GC1380/1380C

Description

High sensitivity 1.4 Megapixel CCD camera with GigE Vision

The ultra-compact 1.4 Megapixel GC1380 is a very sensitive, high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GC1380 incorporates the incomparable Sony ICX285 CCD sensor with EXview technology providing high-sensitivity, low noise, excellent antiblooming, and superb image quality. The GC1380 runs 20 frames per second at 1360 x 1024 resolution and even faster with region of interest readout.

- Sony ICX285 2/3" EXview Progressive scan CCD
- High resolution - 1.4 megapixel (1360 x 1024)
- Exceptional image quality

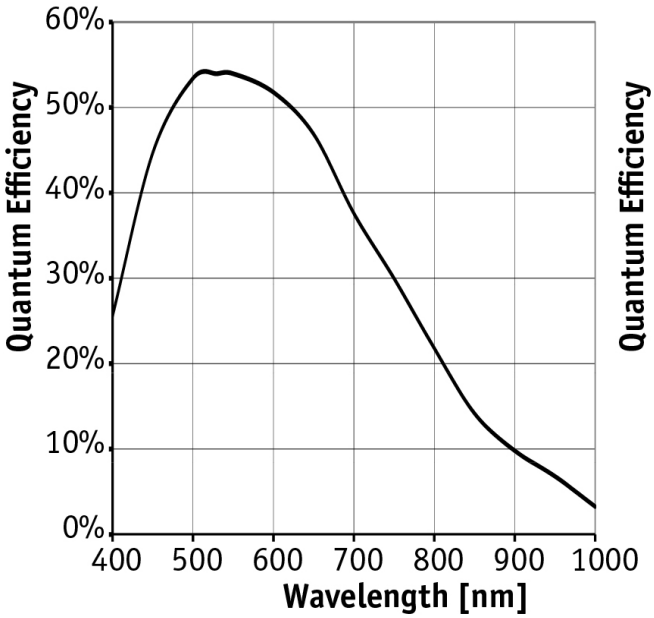
- **Models:**
  - GC1380, 1360 x 1024, 20 fps, CCD, mono
  - GC1380C, 1360 x 1024, 20 fps, CCD, color

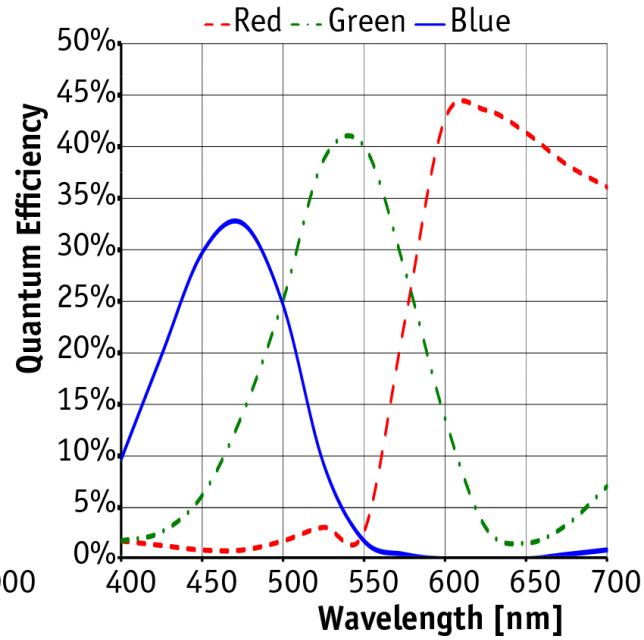
Specifications

Prosilica GC	1380
Interface	IEEE 802.3 1000baseT
Resolution	1360 x 1024
Sensor	Sony ICX285
Sensor type	CCD Progressive
Sensor size	Type 2/3
Cell size	6.45 µm
Lens mount	C (adjustable)
Max frame rate at full resolution	20 fps
A/D	12 bit
On-board FIFO	16 MB
	Output
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerGR12Packed
	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
Operating temperature	0°C ... +50°C
Power requirements (DC)	5-25 VDC*
Power consumption (12 V)	3.3 W
Mass	104 g
Body Dimensions (L x W x H in mm)	59 x 46 x 33 including connectors, w/o tripod and lens
Regulations	CE, FCC Class A, RoHS (2011/65/EU)

* 5–16 VDC for cameras with serial numbers from **02-XXXXX-06000** to **02-XXXXX-07999**

Download Prosilica GC1380 technical drawing (click here)





Smart features

The GC1380 features include:

- Auto Exposure
- Auto Gain
- Auto White balance
- Flexible Binning
- Region of Interest readout (AOI partial scan)
- StreamBytesPerSecond (easy bandwidth control)
- DSP subregion (selectable ROI for auto features)
- Stream hold
- Asynchronous external trigger and sync I/O
- Global shutter (digital shutter)
- Recorder and Multiframe Acquisition Modes

Applications

The GC1380 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 Study:

- **Prosilica GC GigE Camera in Coral Reef Fish Study**
  Science & Research: Prosilica GC GigE Vision Cameras used by research team of New Jersey Institute of Technology to assess population of endangered fish species in coral reefs.

- **Coming to a street near you**
  Prosilica GC1380C camera captures images for Microsoft Bing Maps Streetside.