

GC1290



Description

Megapixel CCD camera with EXview 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.

- High Sensitivity Sony ICX445 EXview HAD sensor
- 3.75 x 3.75 um pixel size

• Models:

- GC1290, 1280x960, 32 fps, CCD, mono
- GC1290C, 1280x960, 32 fps, CCD, color

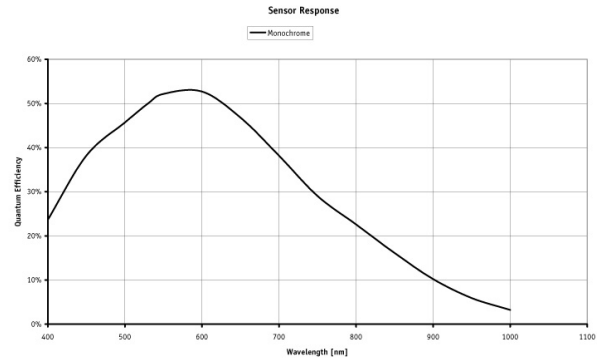
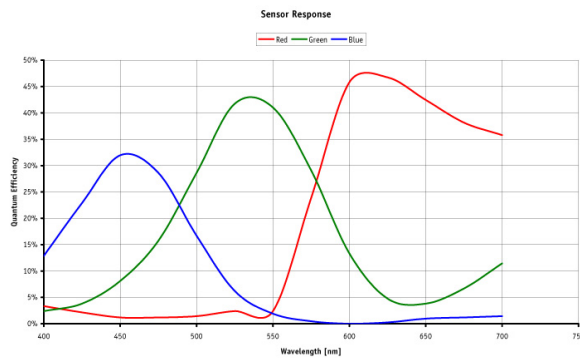
Important information: [Prosilica GC Power Voltage Specification Update](#)

Specifications

Prosilica GC		1290
Interface	IEEE 802.3 1000baseT	
Resolution	1280 x 960	
Sensor	Sony ICX445	
Sensor type	CCD Progressive	
Sensor size	Type 1/3	
Cell size	3.75 μ m	
Lens mount	C/CS	
Max frame rate at full resolution	32 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 W	
Mass	106 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 GC1290 technical drawing \(click here\)](#)



Smart features

The GC1290 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 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.