



- 32 fps @ full resolution
- ON Semi KAI-02150 sensor
- Galvanically isolated I/O
- Various lens mount options

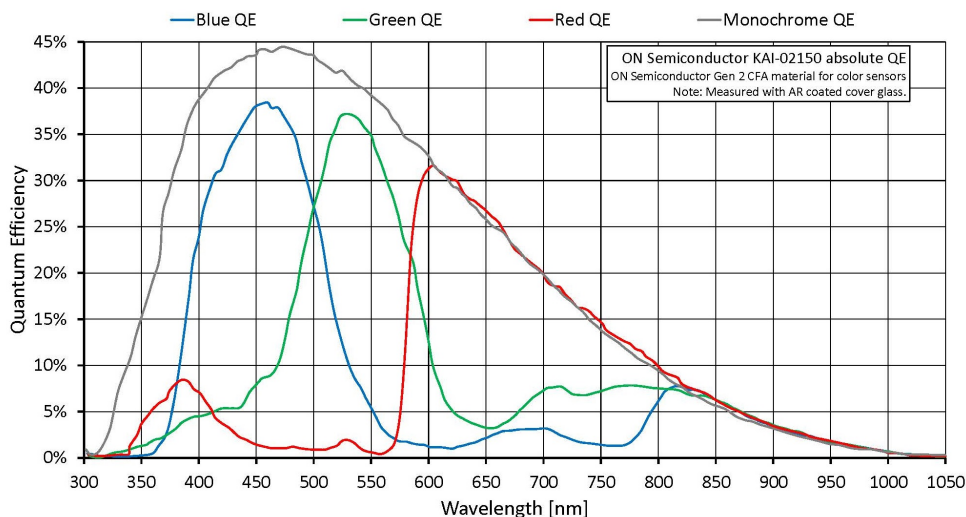
## High Definition Resolution CCD camera with GigE Vision interface

Prosilica GE1910 is a CCD camera with a Gigabit Ethernet interface (GigE Vision®). This camera incorporates the ON Semiconductor KAI-02150 CCD sensor for excellent image quality in HD resolution (1080p). This camera runs 32 frames per second at full resolution. With a smaller region of interest, higher frame rates are possible. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

## Specifications

<b>Prosilica GE</b>	<b>1910</b>
Interface	IEEE 802.3 1000baseT
Resolution	1920 (H) × 1080 (V)
Sensor	ON Semi KAI-02150
Sensor type	CCD Progressive
Sensor size	Type 2/3
Pixel size	5.5 μm × 5.5 μm
Lens mount (default)	C-Mount
Max. frame rate at full resolution	32 fps
ADC	12 bit
Image buffer (RAM)	32 MByte
<b>Output</b>	
Bit depth	8/12 Bit
Monochrome pixel formats	Mono8, Mono12, Mono12Packed
YUV color pixel formats	YUV411Packed
RGB color pixel formats	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed
Raw pixel formats	BayerGR8, BayerGR12, BayerGR12Packed

Prosilica GE	1910
<b>General purpose inputs/outputs (GPIOs)</b>	
TTL I/Os	1 input, 3 outputs (with galvanic isolation)
RS232	1
<b>Operating conditions/dimensions</b>	
Operating temperature	0 °C to +50 °C ambient (without condensation)
Power requirements (DC)	5 to 24 VDC
Power consumption	5 W at 12 VDC
Mass	178 g
Body dimensions (L × W × H in mm)	80 × 51 × 39 (including connectors)
Regulations	2011/65/EU, including amendment 2015/863/EU (RoHS)



## Features

Prosilica GE1910 features include:

- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning (Sum)
- Auto gain (manual gain control: 0 to 34 dB)
- Auto exposure (manual exposure controls: 10  $\mu$ s to 53.7 s)
- Auto white balance
- StreamBytesPerSecond (bandwidth control)
- Stream hold



- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Global shutter (digital shutter)
- Recorder and Multiframe acquisition modes
- Event channel
- Chunk data
- Storable user sets

## Technical drawing



\* Nominal value Add 0.3mm for color cameras.



## Applications

Prosilica 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