

# Prosilica GX

## 2750



- 240 MBps with dual interface LAG technology
- 3-axis motorized lens control
- 20 fps at full resolution
- Sony ICX694 sensor

## Description

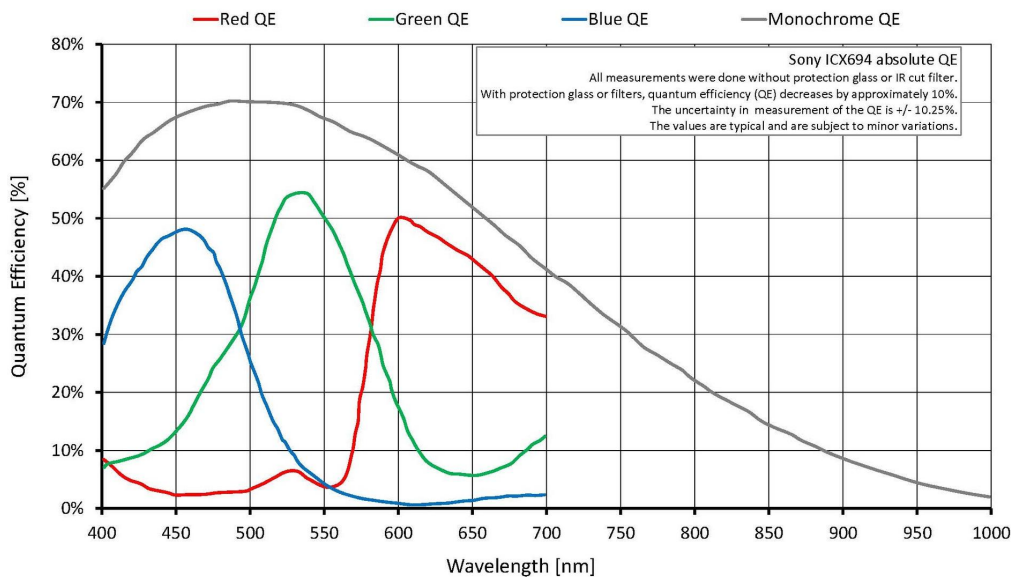
### GigE Vision camera, Sony ICX694 CCD sensor, 20 fps

Prosilica GX2750 is a high-resolution CCD camera with two Gigabit Ethernet ports (GigE Vision®). This camera incorporates the Sony ICX694 CCD sensor that provides high sensitivity, near IR response, low noise, anti-blooming, and excellent image quality. Prosilica GX2750 is offered in both monochrome (GX2750) and color (GX2750C) models. This camera has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBps. It can also work at half the bandwidth (120 MBps) using a single cable. At full resolution, this camera has a frame rate of 20 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.

## Specifications

| Prosilica GX                       | 2750                            |
|------------------------------------|---------------------------------|
| Interface                          | IEEE 802.3 1000baseT            |
| Resolution                         | 2750 (H) × 2200 (V)             |
| Sensor                             | Sony ICX694                     |
| Sensor type                        | CCD Progressive                 |
| Sensor size                        | Type 1                          |
| Pixel size                         | 4.54 μm × 4.54 μm               |
| Lens mount (default)               | C-Mount                         |
| Max. frame rate at full resolution | 20 fps                          |
| ADC                                | 14 bit                          |
| Image buffer (RAM)                 | 128 MByte                       |
| <b>Output</b>                      |                                 |
| Bit depth                          | 14 (monochrome); 12 (color) bit |

| Prosilica GX                                  | 2750  |
|---|---|
| Monochrome pixel formats                      | Mono8, Mono12, Mono12Packed, Mono14   |
| RGB color pixel formats                       | RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed  |
| Raw pixel formats                             | BayerRG8, BayerRG12, BayerGR12Packed  |
| <b>General purpose inputs/outputs (GPIOs)</b> |   |
| Opto-isolated I/Os                            | 2 inputs, 4 outputs   |
| RS232   | 1   |
| <b>Operating conditions/dimensions</b>        |   |
| Operating temperature                         | 0 °C to +50 °C ambient (without condensation)   |
| Power requirements (DC)                       | 10 to 24 VDC  |
| Power consumption                             | 6.1 W at 12 VDC (Single GigE Mode); 7.1 W at 12 VDC (Dual GigE Mode)                                |
| Mass  | 264 g   |
| Body dimensions (L × W × H in mm)             | 108.1 × 53.3 × 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

