

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

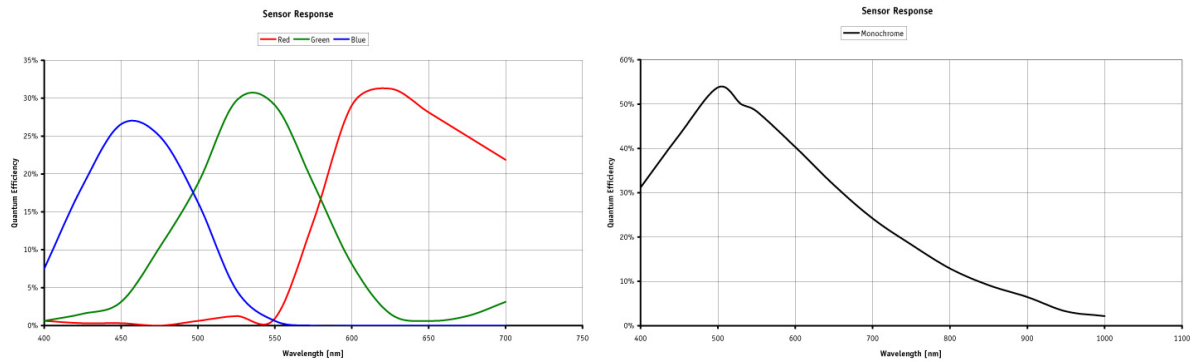
Important information: [Prosilica GC Power Voltage Specification Update](#)

Specifications

Prosilica GC		1600
Interface	IEEE 802.3 1000baseT	
Resolution	1620 x 1220	
Sensor	Sony ICX274	
Sensor type	CCD Progressive	
Sensor size	Type 1/1.8	
Cell size	4.4 μ m	
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)	3.2 W	
Mass	97 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 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.