

GC650



Description

Very small VGA CCD camera with GigE Vision

The GC650 is a fast, VGA-resolution, high-performance machine vision camera with Gigabit Ethernet interface (GigE Vision®). The CCD sensor has excellent image quality and sensitivity. The camera is suitable for applications where speed and excellent image quality are key requirements.

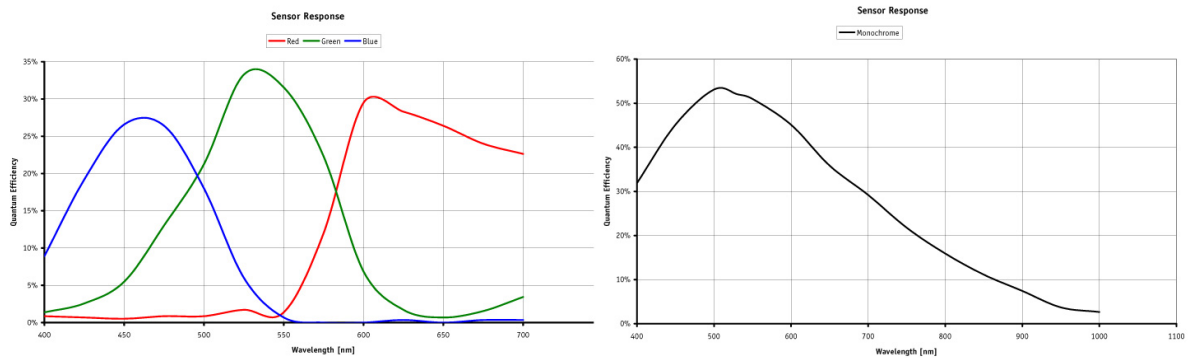
Features include:

- 90 fps at 659x493
- Progressive Scan CCD
- Global shutter (Snapshot shutter)
- Gigabit Ethernet interface

Specifications

Prosilica GC	GC650
Resolution	659 x 493
Max frame rate at full resolution	90 fps
Type	CCD Progressive
Interface	IEEE 802.3 1000baseT
A/D	12 bit
Output	8/12 bit
Sensor Size	Type 1/3
Sensor	Sony ICX424
Cell size	7.4 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 GC650 features include:

- 90 fps at 659x493
- Progressive Scan CCD
- Global shutter (Snapshot shutter)
- StreamBytesPerSecond (easy bandwidth control)
- Flexible binning
- Gigabit Ethernet interface
- Very small and light weight
- Compliant with the AIA GigE Vision standard
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Software development Kit
- Color output modes include RGB color

Applications

The GC650 is suitable for applications where speed and excellent image quality are key requirements. These include:

- machine vision
- industrial inspection
- public security
- traffic monitoring
- robotics

Application Case Studies:

- **Prosilica GC650C in DARPA Urban Challenge**
Prosilica GC cameras track lanes in experimental robotic vehicle designed by GeorgiaTech University and SAIC.
- **GC650 in Wood Industry Measurement System**
Optical measurement system from Forintek checks wood strand size in OSB production process.
- **Prosilica GigE Vision Cameras Tested for New NASA Recording System**
Prosilica's GigE Vision GC Series Cameras are being tested by NASA as the Agency is looking to upgrade one of its existing space shuttle video/camera recording systems.