

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

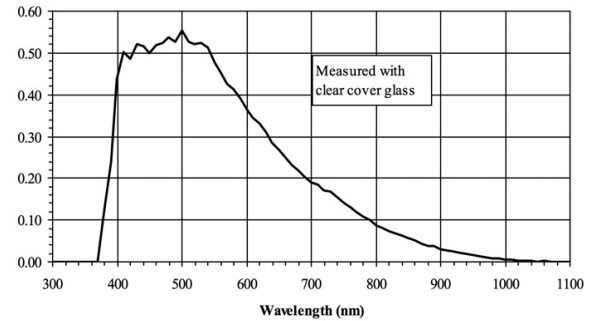
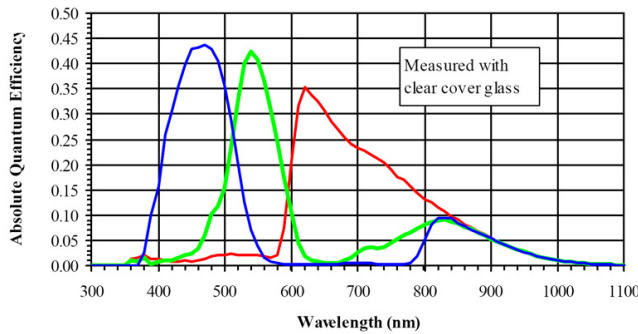
• Modular options:

- 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

Prosilica GE 680	
Interface	IEEE 802.3 1000baseT
Resolution	640 x 480
Sensor	Kodak KAI-0340
Type	CCD Progressive
Sensor Size	Type 1/3
Cell size	7.4 µm
Lens mount	C
Max frame rate at full resolution	205 fps
A/D	12 bit
On-board FIFO	32 MB
Output	
Bit depth	8/12 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)	
TTL I/Os	1 input, 3 outputs (with galvanic isolation)
Opto-coupled I/Os	0
RS-232	1
Power/Mass/Dimensions/Regulations	
Power requirements (DC)	5V - 24V
Power consumption (12 V)	4.5 W
Mass	169 g
Body Dimensions (L x W x H in mm)	80x51x39 including connectors, w/o tripod and lens
Regulations	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