Prosilica GX
3300

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

基本描述

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

Prosilica GX3300 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. Prosilica GX3300 is offered as monochrome and color 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. By default monochrome models ship with no optical filter and color models ship with an IRC30 IR cut filter.
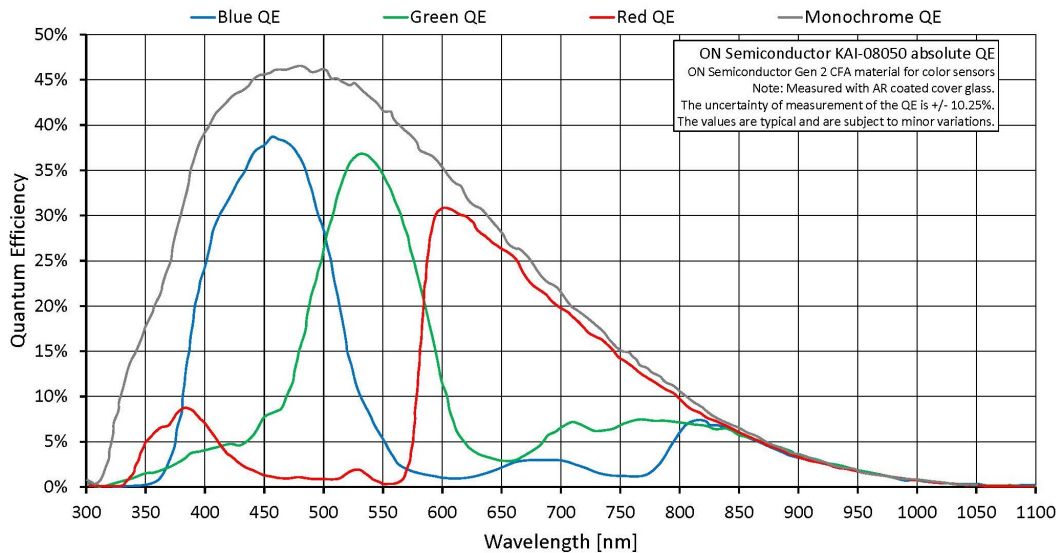
Benefits and features:

- Monochrome (GX3300) and 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:

- C-Mount

Allied Vision

性能参数

Prosilica GX	3300
接口	IEEE 802.3 1000baseT
分辨率	3296 (H) × 2472 (V)
传感器	ON Semi KAI-08050
传感器类型	CCD Progressive
传感器尺寸	Type 4/3
像元尺寸	5.5 µm × 5.5 µm
标准镜头接口	F-Mount
最大满帧帧率	17.1 fps
ADC	14 bit
缓存 (RAM)	128 MByte
输出	
Bit位数	14 (monochrome); 12 (color) bit
黑白像素格式	Mono8, Mono12, Mono12Packed, Mono14
RGB彩色像素格式	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed
原始像素格式	BayerGR8, BayerGR12, BayerGR12Packed
通用输入输出口(GPIOs)	
光耦 I/Os	2 inputs, 4 outputs
RS232	1
工作条件/尺寸	
工作温度	0 °C to +50 °C ambient (without condensation)
电源要求 (DC)	10 to 24 VDC
功耗	6.1 W at 12 VDC (Single GigE Mode); 7.2 W at 12 VDC (Dual GigE Mode)
重量	365 g
尺寸(L × W × H in mm)	136.3 × 53.3 × 33 (including connectors)
符合规范	CE: 2014/30/EU (EMC), 2011/65/EU, including amendment 2015/863/EU (RoHS); FCC Class A; CAN ICES-003

ON Semiconductor KAI-08050 absolute QE
ON Semiconductor Gen 2 CFA material for color sensors
Note: Measured with AR coated cover glass.
The uncertainty of measurement of the QE is +/- 10.25%.
The values are typical and are subject to minor variations.

特性
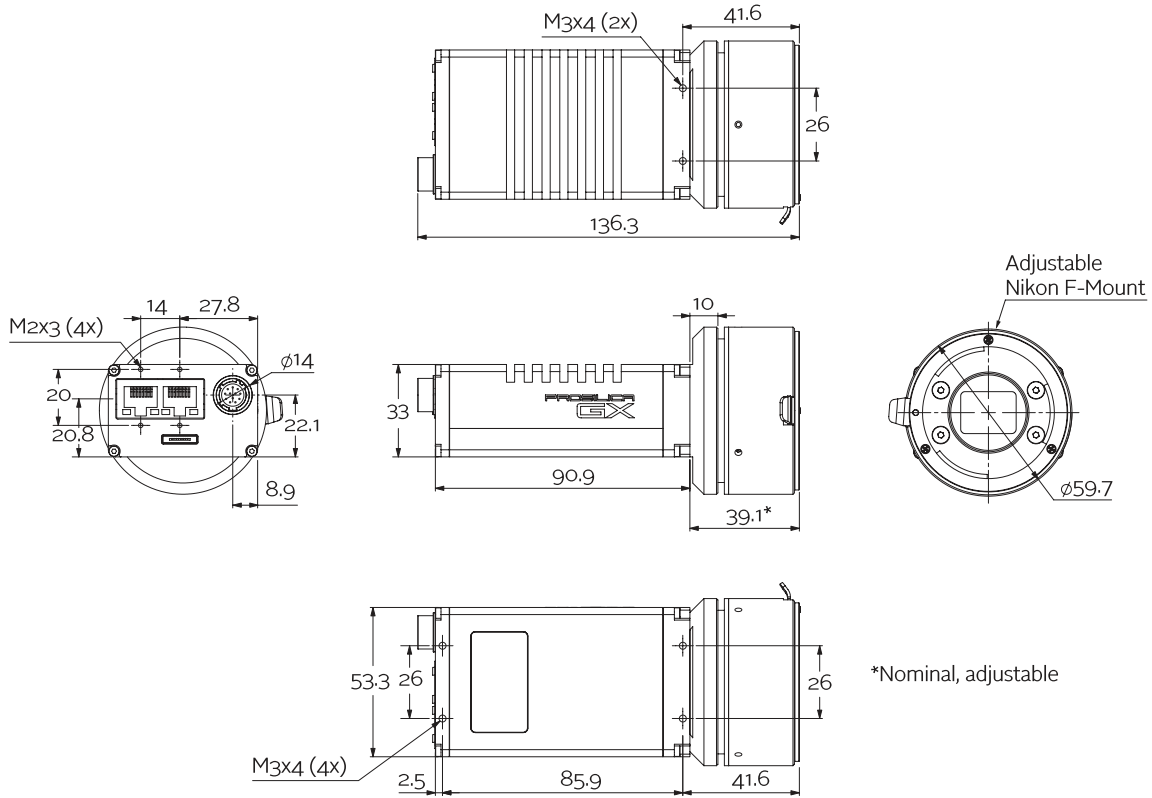
Image optimization features:

- Auto gain (manual gain control: 0 to 34 dB
- Auto exposure (manual exposure control: 10 µs to 60 s)
- Auto white balance (GX3300C 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 (bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO

外形尺寸

M3x4 (2x)

41.6

26

136.3

M2x3 (4x)

14　27.8

Ø14

20

20.8

22.1

8.9

10

33

90.9

39.1*

Adjustable
Nikon F-Mount

Ø59.7

53.3　26

26

M3x4 (4x)

2.5

85.9

41.6

*Nominal, adjustable

应用场景

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