

GT1290



GigE
VISION

Description

NEW: 1.2 Megapixel camera for extreme environments

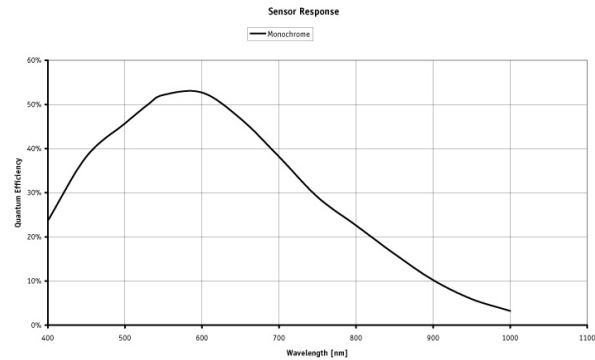
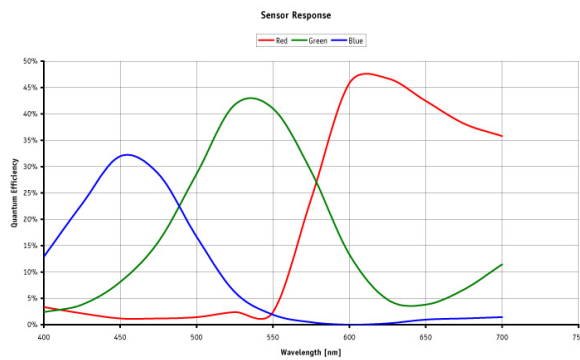
The Prosilica GT1290 is a 1.2 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). The GT1290 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. The GT1290 offers Precise iris lens control allowing users to fix the aperture size to optimize depth of field, exposure and gain without the need for additional control elements. The GT1290 incorporates a high-quality Sony ICX445 Exview HAD CCD sensor providing excellent monochrome and color image quality.

- Sony ICX445 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:**
 - GT1290, 1280x960, 33 fps, CCD mono
 - GT1290C, 1280x960, 33 fps, CCD color

Specifications

Prosilica GT		1290
Interface	IEEE 802.3 1000baseT	
Resolution	1280 x 960	
Sensor	Sony ICX445	
Sensor type	CCD Progressive	
Sensor size	Type 1/3	
Cell size	3.75 µm	
Lens mount	C-Mount	
Max frame rate at full resolution	33 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)	POE, 7-25	
Power consumption (12 V)	2.9 W @ 12 VDC	
Mass	211 g	
Body Dimensions (L x W x H in mm)	83.2 x 53.3 x 33 (including connectors, w/o tripod and lens)	
Regulations	CE, FCC Class A, RoHS (2002,95,EC)	

[Download Prosilica GT1290 Technical drawing](#)



Smart features

The Prosilica GT1290 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 GT1290 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