GT1290

PROSILICA
GT

GiGE
VISION

Description

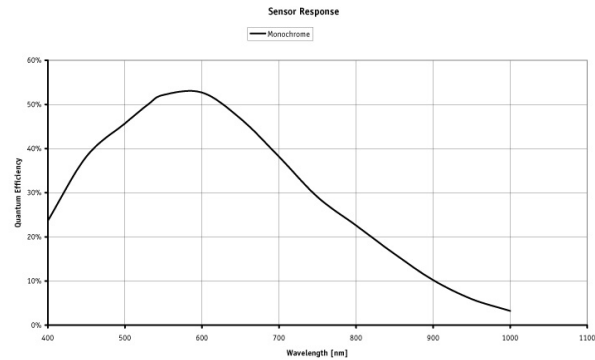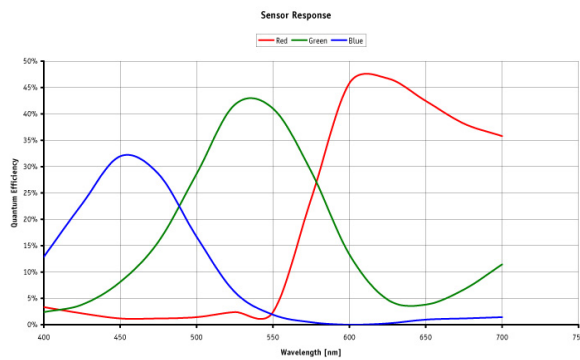**NEW: 1.2 Megapixel camera for extreme environments**

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

Sensor Response

Sensor Response

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