GC1280

Description

Ultra-compact GigE Vision camera - 1.3 Megapixel mono CMOS sensor

The GC1280 is an ultra-compact, high-resolution, machine vision camera with Gigabit Ethernet interface (GigE Vision®). The GC1280 runs 27 frames per second at 1280x1024 resolution over the GigE Vision-compliant Gigabit Ethernet interface. The CMOS sensor has excellent anti-blooming characteristics.

The GC1280 works with standard gigabit Ethernet hardware and cables and can have cable lengths up to 100 meters (330 ft) long using conventional Cat5e network cabling.

The GC1280 has limited sensitivity and should be used only in applications that have ample illumination.

Features include:

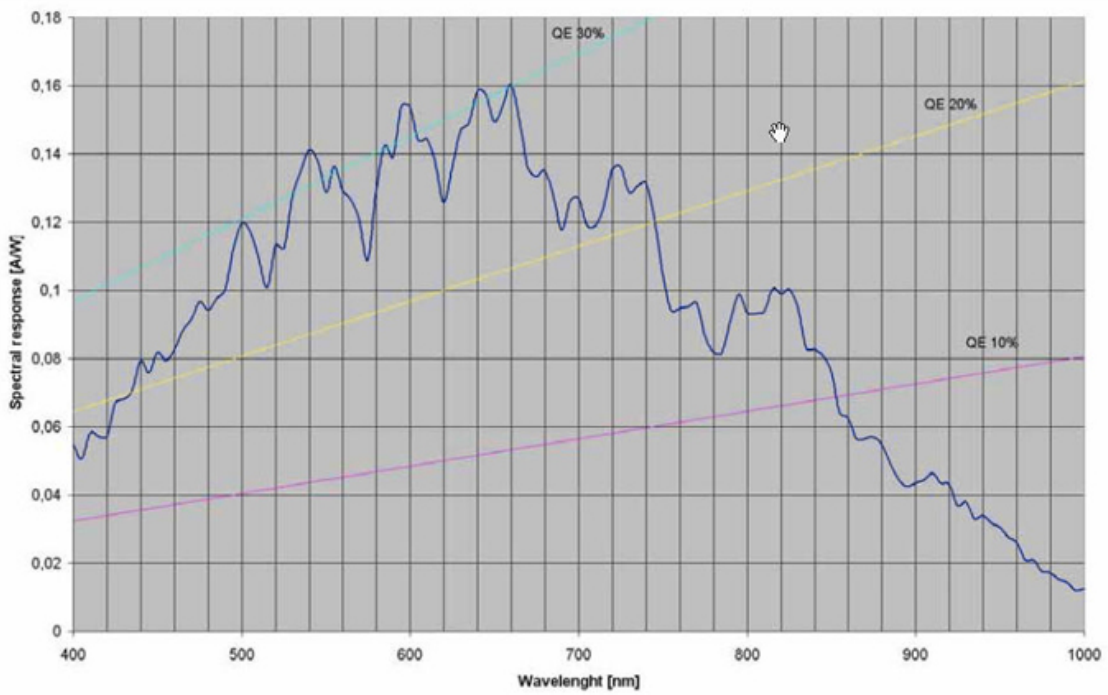
- High Resolution - 1280x1024
- Fast frame rate: 27 fps at full resolution
- 2/3" CMOS sensor with 6.0 um square pixels
- Gigabit Ethernet interface

Specifications

Prosilica GC	GC1280
Resolution	1280 x 1024
Max frame rate at full resolution	27 fps
Type	CMOS Progressive
Interface	IEEE 802.3 1000baseT
A/D	10 bit
Output	8/10 bit
Sensor Size	Type 2/3
Sensor	Cypress IBIS5B
Cell size	6.7 µm
On-board FIFO	16 MB
Body Dimensions (L x W x H in mm)	33x46x51 including connectors, w/o tripod and lens

Download Prosilica GC technical drawing (click here)

Sensor Response (monochrome)



Smart features

The GC1280 features include:

- High Resolution - 1280x1024
- Fast frame rate: 27 fps at full resolution
- 2/3" CMOS sensor with 6.0 um square pixels
- StreamBytesPerSecond (easy bandwidth control)
- Gigabit Ethernet interface
- GigE Vision compliant
- Very small and light weight
- Asynchronous external trigger and sync I/O
- Region of Interest readout (AOI partial scan)
- Long cables - up to 100 m long
- Global shutter (Snapshot shutter)
- Software development Kit

Applications

The GC1280 has limited sensitivity and should be used only in applications that have ample illumination:

- industrial inspection
- machine vision
- ophthalmology
- aeronautical and aerospace
- public security
- surveillance
- traffic imaging
- OEM applications