

GB1380/1380C



Description

1.4 Megapixel single-board GigE Vision camera - high sensitivity

The 1.4 Megapixel GB1380 is a very sensitive, high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GB1380 incorporates the Sony ICX285 CCD sensor with EXview technology providing high-sensitivity, low noise, excellent antiblooming, and superb image quality.

- Sony ICX285 2/3" Progressive scan CCD
- available in portrait or landscape sensor orientation and with in-line or vertical connector orientation

- **Models available:**

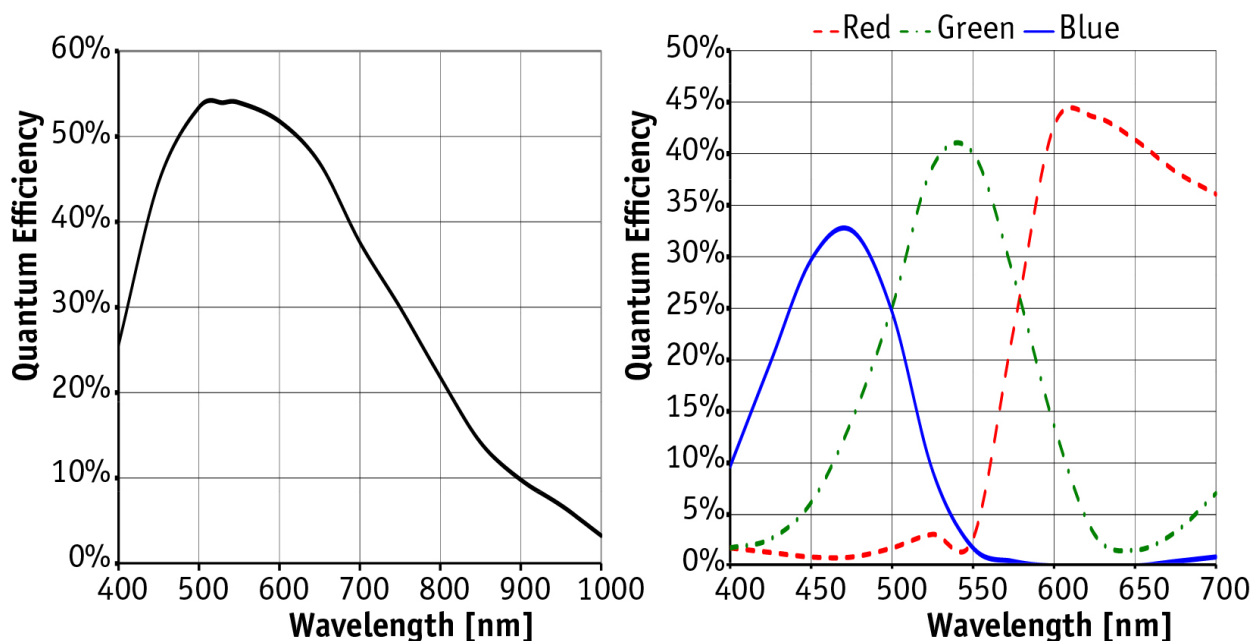
- GB1380, 1360 x 1024, 30 fps, CCD, Mono
- GB1380C, 1360 x 1024, 30 fps, CCD, Color
- GB1380-V, 1360 x 1024, 30 fps, CCD, Mono, Vertical
- GB1380C-V, 1360 x 1024, 30 fps, CCD, Color, Vertical
- GB1380-P, 1360 x 1024, 30 fps, CCD, Mono, Portrait
- GB1380C-P, 1360 x 1024, 30 fps, CCD, Color, Portrait
- GB1380-PV, 1360 x 1024, 30 fps, CCD, Mono, Portrait, Vertical
- GB1380C-PV, 1360 x 1024, 30 fps, CCD, Color, Portrait, Vertical
- Explanation of model suffixes (-P, -V, -PV, portrait, vertical)

Specifications

Prosilica GB 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) / CS
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, 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 ... +70°C
Power requirements (DC)	5-25 VDC*
Power consumption (12 V)	3.5 W
Mass	59 g
Body Dimensions (L x W x H in mm)	51 x 89 mm (board size - W x L)
Regulations	CE, FCC Class A, RoHS (2011/65/EU)

*5-16 VDC for cameras with SN: 02-22XXA

[Download Prosilica GB1380 technical drawing \(click here\)](#)



Smart features

The GB1380 features include:

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

Applications

The GB1380 is ideal for a wide range of applications including:

- Industrial inspection
- Machine vision
- Microscopy
- Ophthalmology
- Fluorescence
- Aeronautical and aerospace
- Public security
- Surveillance
- Traffic imaging