

GX1910



Description

2 Megapixel HD CCD camera with high frame rate - Dual port GigE

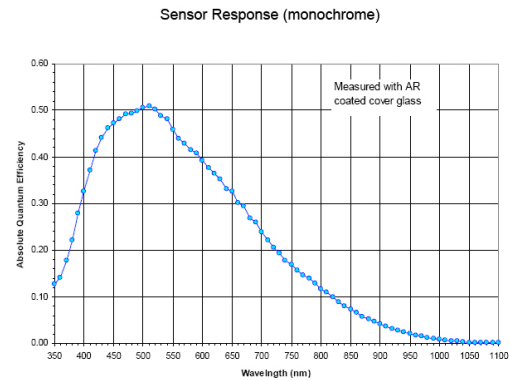
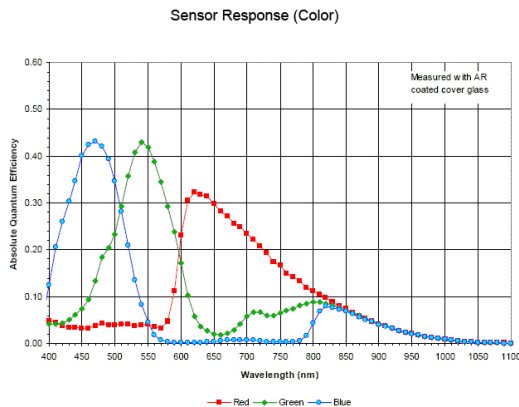
The new 2/3" format Prosilica GX1910 is a high-resolution CCD camera with a Gigabit Ethernet interface (GigE Vision®). The GX1910 incorporates the new Kodak KAI-02150 CCD sensor providing excellent image quality in High Definition resolution (1080p). The GX1910 has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBytes per second. The Prosilica GX1910 can also work at half the bandwidth (120 MB/s) using a single cable.

- 3-axis Motorized lens controls
- Video auto-iris
- Single or dual Ethernet port operation
- Thermal management enclosure
- **Models:**
 - GX1910, 1920x1080, 63 fps (dual port) - 55 fps (single port), CCD, mono
 - GX1910C, 1920x1080, 63 fps (dual port) - 55 fps (single port), 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 GX 1910 | |
|----------------------------------------|---------------------------------------------------------------|
| Interface | IEEE 802.3 1000baseT |
| Resolution | 1920 x 1080 |
| Sensor | Kodak KAI-02150 |
| Sensor type | CCD Progressive |
| Sensor size | Type 2/3 |
| Cell size | 5.5 µm |
| Lens mount | C |
| Max frame rate at full resolution | 63 fps |
| A/D | 14 bit |
| On-board FIFO | 128 MB |
| Output | |
| Bit depth | 8/14 (mono) - 8/12 (color) 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) | |
| Opto-coupled I/Os | 2 inputs, 4 outputs |
| RS-232 | 1 |
| Operating conditions/Dimensions | |
| Power requirements (DC) | 5V - 24V |
| Power consumption (12 V) | 5.6W (1 port) - 6.7W (2 ports) |
| Mass | 269 g |
| Body Dimensions (L x W x H in mm) | 107.2 x 53.3 x 33 (including connectors, w/o tripod and lens) |
| Regulations | CE, FCC, Class A, RoHS |

[Download Prosilica GX1910 technical drawing \(click here\)](#)



Smart features

The Prosilica GX1910 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
- 3-axis motorized lens control
- Video-type autoiris

White Papers & Application Notes:

[Prosilica GX Image Height Vs. Frame Rate \(PDF - 241 KB\)](#)

[Integrating Motorized Lenses with Prosilica GX Cameras \(PDF - 461KB\)](#)

[Canon EF Adapter on Prosilica GE and Prosilica GX Cameras \(PDF - 466KB\)](#)

Applications

The GX1910 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:

- Giant Billboard on Times Square Uses AVT Camera for Interactive Advertising
Fashion retailer Forever 21's new flagship store in New-York City features giant computer vision billboard that interacts with consumers.