

Single Board Camera - 5 Megapixel



- High resolution 2448 x 2050 pixels
- Fast - 15 frames per second at full resolution
- Progressive Scan - Global shutter (snapshot)
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Available with in-line or vertical connector orientation

Resolution	2448 x2050
Sensor Type	2/3" CCD Super HAD progressive scan Sony ICX625
Pixel Size (µm)	3.45 x 3.45
Maximum Frame Rate	15 fps at 2448 x2050
Lens Mount	C-mount with adjustable back focus
Digital Interface*	GigE Vision 1.0
Interface Type	IEEE 802.3 1000baseT
Exposure Range	25µs to 60s
Region of Interest (ROI)	Independent x and y control; 1 pixel resolution
Binning	Independent H and V control
Imaging Modes	External trigger, Fixed frame rate, Software trigger
External Trigger Modes	Rising edge, Falling edge, Any edge, Level high, Level low
External Sync Modes	Trigger ready, Trigger input, Exposing, Readout, Imaging, Strobe, GPO
External Trigger/ Sync Connection	14-pin mini-DSub
Monochrome Modes	Mono8, Mono16‡
Color Modes	Bayer8, Bayer16
GPIO	1 isolated TTL input, 1 isolated TTL output, 1 non-isolated TTL input, 1 non-isolated TTL output, RS232 I/O
Power Consumption	3.8 W (12V)
Board Size (WxL) mm	50.8 x 88.9
Weight	54g
Conformity	RoHS
SDK	Free - includes sample code and driver

About the GB2450 / 2450C

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.

Applications for the GB2450C include

- 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

The Prosilica Advantage

- Image quality
- High reliability
- High performance
- Ultra-Compact
- Ease of use and integration
- Rich set of camera features

*GigE Vision™ is a trademark of the Automated Imaging Association
‡ Mono8 and Mono16 are available on the monochrome models only
Specifications are subject to change without notice

Please refer to the Prosilica web site for a full list of specifications