

# Prosilica GC 655



- Sony ICX414 sensor
- 90 fps @ full resolution
- Rugged housing
- Video-type auto iris

## Description

### Very Small VGA CCD camera, 90 frames per second

Prosilica GC655 is a fast, VGA resolution, high-performance machine vision camera with a GigE Vision compliant Gigabit Ethernet interface. The 1/2" Sony ICX414 CCD sensor with HAD technology has excellent image quality and sensitivity. At full resolution, this camera has a frame rate of 90 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:

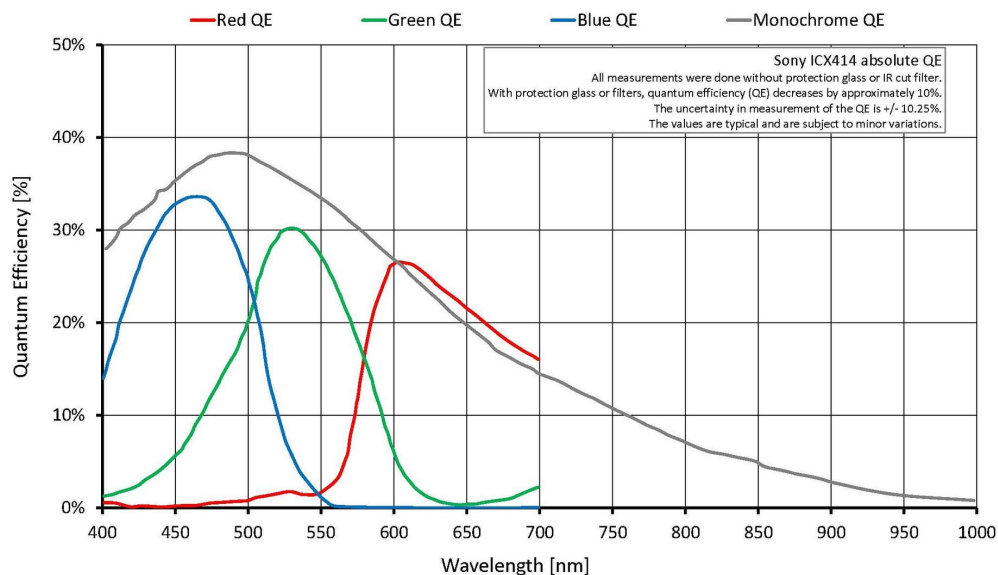
- CS-Mount
- Optical filters (IR cut filter/Protection glass)

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

## Specifications

|                 |                      |
|-----------------|----------------------|
| Prosilica GC    | 655                  |
| インターフェイス        | IEEE 802.3 1000baseT |
| 解像度             | 659 (H) × 493 (V)    |
| センサー            | Sony ICX414          |
| Sensor type     | CCD Progressive      |
| センサーサイズ         | Type 1/2             |
| ピクセルサイズ         | 9.9 μm × 9.9 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) | 90 fps               |

|  |   |
|--|---|
| Prosilica GC                           | 655   |
| ADC                                    | 12 bit  |
| Image buffer (RAM)                     | 16 MByte  |
| Output                                 |   |
| 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  |
| General purpose inputs/outputs (GPIOs) |   |
| TTL I/Os                               | 1 input, 1 output   |
| Opto-isolated I/Os                     | 1 input, 1 output   |
| RS232                                  | 1   |
| Operating conditions/dimensions        |   |
| Operating temperature                  | 0 °C to +50 °C ambient (without condensation)   |
| Power requirements (DC)                | 5 to 25 VDC   |
| 消費電力                                   | 3 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

