

GX2750/C



Description

6 Megapixel HD resolution 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	



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