

## 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

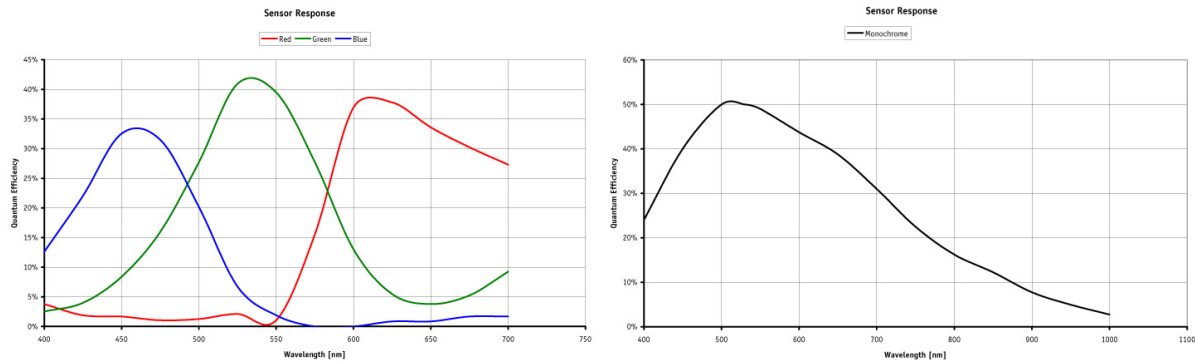
Important information: [Prosilica GC Power Voltage Specification Update](#)

## Specifications

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