

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.

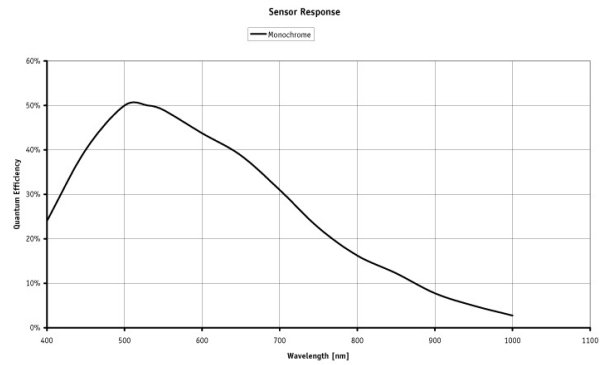
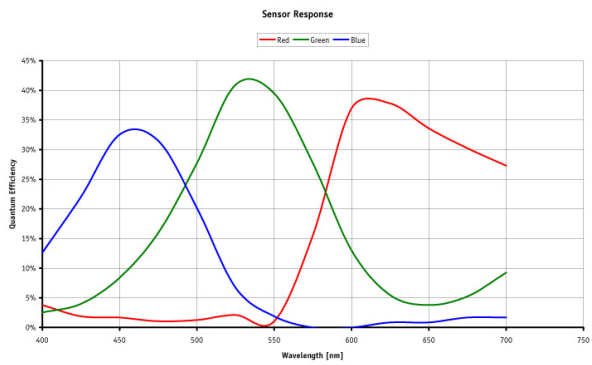
- Sony ICX625 Progressive Scan CCD
- 15 fps at full resolution at 2448x2050
- Available with optional vertical connector orientation

- **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, 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)	3.8 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