GS2450

Description

5 Megapixel periscope type camera with GigE Vision

The 5-megapixel GS2450 is a very high-resolution CCD camera with Gigabit Ethernet output (GigE Vision®). The GS2450 uses the high-quality Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise.

- Sony ICX625 CCD sensor
- 15 fps at full resolution (2448 x 2050)
- Progressive Scan / Global shutter

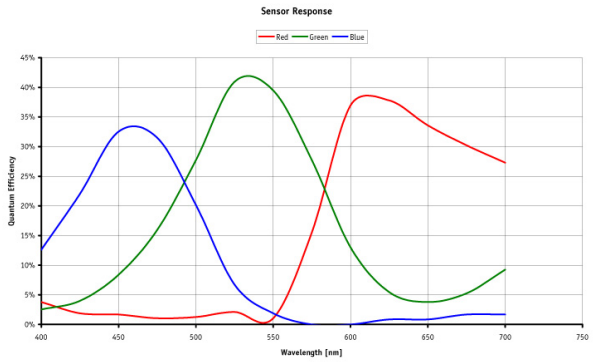
- **Models:**
  - GS2450, 2448x2050, 15 fps, CCD, Mono
  - GS2450C, 2448x2050, 15 fps, CCD, Color

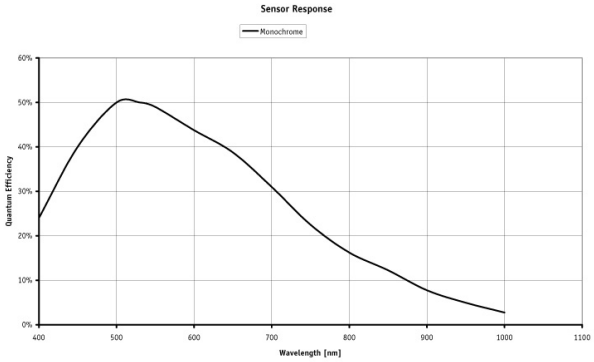
- **Modular options:**
  - White Medical enclosure
  - CS Lens Mount (Factory conversion)
  - IRC Filter on Monochrome cameras (Factory installation)

Specifications

Prosilica GS	2450
Interface	IEEE 802.3 1000baseT
Resolution	2448 x 2050
Sensor	Sony ICX625
Type	CCD Progressive
Sensor Size	Type 2/3
Cell size	3.45 µm
Lens mount	C
Max frame rate at full resolution	15 fps
A/D	14 bit
On-board FIFO	16 MB
	Output
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono16
Color modes YUV	YUV411, YUV422, YUV444
Color modes RGB	RGB24, BGR24, RGBA24, BGRA24
Raw modes	Bayer8, Bayer12, Bayer16
	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)	5V - 25V
Power consumption (12 V)	3.8W
Mass	186 g
Body Dimensions (L x W x H in mm)	96x56x26 including connectors, w/o tripod and lens
Regulations	CE, FCC, Class A, RoHS

Download Prosilica GS2450 technical drawing (click here)





Smart features

The GS2450 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

Applications for the GS2450 include:

- LCD panel inspection
- high-resolution industrial inspection
- 3-D metrology
- general machine vision
- public security
- surveillance
- traffic imaging (Intelligent Traffic Systems)
- embedded systems
- microscopy