GX3300/3300C

GiGE VISION

Description

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

The 8 Megapixel Prosilica GX3300 is a very high resolution CCD camera with Gigabit Ethernet output. The GX3300 has a fast frame rate of 17 fps at 3296 x 2472 resolution. The sensor used in the GX3300 is the high-quality 8 Megapixel CCD Truesense KAI-08050 that provides superior image quality, excellent sensitivity, and low noise. The GX3300 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 GX3300 can also work at half the bandwidth (120 MB/s) using a single cable.

- F-mount
- Single or dual Ethernet port operation
- Thermal management enclosure

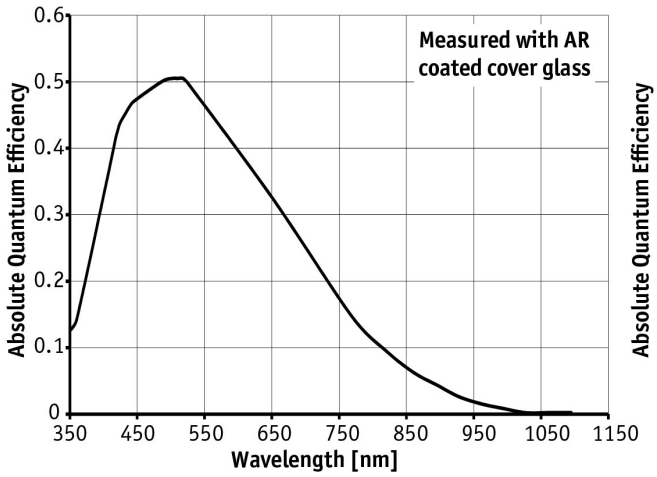
- **Models:**
  - GX3300, 3296 x 2472, 17 fps (dual port) - 14 fps (single port), CCD, mono
  - GX3300C, 3296 x 2472, 17 fps (dual port) - 14 fps (single port), CCD, color

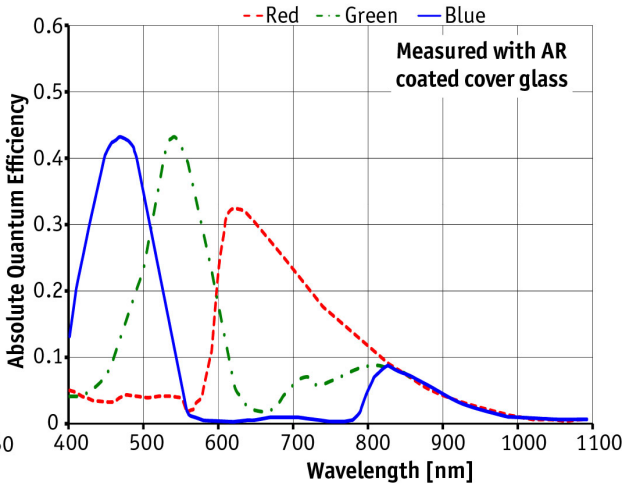
- **Modular Options:**
  - Canon EF Lens Mount (Factory conversion via RS232 I/O)
  - IRC Filter on Monochrome cameras (Factory installation)
  - Taped glass and microlens (Factory built)
  - Taped glass No microlens (Factory built)

Specifications

Prosilica GX	3300
Interface	IEEE 802.3 1000baseT
Resolution	3296 x 2472
Sensor	Truesense KAI-08050
Sensor type	CCD Progressive
Sensor size	Type 4/3
Cell size	5.5 µm
Lens mount	F
Max frame rate at full resolution	17 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)	6.1 W (1 port) - 7.2 W (2 ports)
Mass	365 g
Body Dimensions (L x W x H in mm)	136.3 x 53.3 x 33 (including connectors, w/o tripod and lens)
Regulations	CE, FCC Class A, RoHS (2011/65/EU)

Download Prosilica GX3300 technical drawing (click here)





Smart features

The Prosilica GX3300 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

Application Note:

Integrating Motorized Lenses with Prosilica GX Cameras

Applications

The 8 Megapixel GX3300 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