

## GX2300/2300C



### Description

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

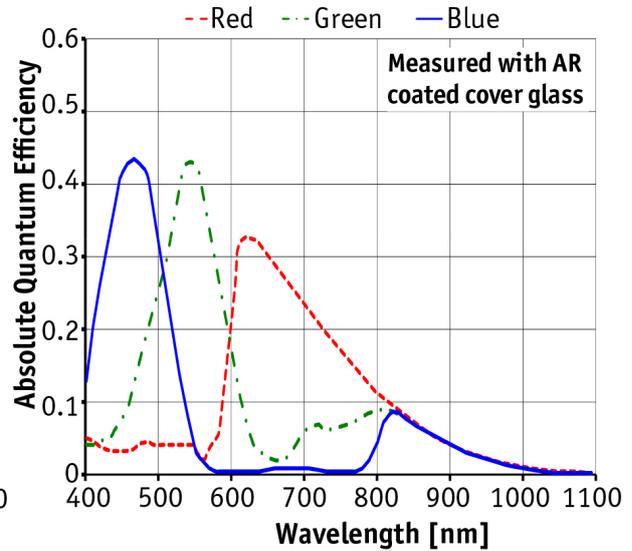
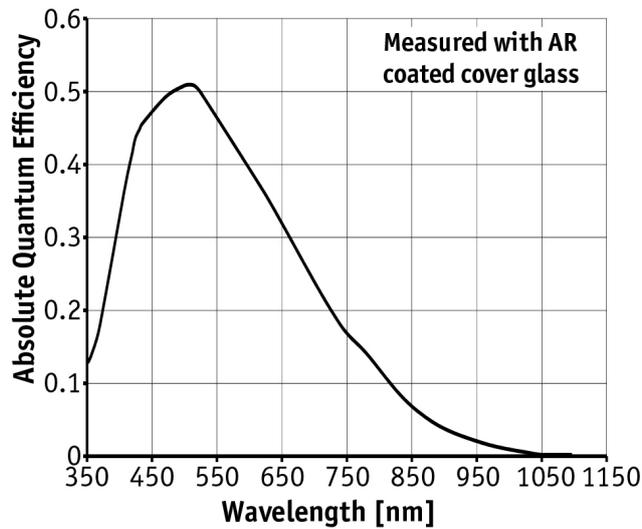
The 4 Megapixel Prosilica GX2300 is a very high-resolution CCD camera with Gigabit Ethernet output (GigE Vision®). The GX2300 features the high-quality Truesense KAI-04050 image sensor that provides superior image quality, excellent sensitivity and low noise. The GX2300 has two screw-captivated Gigabit 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

<b>Prosilica GX</b>		<b>2300</b>	
<b>Interface</b>	IEEE 802.3 1000baseT		
<b>Resolution</b>	2336 x 1752		
<b>Sensor</b>	Truesense KAI-04050		
<b>Sensor type</b>	CCD Progressive		
<b>Sensor size</b>	Type 1		
<b>Cell size</b>	5.5 µm		
<b>Lens mount</b>	C (adjustable) / F		
<b>Max frame rate at full resolution</b>	32 fps		
<b>A/D</b>	14 bit		
<b>On-board FIFO</b>	128 MB		
<b>Output</b>			
<b>Bit depth</b>	14 (mono) - 12 (color) bit		
<b>Mono modes</b>	Mono8, Mono12, Mono12Packed, Mono14		
<b>Color modes YUV</b>	YUV411Packed		
<b>Color modes RGB</b>	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed		
<b>Raw modes</b>	BayerGR8, BayerGR12, BayerGR12Packed		
<b>General purpose inputs/outputs (GPIOs)</b>			
<b>Opto-coupled I/Os</b>	2 inputs, 4 outputs		
<b>RS-232</b>	1		
<b>Operating conditions/Dimensions</b>			
<b>Operating temperature</b>	0°C ... +50°C		
<b>Power requirements (DC)</b>	5V - 24V		
<b>Power consumption (12 V)</b>	5.8W (1 port) - 6.9W (2 ports)		
<b>Mass</b>	269 g		
<b>Body Dimensions (L x W x H in mm)</b>	107.2 x 53.3 x 33 (including connectors, w/o tripod and lens)		
<b>Regulations</b>	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