

Description

5 Megapixel single-board CCD camera with GigE Vision

The 5-megapixel GB2450 is a very high-resolution CCD camera with Gigabit Ethernet output. The GB2450 has a frame rate of 15 fps at 2448x2050 resolution. The sensor used in the GB2450 is the high-quality Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise.

The GigE Vision® compliant GB2450 works with standard gigabit Ethernet hardware and cable lengths up to 100 meters (300 ft) using conventional Cat-5e ethernet network cable.

The GB2450 is available with optional vertical connector orientation.

Models:

- GB2450, 2448x2050, CCD, Mono
- GB2450C, 2448x2050, CCD, Color
- GB2450-V, 2448x2050, CCD, Mono, Vertical
- GB2450C-V, 2448x2050, CCD, Color, Vertical

>> [Explanation of model suffixes \(-P, -V, -PV, portrait, vertical\)](#)

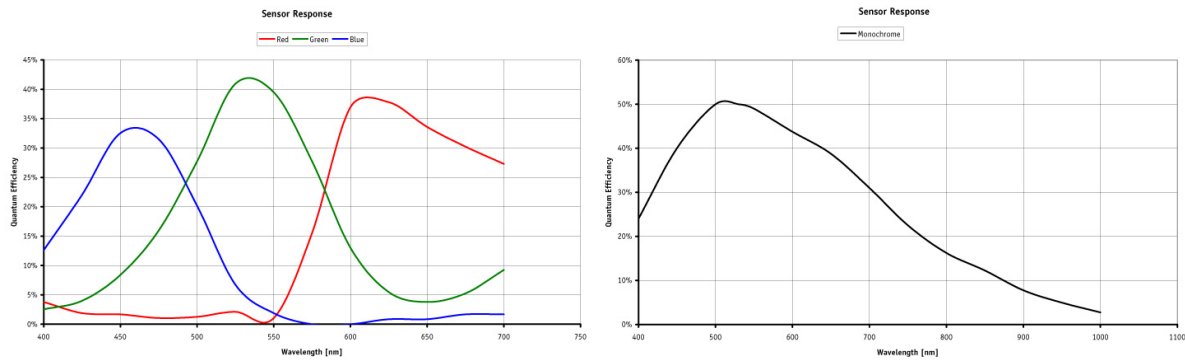
Features include:

- High resolution 2448x2050 pixels
- Fast - 15 fps at full resolution
- Progressive Scan - Global shutter
- Gigabit Ethernet interface

Specifications

Prosilica GB	GB2450
Resolution	2448 x 2050
Max frame rate at full resolution	15 fps
Type	CCD Progressive
Interface	IEEE 802.3 1000baseT
A/D	14 bit
Output	8/12 bit
Sensor Size	Type 2/3
Sensor	Sony ICX625
Cell size	3.45 µm
On-board FIFO	16 MB
Body Dimensions (L x W x H in mm)	51 x 89 (board-size W x L)

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



Smart features

The GB2450 features include:

- High resolution 2448x2050 pixels
- Fast - 15 frames per second at full resolution
- Progressive Scan - Global shutter (snapshot)
- Gigabit Ethernet interface
- GigE Vision™ compliant
- Asynchronous external trigger and sync I/O
- StreamBytesPerSecond (easy bandwidth control)
- Region of Interest readout (AOI partial scan)
- Long cables - up to 100 m
- 16 MB resend buffer
- Easy to use software development Kit (SDK)
- Color and monochrome models
- Optional vertical connector orientation [[more info](#)]

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