GC1380

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 1360x1024 resolution and even faster with region of interest readout.

- Sony ICX285 2/3" ExView Progressive scan CCD
- High resolution - 1.4 megapixel (1360x1024)
- Exceptional image quality

- **Models:**
  - ◦ GC1380, 1360x1024, 20 fps, CCD, mono
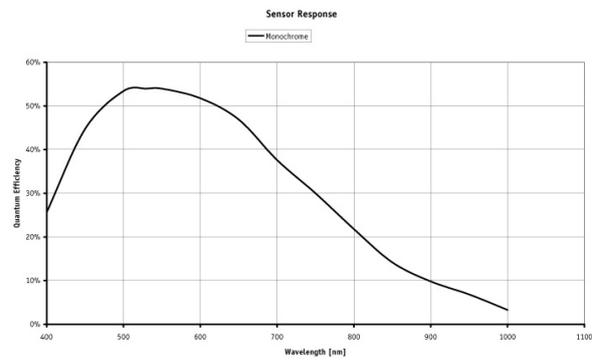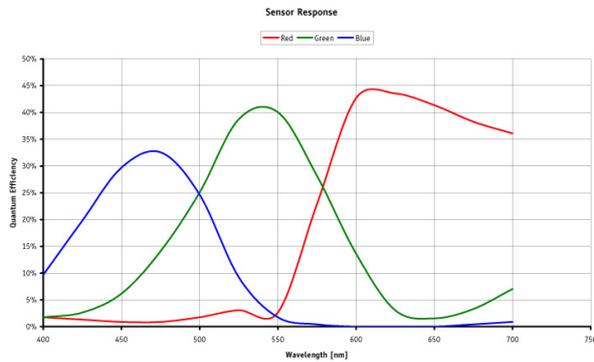 - ◦ GC1380C, 1360x1024, 20 fps, CCD, color

Important information: Prosilica GC Power Voltage Specification Update

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
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, 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
	Operating conditions/Dimensions
Power requirements (DC)	5-16 V*
Power consumption (12 V)	3.3 W
Mass	104 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.

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)
- Stream hold
- Asynchronous external trigger and sync I/O
- Global shutter (digital shutter)
- Recorder and Multiframe Acquisition Modes

ALLIED

Vision Technologies

SEEING IS BELIEVING

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.