

GC2450



Description

Ultra-compact high resolution CCD camera - 5 Megapixels, 15 fps

The 5-megapixel GC2450 is a very high-resolution CCD camera with Gigabit Ethernet output. The GC2450 has a frame rate of 15 fps at 2448x2050 resolution. The sensor used in the GC2450 is the high-quality Sony ICX625 CCD image sensor that provides superior image quality, excellent sensitivity, and low noise.

The GigE Vision® compliant GC2450 works with standard gigabit Ethernet hardware and cable lengths up to 100 meters (300 ft) using conventional Cat-5e ethernet network cable.

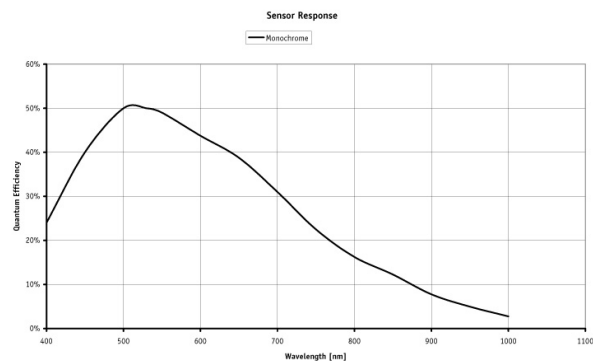
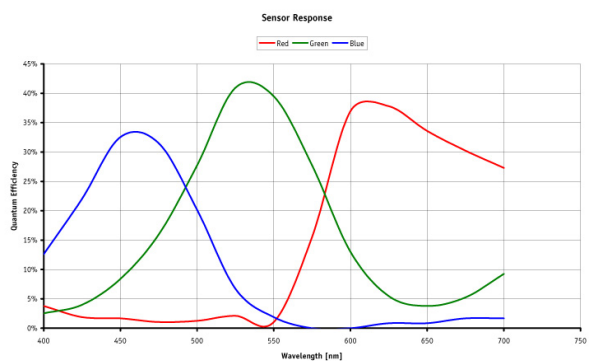
Features include:

- 5 Megapixels (2448x2050)
- Fast - 15 frames per second at full resolution
- Progressive Scan - Global shutter (snapshot)
- Gigabit Ethernet interface

Specifications

| Prosilica GC | GC2450 |
|--|--|
| Resolution | 2448 x 2050 |
| Max frame rate at full resolution | 15 fps |
| Type | CCD Progressive |
| Interface | IEEE 802.3 1000baseT |
| A/D | 12 bit |
| Output | 8/12 bit |
| Sensor Size | Type 2/3 |
| Sensor | Sony ICX625 |
| Cell size | 3.45 µm |
| On-board FIFO | 16 MB |
| Body Dimensions (L x W x H in mm) | 33x46x59 including connectors, w/o tripod and lens |

[Download Prosilica GC technical drawing \(click here\)](#)



Smart features

The GC2450 features include:

- High resolution 2448x2050 pixels
- Fast - 15 frames per second at full resolution
- Progressive Scan - Global shutter (snapshot)
- StreamBytesPerSecond (easy bandwidth control)
- Gigabit Ethernet interface
- GigE Vision™ compliant
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Long cables - up to 100 m
- 16 MB resend buffer
- Easy to use software development Kit (SDK)
- Color and monochrome models

Applications

The GC2450 is ideal for a wide range of applications including:

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

Application Case Studies:

- **Prosilica Cameras Go Airborne**
Prosilica GE2450 used in UAV technology.
- **Playing In The Sandbox**
Prosilica GC2450C in USGS Ocean Sedimentation Study.