

# Prosilica GC 780



- Sony ICX415 sensor
- High frame rate
- Rugged housing
- Video-type auto iris

## Description

### Sony ICX415 CCD sensor, GigE Vision, 64 frames per second

Prosilica GC780 is an ultra-compact, economically priced, machine vision camera with a GigE Vision compliant Gigabit Ethernet interface. This camera incorporates the high quality Sony ICX415 CCD sensor with HAD technology. At full resolution, this camera has a frame rate of 64 frames per second. With a smaller region of interest higher frame rates are possible. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

#### Options:

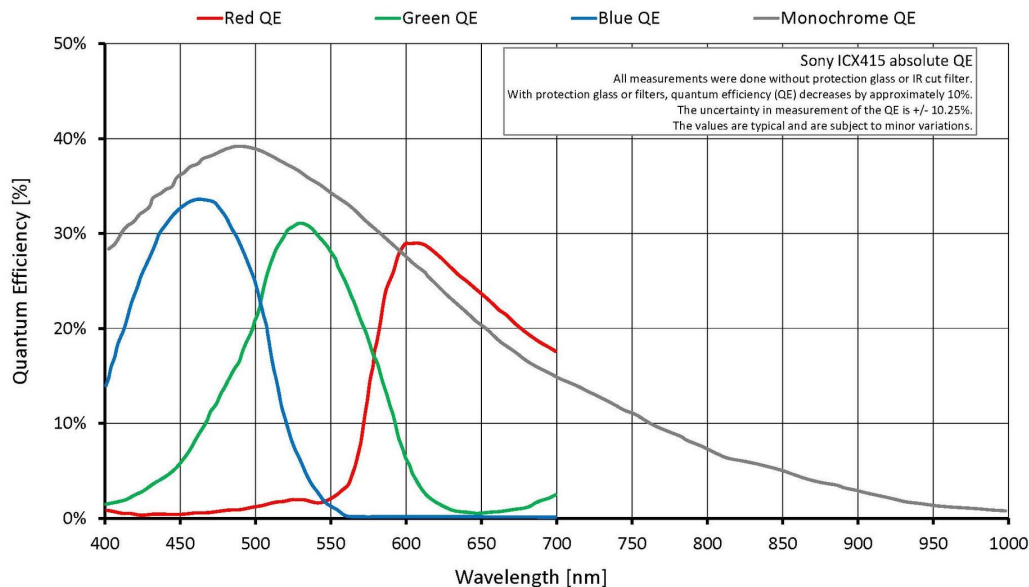
- CS-Mount
- Optical filters (IR cut filter/Protection glass)

See the [Modular Concept](#) for lens mount and optical filter options.

## Specifications

Prosilica GC	780
インターフェイス	IEEE 802.3 1000baseT
解像度	782 (H) × 582 (V)
センサー	Sony ICX415
Sensor type	CCD Progressive
センサーサイズ	Type 1/2
ピクセルサイズ	8.3 μm × 8.3 μm
レンズマウント (標準搭載)	C-Mount
フレームレート (フル解像度)	63.9 fps
ADC	12 bit

Prosilica GC	780
Image buffer (RAM)	16 MByte
<b>Output</b>	
Bit depth	8/12 bit
ビデオフォーマット(Mono)	Mono8, Mono12, Mono12Packed
ビデオフォーマット(RGB)	RGB8Packed, BGR8Packed
ビデオフォーマット(Raw)	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
RS232	1
<b>Operating conditions/dimensions</b>	
Operating temperature	0 °C to +50 °C ambient (without condensation)
Power requirements (DC)	5 to 25 VDC
消費電力	2.8 W at 12 VDC
Mass	100 g
Body dimensions (L × W × H in mm)	59 × 46 × 33 (including connectors)
Regulations	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A; CAN ICES-003





