

## GC1290



### Description

#### Megapixel CCD camera with Ex-View sensor - 32 fps

The GC1290 is a 1280x960 resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GC1290 incorporates a high-quality Sony Exview HAD CCD sensor providing excellent monochrome and color image quality.

The GC1290 runs more than 30 frames per second at full resolution and even faster with region of interest readout.

The GC1290 works with standard gigabit Ethernet hardware and cables and can have cable lengths up to 100 meters (330 ft) long using conventional Ethernet cabling (Cat5e).

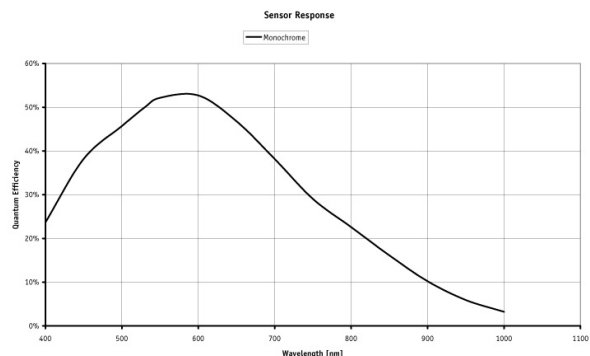
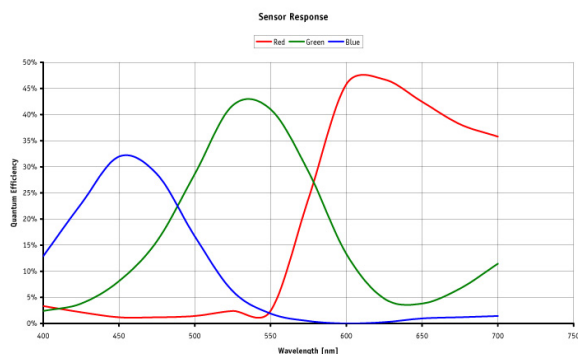
Features include:

- High resolution - 1290 x 960
- 3.75 x 3.75 um pixel size
- High Sensitivity ExView HAD sensor
- Sony Progressive scan CCD

## Specifications

Prosilica GC	GC1290
<b>Resolution</b>	1280 x 960
<b>Max frame rate at full resolution</b>	32 fps
<b>Type</b>	CCD Progressive
<b>Interface</b>	IEEE 802.3 1000baseT
<b>A/D</b>	12 bit
<b>Output</b>	8/12 bit
<b>Sensor Size</b>	Type 1/3
<b>Sensor</b>	Sony ICX445
<b>Cell size</b>	3.75 $\mu\text{m}$
<b>On-board FIFO</b>	16 MB
<b>Body Dimensions (L x W x H in mm)</b>	33x46x59 including connectors, w/o tripod and lens

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



## Smart features

The GC1290 features include:

- High resolution - 1290 x 960
- 3.75 x 3.75 um pixel size
- High Sensitivity ExView HAD sensor
- Sony Progressive scan CCD
- StreamBytesPerSecond (easy bandwidth control)
- Gigabit Ethernet interface
- GigE Vision compliant
- Very small and light weight
- Global shutter (Snapshot shutter)
- More than 30 fps at full-resolution
- Even faster with Region of Interest readout
- Region of Interest readout (AOI partial scan)
- Binning Modes 2x2 to 8x8 and more
- Long cables - up to 100 m on network cabling
- Asynchronous external trigger and sync I/O
- Software development Kit

## **Applications**

The GC1290 is ideal for a wide range of applications including:

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

### **Application Case Studies:**

- **GigE Vision for 3D Medical Research**  
Prosilica GC1290 Gigabit Ethernet Cameras Used in 3D Arthritis Hand Scanner.