GC1290

Description

Megapixel CCD camera with ExView sensor - 32 fps

The GC1290 is a 1280x960 resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GC1290 incorporates a high-quality Sony Exview HAD CCD sensor providing excellent monochrome and color image quality.

- High Sensitivity Sony ICX445 ExView HAD sensor
- 3.75 x 3.75 um pixel size

- **Models:**
  - GC1290, 1280x960, 32 fps, CCD, mono
  - GC1290C, 1280x960, 32 fps, CCD, color

Specifications

Prosilica GC	1290
Interface	IEEE 802.3 1000baseT
Resolution	1280 x 960
Sensor	Sony ICX445
Type	CCD Progressive
Sensor Size	Type 1/3
Cell size	3.75 µm
Lens mount	C/CS
Max frame rate at full resolution	32 fps
A/D	12 bit
On-board FIFO	16 MB
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono16
Color modes YUV	YUV411, YUV422, YUV444
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24
Raw modes	Bayer8, Bayer 16
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 1 output
Opto-coupled I/Os	1 input, 1 output
RS-232	1
Power/Mass/Dimensions/Regulations	
Power requirements (DC)	12 V
Power consumption (12 V)	3 W
Mass	106 g
Body Dimensions (L x W x H in mm)	33x46x59 including connectors, w/o tripod and lens
Regulations	CE, FCC, Class A, RoHS

Download Prosilica GC1290 technical drawing (click here)
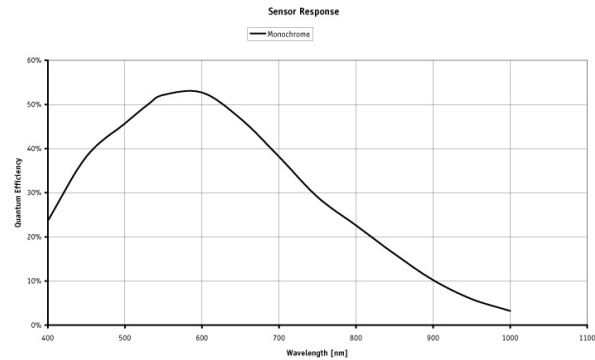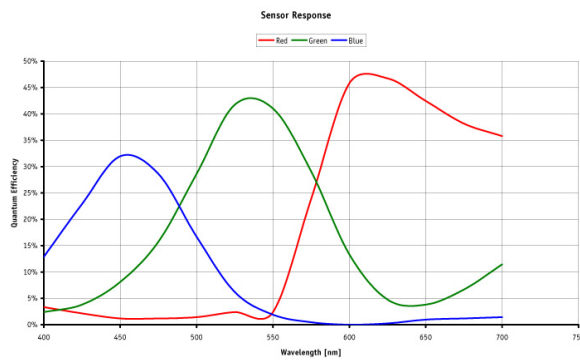
Smart features

The GC1290 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
- Global shutter (digital shutter)
- Recorder and Multiframe Acquisition Modes

Applications

The GC1290 is ideal for a wide range of applications including:

- industrial inspection
- machine vision
- ophthalmology
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging
- OEM applications

Application Case Studies:

- **GigE Vision for 3D Medical Research**
  Prosilica GC1290 Gigabit Ethernet Cameras Used in 3D Arthritis Hand Scanner.