

GX2300/2300C



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 Truesense 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, 2336 x 1752, 32 fps (dual port) - 28 fps (single port), CCD, mono
- GX2300C, 2336 x 1752, 32 fps (dual port) - 28 fps (single port), CCD, color

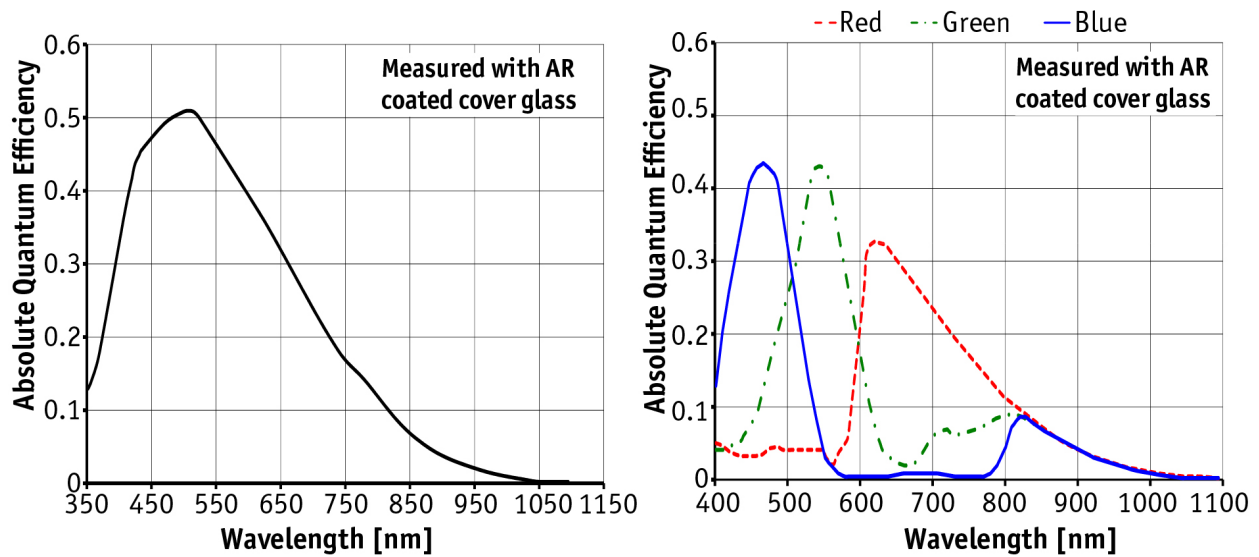
• Modular Options:

- 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	Truesense KAI-04050
Sensor type	CCD Progressive
Sensor size	Type 1
Cell size	5.5 µm
Lens mount	C (adjustable) / F
Max frame rate at full resolution	32 fps
A/D	14 bit
On-board FIFO	128 MB
Output	
Bit depth	14 (mono) - 12 (color) bit
Mono modes	Mono8, Mono12, Mono12Packed, Mono14
Color modes YUV	YUV411Packed
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed
Raw modes	BayerGR8, BayerGR12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
Opto-coupled I/Os	2 inputs, 4 outputs
RS-232	1
Operating conditions/Dimensions	
Operating temperature	0°C ... +50°C
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 (2011/65/EU)

[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)
- DSP subregion (selectable ROI for auto features)
- 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 Note:

[Integrating Motorized Lenses with Prosilica GX Cameras](#)

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