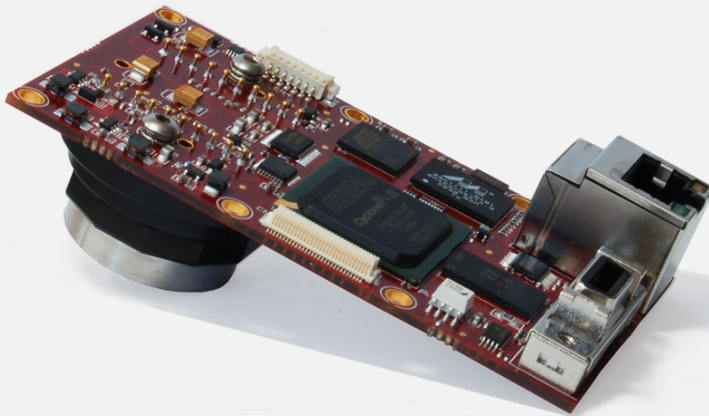


GB650



Description

Single-board CCD camera, VGA resolution - 120 fps

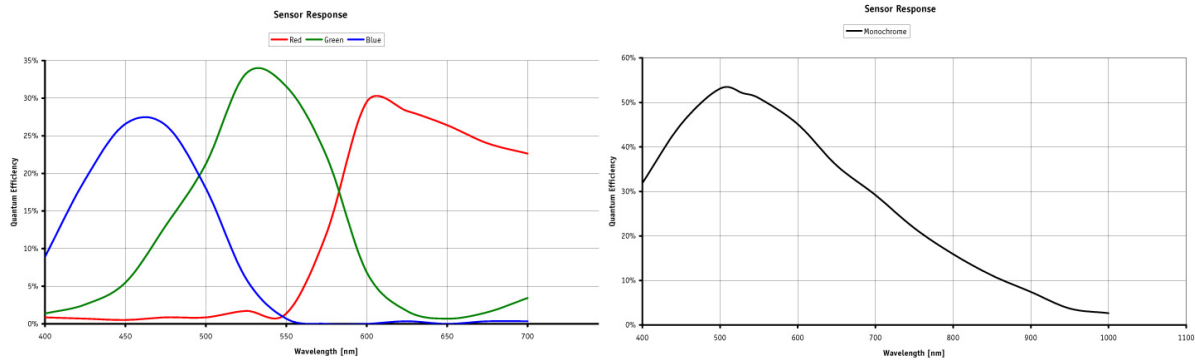
The GB650 is a fast, VGA resolution, high-performance single-board machine vision camera with Gigabit Ethernet interface (GigE Vision®).

- 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, Mono12Packed, Mono16	
Color modes YUV	YUV411, YUV422, YUV444	
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24	
Raw modes	Bayer8, Bayer12Packed, 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