

# GT1920



**GigE**  
VISION

## Description

### **NEW: 2.82 Megapixel HD CCD camera for outdoor imaging - fast frame rates**

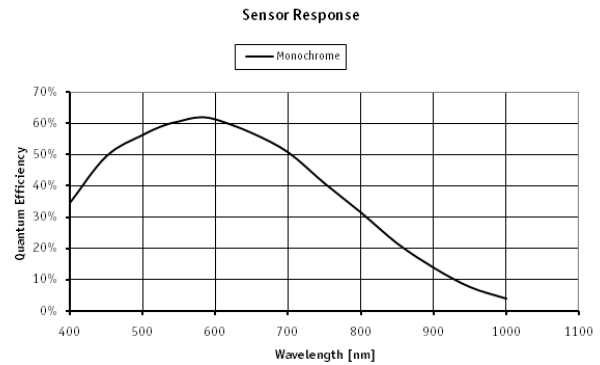
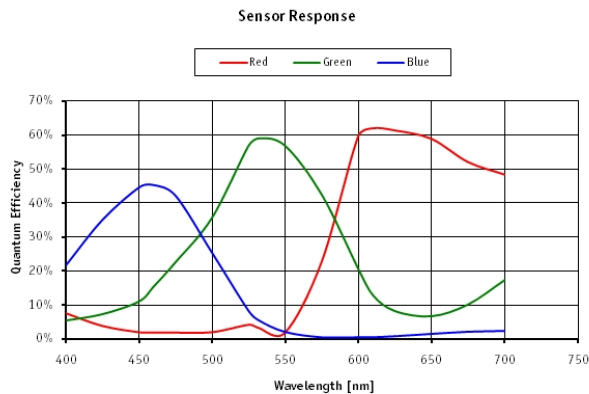
The Prosilica GT1920 is a 2.82 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT1920 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. It offers Precise iris lens control allowing users to fix the aperture size to optimize depth of field, exposure and gain without the need for additional control elements. The GT1920 incorporates the new Sony ICX674 CCD sensor. Sony brings its ExView HAD technology previously utilized on lower resolution sensors such as the ICX285 to newer devices like the ICX674 adding higher resolution and fast frame rates to the technology's existing benefits, which include high sensitivity, near IR response, low noise, anti-blooming and excellent image quality.

- Sony ICX674 EXview HAD CCD sensor
- Auto Iris (P-Iris and DC)
- Power over Ethernet (PoE)
- Ethernet surge suppression
- Gamma, multiple LUT, color correction
- Metadata (Chunk data), clock synchronization (IEEE1588)
- Wide operating temperature range
- Global shutter (digital shutter)
- **Models:**
  - GT1920, 1936x1456, 40 fps, CCD mono
  - GT1920C, 1936x1456, 40 fps, CCD color

## Specifications

<b>Prosilica GT</b>		<b>1920</b>	
<b>Interface</b>	IEEE 802.3 1000baseT		
<b>Resolution</b>	1936 x 1456		
<b>Sensor</b>	Sony ICX674		
<b>Sensor type</b>	CCD Progressive		
<b>Sensor size</b>	Type 2/3		
<b>Cell size</b>	4.54 µm		
<b>Lens mount</b>	C-Mount		
<b>Max frame rate at full resolution</b>	40 fps		
<b>A/D</b>	14 bit		
<b>On-board FIFO</b>	128 MB		
<b>Output</b>			
<b>Bit depth</b>	8/14 bit		
<b>Mono modes</b>	Mono8, Mono12Packed, Mono16		
<b>Color modes YUV</b>	YUV411, YUV422, YUV444		
<b>Color modes RGB</b>	RGB24, BGR24, RGBA24, BGRA24		
<b>Raw modes</b>	Bayer8, Bayer12Packed, Bayer16		
<b>General purpose inputs/outputs (GPIOs)</b>			
<b>TTL I/Os</b>	1 input, 2 outputs		
<b>Opto-coupled I/Os</b>	1 input, 2 outputs		
<b>RS-232</b>	1		
<b>Operating conditions/Dimensions</b>			
<b>Operating temperature</b>	-20°C ... +60°C		
<b>Power requirements (DC)</b>	POE, 7-25 VDC		
<b>Power consumption (12 V)</b>	4.9 W @ 12 VDC		
<b>Mass</b>	224 g		
<b>Body Dimensions (L x W x H in mm)</b>	92 x 53.3 x 33 (including connectors, w/o tripod and lens)		
<b>Regulations</b>	CE, FCC Class A, RoHS (2002,95,EC)		

[Download Prosilica GT1920 Technical drawing](#)



## Smart features

The Prosilica GT1920 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
- Auto Iris (P-Iris and DC)
- Power over Ethernet (PoE)
- Ethernet surge suppression
- Gamma
- Multiple LUT
- Color correction
- Metadata (Chunk data)
- Clock synchronization (IEEE1588)
- Recorder and Multiframe Acquisition Modes

## White Paper

[Remote lens control with Prosilica GT cameras](#)

## **Applications**

The Prosilica GT1920 is ideal for a wide range of applications including:

- Outdoor imaging
- Traffic imaging / ITS
- Public security and surveillance
- Industrial inspection
- machine vision
- Military and space applications