

GX2300



Description

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

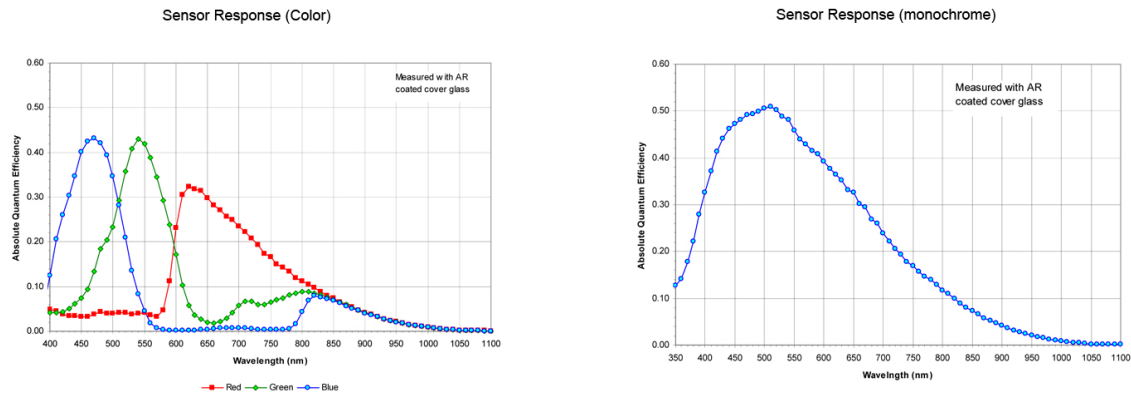
The 4 Megapixel Prosilica GX2300 is a very high-resolution CCD camera with Gigabit Ethernet output (GigE Vision®). The GX2300 features the high-quality Kokak KAI-04050 image sensor that provides superior image quality, excellent sensitivity and low noise. The GX2300 has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBytes per second. The Prosilica GX2300 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:**
 - GX2300, 2336x1752, 32 fps (dual port) - 28 fps (single port), CCD, mono
 - GX2300C, 2336x1752, 32 fps (dual port) - 28 fps (single 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)
 - Taped glass and microlens (Factory built)
 - Taped glass No microlens (Factory built)

Specifications

Prosilica GX		2300
Interface	IEEE 802.3 1000baseT	
Resolution	2336 x 1752	
Sensor	Kodak KAI-04050	
Sensor type	CCD Progressive	
Sensor size	Type 1	
Cell size	5.5 µm	
Lens mount	C/F	
Max frame rate at full resolution	32 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)	5.8W (1 port) - 6.9W (2 ports)	
Mass	269 g	
Body Dimensions (L x W x H in mm)	107.2 x 53.3 x 33 (including connectors, w/o tripod and lens)	
Regulations	CE, FCC, Class A, RoHS	

[Download Prosilica GX2300 technical drawing \(click here\)](#)



Smart features

The Prosilica GX2300 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
- 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 GX2300 is ideal for a wide range of applications including:

- LCD panel inspection
- high-resolution industrial inspection
- 3-D metrology
- general machine vision
- public security
- military surveillance
- traffic imaging (Intelligent Traffic Systems)
- embedded systems
- OEM applications