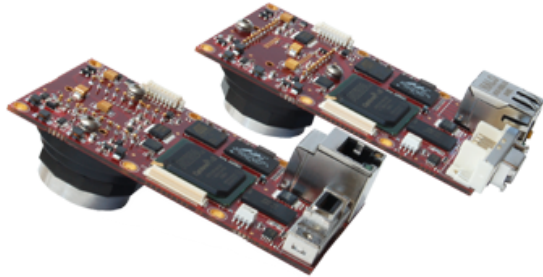


# Prosilica GB

## 1380



- Single board
- 30 fps at full resolution
- Landscape or portrait sensor orientation
- Auto-iris (video type)

### Landscape or portrait sensor orientation

Single-board OEM cameras with Gigabit Ethernet interface

Prosilica GB 1380 with Sony ICX285 runs 30.0 frames per second at 1.4 MP resolution.

Prosilica GB Gigabit Ethernet CCD cameras are single-board versions of our popular **GC** GigE Vision cameras. The credit card-sized Prosilica GB are high-performance machine vision cameras with Gigabit Ethernet interface (GigE Vision®).

- Ultra-compact size (2" x 3.5")
- VGA to 5 Megapixel resolution
- Fast frame rates to 120 fps
- Optional vertical connector orientation
- Portrait or landscape sensor orientation

## Specifications

Interface	IEEE 802.3 1000baseT
Resolution	1360 (H) × 1024 (V)
Sensor	Sony ICX285
Sensor type	CCD Progressive
Shutter mode	GS (Global shutter)
Sensor size	Type 2/3
Pixel size	6.45 μm × 6.45 μm
Lens mount (default)	C-Mount
Max. frame rate at full resolution	30 fps
ADC	14 Bit
Image buffer (RAM)	16 MByte

### Output

Bit depth	8-bit or 12-bit
Monochrome pixel formats	Mono8, Mono12, Mono12Packed
YUV color pixel formats	YUV411Packed, YUV422Packed, YUV444Packed
RGB color pixel formats	RGB8Packed, BGR8Packed
Raw pixel formats	BayerRG8, BayerRG12, BayerGR12Packed

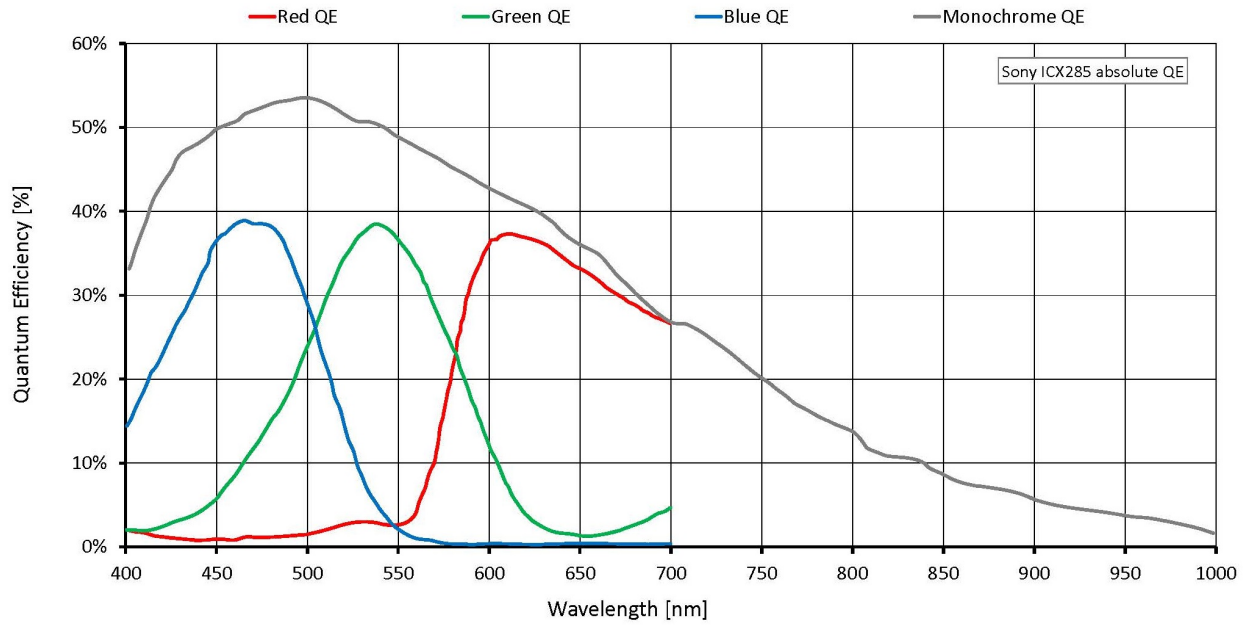
### General purpose inputs/outputs (GPIOs)

TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS232	1

### Operating conditions/dimensions

Operating temperature	0 °C to +70 °C
Power requirements (DC)	5 to 25 VDC
Power consumption	3.5 W at 12 VDC
Mass	59 g
Body dimensions (L × W × H in mm)	51 × 89 (board size - W × L)

## Quantum efficiency



## Features

### Image optimization features:

- Auto gain (manual gain control: 0 to 30 dB; 1 dB increments)
- Auto exposure (manual exposure control: 10  $\mu$ s to 78.5 s; 1  $\mu$ s increments)
- Auto white balance (GB1380C only)
- Binning (horizontal and vertical) (sum)
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)

### Camera control features:

- Auto-iris (video type)
- Event channel
- Global shutter (digital shutter)
- Image chunk data
- Recorder and Multiframe acquisition modes
- RS232
- Storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO

## Applications

Prosilica 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