

Prosilica GX

3300C



- 240 MBps with dual interface LAG technology
- 3-axis motorized lens control
- 17.1 fps at full resolution
- ON Semi KAI-08050 sensor

GigE Vision camera, ON Semi KAI-08050 CCD sensor, 17.1 fps

Prosilica GX3300C is a very high resolution CCD camera with dual Gigabit Ethernet output. This camera has a fast frame rate of 17.1 frames per second at full resolution. With a smaller region of interest higher frame rates are possible. 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 MBps. It can also work at half the bandwidth (120 MBps) using a single cable. By default color models ship with an IRC30 IR cut filter.

Benefits and features:

- 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:

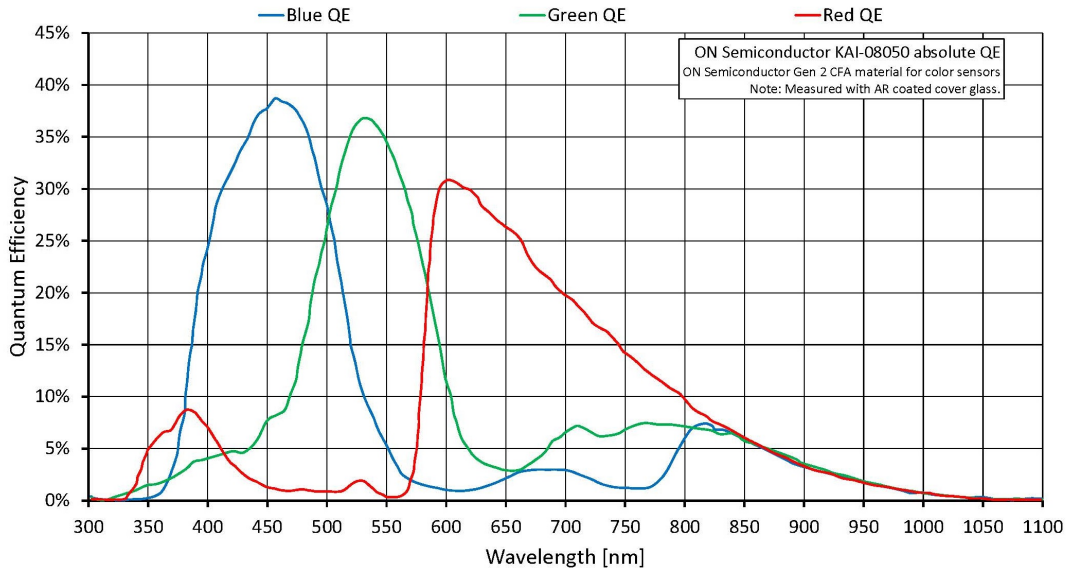
- C-Mount

Specifications

Prosilica GX	3300C
Interface	IEEE 802.3 1000baseT
Resolution	3296 (H) × 2472 (V)
Sensor	ON Semi KAI-08050

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Sensor type	CCD Progressive
Shutter mode	Global shutter
Sensor size	Type 4/3
Pixel size	5.5 µm × 5.5 µm
Lens mount (default)	F-Mount
Max. frame rate at full resolution	17.1 fps
ADC	14 Bit
Image buffer (RAM)	128 MByte
Output	
Bit depth	12 Bit
Monochrome pixel formats	Mono8
RGB color pixel formats	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed
Raw pixel formats	BayerGR8, BayerGR12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 4 outputs
RS232	1
Operating conditions/dimensions	
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); 7.2 W at 12 VDC (Dual GigE Mode)
Mass	365 g
Body dimensions (L × W × H in mm)	136.3 × 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

Quantum efficiency



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
- Binning (Sum)
- Region of interest (ROI), separate ROI for auto features

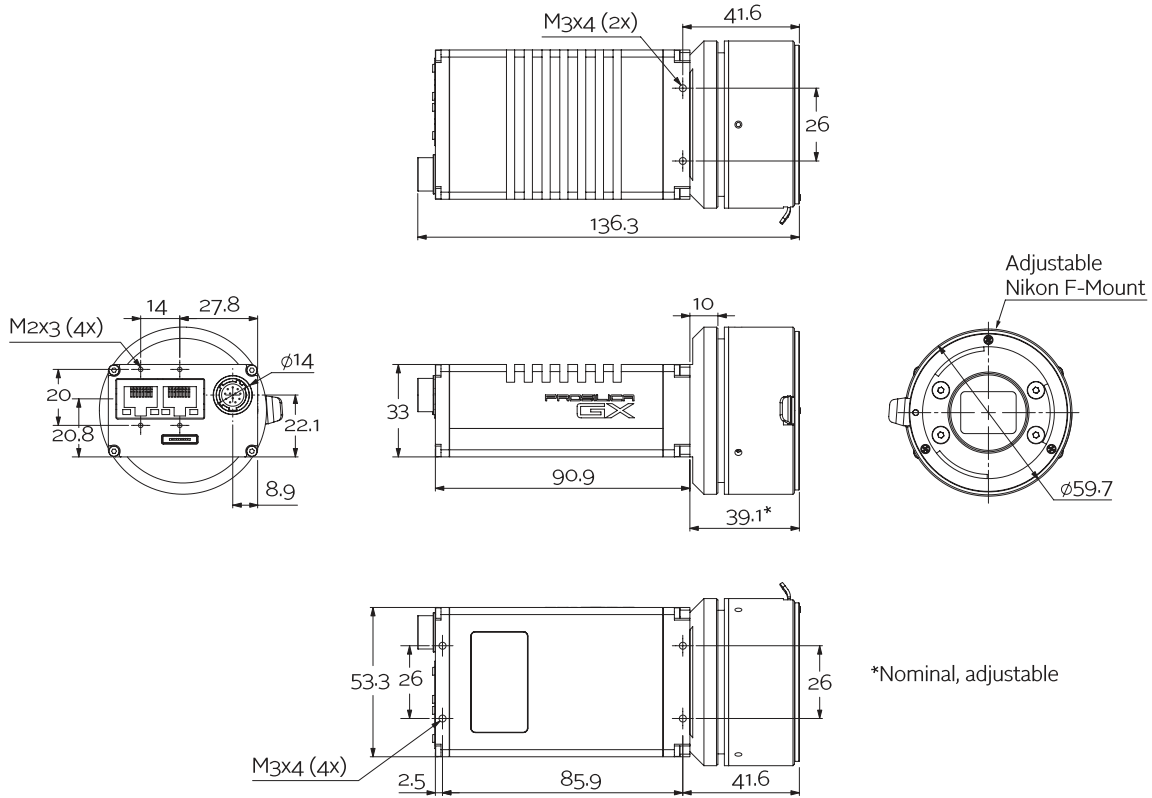
Camera control features:

- 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 (bandwidth control)
- Stream hold



- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO

Technical drawing





Applications

Prosilica 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
- Other machine vision applications