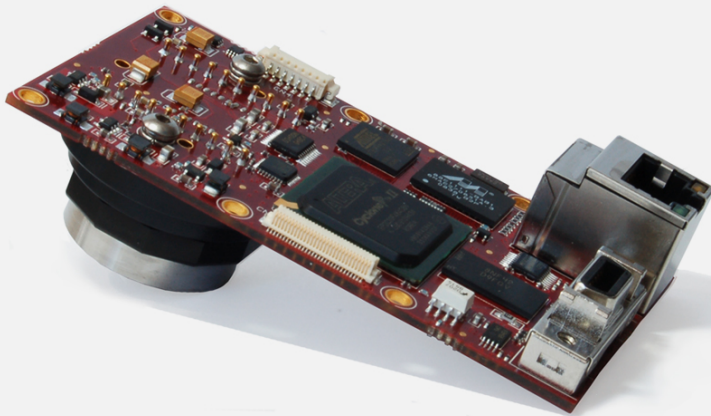


## GB650



### Description

#### Single-board CCD camera, VGA resolution - 120 fps

The GB650 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 GB650 is available in portrait or landscape sensor orientation and with in-line or vertical connector orientation.

#### Models:

- GB650, 659x493, 120 fps, CCD, Mono
- GB650C, 659x493, 120 fps, CCD, Color
- GB650-V, 659x493, CCD, Mono, Vertical
- GB650C-V, 659x493, CCD, Color, Vertical
- GB650-P, 659x493, CCD, Mono, Portrait
- GB650C-P, 659x493, CCD, Color, Portrait
- GB650-PV, 659x493, CCD, Mono, Portrait, Vertical
- GB650C-PV, 659x493, CCD, Color, Portrait, Vertical

>> [Explanation of model suffixes \(-P, -V, -PV, portrait, vertical\)](#)

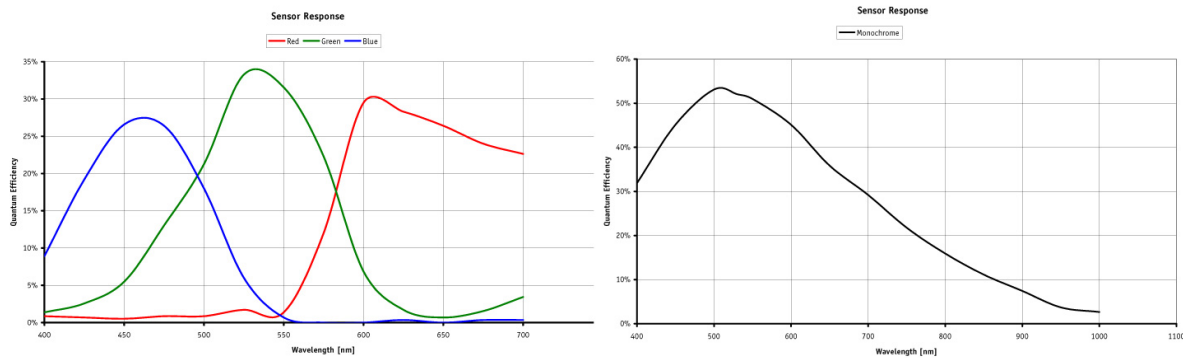
**Features include:**

- 120 fps at 659x493
- Progressive Scan CCD
- Global shutter (Snapshot shutter)
- Gigabit Ethernet interface

**Specifications**

<b>Prosilica GB</b>	<b>GB650</b>
<b>Resolution</b>	659 x 493
<b>Max frame rate at full resolution</b>	120 fps
<b>Type</b>	CCD Progressive
<b>Interface</b>	IEEE 802.3 1000baseT
<b>A/D</b>	14 bit
<b>Output</b>	8/12 bit
<b>Sensor Size</b>	Type 1/3
<b>Sensor</b>	Sony ICX424
<b>Cell size</b>	7.4 µm
<b>On-board FIFO</b>	16 MB
<b>Body Dimensions (L x W x H in mm)</b>	51 x 89 mm (Board Size - W x L)

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



## Smart features

### The GB650 features include:

- 120 fps at 659 x 493
- Progressive Scan CCD
- Global shutter (Snapshot shutter)
- Gigabit Ethernet interface
- Very small and light weight
- StreamBytesPerSecond (easy bandwidth control)
- Compliant with the AIA GigE Vision standard
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Software development Kit
- Color output modes include RGB color
- Available in Landscape or Portrait orientation [\[more info\]](#)
- Available with in-line, or vertical connector orientation >> [\[more info\]](#)

## Applications

The GB650 is suitable for applications where speed and excellent image quality are key requirements. These include:

- machine vision
- industrial inspection
- public security
- traffic monitoring
- robotics