

GT1920



Description

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

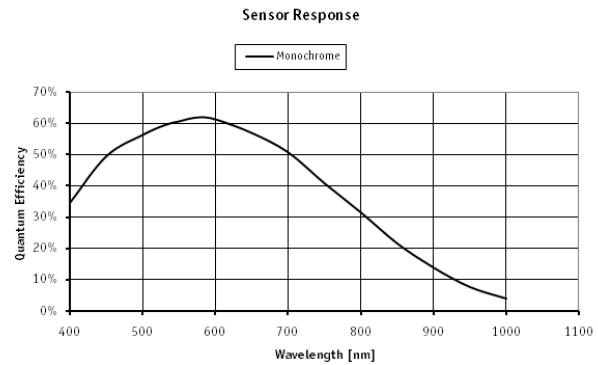
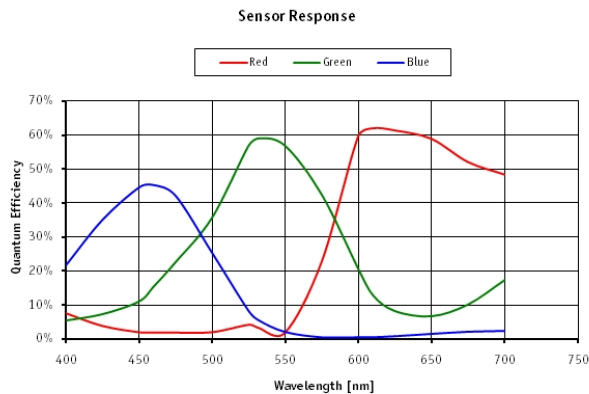
*PRELIMINARY

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	
On-board FIFO	128 MB	
Output		
Bit depth	8/14 bit	
Mono modes	Mono8, Mono12Packed, Mono16	
Color modes YUV	YUV411, YUV422, YUV444	
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	tba	
Body Dimensions (L x W x H in mm)	tba	
Regulations	CE, FCC Class A, RoHS	



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

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