

GB1380

Description

1.4 Megapixel single-board GigE Vision camera - high sensitivity

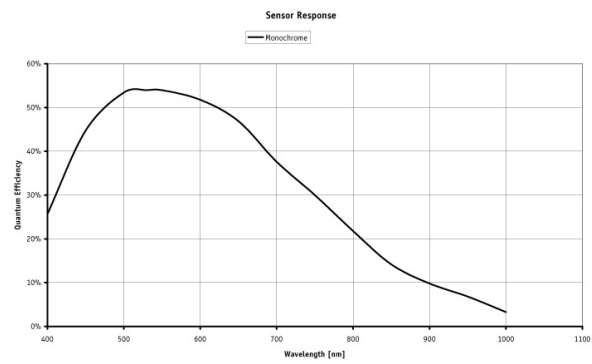
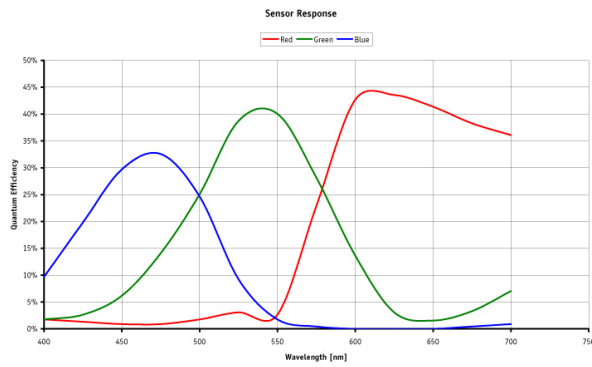
The 1.4 Megapixel GB1380 is a very sensitive, high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GB1380 incorporates the Sony ICX285 CCD sensor with ExView technology providing high-sensitivity, low noise, excellent antiblooming, and superb image quality.

- 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, 1360x1024, 30 fps, CCD, Mono
 - GB1380C, 1360x1024, 30 fps, CCD, Color
 - GB1380-V, 1360x1024, 30 fps, CCD, Mono, Vertical
 - GB1380C-V, 1360x1024, 30 fps, CCD, Color, Vertical
 - GB1380-P, 1360x1024, 30 fps, CCD, Mono, Portrait
 - GB1380C-P, 1360x1024, 30 fps, CCD, Color, Portrait
 - GB1380-PV, 1360x1024, 30 fps, CCD, Mono, Portrait, Vertical
 - GB1380C-PV, 1360x1024, 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		
Type	CCD Progressive		
Sensor Size	Type 2/3		
Cell size	6.45 µm		
Lens mount	C/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, 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		
Power/Mass/Dimensions/Regulations			
Power requirements (DC)	5V - 25V		
Power consumption (12 V)	3.5 W		
Mass	59 g		
Body Dimensions (L x W x H in mm)	51 x 89 (board size - W x L)		
Regulations	RoHS, Class A		

[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)
- 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