

## GC1600



### Description

#### Ultra-compact 2 Megapixel CCD camera with GigE Vision

The 2 Megapixel GC1600 is a high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GC1600 incorporates a high-quality Sony CCD sensor providing excellent monochrome and color image quality. The GC1600 runs 15 frames per second at 1600 x1220 resolution and even faster with region of interest readout.

- Sony ICX274 Progressive scan CCD
- Very small and lightweight
- **Models:**
  - GC1600, 1620x1220, 15 fps, CCD, mono
  - GC1600C, 1620x1220, 15 fps, CCD, color

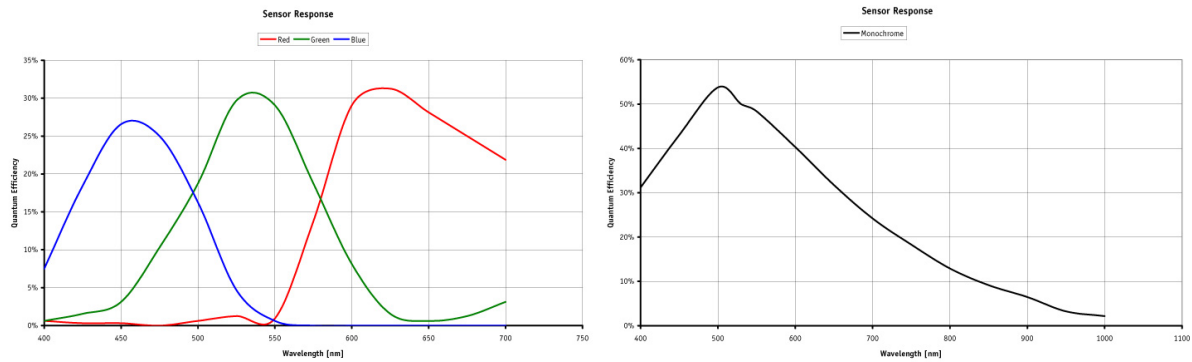
Important information: [Prosilica GC Power Voltage Specification Update](#)

## Specifications

<b>Prosilica GC</b>		<b>1600</b>
<b>Interface</b>	IEEE 802.3 1000baseT	
<b>Resolution</b>	1620 x 1220	
<b>Sensor</b>	Sony ICX274	
<b>Type</b>	CCD Progressive	
<b>Sensor Size</b>	Type 1/1.8	
<b>Cell size</b>	4.4 $\mu\text{m}$	
<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>	3.2 W	
<b>Mass</b>	97 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 GC1600 technical drawing \(click here\)](#)



## Smart features

The GC1600 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 GC1600 is ideal for a wide range of applications including:

- industrial inspection
- machine vision
- ophthalmology
- LCD panel inspection
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging
- OEM applications

### Application Case Study:

- **Prosilica Cameras Capture the Thrill of Roller Coaster Rides**  
Multimedia & Entertainment: 3db Solutions Inc. of Canada uses Prosilica GigE Vision cameras for systems producing souvenir photos in amusement parks.