

## 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](#)

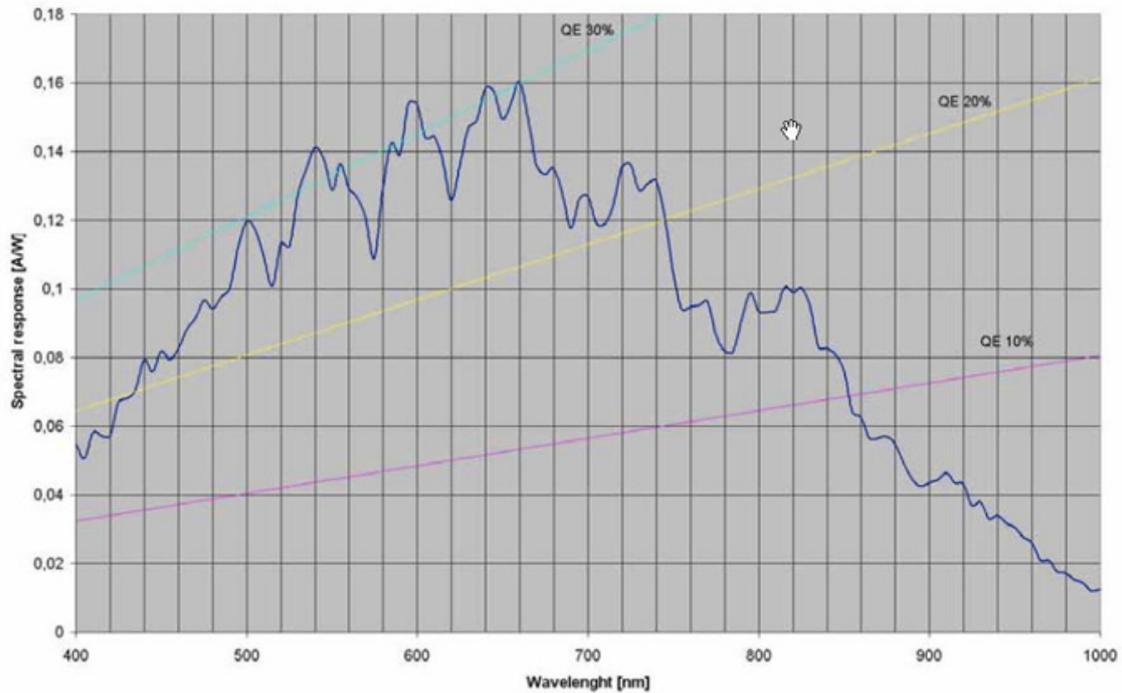
## Specifications

<b>Prosilica GC</b>		<b>1280</b>
<b>Interface</b>	IEEE 802.3 1000baseT	
<b>Resolution</b>	1280 x 1024	
<b>Sensor</b>	ON Semi IBIS5B	
<b>Type</b>	CMOS Progressive	
<b>Sensor Size</b>	Type 2/3	
<b>Cell size</b>	6.7 $\mu$ m	
<b>Lens mount</b>	C	
<b>Max frame rate at full resolution</b>	27 fps	
<b>A/D</b>	10 bit	
<b>On-board FIFO</b>	16 MB	
<b>Output</b>		
<b>Bit depth</b>	8/10 bit	
<b>Mono modes</b>	Mono8	
<b>Color modes YUV</b>	n/a	
<b>Color modes RGB</b>	n/a	
<b>Raw modes</b>	n/a	
<b>General purpose inputs/outputs (GPIOs)</b>		
<b>TTL I/Os</b>	1 input, 1 output	
<b>Opto-coupled I/Os</b>	1 input, 1 output	
<b>RS-232</b>	1	
<b>Power/Mass/Dimensions/Regulations</b>		
<b>Power requirements (DC)</b>	5-16 V*	
<b>Power consumption (12 V)</b>	2.3 W	
<b>Mass</b>	93 g	
<b>Body Dimensions (L x W x H in mm)</b>	51x46x33 including connectors, w/o tripod and lens	
<b>Regulations</b>	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