## Features

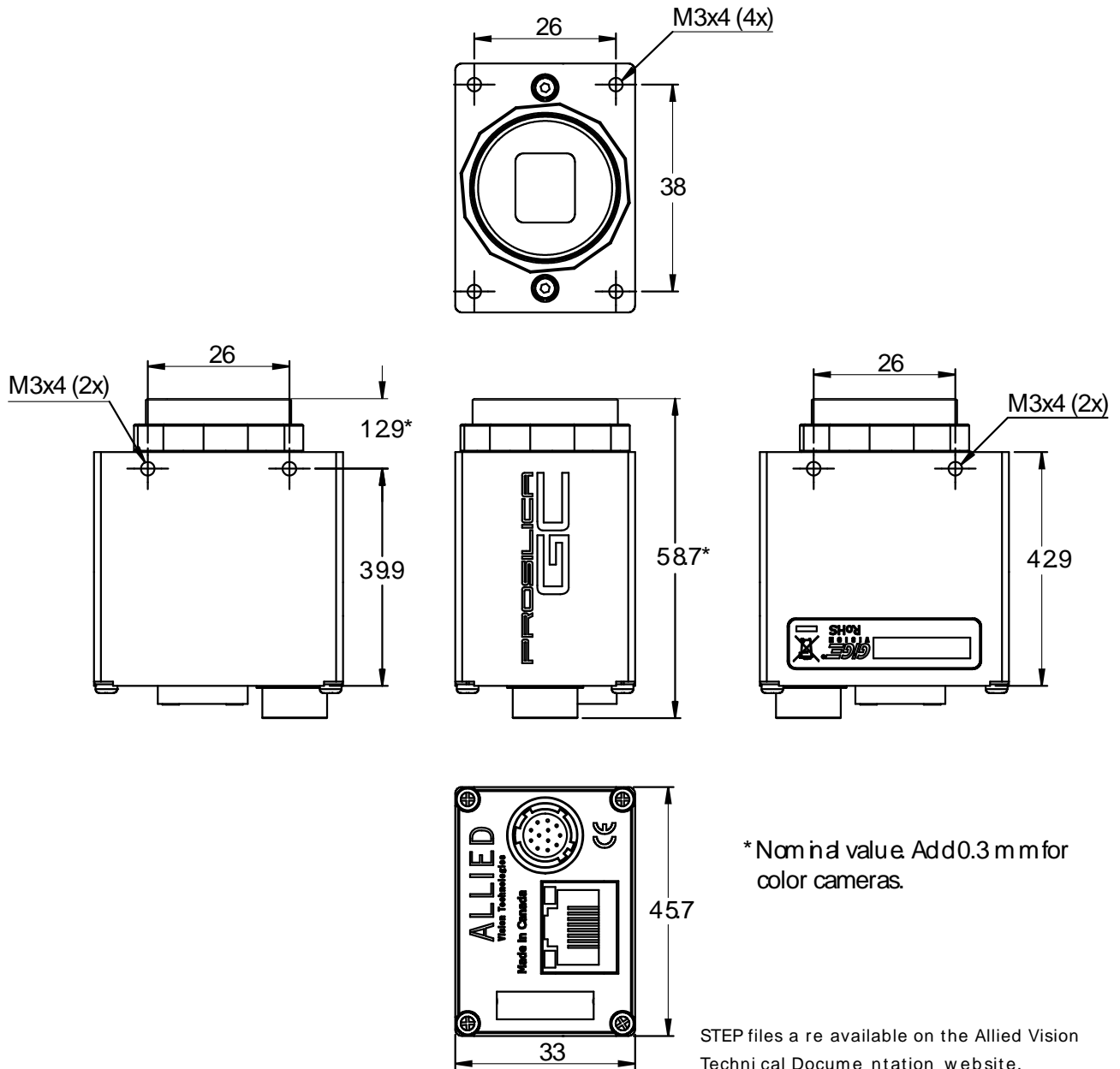
### Image optimization features:

- Auto gain (manual gain control: 0 to 26 dB for GC780, 0 to 23 dB for GC780C)
- Auto exposure (manual exposure control: 8  $\mu$ s to 116.8 s @ 1  $\mu$ s increments)
- Auto white balance
- Binning (horizontal and vertical) (sum)
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)

### Camera control features:

- Auto-iris (video type)
- Event channel
- Global shutter (digital shutter)
- IEEE 1588 Precision Time Protocol (PTP)
- Image chunk data
- Recorder and Multiframe acquisition modes
- RS232
- Five storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO

## 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