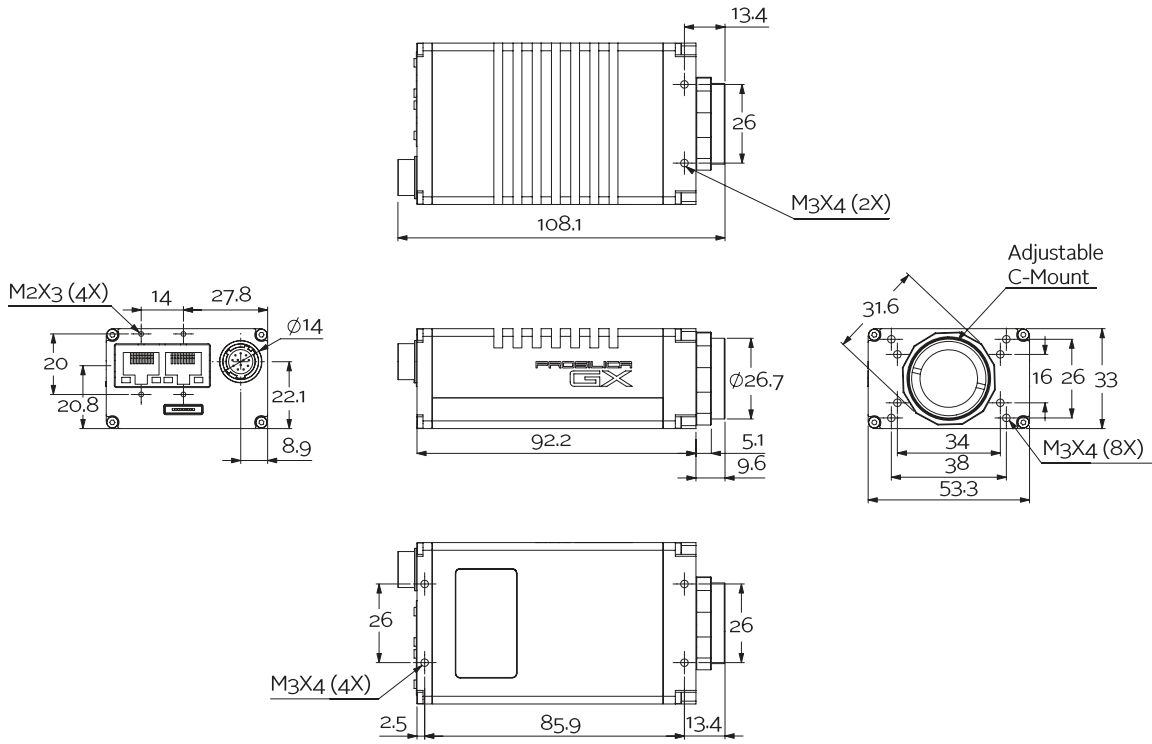
Prosilica GX2750 features include:

- 3-axis motorized lens control



- Video-type auto iris
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning (Sum)
- Auto gain (manual gain control: 0 to 33 dB)
- Auto exposure (manual exposure controls: 10  $\mu$ s to 26.8 s)
- Auto white balance
- StreamBytesPerSecond (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 GX2750 is ideal for a wide range of applications including:

- Industrial inspection
- Machine vision
- LCD panel inspection
- Medical imaging
- Ophthalmology
- Aeronautical and aerospace
- Public security
- Surveillance
- Traffic imaging
- OEM applications
- Other machine vision applications