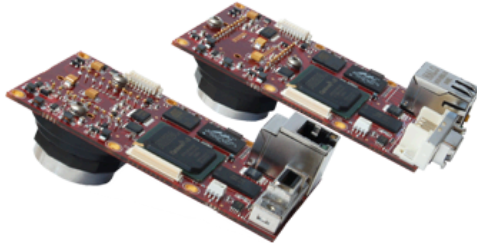


# Prosilica GB

## 2450



- Single board
- 15.1 fps @ full resolution
- Landscape sensor orientation
- Auto-iris (video type)

## 5 Megapixel single-board CCD camera with a GigE Vision interface

Prosilica GB2450 is a very high-resolution CCD single-board camera with Gigabit Ethernet interface. This camera incorporates the high-quality Type 2/3 (11.016 mm diagonal) Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise. At full resolution, this camera runs 15.1 frames per second. With a smaller region of interest, higher frame rates are possible. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

### Options:

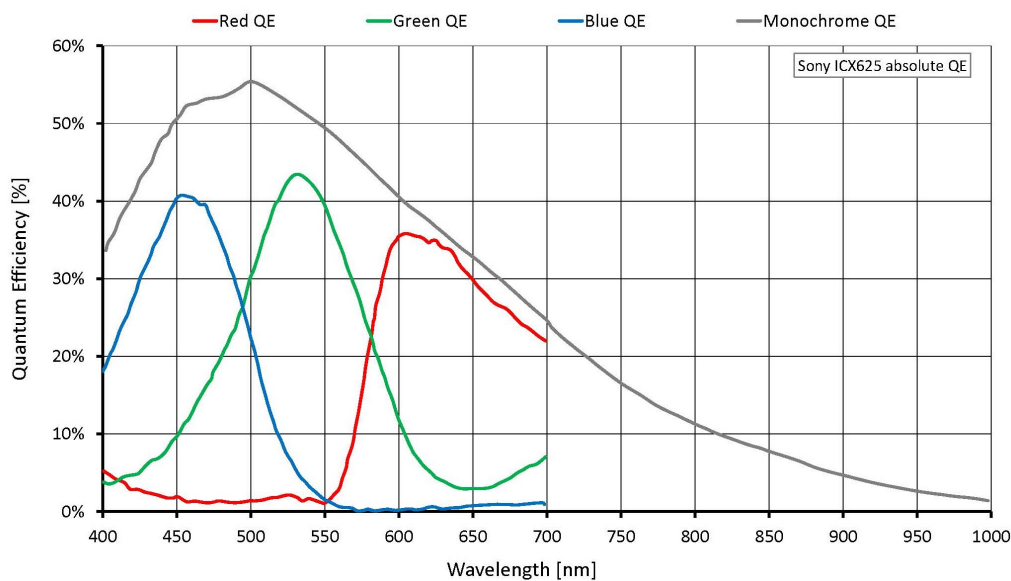
- Landscape sensor orientation
- Inline or vertical connector orientation

## 性能参数

Prosilica GB	2450
接口	IEEE 802.3 1000baseT
分辨率	2448 (H) × 2050 (V)
传感器	Sony ICX625
传感器类型	CCD Progressive
Shutter mode	Global shutter
传感器尺寸	Type 2/3
像元尺寸	3.45 μm × 3.45 μm
Lens mount (default)	C-Mount
最大满帧帧率	15.1 fps

Prosilica GB	2450
ADC	14 Bit
缓存 (RAM)	16 MByte
输出	
Bit位数	8/12 Bit
黑白像素格式	Mono8, Mono12, Mono12Packed
YUV彩色像素格式	YUV411Packed, YUV422Packed, YUV444Packed
RGB彩色像素格式	RGB8Packed, BGR8Packed
原始像素格式	BayerRG8, BayerRG12, BayerGR12Packed
通用输入输出(GPIOs)	
TTL I/Os	1 input, 1 output
光耦 I/Os	1 input, 1 output
RS232	1
工作条件/尺寸	
工作温度	0 °C to +70 °C ambient (without condensation)
电源要求 (DC)	5 to 25 VDC
功耗	3.8 V at 12 VDC
重量	54 g
尺寸 (L × W × H in mm)	51 × 89 (board-size W × L)
符合规范	2011/65/EU, including amendment 2015/863/EU (RoHS)

## 量子转换效率





## 特性

### Image optimization features:

- Auto gain (manual gain control: 0 to 30 dB; 1 dB increments)
- Auto exposure (manual exposure control: 10  $\mu$ s to 42.9 s; 1  $\mu$ s increments)
- Auto white balance (GB2450C only)
- Binning (sum)
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)

### Camera control features:

- Auto-iris (video type)
- Event channel
- Global shutter (digital shutter)
- Image chunk data
- Recorder and Multiframe acquisition modes
- RS232
- Storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO



## 应用场景

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

- LCD panel inspection
- High-resolution industrial inspection
- 3D metrologyGeneral machine vision
- Public security
- Surveillance
- Intelligent Traffic Systems (ITS)
- Embedded systems
- OEM applications