

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.

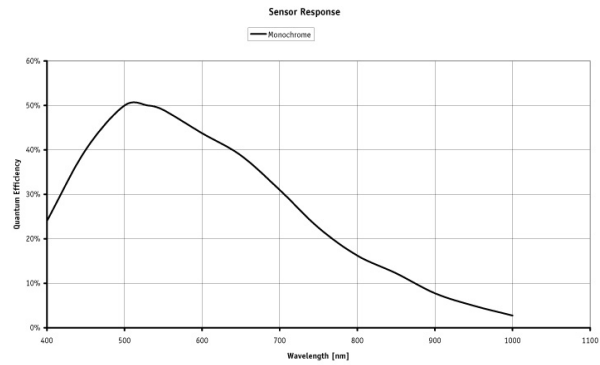
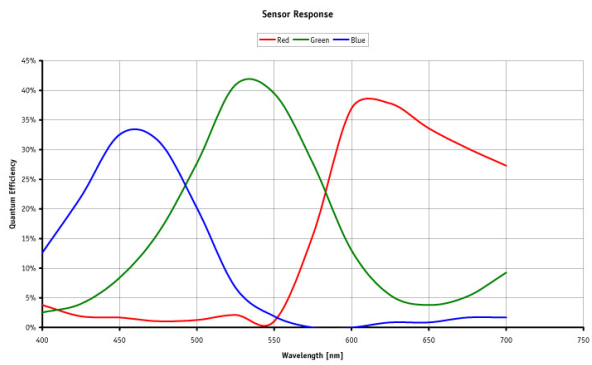
- Sony ICX625 Progressive Scan CCD
- 15 fps at full resolution at 2448x2050
- Available with optional vertical connector orientation

- **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, Mono16 | | |
| Color modes YUV | n/a | | |
| Color modes RGB | n/a | | |
| Raw modes | Bayer8, 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) | 12 V | | |
| 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