

# Prosilica GC

## 780



- Compact
- High frame rate
- Rugged housing
- Video-type auto iris

## Description

Low cost GigE camera - 64 fps

Prosilica#GC780 is an ultra-compact, economically priced, machine vision camera with Gigabit Ethernet interface. GC780 incorporates Sony ICX415 CCD sensor and runs 64 frames per second at 782x582 resolution over the GigE Vision compliant Gigabit Ethernet interface.

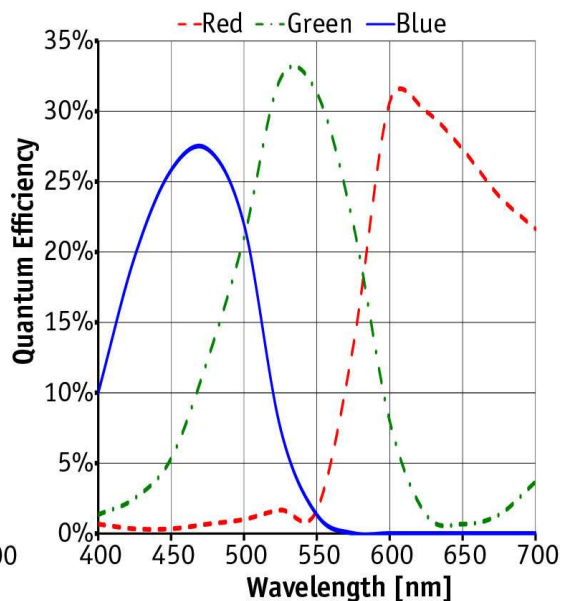
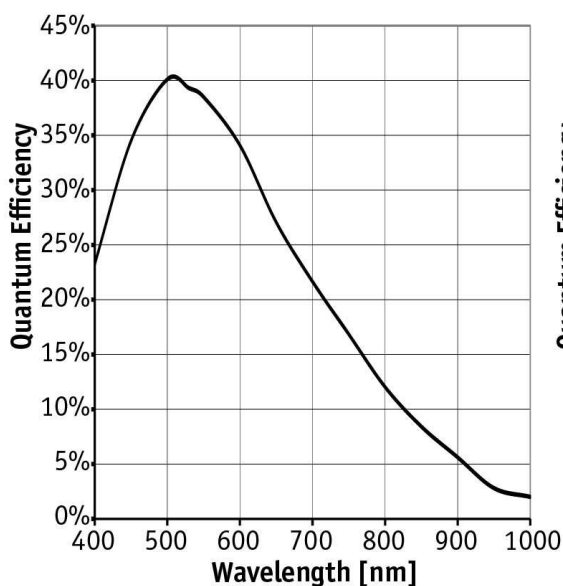
### Options

- IR cut filter, CS-Mount

## Specifications

<b>Prosilica GC</b>	<b>780</b>
Interface	IEEE 802.3 1000baseT
Resolution	782 × 582
Sensor	Sony ICX415
Sensor type	CCD Progressive
Sensor size	Type 1/2
Cell size	8.3 μm
Lens mount	C (adjustable)
Max frame rate at full resolution	64 fps
ADC	12 bit
On-board FIFO	16 Mbyte
	<b>Output</b>
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed
Color modes RGB	RGB8Packed, BGR8Packed

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Raw modes	BayerRG8, BayerRG12, BayerGR12Packed
<b>General purpose inputs/outputs (GPIOs)</b>	
TTL I/Os	1 input, 1 output
Opto-isolated I/Os	1 input, 1 output
RS-232	1
<b>Operating conditions/dimensions</b>	
Operating temperature	0°C ... +50°C
Power requirements (DC)	5-25 VDC*
Power consumption (@12 V)	2.8 W
Mass	100 g
Body dimensions (L × W × H in mm)	59 × 46 × 33 including connectors, w/o tripod and lens
Regulations	CE, FCC Class A, RoHS (2011/65/EU)



## Features

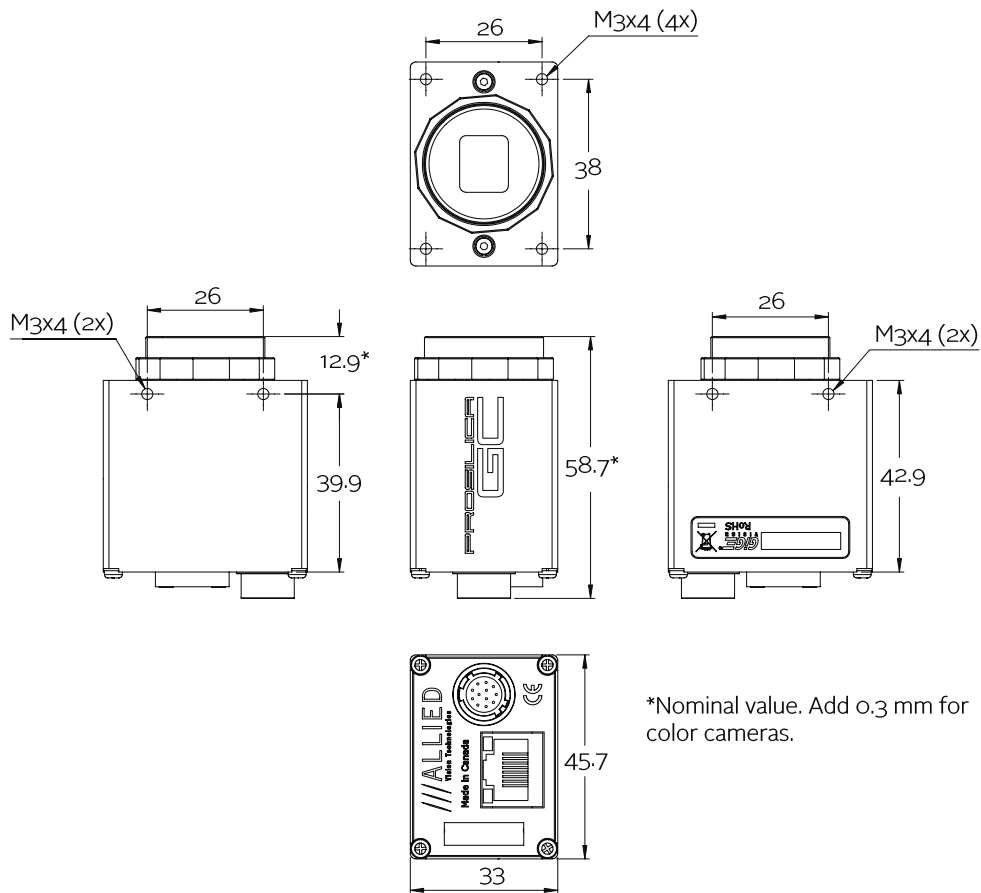
Prosilica GC780 features include:

- Video-type auto iris
- ROI, DSP subregion (selectable ROI for auto features)
- Binning
- Auto gain (manual gain control: 0 to 26 dB for GC780, 0 to 23 dB for GC780C)
- Auto exposure (manual exposure controls: 8  $\mu$ s to 116.8 s)



- Auto white balance
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Global shutter (digital shutter)
- Recorder and Multiframe acquisition modes
- Event channel
- Chunk data
- Storable user sets

## Technical drawing





## Applications

Prosilica GC780 is ideal for a wide range of applications including:

- Industrial inspection
- Machine vision
- Optical character recognition
- Traffic imaging
- Robotics
- OEM applications