

## GC660



### Description

#### Fast CCD camera with EXview sensor - high sensitivity

The GC660 is a fast, VGA resolution, high performance machine vision camera with Gigabit Ethernet interface (GigE Vision®). The GC660 incorporates a Sony EXview HAD CCD sensor that has particularly high quantum efficiency and excellent NIR response for excellent image quality and sensitivity.

- Sony ICX618 ExView HAD sensor
- 119 fps at 659x493
- **Models:**
  - GC660, 659x493, 119 fps, CCD, mono
  - GC660C, 659x493, 119 fps, CCD, color

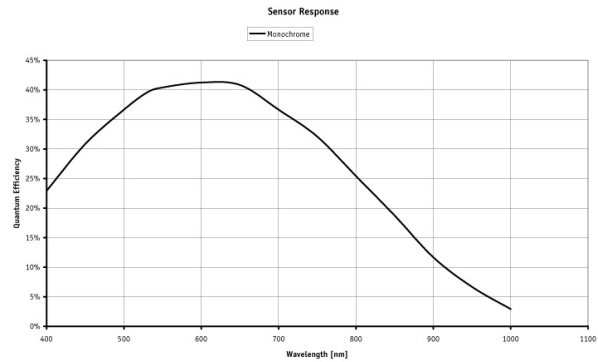
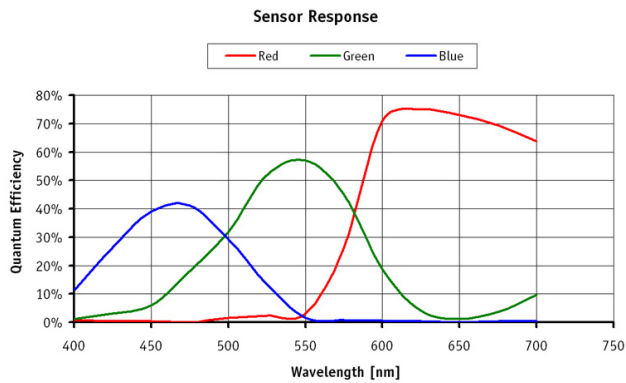
Important information: [Prosilica GC Power Voltage Specification Update](#)

## Specifications

<b>Prosilica GC</b>		<b>660</b>
<b>Interface</b>	IEEE 802.3 1000baseT	
<b>Resolution</b>	659 x 493	
<b>Sensor</b>	Sony ICX618	
<b>Sensor type</b>	CCD Progressive	
<b>Sensor size</b>	Type 1/4	
<b>Cell size</b>	5.6 $\mu\text{m}$	
<b>Lens mount</b>	C/CS	
<b>Max frame rate at full resolution</b>	119 fps	
<b>A/D</b>	12 bit	
<b>On-board FIFO</b>	16 MB	
<b>Output</b>		
<b>Bit depth</b>	8/12 bit	
<b>Mono modes</b>	Mono8, Mono12Packed, Mono16	
<b>Color modes YUV</b>	YUV411, YUV422, YUV444	
<b>Color modes RGB</b>	RGB24, BGR24, RGBA24, BGRA24	
<b>Raw modes</b>	Bayer8, Bayer12Packed, Bayer16	
<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>Operating conditions/Dimensions</b>		
<b>Power requirements (DC)</b>	5-16 V*	
<b>Power consumption (12 V)</b>	3 W	
<b>Mass</b>	105 g	
<b>Body Dimensions (L x W x H in mm)</b>	59x46x33 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 GC660 technical drawing \(click here\)](#)



## Smart features

The GC660 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 GC660 is ideal for a wide range of applications including:

- machine vision
- industrial inspection
- public security
- traffic monitoring
- robotics

### Application Case Studies:

- **Prosilica GigE Vision Cameras Tested for New NASA Recording System**  
Prosilica's GigE Vision GC Series Cameras are being tested by NASA as the Agency is looking to upgrade one of its existing space shuttle video/camera recording systems.