

GX1920



Description

NEW - 2.82 Megapixel HD CCD camera with high frame rate - Dual port GigE

The new 2/3" format Prosilica GX1920 is a high-resolution CCD camera with a Gigabit Ethernet interface (GigE Vision®). The GX1920 incorporates the new Sony ICX674 CCD sensor. Sony brings its ExView HAD technology previously utilized on lower resolution sensors such as the ICX285 to newer devices like the ICX674 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 GX1920 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 GX1920 can also work at half the bandwidth (120 MB/s) using a single cable.

- 3-axis motorized lens controls
- Video-type autoiris controls
- Thermal management enclosure
- **Models:**
 - GX1920, 1936x1456, 40.7 fps, CCD, mono
 - GX1920C, 1936x1456, 40.7 fps, 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)

- Taped glass and microlens (Factory built)
- Taped glass No microlens (Factory built)

Specifications

Prosilica GX		1920	
Interface	IEEE 802.3 1000baseT		
Resolution	1936 x 1456		
Sensor	Sony ICX674		
Type	CCD Progressive		
Sensor Size	Type 2/3		
Cell size	4.54 μm		
Lens mount	C		
Max frame rate at full resolution	40 fps		
A/D	14 bit		
On-board FIFO	128 MB		
Output			
Bit depth	8/14 (mono) - 8/12 (color) bit		
Mono modes	Mono8, Mono12, Mono16		
Color modes YUV	YUV411, YUV422, YUV444		
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24		
Raw modes	Bayer8, Bayer12, Bayer16		
General purpose inputs/outputs (GPIOs)			
TTL I/Os	0		
Opto-coupled I/Os	2 inputs, 4 outputs		
RS-232	1		
Power/Mass/Dimensions/Regulations			
Power requirements (DC)	5V - 24V		
Power consumption (12 V)	5.3W (1 port) - 6.2W (2 ports)		
Mass	269 g		
Body Dimensions (L x W x H in mm)	33 x 53.3 x 108.1 (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

Application Notes:

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

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

Applications

The GX1920 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