

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.

Options:

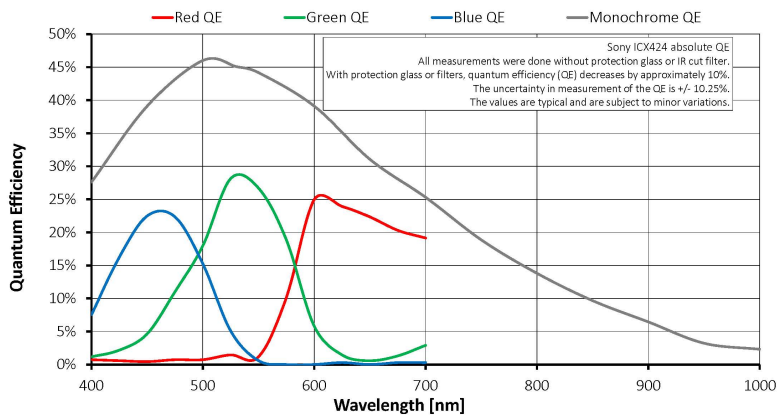
- CS-Mount
- Optical filters (IR cut filter/Protection glass)
- White medical housing

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
Bit depth	8/12 bit

Prosilica GS	650
Mono modes	Mono8, Mono12, Mono12Packed
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 × 260 (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
- 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

Applications

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

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