

GE1910



Description

High Definition Resolution CCD camera with GigE Vision interface - more than 30 fps

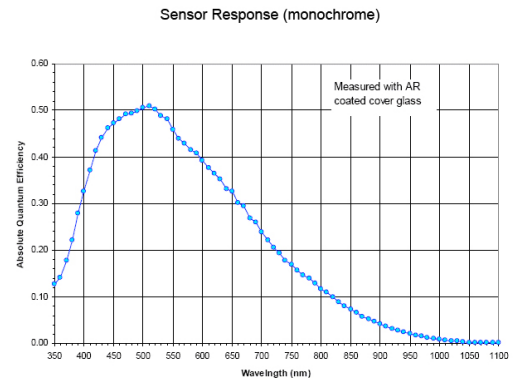
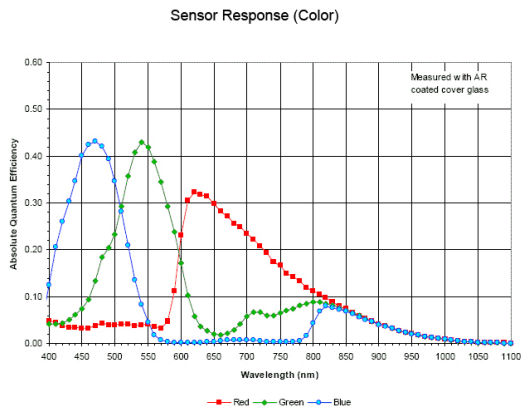
The 2 megapixel HD resolution GE1910 is a CCD camera with a Gigabit Ethernet interface (GigE Vision®). The GE1910 incorporates the Kodak KAI-02150 CCD sensor for excellent image quality in HD resolution (1080p). The GE1910 runs 32 frames per second at 1920x1080 resolution and even faster with region of interest readout.

- 2/3" format - HD resolution (1920x1080)
- Kodak KAI-02150 Progressive scan CCD
- **Models:**
 - GE1910, 1920x1080, 32 fps, CCD, mono
 - GE1910C, 1920x1080, 32 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 1910	
Interface	IEEE 802.3 1000baseT
Resolution	1920 x 1080
Sensor	Kodak KAI-02150
Type	CCD Progressive
Sensor Size	Type 2/3
Cell size	5.5 µm
Lens mount	C
Max frame rate at full resolution	32 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	178 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 GE1910 technical drawing \(click here\)](#)



Smart features

- 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 GE1910 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

Application Case Studies:

- **Real-Time 3D Cinema under the Microscope**

At VISION 2009, Allied Vision Technologies presented an innovative stereomicroscopy application. Thanks to TYTEC Software and AVT GigE Vision HD cameras, a stereo microscope can display three-dimensional images in real time on the screen.

- **Prosilica Cameras Go Airborne**

Prosilica GE1910 used in UAV technology.