

## GE1050



### Description

#### Fast CCD Megapixel camera - 60 fps

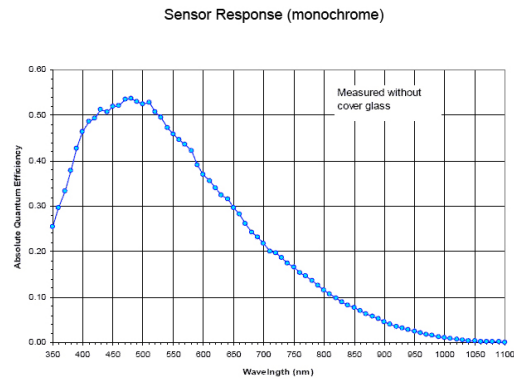
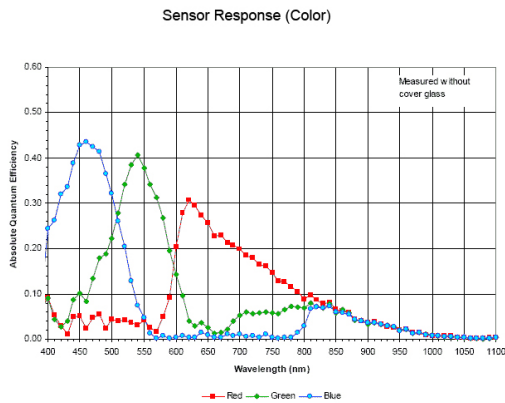
The 1 Megapixel GE1050 is a fast CCD camera with Gigabit Ethernet interface (GigE Vision®). It incorporates the 1024 x 1024 Kodak KAI-01050 CCD that runs just under 60 frames per second at megapixel resolution and even faster with region of interest readout. The progressive scan architecture and global electronic shutter provide excellent image quality for full motion video and still image capture.

- Kodak KAI-01050 1/2" Progressive scan CCD
- Fast frame rate - 59 fps
- **Models:**
  - GE1050, 1024x1024, 59 fps, CCD, mono
  - GE1050C, 1024x1024, 59 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 GE</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 $\mu$ m		
<b>Lens mount</b>	C		
<b>Max frame rate at full resolution</b>	59 fps		
<b>A/D</b>	12 bit		
<b>On-board FIFO</b>	32 MB		
<b>Output</b>			
<b>Bit depth</b>	8/12 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>	1 input, 3 outputs (with galvanic isolation)		
<b>Opto-coupled I/Os</b>	0		
<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 W		
<b>Mass</b>	178 g		
<b>Body Dimensions (L x W x H in mm)</b>	80x51x39 including connectors, w/o tripod and lens		
<b>Regulations</b>	CE, FCC, Class A, RoHS		

[Download Prosilica GE1050 technical drawing \(click here\)](#)



## Smart features

The GE1050 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

## Application Notes:

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

## **Applications**

The GE1050 is ideal for a wide range of applications including:

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