

## GE680



### Description

#### Fast CCD camera with Gigabit Ethernet interface - more than 200 fps

The GE680 is a very fast, VGA resolution, high-performance machine vision camera with a Gigabit Ethernet interface (GigE Vision®). The CCD sensor is suitable for applications where speed and good sensitivity are required.

- Kodak KAI-0340, 1/3" CCD sensor with 7.4 um square pixels
- Very fast frame rate - 205 fps at 640x480

#### • Models:

- GE680, 640x480, 205 fps, CCD, mono
- GE680C, 640x480, 205 fps, CCD, color

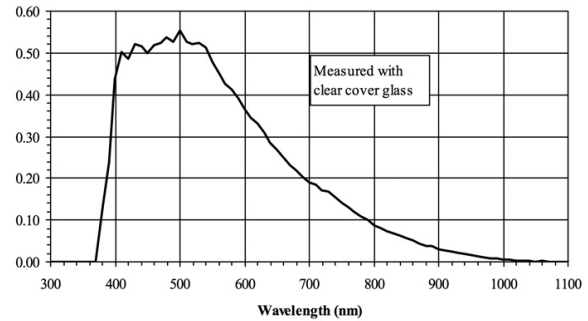
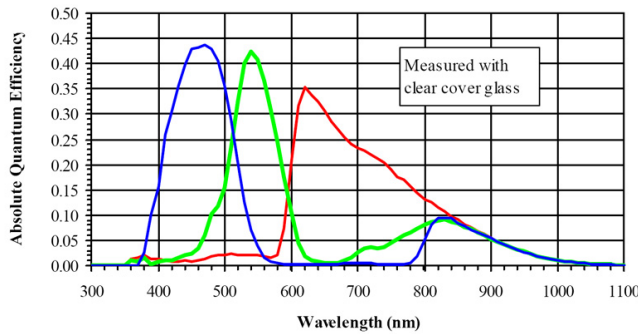
#### • Modular options:

- Nikon F-mount (Factory conversion)
- Canon EF Lens Mount (Factory conversion via RS232 I/O)
- IRC Filter on Monochrome cameras (Factory installation)
- Taped glass and microlens (Factory built)
- Taped glass No microlens (Factory built)

## Specifications

<b>Prosilica GE 680</b>	
<b>Interface</b>	IEEE 802.3 1000baseT
<b>Resolution</b>	640 x 480
<b>Sensor</b>	Kodak KAI-0340
<b>Type</b>	CCD Progressive
<b>Sensor Size</b>	Type 1/3
<b>Cell size</b>	7.4 µm
<b>Lens mount</b>	C
<b>Max frame rate at full resolution</b>	205 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>	4.5 W
<b>Mass</b>	169 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 GE680 technical drawing \(click here\)](#)



## Smart features

The GE680 incorporates an advanced set of camera features including:

- 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 GE680 is ideal for applications where speed and good sensitivity are required. These include:

- high-speed inspection
- machine vision
- optical character recognition
- traffic imaging
- robotics
- OEM applications