

**GS650**

Description

90-degree GigE Vision camera, VGA resolution, 120 fps

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

- Sony ICX424 Progressive Scan CCD
- 120 fps at 659x493
- Global shutter (Snapshot shutter)

- **Models:**

- GS650, 659x493, 120 fps, CCD, Mono
- GS650C, 659x493, 120 fps, CCD, Color
- GS650-P, 659x493, 120 fps, CCD, Mono, Portrait
- GS650C-P, 659x493, 120 fps, CCD, Color, Portrait

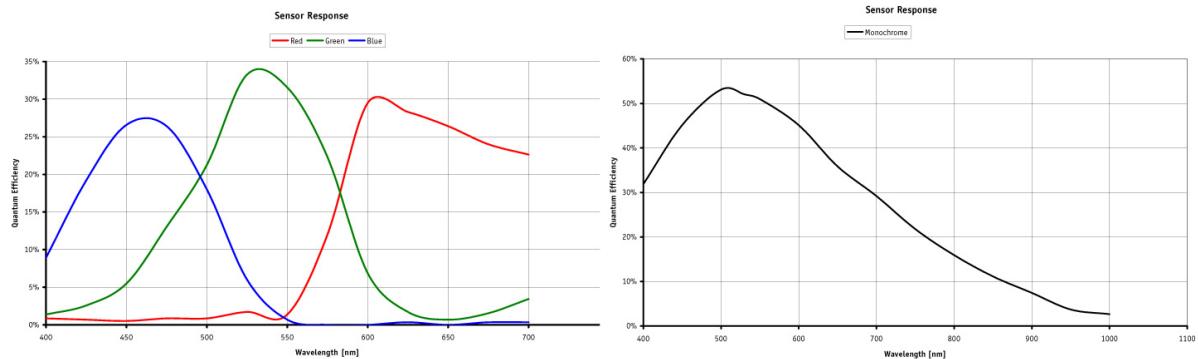
- **Modular Options:**

- White Medical enclosure
- CS Lens Mount (Factory conversion)
- IRC Filter on Monochrome cameras (Factory installation)

Specifications

Prosilica GS		650
Interface		IEEE 802.3 1000baseT
Resolution		659 x 493
Sensor		Sony ICX424
Type		CCD Progressive
Sensor Size		Type 1/3
Cell size		7.4 μ m
Lens mount		C/CS
Max frame rate at full resolution		120 fps
A/D		14 bit
On-board FIFO		16 MB
		Output
Bit depth		8/12 bit
Mono modes		Mono8, Mono12, Mono16
Color modes YUV		YUV411, YUV422, YUV444
Color modes RGB		RGB24, BGR24, RGBA24, BGRA24
Raw modes		Bayer8, Bayer12, Bayer16
General purpose inputs/outputs (GPIOs)		
TTL I/Os		1 input, 1 output
Opto-coupled I/Os		1 input, 1 output
RS-232		1
Power/Mass/Dimensions/Regulations		
Power requirements (DC)		5V - 25V
Power consumption (12 V)		3W
Mass		184 g
Body Dimensions (L x W x H in mm)	96x56x26 including connectors, w/o tripod and lens	
Regulations	CE, FCC, Class A, RoHS	

[Download Prosilica GS650 technical drawing \(click here\)](#)



Smart features

The GS650 features include:

- Auto Exposure
- Auto Gain
- Auto White balance
- Flexible Binning
- Region of Interest readout (AOI partial scan)
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Asynchronous external trigger and sync I/O
- Global shutter (digital shutter)
- Recorder and Multiframe Acquisition Modes

Applications

The 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