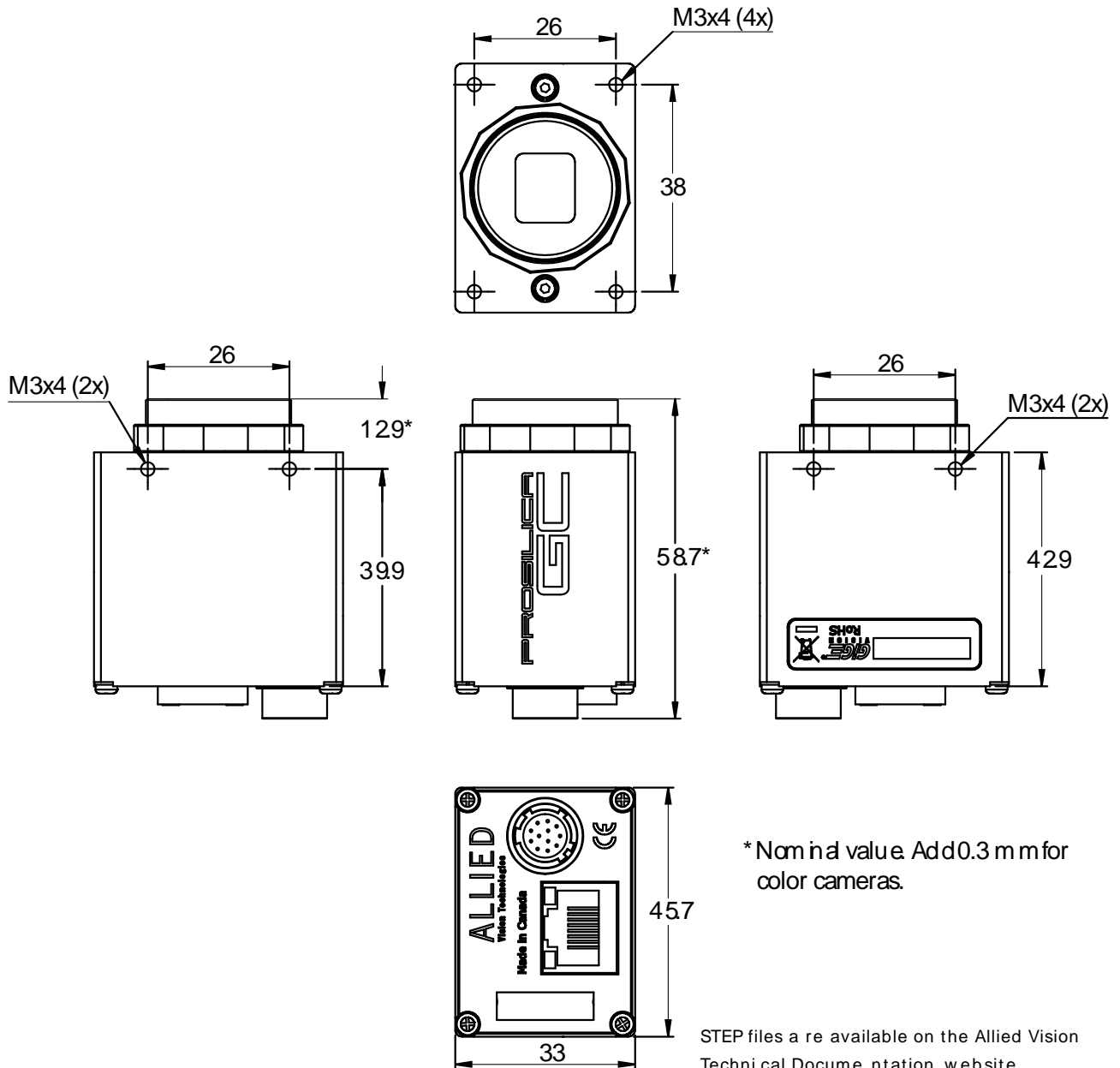
### Image optimization features:

- Auto gain (manual gain control: 0 to 22 dB)
- 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
- 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 GC655 is ideal for a wide range of applications including:

- Machine vision
- Industrial inspection
- Public security
- Traffic monitoring
- Robotics