



Description

29 Megapixel CCD camera - Dual port GigE Vision®

**** PRELIMINARY****

The 29 Megapixel Prosilica GX6600 is a very high resolution CCD camera with GigE Vision® output that features the new Kodak 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, 6576x4384, 4 fps, CCD, mono
- GX6600C, 6576x4384, 4 fps, CCD, color

• Modular Options:

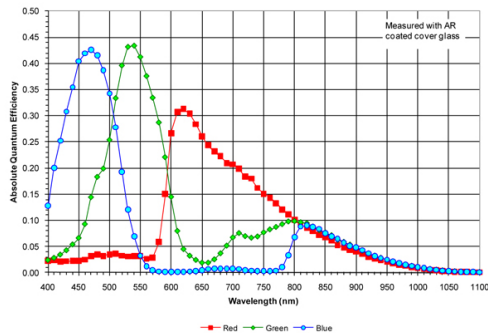
- Canon EF Lens Mount (Factory conversion via RS232 I/O)
- IRC Filter on Monochrome cameras (Factory installation)
- Kodak Class 1 (Factory built with Class 1 sensor grade)

Specifications

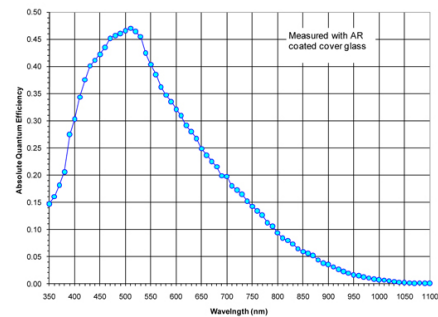
Prosilica GX 6600	
Interface	Double Speed IEEE 802.3 1000baseT
Resolution	6576 x 4384
Sensor	Kodak KAI-29050
Sensor type	CCD Progressive
Sensor size	Type 35 mm
Cell size	5.5 μ m
Lens mount	F
Max frame rate at full resolution	4 fps
A/D	14 bit
On-board FIFO	128 MB
Output	
Bit depth	8/14 (mono) - 8/12 (color) bit
Mono modes	Mono8, Mono12Packed, Mono16
Color modes YUV	YUV411, YUV422, YUV444
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24
Raw modes	Bayer8, Bayer12Packed, Bayer16
General purpose inputs/outputs (GPIOs)	
Opto-coupled I/Os	2 inputs, 4 outputs
RS-232	1
Operating conditions/Dimensions	
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

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

Sensor Response (Color)



Sensor Response (monochrome)



Smart features

The Prosilica GX6600 features include:

- Auto Exposure
- Auto Gain
- Auto White balance
- Flexible Binning
- Region of Interest readout (AOI partial scan)
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Asynchronous external trigger and sync I/O
- Global shutter (digital shutter)
- Recorder and Multiframe Acquisition Modes

White Papers & Application Notes:

[Prosilica GX Image Height Vs. Frame Rate \(PDF - 241 KB\)](#)

[Integrating Motorized Lenses with Prosilica GX Cameras \(PDF - 461KB\)](#)

[Canon EF Adapter on Prosilica GE and Prosilica GX Cameras \(PDF - 466KB\)](#)

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