

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

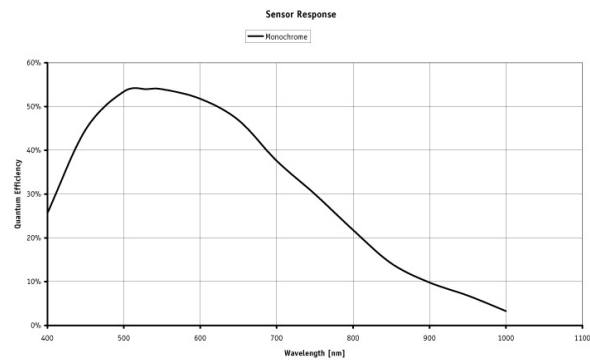
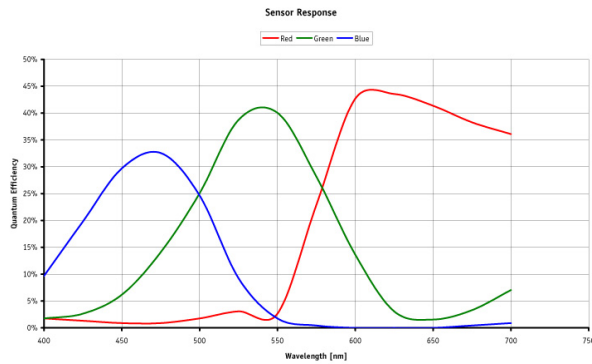
Important information: [Prosilica GC Power Voltage Specification Update](#)

Specifications

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

[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.