

GC2450



Description

Ultra-compact high resolution CCD camera - 5 Megapixels, 15 fps

The 5-megapixel GC2450 is a very high-resolution CCD camera with Gigabit Ethernet output (GigE Vision®). The GC2450 has a frame rate of 15 fps at 2448x2050 resolution. The sensor used in the GC2450 is the high-quality Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise.

- 5 Megapixels (2448x2050)
- Sony ICX625 CCD sensor
- **Models:**
 - GC2450, 2448x2050, 15 fps, CCD, mono
 - GC2450C, 2448x2050, 15 fps, CCD, color

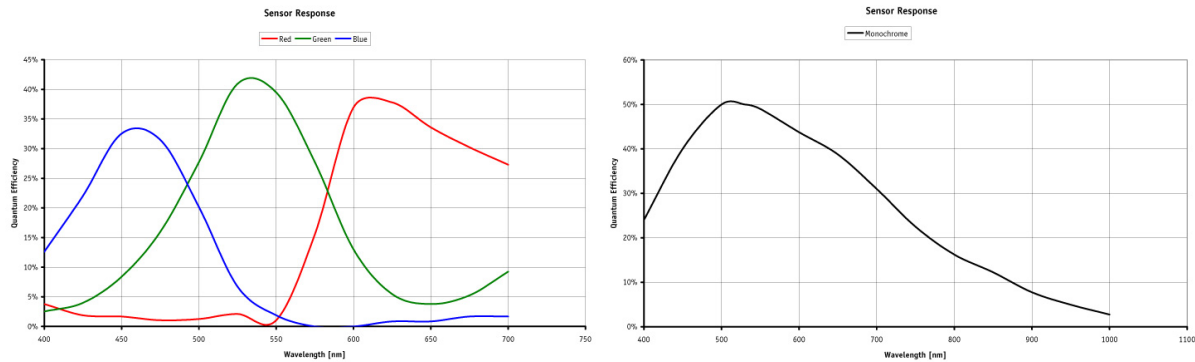
Important information: [Prosilica GC Power Voltage Specification Update](#)

Specifications

Prosilica GC		2450	
Interface	IEEE 802.3 1000baseT		
Resolution	2448 x 2050		
Sensor	Sony ICX625		
Sensor type	CCD Progressive		
Sensor size	Type 2/3		
Cell size	3.45 µm		
Lens mount	C		
Max frame rate at full resolution	15 fps		
A/D	12 bit		
On-board FIFO	16 MB		
Output			
Bit depth	8/12 bit		
Mono modes	Mono8, Mono12Packed, Mono16		
Color modes YUV	YUV411, YUV422, YUV444		
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24		
Raw modes	Bayer8, Bayer12Packed, Bayer16		
General purpose inputs/outputs (GPIOs)			
TTL I/Os	1 input, 1 output		
Opto-coupled I/Os	1 input, 1 output		
RS-232	1		
Operating conditions/Dimensions			
Power requirements (DC)	5-16 V*		
Power consumption (12 V)	3.8 W		
Mass	106 g		
Body Dimensions (L x W x H in mm)	59x46x33 including connectors, w/o tripod and lens		
Regulations	CE, FCC, Class A, RoHS		

* Cameras shipped after April 1, 2011 support 5-25 VDC. Please review the [Prosilica GC Power Voltage Specification Update](#) for further information.

[Download Prosilica GC2450 technical drawing \(click here\)](#)



Smart features

The GC2450 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 GC2450 is ideal for a wide range of applications including:

- high-resolution industrial inspection
- LCD panel inspection
- machine vision
- 3-D metrology
- public security
- surveillance
- traffic imaging (Intelligent Traffic Systems)
- embedded systems
- OEM applications

Application Case Studies: