

GB1380

Description

1.4 Megapixel single-board GigE Vision camera - high sensitivity

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

The GB1380 runs 30 frames per second at 1360x1024 resolution and even faster with region of interest readout. The GB1380 works with standard gigabit Ethernet hardware and cables and can have cable lengths up to 100 meters (330 ft) long using conventional Cat-5e.

Models available:

The GB1380 is available in portrait or landscape sensor orientation and with in-line or vertical connector orientation:

- GB1380, 1360x1024, 30 fps, CCD, Mono
- GB1380C, 1360x1024, 30 fps, CCD, Color
- GB1380-V, 1360x1024, CCD, Mono, Vertical
- GB1380C-V, 1360x1024, CCD, Color, Vertical
- GB1380-P, 1360x1024, CCD, Mono, Portrait
- GB1380C-P, 1360x1024, CCD, Color, Portrait
- GB1380-PV, 1360x1024, CCD, Mono, Portrait, Vertical
- GB1380C-PV, 1360x1024, CCD, Color, Portrait, Vertical

>> [Explanation of model suffixes \(-P, -V, -PV, portrait, vertical\)](#)

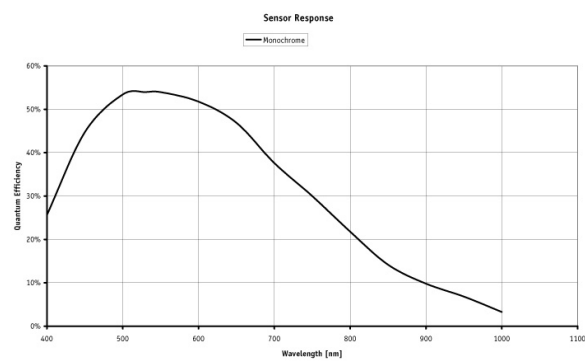
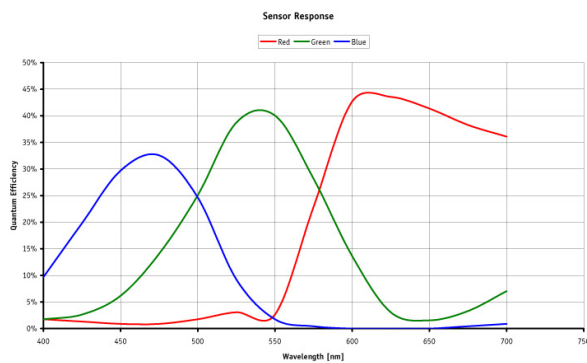
Features include:

- Very sensitive - High quantum efficiency
- Exceptional image quality
- High resolution - 1.4 megapixel
- Sony ICX285 2/3" Progressive scan CCD

Specifications

Prosilica GB	GB1380
Resolution	1360 x 1024
Max frame rate at full resolution	30 fps
Type	CCD Progressive
Interface	IEEE 802.3 1000baseT
A/D	14 bit
Output	8/12 bit
Sensor Size	Type 2/3
Sensor	Sony ICX285
Cell size	6.45 µm
On-board FIFO	16 MB
Body Dimensions (L x W x H in mm)	51 x 89 (board size - W x L)

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



Smart features

The GB1380 features include:

- Very sensitive - High quantum efficiency
- Exceptional image quality
- High resolution - 1.4 megapixel (1360x1024)
- Sony ICX285 2/3" Progressive scan CCD
- Global shutter (Snapshot shutter)
- Fast frame rate - 30 fps at full-resolution
- StreamBytesPerSecond (easy bandwidth control)
- Very small and light weight
- Gigabit Ethernet interface
- GigE Vision compliant
- Long cables - up to 100 m on network cabling
- Region of Interest readout (AOI partial scan)
- Binning modes
- Software development kit
- Asynchronous external trigger and sync I/O
- Software development Kit
- C-mount
- Available in Landscape or Portrait orientation [[more info](#)]
- Available with in-line, or vertical connector orientation [[more info](#)]

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