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

Prosilica GC	660
Interface	IEEE 802.3 1000baseT
Resolution	659 x 493
Sensor	Sony ICX618
Sensor type	CCD Progressive
Sensor size	Type 1/4
Cell size	5.6 µm
Lens mount	C/CS
Max frame rate at full resolution	119 fps
A/D	12 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
	Operating conditions/Dimensions
Power requirements (DC)	5-16 V*
Power consumption (12 V)	3 W
Mass	105 g
Body Dimensions (L x W x H in mm)	59x46x33 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 GC660 technical drawing (click here)
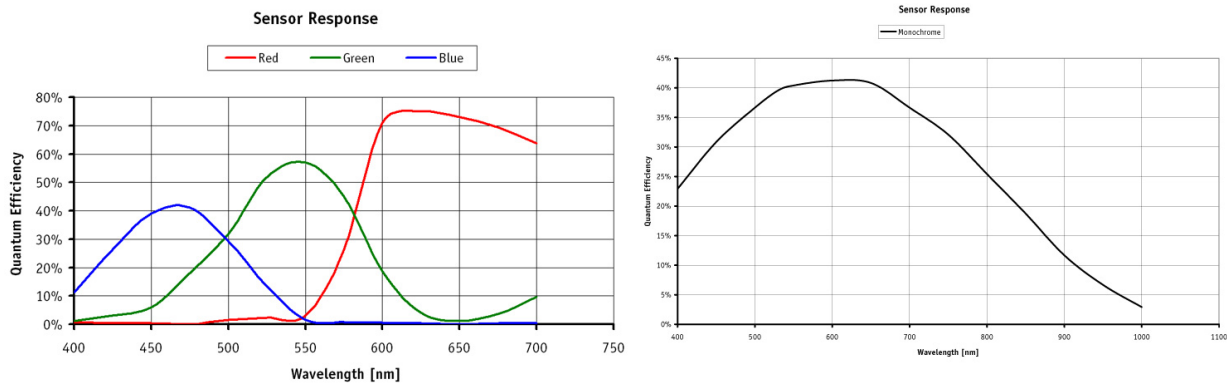
Smart features

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.