GE680

Description

Fast CCD camera with Gigabit Ethernet interface - 200 fps

The GE680 is a very fast, VGA-resolution, high-performance machine vision camera with Gigabit Ethernet interface (GigE Vision®). The GE680 runs 200 frames per second at VGA resolution (640x480), uncompressed, over its Gigabit Ethernet interface.

The CCD sensor is suitable for applications where speed and good sensitivity are required. The GE680 works with standard gigabit Ethernet hardware and cables and can have cable lengths up to 100 meters (300 ft) long using conventional Cat5e network cabling.

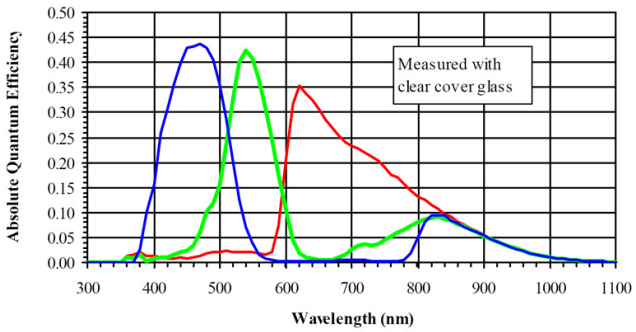
Features include:

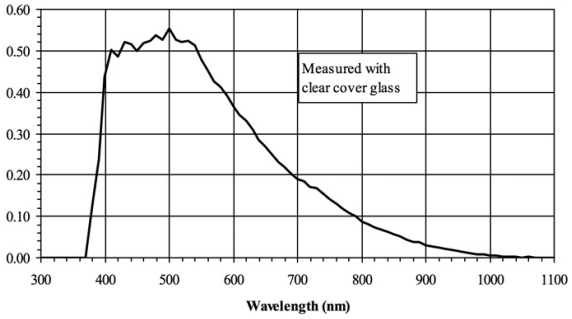
- Very fast frame rate - 200 fps at 640x480
- 1/3" CCD sensor with 7.4 um square pixels
- Gigabit Ethernet interface
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Binning modes up to 8x8

Specifications

Prosilica GE	GE680
Resolution	640 x 480
Max frame rate at full resolution	205 fps
Type	CCD Progressive
Interface	IEEE 802.3 1000baseT
A/D	12 bit
Output	8/12 bit
Sensor Size	Type 1/3
Sensor	Kodak KAI-0340
Cell size	7.4 µm
On-board FIFO	32 MB
Body Dimensions (L x W x H in mm)	39x51x80 including connectors, w/o tripod and lens

Download Prosilica GE technical drawing (click here)





Smart features

The GE680 incorporates an advanced set of camera features including:

- Very fast frame rate - 200 fps at 640x480
- 1/3" CCD sensor with 7.4 um square pixels
- Gigabit Ethernet interface
- StreamBytesPerSecond (easy bandwidth control)
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Binning modes up to 8x8
- Long cables - up to 100 m
- Global shutter (Snapshot shutter)
- 32 MB resend buffer
- Screw-captivated power connection
- Easy to use software development Kit (SDK)
- Both color and monochrome models

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