

Prosilica GX

3300



- 240 MB/s with dual port LAG technology
- 3-axis motorized lens control
- 17 fps @ full resolution
- Various lens mount options

Description

8.1 Megapixel CCD camera with high frame rate - Dual port Gigabit Ethernet output

Prosilica#GX3300/GX3300C is a very high#resolution CCD camera with Gigabit Ethernet output. This camera has a fast frame rate of 17#frames per second#at full resolution. It uses the high-quality 8#Megapixel ON Semiconductor KAI-08050#CCD sensor that provides superior image quality, excellent sensitivity, and low noise. 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 MB per second. It can also work at half the bandwidth (120 MB/s) using a single cable.

Options:

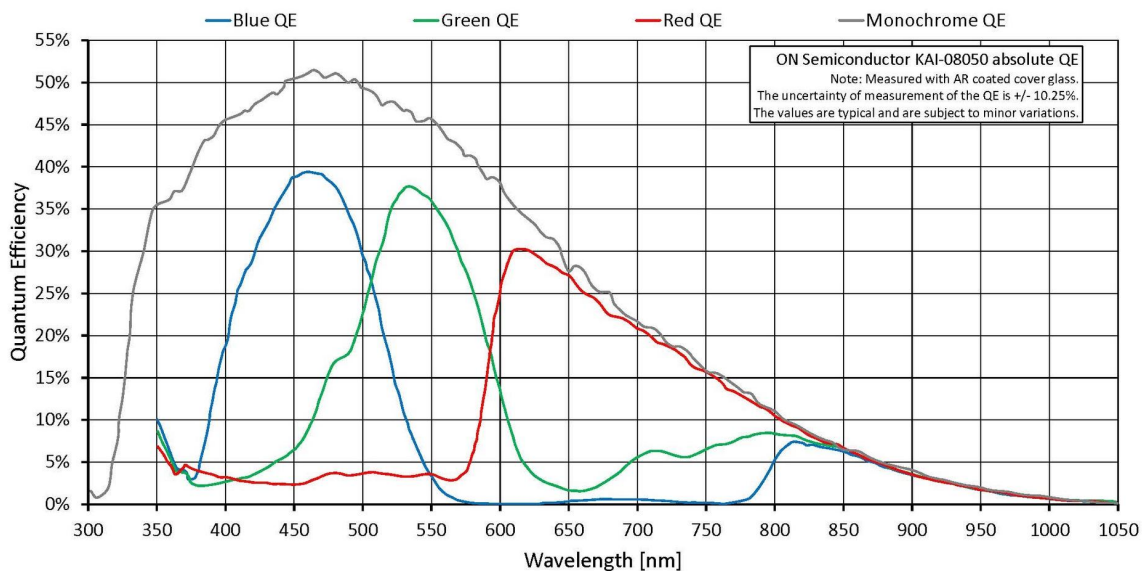
- Canon EF-Mount (Factory conversion via RS232 I/O)
- Optical filters (IR cut filter/Protection glass)
- Sensor variant: Class 2, taped cover glass with microlens
- Sensor variant: Class 2, taped cover glass without microlens

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

Specifications

| Prosilica GX | 3300 |
|-----------------------------------|----------------------|
| Interface | IEEE 802.3 1000baseT |
| Resolution | 3296 (H) × 2472 (V) |
| Sensor | OnSemi KAI-08050 |
| Sensor type | CCD Progressive |
| Cell size | 5.5 μm x 5.5 μm |
| Lens mount | F-Mount |
| Max frame rate at full resolution | 17 fps |

| | |
|---|---|
| Prosilica GX | 3300 |
| ADC | 14 bit |
| Image buffer (RAM) | 128 MByte |
| Output | |
| Bit depth | 14 (monochrome); 12 (color) bit |
| Mono modes | Mono8, Mono12, Mono12Packed, Mono14 |
| Color modes RGB | RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed |
| Raw modes | BayerGR8, BayerGR12, BayerGR12Packed |
| General purpose inputs/outputs (GPIOs) | |
| Opto-isolated I/Os | 2 inputs, 4 outputs |
| RS-232 | 1 |
| Operating conditions/dimensions | |
| Operating temperature | 0 °C to +50 °C ambient (without condensation) |
| Power requirements (DC) | 5 to 24 VDC |
| Power consumption (@12 V) | 6.1 W (1 port); 7.2 W (2 ports) |
| Mass | 365 g |
| Body dimensions (L × W × H in mm) | 136.3 × 53.3 × 33 (including connectors) |
| Regulations | CE, RoHS, REACH, WEEE, FCC, ICES |



