



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

Description

8.0 Megapixel CCD camera with high frame rate - Dual interface Gigabit Ethernet output

Prosilica GX3300 is a very high resolution CCD camera with Gigabit Ethernet output. This camera has a fast frame rate of 17.1 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. Prosilica GX3300 is offered as #monochrome and Bayer color models. This camera has two screw-captivated Gigabit Ethernet interfaces 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. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.

Benefits and features:

- Monochrome (GX3300) and Bayer color (GX3300C) models
- Dual GigE interface can be configured as a Link Aggregation Group (LAG), single GigE and dual GigE modes
- ON Semiconductor KAI-08050 (Gen2) Type 4/3 CCD sensor#with low noise, high sensitivity, and excellent smear performance
- Support for popular third-party image processing libraries

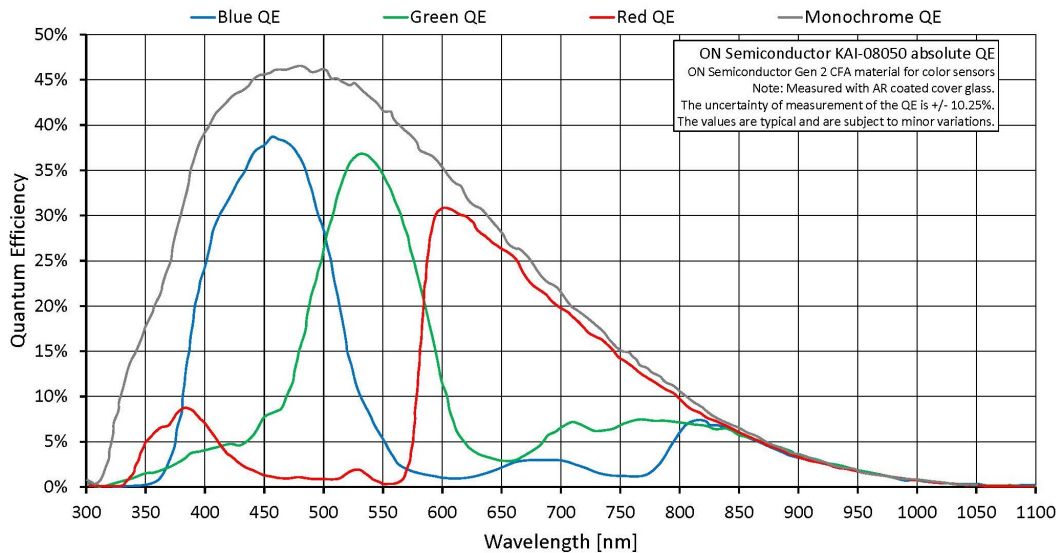
Options:

- 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	ON Semi 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	17.1 fps
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

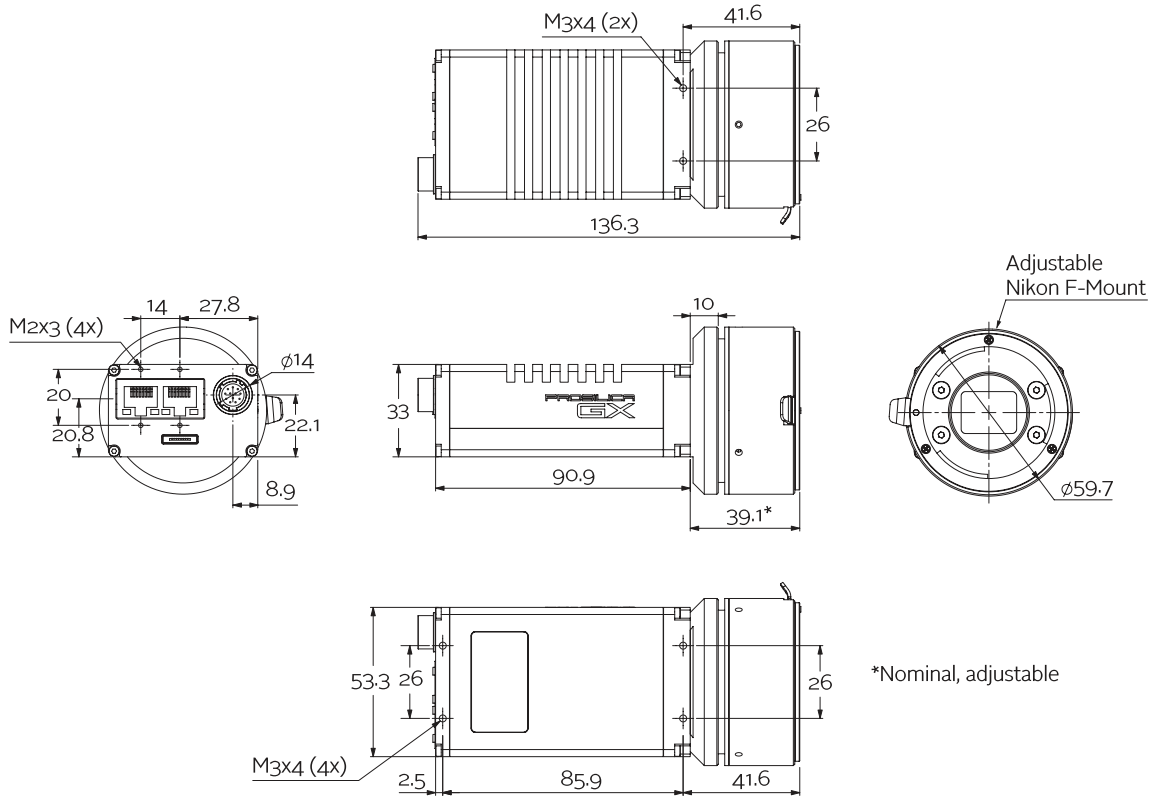
Image optimization features:

- Auto gain (manual gain control: 0 to 34 dB)
- Auto exposure (manual exposure control: 10 μ s to 60 s)
- Auto white balance (color models only)
- Binning (Sum)
- Region of interest (ROI), separate ROI for auto features

Camera control features:

- 3-axis motorized lens control
- Auto-Iris (video type)
- Event channel
- Global shutter (digital shutter)
- Image chunk data
- Recorder and Multiframe acquisition modes
- RS232
- Storable user sets
- StreamBytesPerSecond (easy bandwidth control)
- StreamHold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO

Technical drawing





Applications

Prosilica GX3300 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
- Other machine vision applications