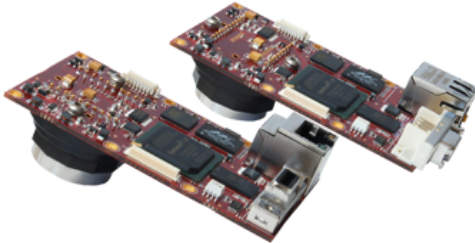


# Prosilica GB

## 660



- Single board
- High frame rate
- Landscape sensor orientation
- Auto-iris (video type)

## Description

### High speed single-board camera, Sony ICX618 CCD sensor, 119.1 fps

Prosilica GB660 is a fast, VGA resolution, high-performance single-board machine vision camera with Gigabit Ethernet interface. This camera incorporates the high quality Type 1/4 (4.5 mm diagonal) Sony ICX618 EXview HAD CCD sensor that has particularly high quantum efficiency and excellent near-infrared response for excellent image quality and sensitivity. At full resolution, this camera runs 119.1 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.

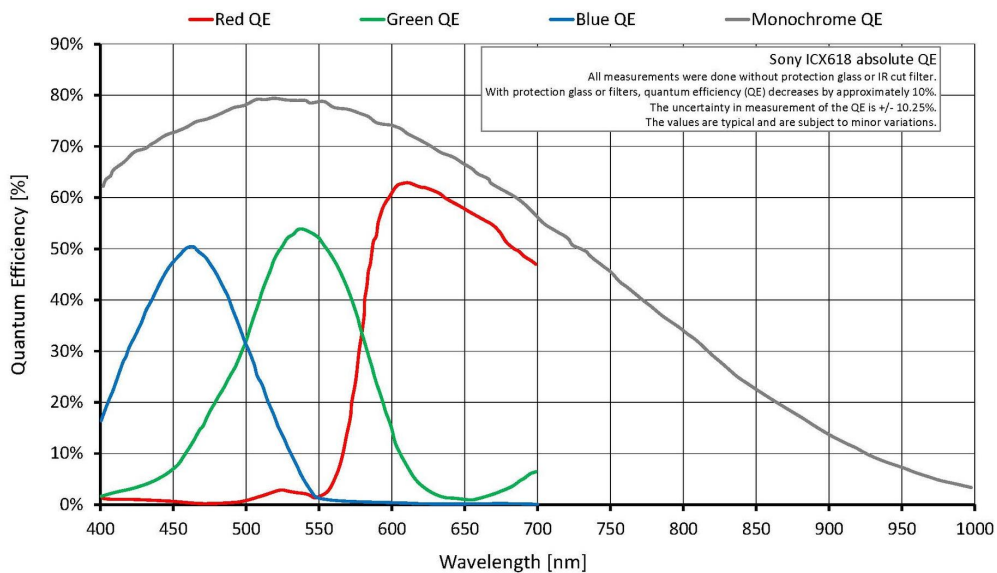
### Options:

- Landscape sensor orientation
- Inline or vertical connector orientation

## Specifications

| Prosilica GB                       | 660                  |
|------------------------------------|----------------------|
| Interface                          | IEEE 802.3 1000baseT |
| Resolution                         | 659 (H) × 493 (V)    |
| Sensor                             | Sony ICX618          |
| Sensor type                        | CCD Progressive      |
| Sensor size                        | Type 1/4             |
| Pixel size                         | 5.6 μm × 5.6 μm      |
| Lens mount (default)               | C-Mount              |
| Max. frame rate at full resolution | 119.1 fps            |
| ADC                                | 14 bit               |

|   |  |
|---|--|
| <b>Prosilica GB</b>                           | <b>660</b>   |
| Image buffer (RAM)                            | 16 MByte   |
| <b>Output</b>                                 |  |
| Bit depth                                     | 8/12 bit   |
| Monochrome pixel formats                      | Mono8, Mono12, Mono12Packed                        |
| YUV color pixel formats                       | YUV411Packed, YUV422Packed, YUV444Packed           |
| RGB color pixel formats                       | RGB8Packed, BGR8Packed                             |
| Raw pixel formats                             | 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 +70 °C ambient (without condensation)      |
| Power requirements (DC)                       | 5 to 25 VDC  |
| Power consumption                             | 3 W at 12 VDC                                      |
| Mass  | 53 g   |
| Body dimensions (L × W × H in mm)             | 51 × 89 (board size - W × L)                       |
| Regulations                                   | 2011/65/EU, including amendment 2015/863/EU (RoHS) |





## Features

### Image optimization features:

- Auto gain (manual gain control: 0 to 30 dB; 1 dB increments)
- Auto exposure (manual exposure control: 10  $\mu$ s to 78.5 s; 1  $\mu$ s increments)
- Auto white balance (GB660C only)
- 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)
- Image chunk data
- Recorder and Multiframe acquisition modes
- RS232
- Storable user sets
- StreamBytesPerSecond (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO



## Applications

Prosilica GB660 is ideal for a wide range of applications including:

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