

GX2750/C



Description

6 Megapixel CCD camera with high frame rate - Dual port GigE

PRELIMINARY

The new 1" format Prosilica GX2750 is a high-resolution CCD camera with a Gigabit Ethernet interface (GigE Vision®). The GX2750 incorporates the new Sony ICX694 CCD sensor. Sony brings its ExView HAD technology previously utilized on lower resolution sensors such as the ICX285 to newer devices like the ICX694, adding higher resolution and fast frame rates to the technology's existing benefits, which include high sensitivity, near IR response, low noise, anti-blooming and excellent image quality.

The GX2750 has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBytes per second. The Prosilica GX2750 can also work at half the bandwidth (120 MB/s) using a single cable.

- 3-axis motorized lens controls
- video auto-iris
- Single or dual Ethernet port operation
- Thermal management enclosure

- **Models:**
 - GX2750, 2750x2200, 19 fps (single and dual port), CCD, mono
 - GX2750C, 2750x2200, 19 fps (single and dual port), CCD, color

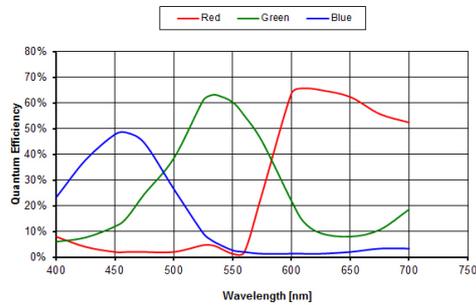
- **Modular Options:**
 - Nikon F-mount (Factory conversion)

- Canon EF Lens Mount (Factory conversion via RS232 I/O)
- IRC Filter on Monochrome cameras (Factory installation)

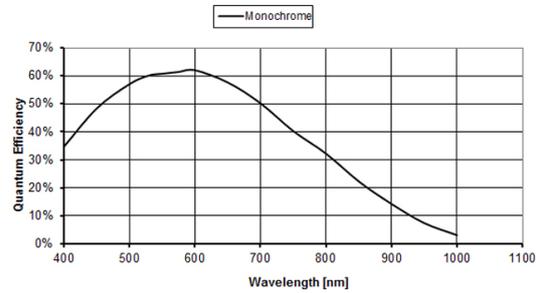
Specifications

Prosilica GX 2750	
Interface	IEEE 802.3 1000baseT
Resolution	2750 x 2200
Sensor	Sony ICX694
Sensor type	CCD Progressive
Sensor size	Type 1
Cell size	4.54 μm
Lens mount	C
Max frame rate at full resolution	19 fps
A/D	14 bit
On-board FIFO	128 MB
Output	
Bit depth	8/14 (mono) - 8/12 (color) 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)	
Opto-coupled I/Os	2 inputs, 4 outputs
RS-232	1
Operating conditions/Dimensions	
Power requirements (DC)	5V - 24V
Power consumption (12 V)	6.1W (1 port) - 7.1W (2 ports)
Mass	264 g
Body Dimensions (L x W x H in mm)	108.1 x 53.3 x 33 (including connectors, w/o tripod and lens)
Regulations	CE, FCC, Class A, RoHS

Sensor Response (Color)



Sensor Response (monochrome)



Smart features

- 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
- 3-axis motorized lens control
- Video-type autoiris

White Papers & Application Notes:

[Prosilica GX Image Height Vs. Frame Rate \(PDF - 241 KB\)](#)

[Integrating Motorized Lenses with Prosilica GX Cameras \(PDF - 461KB\)](#)

[Canon EF Adapter on Prosilica GE and Prosilica GX Cameras \(PDF - 466KB\)](#)

Applications

The GX2750 is ideal for a wide range of applications including:

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