

GX6600/6600C



Description

29 Megapixel CCD camera - Dual port GigE Vision®

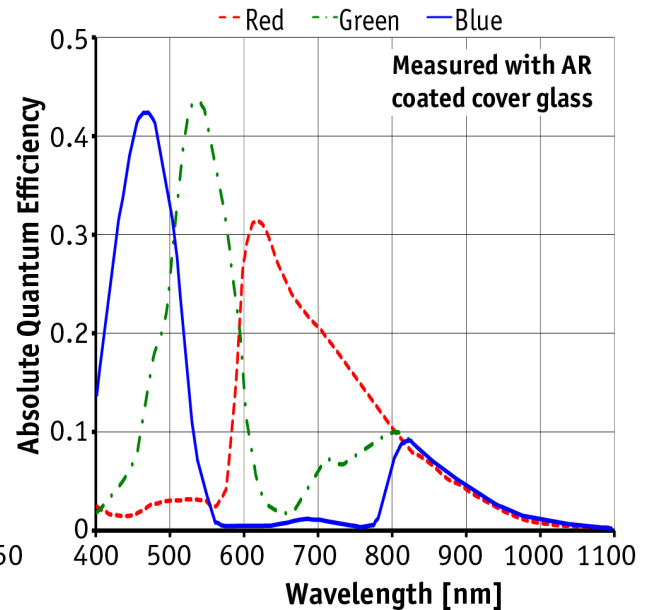
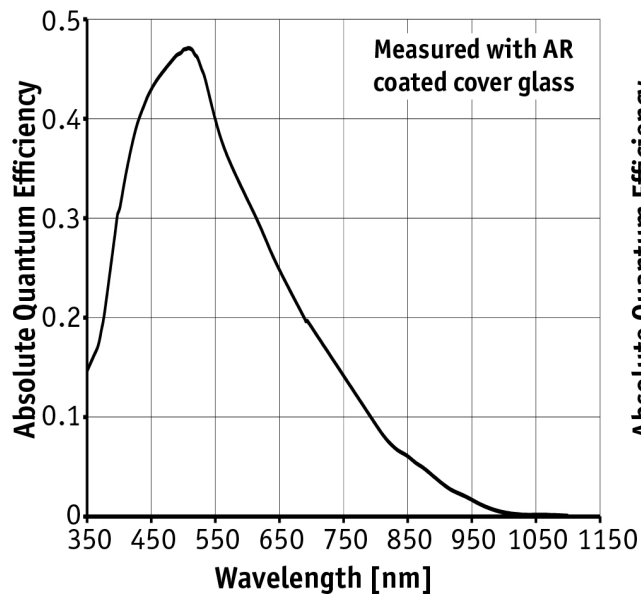
The 29 Megapixel Prosilica GX6600 is a very high resolution CCD camera with GigE Vision® output that features the new Truesense KAI-29050 quad-tap CCD sensor that provides superior image quality, excellent sensitivity, and low noise. The GX6600 has two screw-captivated Gigabit Ethernet ports configured 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 µm
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](http://www.alliedvisiontec.com/us/products/cameras/gigabit-ethernet/prosilica-gx/gx6600.html)

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