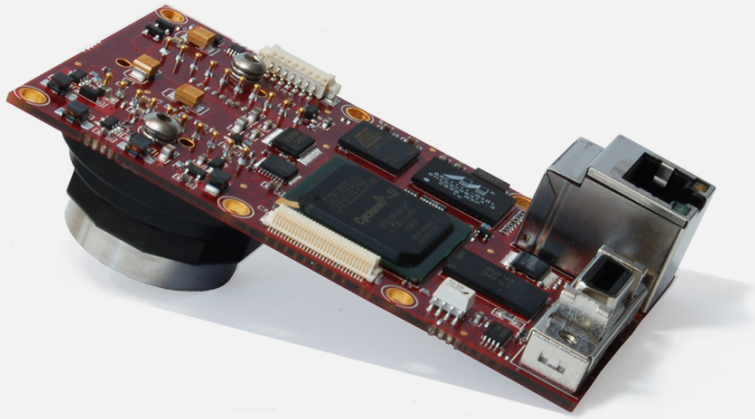


GB650

Description

Single-board CCD camera, VGA resolution - 120 fps

The GB650 is a fast, VGA resolution, high-performance single-board machine vision camera with Gigabit Ethernet interface (GigE Vision®).

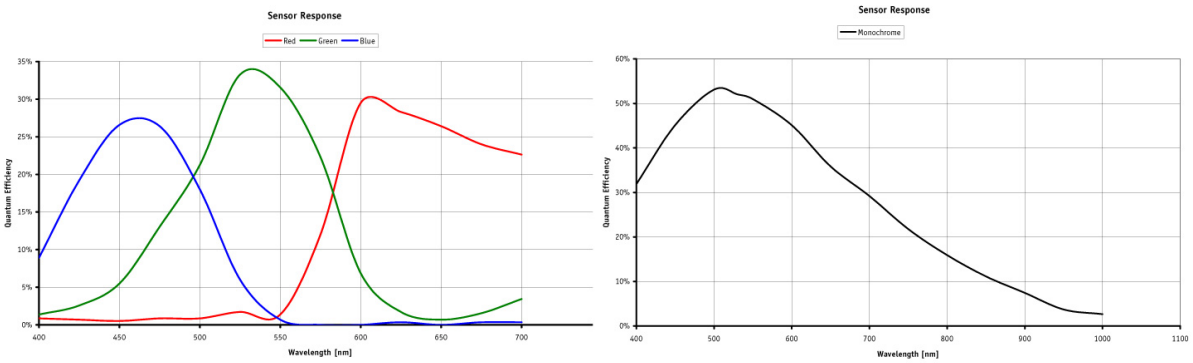
- Sony ICX424 Progressive Scan CCD
- 120 fps at 659x493
- available in portrait or landscape sensor orientation and with in-line or vertical connector orientation

- **Models:**
  - GB650, 659x493, 120 fps, CCD, Mono
  - GB650C, 659x493, 120 fps, CCD, Color
  - GB650-V, 659x493, 120 fps, CCD, Mono, Vertical
  - GB650C-V, 659x493, 120 fps, CCD, Color, Vertical
  - GB650-P, 659x493, 120 fps, CCD, Mono, Portrait
  - GB650C-P, 659x493, 120 fps, CCD, Color, Portrait
  - GB650-PV, 659x493, 120 fps, CCD, Mono, Portrait, Vertical
  - GB650C-PV, 659x493, 120 fps, CCD, Color, Portrait, Vertical
  - Explanation of model suffixes (-P, -V, -PV, portrait, vertical)

Specifications

Prosilica GB	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 µm
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)	3 W
Mass	59 g
Body Dimensions (L x W x H in mm)	51 x 89 mm (Board Size - W x L)
Regulations	RoHS, Class A

Download Prosilica GB650 technical drawing (click here)



Smart features

The GB650 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 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