Allied Vision

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 fps

Prosilica GS650 is a fast, VGA resolution, high-performance machine vision camera with Gigabit Ethernet interface. The CCD sensor has excellent image quality and sensitivity. GS650 is available in landscape or portrait orientation.
Options

- IR cut filter, CS-Mount
- White medical housing

Specifications

Prosilica GS	**650**
Interface	IEEE 802.3 1000baseT
Resolution	659 × 493
Sensor	Sony ICX424
Sensor type	CCD Progressive
Cell size	7.4 µm
Lens mount	C-Mount, CS-Mount
Max frame rate at full resolution	120 fps
ADC	14 bit
On-board FIFO	16 Mbyte
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed
Color modes RGB	RGB8Packed, BGR8Packed

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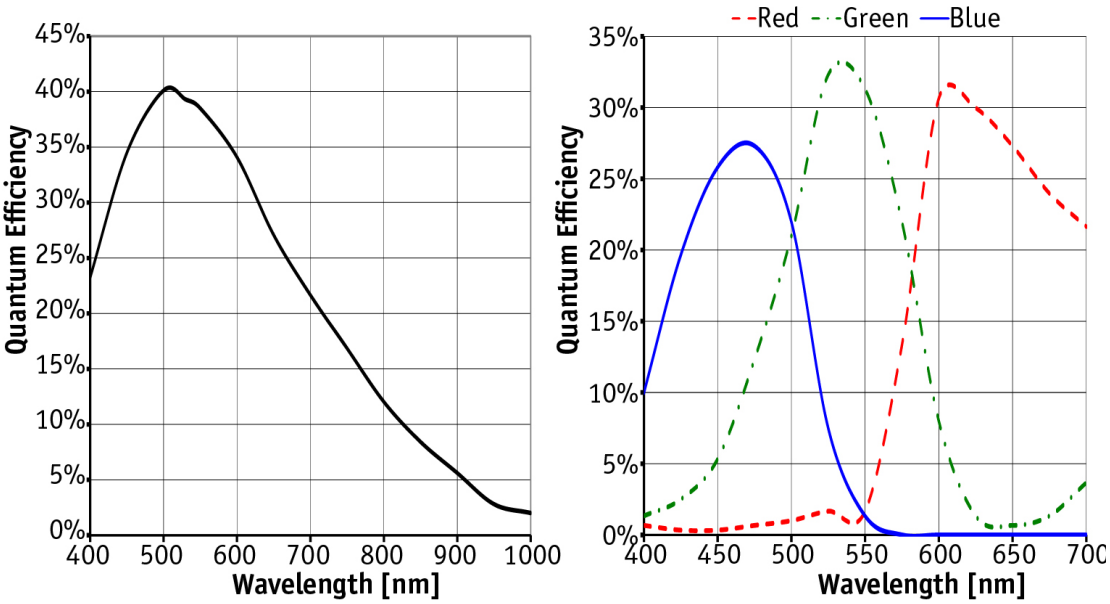
Raw modes	BayerRG8, BayerRG12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS-232	1
Operating conditions/dimensions	
Operating temperature	0°C ... +50°C
Power requirements (DC)	5-25 VDC*
Power consumption (@12 V)	3W
Mass	184 g
Body dimensions (L × W × H in mm)	96 × 56 × 26 including connectors, w/o tripod and lens
Regulations	CE, FCC Class A, RoHS (2011/65/EU)



Features

Prosilica GS650 features include:

- Video-type auto iris
- ROI, DSP subregion (selectable ROI for auto features)
- Binning
- Auto gain (manual gain control: 0 to 30 dB)
- Auto exposure (manual exposure controls: 10 µs 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
- Chunk data
- Storable user sets

Applications

Prosilica GS650 is suitable for applications where speed and excellent image quality are key requirements. These include:

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