

Description

5 Megapixel single-board CCD camera with GigE Vision

The 5 Megapixel GB2450 is a very high-resolution CCD single-board camera with Gigabit Ethernet output (GigE Vision®). The GB2450 incorporates the high-quality Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise.

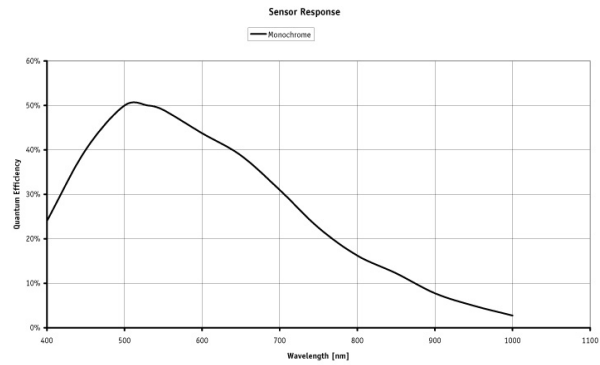
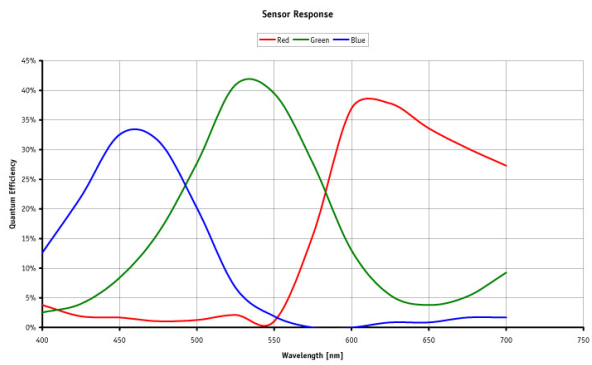
- Sony ICX625 Progressive Scan CCD
- 15 fps at full resolution at 2448x2050
- Available with optional vertical connector orientation

- **Models:**
 - GB2450, 2448x2050, 15 fps, CCD, Mono
 - GB2450C, 2448x2050, 15 fps, CCD, Color
 - GB2450-V, 2448x2050, 15 fps, CCD, Mono, Vertical
 - GB2450C-V, 2448x2050, 15 fps, CCD, Color, Vertical
 - Explanation of model suffixes (-P, -V, -PV, portrait, vertical)

Specifications

Prosilica GB 2450	
Interface	IEEE 802.3 1000baseT
Resolution	2448 x 2050
Sensor	Sony ICX625
Type	CCD Progressive
Sensor Size	Type 2/3
Cell size	3.45 µm
Lens mount	C/CS
Max frame rate at full resolution	15 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)	3.8 V
Mass	54 g
Body Dimensions (L x W x H in mm)	51 x 89 (board-size W x L)
Regulations	RoHS, Class A

[Download Prosilica GB2450 technical drawing \(click here\)](#)



Smart features

The GB2450 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 GB2450 is ideal for a wide range of applications including:

- LCD panel inspection
- high-resolution industrial inspection
- 3-D metrology
- general machine vision
- public security
- surveillance
- traffic imaging (Intelligent Traffic Systems)
- embedded systems
- OEM applications