g
Body dimensions (L × W × H in mm)	96 × 56 × 26 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



Features

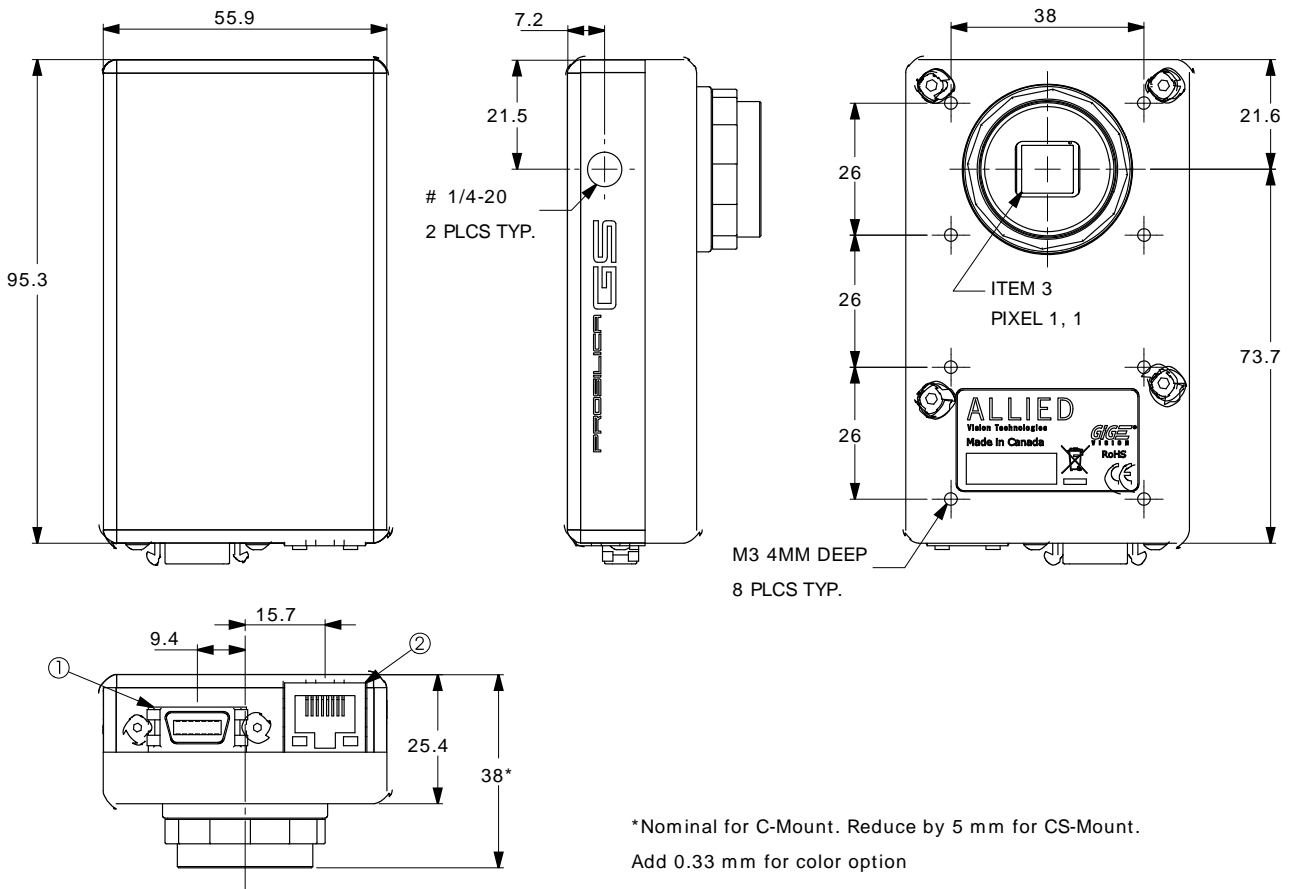
Prosilica GS650/GS650C features include:

- 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 78.5 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 GS650/GS650C is ideal for a wide range of applications including:

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