Allied Vision

Prosilica GX

1660

- 240 MB/s with dual port LAG technology
- 3-axis motorized lens control
- High frame rate at full bit depth
- Various mount options

Description

Fast frame rate, 2 megapixel CCD camera - Dual port GigE

Prosilica GX1660 is a high resolution CCD camera with Gigabit Ethernet interface (GigE Vision®). GX1660 incorporates a high-quality 2/3" OnSemi KAI-02050 CCD sensor providing excellent monochrome and color image quality in 4:3 format. GX1660 has two screw-captivated Gigabit Ethernet ports configured as a Link Aggregation Group (LAG) to provide a sustained maximum data rate of 240 MBytes per second. GX1660 can also work at half the bandwidth (120 MB/s) using a single cable.
Options:

- Various IR cut/pass filters and lens mounts
- Sensor variant: Taped glass and microlens
- Sensor variant: Taped glass and no microlens

Specifications

Prosilica GX	**1660**
Interface	IEEE 802.3 1000baseT
Resolution	1600 × 1200
Sensor	OnSemi KAI-02050
Sensor type	CCD Progressive
Cell size	5.5 µm
Lens mount	C-Mount
Max frame rate at full resolution	66 fps
ADC	14 bit
On-board FIFO	128 Mbyte
Output	
Bit depth	14 (mono) - 12 (color) bit

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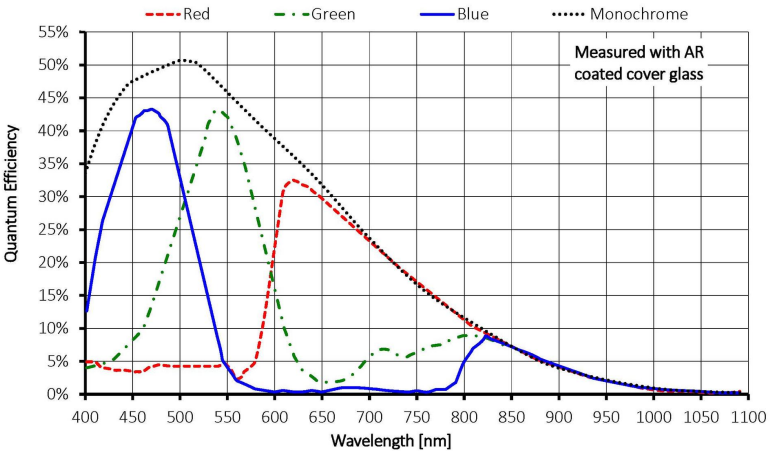
Mono modes	Mono8, Mono12, Mono12Packed, Mono14
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed
Raw modes	BayerGR8, BayerGR12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 4 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	0°C ... +50°C
Power requirements (DC)	5V - 24V
Power consumption (@12 V)	5.6W (1 port) - 6.7W (2 ports)
Mass	269 g
Body dimensions (L × W × H in mm)	107.2 × 53.3 × 33 (including connectors, w/o tripod and lens)
Regulations	CE, FCC Class A, RoHS (2011/65/EU)



Features

The Prosilica GX1660 features include:

- 3-axis motorized lens control
- Video-type auto iris
- ROI, DSP subregion (selectable ROI for auto features)

- Binning
- Auto gain (manual gain control: 0 to 34 dB)
- Auto exposure (manual exposure controls: 10 µs 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 set

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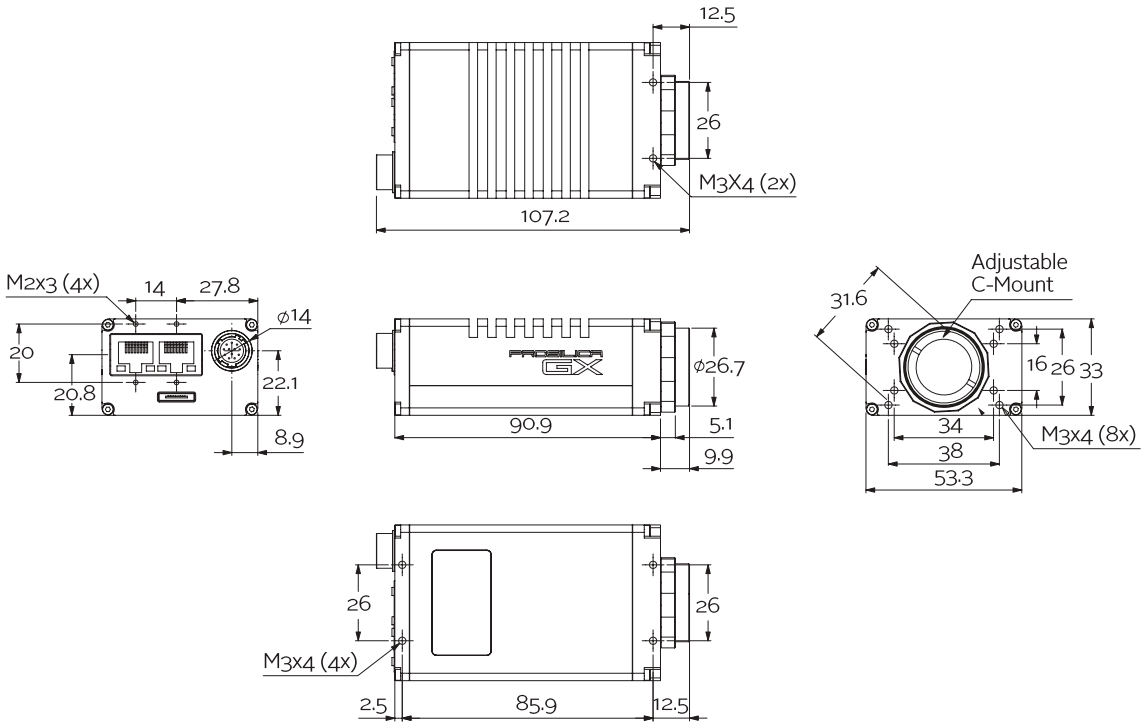
Technical drawing



Applications

GX1660 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