



## 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 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

<b>Prosilica GX</b>		<b>6600</b>	
<b>Interface</b>	Double Speed IEEE 802.3 1000baseT		
<b>Resolution</b>	6576 x 4384		
<b>Sensor</b>	Kodak KAI-29050		
<b>Type</b>	CCD Progressive		
<b>Sensor Size</b>	Type 35 mm		
<b>Cell size</b>	5.5 μm		
<b>Lens mount</b>	F		
<b>Max frame rate at full resolution</b>	4 fps		
<b>A/D</b>	14 bit		
<b>On-board FIFO</b>	128 MB		
<b>Output</b>			
<b>Bit depth</b>	8/14 (mono) - 8/12 (color) bit		
<b>Mono modes</b>	Mono8, Mono12, Mono16		
<b>Color modes YUV</b>	YUV411, YUV422, YUV444		
<b>Color modes RGB</b>	RGB24, BGR24, RGBA24, BGRA24		
<b>Raw modes</b>	Bayer8, Bayer12, Bayer16		
<b>General purpose inputs/outputs (GPIOs)</b>			
<b>TTL I/Os</b>	0		
<b>Opto-coupled I/Os</b>	2 inputs, 4 outputs		
<b>RS-232</b>	1		
<b>Power/Mass/Dimensions/Regulations</b>			
<b>Power requirements (DC)</b>	5V - 24V		
<b>Power consumption (12 V)</b>	6.7W (1 port) - 7.6W (2 ports)		
<b>Mass</b>	510 g		
<b>Body Dimensions (L x W x H in mm)</b>	136.6.x 59.7 x 59.7 (including connectors and lens mount, w/o tripod and lens)		
<b>Regulations</b>	CE, FCC, Class A, RoHS		

## 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

## 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