

## Description

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

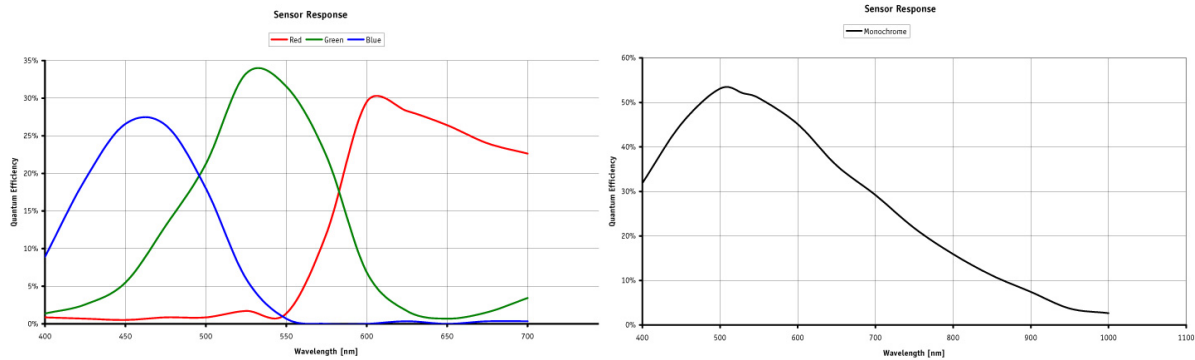
The GS650 is a fast, VGA resolution, high-performance machine vision camera with Gigabit Ethernet interface (GigE Vision®). The CCD sensor has excellent image quality and sensitivity. The GS650 is available in landscape or portrait orientation.

- 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

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