

GE1900



Description

High Resolution CCD camera with GigE Vision interface - 30 fps

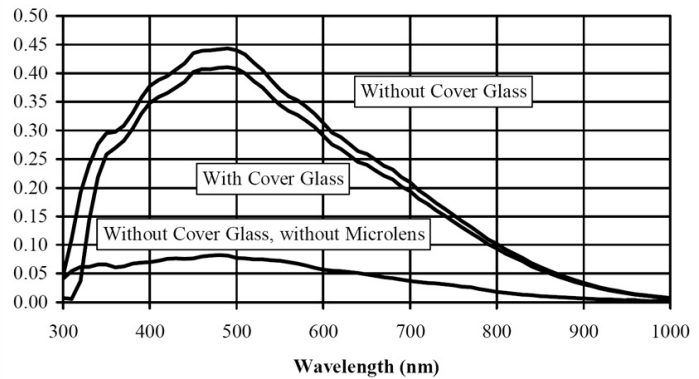
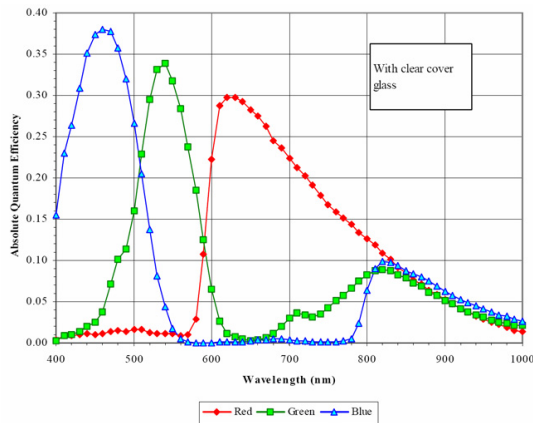
The 2 Megapixel GE1900 is a high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GE1900 incorporates a high-quality Kodak KAI-2093 CCD sensor providing excellent monochrome and color image quality. The GE1900 runs 30 frames per second at 1920x1080 resolution and even faster with region of interest readout.

- Kodak KAI-2093 Progressive scan CCD
- 30 fps at full-resolution
- **Models:**
 - GE1900, 1920x1080, 30 fps, CCD, mono
 - GE1900C, 1920x1080, 30 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 1900	
Interface	IEEE 802.3 1000baseT
Resolution	1920 x 1080
Sensor	Kodak KAI-2093
Type	CCD Progressive
Sensor Size	Type 1
Cell size	7.4 µm
Lens mount	C
Max frame rate at full resolution	30 fps
A/D	12 bit
On-board FIFO	32 MB
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono16
Color modes YUV	YUV411, YUV422, YUV444
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24
Raw modes	Bayer8, Bayer12, 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)	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 GE1900 technical drawing \(click here\)](#)



Smart features

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 GE1900 is ideal for a wide range of applications including:

- industrial inspection
- machine vision
- LCD panel inspection
- medical imaging
- ophthalmology
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging
- OEM applications