

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.

The GC1600 works with standard gigabit Ethernet hardware and cables and can have cable lengths up to 100 meters (300 ft) long using conventional Cat5e.

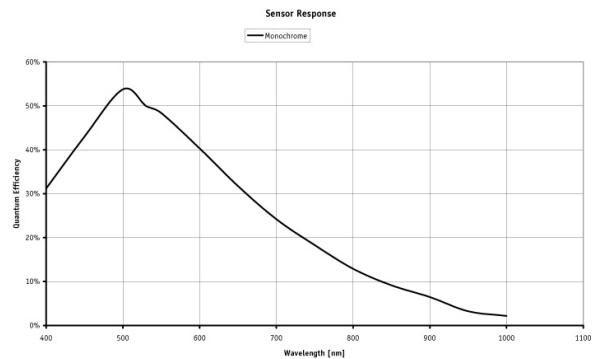
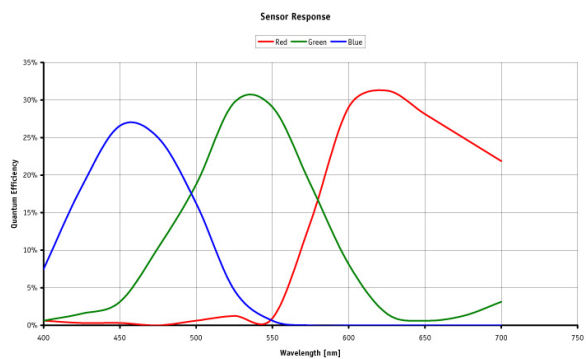
Features include:

- High resolution - 2 megapixels (1620x1220)
- Sony Progressive scan CCD
- Global shutter (Snapshot shutter)
- Very small and lightweight

Specifications

Prosilica GC	GC1600
Resolution	1620 x 1220
Max frame rate at full resolution	15 fps
Type	CCD Progressive
Interface	IEEE 802.3 1000baseT
A/D	12 bit
Output	8/12 bit
Sensor Size	Type 1/1.8
Sensor	Sony ICX274
Cell size	4.4 μm
On-board FIFO	16 MB
Body Dimensions (L x W x H in mm)	33x46x59 including connectors, w/o tripod and lens

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



Smart features

The GC1600 features include:

- High resolution - 2 megapixels (1620x1220)
- Sony Progressive scan CCD
- Global shutter (Snapshot shutter)
- StreamBytesPerSecond (easy bandwidth control)
- Very small and light weight
- Fast frame rate - 15 fps at full-resolution
- Gigabit Ethernet interface
- GigE Vision compliant
- Long cables up to 100 m on network cabling
- Region of Interest readout (AOI partial scan)
- Binning modes
- Software development kit
- Asynchronous external trigger and sync I/O
- Software development Kit

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.