

## 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

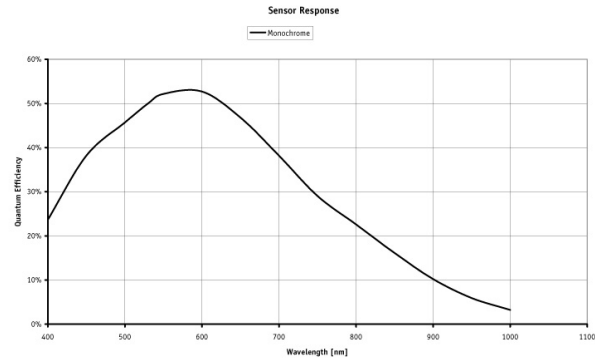
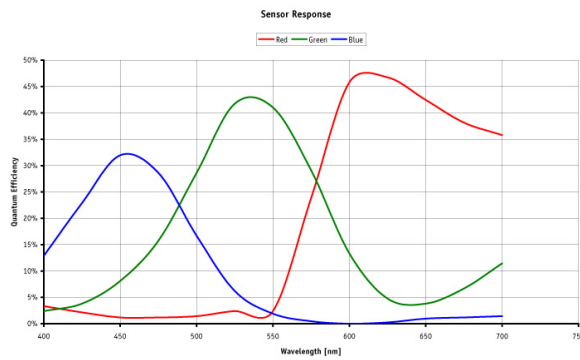
Important information: [Prosilica GC Power Voltage Specification Update](#)

## Specifications

<b>Prosilica GC</b>		<b>1290</b>
<b>Interface</b>	IEEE 802.3 1000baseT	
<b>Resolution</b>	1280 x 960	
<b>Sensor</b>	Sony ICX445	
<b>Sensor type</b>	CCD Progressive	
<b>Sensor size</b>	Type 1/3	
<b>Cell size</b>	3.75 $\mu$ m	
<b>Lens mount</b>	C/CS	
<b>Max frame rate at full resolution</b>	32 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>Operating conditions/Dimensions</b>		
<b>Power requirements (DC)</b>	5-16 V*	
<b>Power consumption (12 V)</b>	3 W	
<b>Mass</b>	106 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 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:

- **Parking Automation in Dubai**  
How machine vision technology brings relief to Dubai commuters.
- **GigE Vision for 3D Medical Research**  
Prosilica GC1290 Gigabit Ethernet Cameras Used in 3D Arthritis Hand Scanner.