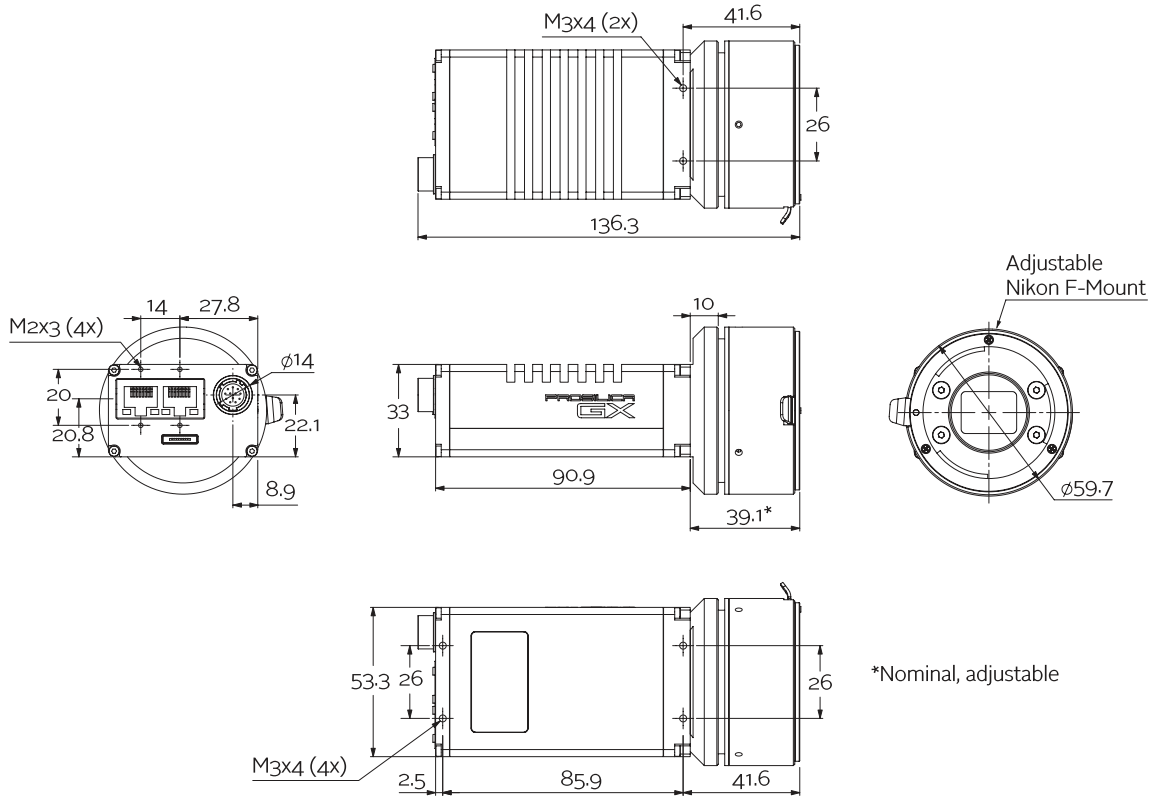
Features

Prosilica#GX3300/GX3300C features include:



- 3-axis motorized lens control
- Video-type auto iris
- Region of interest (ROI), DSP subregion (selectable ROI for auto features)
- Binning
- Auto gain (manual gain control: 0 to 34 dB)
- Auto exposure (manual exposure controls: 10 #s to 26.8 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 GX3300/GX3300C is ideal for a wide range of applications including:

- LCD panel inspection
- High-resolution industrial inspection
- 3D metrology, general machine vision
- Public security
- Military surveillance
- Traffic imaging (Intelligent Traffic Systems)
- Embedded systems
- OEM applications