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Vision Technologies

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GX1910

Description

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

The new 2/3" format, HD-resolution, 2 megapixel Prosilica GX1910 is a high-resolution CCD camera with GigE Vision® Gigabit Ethernet interface. The GX1910 incorporates the new Kodak KAI-02150 CCD sensor excellent image quality in HD 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 GX1910 runs 63 frames per second at 1920 x1080 resolution and even faster with region of interest readout. The GX1910 works with standard gigabit Ethernet hardware and cables and can have cable lengths up to 100 meters (300 ft) long using conventional Cat5e.
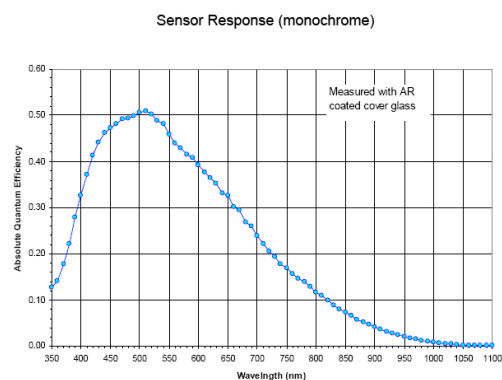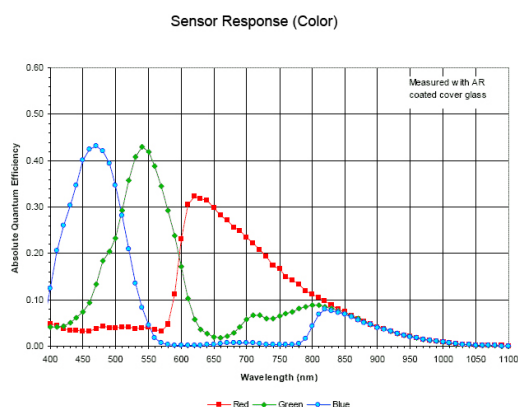
Features include:

- 2/3" format - HD resolution (1920x1080)
- Gigabit Ethernet interface - Dual Port 240 MB/s
- Thermal management enclosure
- Motorized lens controls - 3-axis
- Video-type autoiris controls

Specifications

Prosilica GX	GX1910
Resolution	1920 x 1080
Max frame rate at full resolution	63 fps
Type	CCD Progressive
Interface	Double Speed IEEE 802.3 1000baseT
A/D	14 bit
Output	8/14 (mono) - 8/12 (color) bit
Sensor Size	Type 2/3
Sensor	Kodak KAI-02150
Cell size	5.5 µm
On-board FIFO	128 MB
Body Dimensions (L x W x H in mm)	33 x 53.3 x 107.2 (including connectors, w/o tripod and lens)

Download Prosilica GX technical drawing (click here)

Sensor Response (Color)

Sensor Response (monochrome)

Smart features

The Prosilica GX1910 features include:

- 2/3" format - HD resolution (1920x1080)
- Kodak KAI-02150 Progressive scan CCD
- StreamBytesPerSecond (easy bandwidth control)
- Advanced binning functions
- Thermal management enclosure
- Global shutter (Snapshot shutter)
- Fast frame rate - 63 fps at full-resolution
- Gigabit Ethernet interface - Dual Port 240 MB/s
- GigE Vision compliant
- Motorized lens controls - 3-axis
- Video-type autoiris controls
- Asynchronous external trigger and sync I/O
- 128 MB resend/image buffer
- Screw-captivated power connection
- Software development Kit

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