

## GX1050



### Description

#### High speed megapixel CCD camera - Dual Port GigE

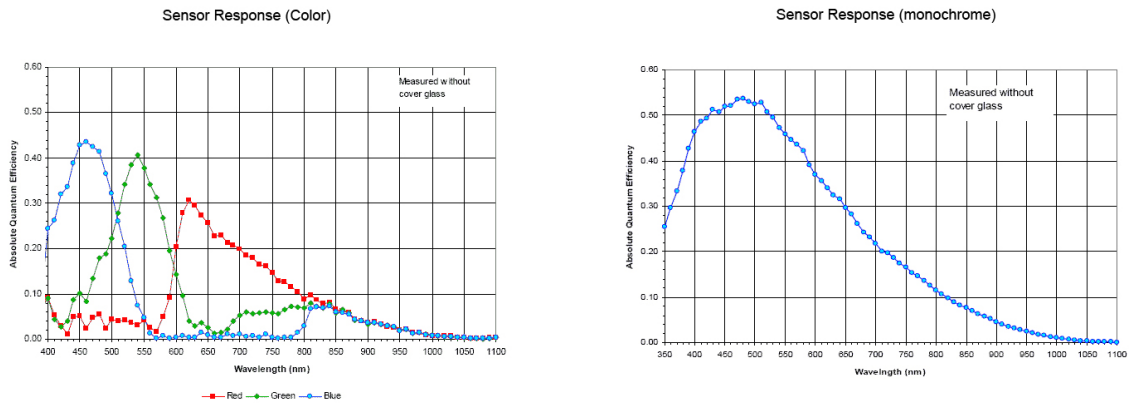
The Megapixel Prosilica GX1050 is a high resolution CCD camera with Gigabit Ethernet interface (GigE Vision®) that runs 112 fps at full resolution. The GX1050 has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBytes per second. The Prosilica GX1050 can also work at half the bandwidth (120 MB/s) using a single cable.

- 3-axis Motorized lens controls
- Video auto-iris
- Thermal management enclosure
  
- **Models:**
  - GX1050, 1024x1024, 112 fps, CCD, mono
  - GX1050C, 1024x1024, 112 fps, 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)

## Specifications

<b>Prosilica GX</b>		<b>1050</b>	
<b>Interface</b>	IEEE 802.3 1000baseT		
<b>Resolution</b>	1024 x 1024		
<b>Sensor</b>	Kodak KAI-01050		
<b>Type</b>	CCD Progressive		
<b>Sensor Size</b>	Type 1/2		
<b>Cell size</b>	5.5 µm		
<b>Lens mount</b>	C		
<b>Max frame rate at full resolution</b>	112 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>	5.4W (1 port) - 6.7W (2 ports)		
<b>Mass</b>	269 g		
<b>Body Dimensions (L x W x H in mm)</b>	107.2 x 53.3 x 33 (including connectors, w/o tripod and lens)		
<b>Regulations</b>	CE, FCC, Class A, RoHS		

[Download Prosilica GX1050 technical drawing \(click here\)](#)



## Smart features

The Prosilica GX1050 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 GX1050 is ideal for a wide range of applications including:

- industrial inspection
- machine vision
- medical imaging
- public security
- surveillance
- traffic imaging
- OEM applications