

GX1660



Description

Fast frame rate, 2 megapixel CCD camera - Dual port GigE

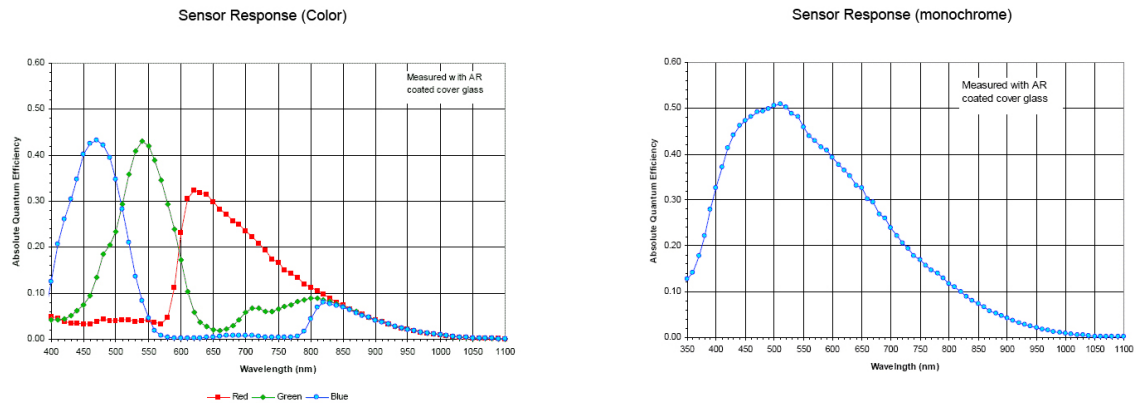
The 2 Megapixel Prosilica GX1660 is a high resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GX1660 incorporates a high-quality 2/3" Kodak KAI-02050 CCD sensor providing excellent monochrome and color image quality in 4:3 format. The GX1660 has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBytes per second. The Prosilica GX1660 can also work at half the bandwidth (120 MB/s) using a single cable.

- 3-axis Motorized lens controls
- Video auto-iris
- Single or dual Ethernet port operation
- Thermal management enclosure
- **Models:**
 - GX1660, 1600x1200, 66 fps (dual port) - 60 fps (single port), CCD, mono
 - GX1660C, 1600x1200, 66 fps (dual port) - 60 fps (single port), CCD, color
- **Modular Options:**
 - Nikon F-mount (Factory conversion)
 - 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		1660	
Interface	IEEE 802.3 1000baseT		
Resolution	1600 x 1200		
Sensor	Kodak KAI-02050		
Sensor type	CCD Progressive		
Sensor size	Type 2/3		
Cell size	5.5 μ m		
Lens mount	C		
Max frame rate at full resolution	66 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)	5.6W (1 port) - 6.7W (2 ports)		
Mass	269 g		
Body Dimensions (L x W x H in mm)	107.2 x 53.3 x 33 (including connectors, w/o tripod and lens)		
Regulations	CE, FCC, Class A, RoHS		

[Download Prosilica GX1660 technical drawing \(click here\)](#)



Smart features

The Prosilica GX1660 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
- 3-axis motorized lens control
- Video-type autoiris

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 GX1660 is ideal for a wide range of applications including:

- industrial inspection
- machine vision
- LCD panel inspection
- medical imaging
- ophthalmology
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging
- OEM applications