GC1350

Description

1.4 Megapixel CCD camera with GigE Vision

The 1.4 Megapixel GC1350 is a high-resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GC1350 incorporates a high-quality Sony ½" CCD sensor providing excellent monochrome and color image quality. The GC1350 runs 20 frames per second at 1360x1024 resolution and even faster with region of interest readout.

- High resolution - 1.4 megapixels (1360x1024)
- Sony ICX205 ½" Progressive scan CCD

- **Models:**
  - GC1350, 1360x1024, 20 fps, CCD, mono
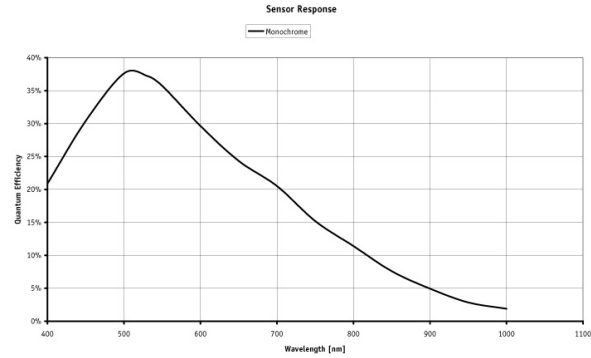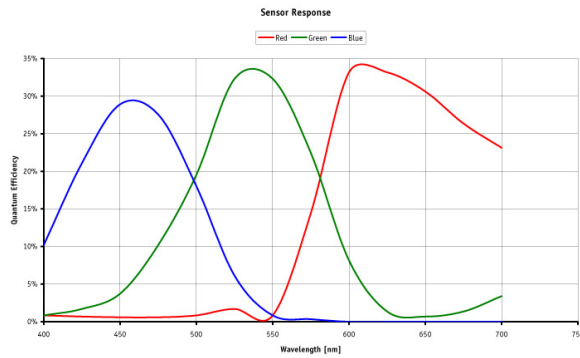 - GC1350C, 1360x1024, 20 fps, CCD, color

Important information: Prosilica GC Power Voltage Specification Update

Specifications

Prosilica GC	1350
Interface	IEEE 802.3 1000baseT
Resolution	1360 x 1024
Sensor	Sony ICX205
Sensor type	CCD Progressive
Sensor size	Type 1/2
Cell size	4.65 µm
Lens mount	C
Max frame rate at full resolution	20 fps
A/D	12 bit
On-board FIFO	16 MB
	Output
Bit depth	8/12 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, 1 output
Opto-coupled I/Os	1 input, 1 output
RS-232	1
	Operating conditions/Dimensions
Power requirements (DC)	5-16 V*
Power consumption (12 V)	3 W
Mass	100 g
Body Dimensions (L x W x H in mm)	59x46x33 including connectors, w/o tripod and lens
Regulations	CE, FCC, Class A, RoHS

* Cameras shipped after April 1, 2011 support 5-25 VDC. Please review the Prosilica GC Power Voltage Specification Update for further information.

Download Prosilica GC1350 technical drawing (click here)

Smart features

The GC1350 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 GC1350 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:

- **Mobile machine vision system featuring AVT GigE cameras surveys pavement condition**
  Proper infrastructure and road maintenance is essential to ensure the safety of road users and to keep ve-hicle operating costs down.