GC750

Description

Low cost Gigabit Ethernet camera - 60 fps

The GC750 is an ultra-compact, economically priced, machine vision camera with Gigabit Ethernet interface (GigE Vision®). The GC750 runs 60 frames per second at 752x480 resolution over the GigE Vision-compliant Gigabit Ethernet interface.

- 60 fps at 752x480
- 1/3" CMOS sensor Aptina MT9V022 with 6.0 um square pixels
- CS-mount
- ultra-compact: 33x46x45mm including connectors, w/o tripod and lens
- **Models:**
  - GC750, 752x480, 60 fps, CMOS, mono
  - GC750C, 752x480, 60 fps, CMOS, color

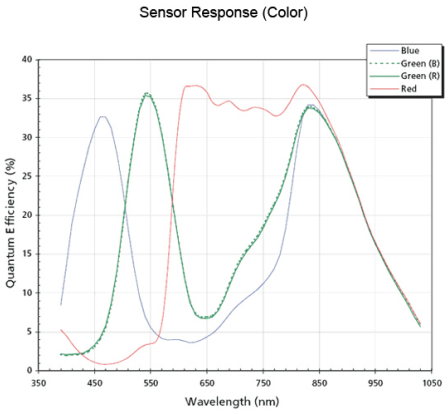
Important information: Prosilica GC Power Voltage Specification Update

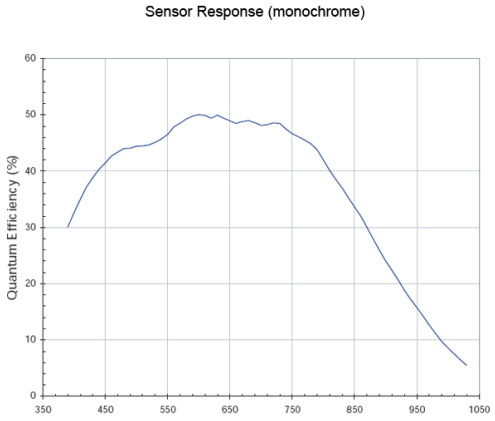
Specifications

Prosilica GC	750
Interface	IEEE 802.3 1000baseT
Resolution	752 x 480
Sensor	Micron/Aptina MT9V022
Sensor type	CMOS Progressive
Sensor size	Type 1/3
Cell size	6 µm
Lens mount	CS
Max frame rate at full resolution	60 fps
A/D	10 bit
On-board FIFO	16 MB
	Output
Bit depth	8/10 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)	2.2 W
Mass	85 g
Body Dimensions (L x W x H in mm)	45x46x33 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 GC750 technical drawing (click here)





Smart features

The GC750 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 CMOS sensor is suitable for applications where excellent near-IR sensitivity and resistance to blooming are required. These include:

- high-speed inspection
- machine vision
- optical character recognition
- traffic imaging
- robotics
- OEM applications

Application Case Study:

- **Here Comes The Sun**
  Science & Research: Solar power plant uses GigE cameras for mirror alignment.