

GC1280



Description

Ultra-compact GigE Vision camera - 1.3 Megapixel mono CMOS sensor

The GC1280 is an ultra-compact, high-resolution, machine vision camera with Gigabit Ethernet interface (GigE Vision®). The GC1280 runs 27 frames per second at 1280x1024 resolution over the GigE Vision-compliant Gigabit Ethernet interface. The CMOS sensor ON Semi IBIS5B has excellent anti-blooming characteristics.

The GC1280 has limited sensitivity and should be used only in applications that have ample illumination.

- 2/3" CMOS sensor ON Semi IBIS5B with 6.7 um square pixels
- Fast frame rate: 27 fps at full resolution

- **Models:**

- GC1280, 1280x1024, 27 fps, CMOS, mono

Important information: [Prosilica GC Power Voltage Specification Update](#)

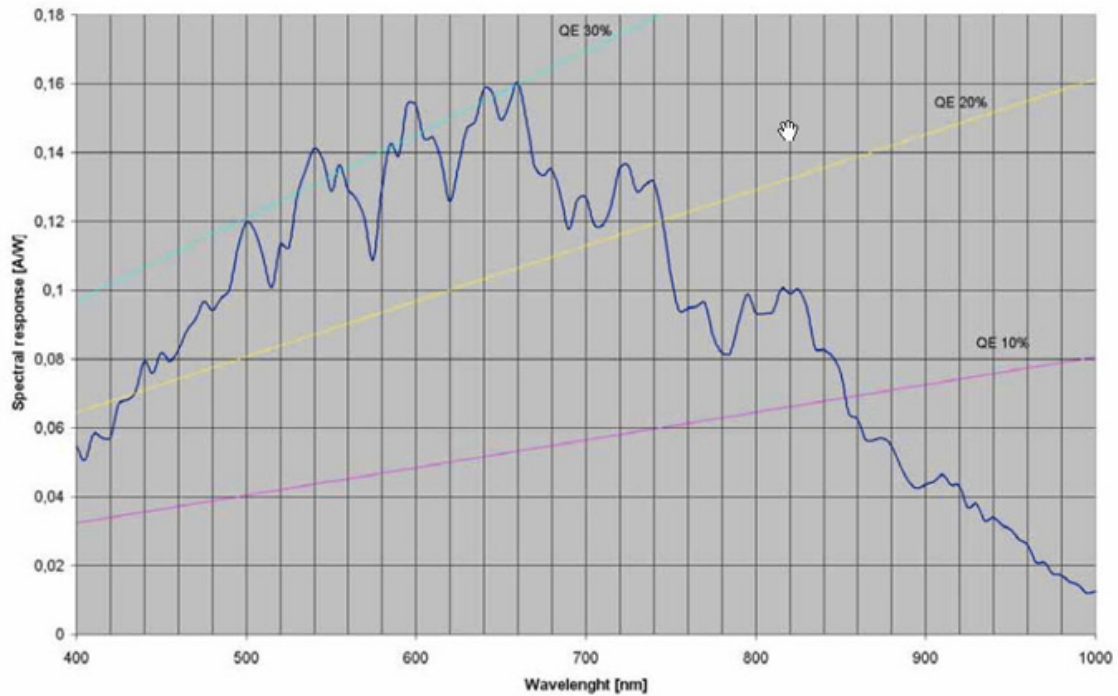
Specifications

Prosilica GC		1280
Interface	IEEE 802.3 1000baseT	
Resolution	1280 x 1024	
Sensor	ON Semi IBIS5B	
Sensor type	CMOS Progressive	
Sensor size	Type 2/3	
Cell size	6.7 μm	
Lens mount	C	
Max frame rate at full resolution	27 fps	
A/D	10 bit	
On-board FIFO	16 MB	
Output		
Bit depth	8/10 bit	
Mono modes	Mono8	
Color modes YUV	n/a	
Color modes RGB	n/a	
Raw modes	n/a	
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)	2.3 W	
Mass	93 g	
Body Dimensions (L x W x H in mm)	51x46x33 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 GC1280 technical drawing \(click here\)](#)

Sensor Response (monochrome)



Smart features

The GC1280 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 GC1280 has limited sensitivity and should be used only in applications that have ample illumination:

- industrial inspection
- machine vision
- ophthalmology
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging
- OEM applications