

## GC1380H



### Description

#### High sensitivity 1.4 Megapixel CCD camera - 30 fps

The GC1380H, and its color counterpart, the GC1380CH, are high-speed versions of the very popular GC1380. The ultra-compact GC1380H is a very sensitive, high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision®) that runs 30 frames per second at full resolution. It incorporates the incomparable Sony ICX285 CCD sensor that uses ExView technology to provide high-sensitivity, excellent antiblooming, and superb image quality.

- Sony ICX285 ExView CCD
- Fast frame rate - 30 fps at full resolution
- **Models:**
  - GC1380H, 1360x1024, 30 fps, CCD, mono
  - GC1380CH, 1360x1024, 30 fps, CCD, color

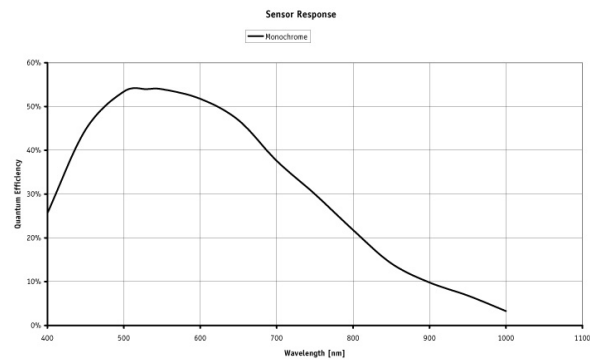
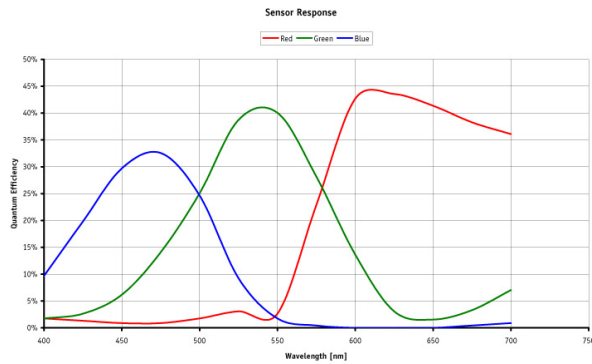
Important information: [Prosilica GC Power Voltage Specification Update](#)

## Specifications

<b>Prosilica GC</b>		<b>1380H</b>	
<b>Interface</b>	IEEE 802.3 1000baseT		
<b>Resolution</b>	1360 x 1024		
<b>Sensor</b>	Sony ICX285		
<b>Type</b>	CCD Progressive		
<b>Sensor Size</b>	Type 2/3		
<b>Cell size</b>	6.45 µm		
<b>Lens mount</b>	C		
<b>Max frame rate at full resolution</b>	30 fps		
<b>A/D</b>	14 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>Power/Mass/Dimensions/Regulations</b>			
<b>Power requirements (DC)</b>	5-16 V*		
<b>Power consumption (12 V)</b>	3.5 W		
<b>Mass</b>	111 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.

[Prosilica GC1380H technical drawing \(click here\)](#)



## Smart features

The GC1380H 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 GC1380H is ideal for a wide range of applications including:

- industrial inspection
- machine vision
- ophthalmology
- microscopy
- fluorescence
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging

### Application Case Studies:

- **Prosilica GigE Vision Cameras Tested for New NASA Recording System**  
Prosilica's GigE Vision GC Series Cameras are being tested by NASA as the Agency is looking to upgrade one of its existing space shuttle video/camera recording systems.