

GT1920



GigE
VISION

Description

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

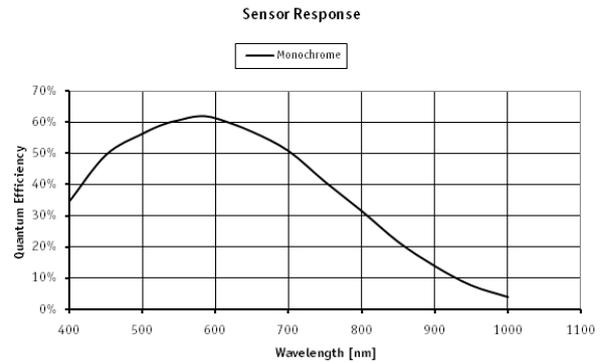
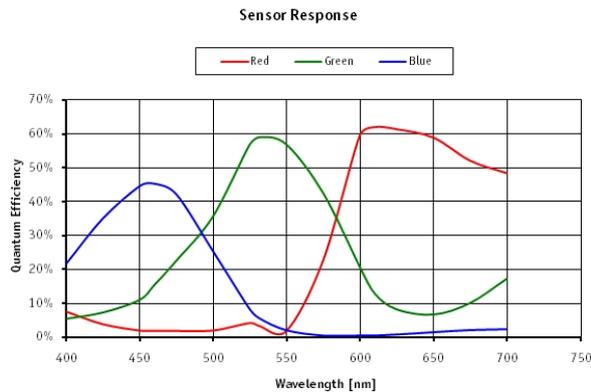
The Prosilica GT1920 is a 2.82 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT1920 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. It offers Precise iris lens control allowing users to fix the aperture size to optimize depth 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

Prosilica GT		1920	
Interface	IEEE 802.3 1000baseT		
Resolution	1936 x 1456		
Sensor	Sony ICX674		
Sensor type	CCD Progressive		
Sensor size	Type 2/3		
Cell size	4.54 µm		
Lens mount	C-Mount		
Max frame rate at full resolution	40 fps		
A/D	14 bit		
On-board FIFO	128 MB		
Output			
Bit depth	8/14 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)			
TTL I/Os	1 input, 2 outputs		
Opto-coupled I/Os	1 input, 2 outputs		
RS-232	1		
Operating conditions/Dimensions			
Operating temperature	-20°C ... +60°C		
Power requirements (DC)	8-26 V DC		
Power consumption (12 V)	tba		
Mass	224 g		
Body Dimensions (L x W x H in mm)	92 x 53.3 x 33 (including connectors, w/o tripod and lens)		
Regulations	CE, FCC Class A, RoHS		

[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