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.

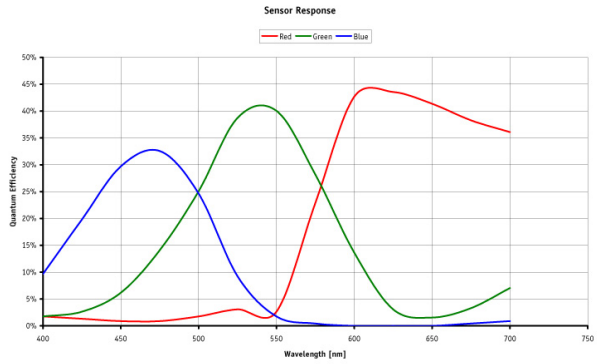
- Sony ICX285 ExView CCD
- Fast frame rate - 30 fps at full resolution

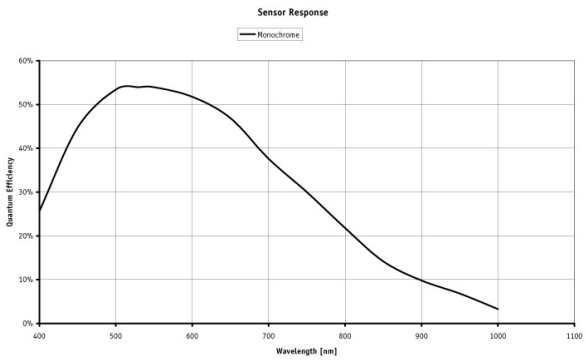
- **Models:**
  - GC1380H, 1360x1024, 30 fps, CCD, mono
  - GC1380CH, 1360x1024, 30 fps, CCD, color

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, Mono12, Mono16
Color modes YUV	YUV411, YUV422, YUV444
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24
Raw modes	Bayer8, Bayer12, 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)	12 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

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.