

GC1020



Description

XGA resolution ultra-compact CCD camera with GigE Vision

The GC1020 is a 1024x768 resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). The GC1020 incorporates the Sony ICX204 CCD sensor providing excellent monochrome and color image quality. The GC1020 runs 30 frames per second at full resolution and even faster with region of interest readout.

The GC1020 works with standard gigabit Ethernet hardware and cables and can have cable lengths up to 100 meters (330 ft) long using conventional Ethernet cabling (Cat5e).

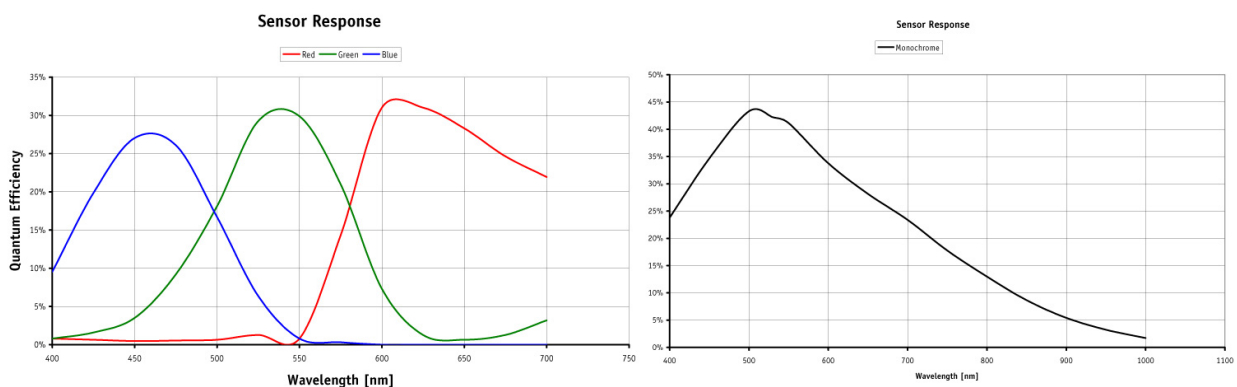
Features include:

- High resolution - 1024 x 768
- Sony Progressive scan CCD
- GigE Vision compliant
- 30 fps at full-resolution

Specifications

Prosilica GC	GC1020
Resolution	1024 x 768
Max frame rate at full resolution	33 fps
Type	CCD Progressive
Interface	IEEE 802.3 1000baseT
A/D	12 bit
Output	8/12 bit
Sensor Size	Type 1/3
Sensor	Sony ICX204
Cell size	4.65 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 GC1020 features include:

- High resolution - 1024x768
- Sony Progressive scan CCD
- Gigabit Ethernet interface
- GigE Vision compliant
- StreamBytesPerSecond (easy bandwidth control)
- Very small and light weight
- Region of Interest readout (AOI partial scan)
- Binning Modes 2x2 to 8x8 and more
- Global shutter (Snapshot shutter)
- 30 fps at full-resolution
- Even faster with Region of Interest readout
- Long cables - up to 100 m on network cabling
- Asynchronous external trigger and sync I/O
- Software development Kit

Applications

The GC1020 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:

- **GigE Vision Rock Solid in Harsh Mining Environments**

Prosilica GC1020C used in Ore-sizing system.

- **In Small Doses**

Ultra-compact Prosilica GC1020C GigE camera used in pharmacy automation solution.

- **Freezing The Shot**

Matrix Systems & Solutions uses Prosilica GC camera to ensure error-free mailing of sensitive medical document.