

GX6600/6600C



Description

29 Megapixel CCD camera - Dual port GigE Vision®

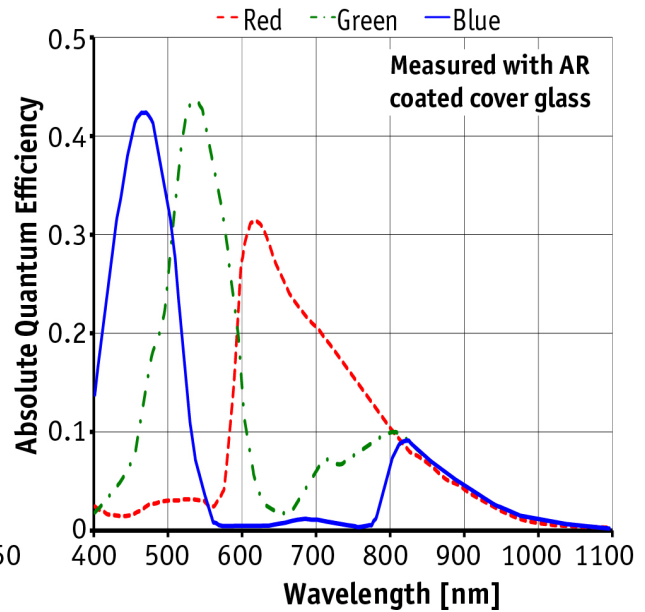
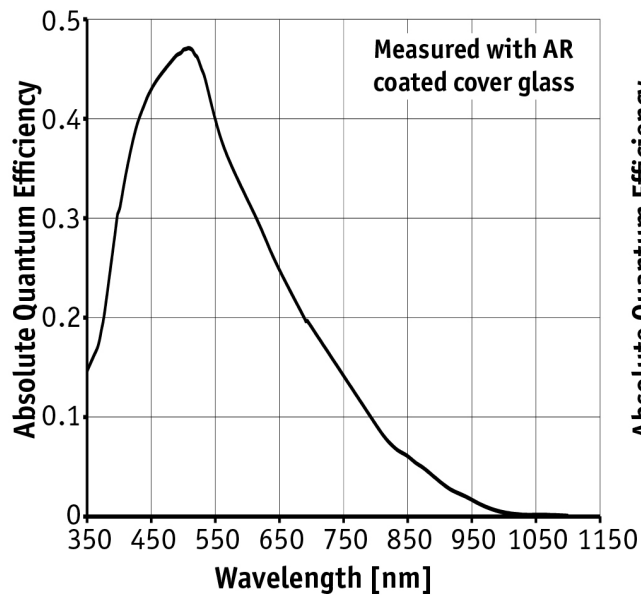
The 29 Megapixel Prosilica GX6600 is a very high resolution CCD camera with GigE Vision® output that features the new Truesense KAI-29050 quad-tap CCD sensor that provides superior image quality, excellent sensitivity, and low noise. The GX6600 has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBytes per second. The Prosilica GX6600 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:**
 - GX6600, 6576 x 4384, 4 fps, CCD, mono
 - GX6600C, 6576 x 4384, 4 fps, CCD, color
- **Modular Options:**
 - Canon EF Lens Mount (Factory conversion via RS232 I/O)
 - IRC Filter on Monochrome cameras (Factory installation)
 - Truesense Class 1 (Factory built with Class 1 sensor grade)

Specifications

Prosilica GX		6600	
Interface	Double Speed IEEE 802.3 1000baseT		
Resolution	6576 x 4384		
Sensor	Truesense KAI-29050		
Sensor type	CCD Progressive		
Sensor size	Type 35 mm		
Cell size	5.5 μ m		
Lens mount	F		
Max frame rate at full resolution	4 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)	6.7W (1 port) - 7.6W (2 ports)		
Mass	510 g		
Body Dimensions (L x W x H in mm)	136.6.x 53.3 x 53.3 (including connectors and lens mount, w/o tripod and lens)		
Regulations	CE, FCC Class A, RoHS (2011/65/EU)		

[Download Prosilica GX6600 Technical Drawing \(click here\)](#)



Smart features

The Prosilica GX6600 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 29 Megapixel GX6600 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