![Allied Vision logo]

Prosilica GX
1050

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

Description

High speed megapixel CCD camera - Dual Port GigE

Prosilica GX1050 is a high resolution CCD camera with Gigabit Ethernet interface (GigE Vision®) that runs 112 frames per second at full resolution. GX1050 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. GX1050 can also work at half the bandwidth (120 MB/s) using a single cable.
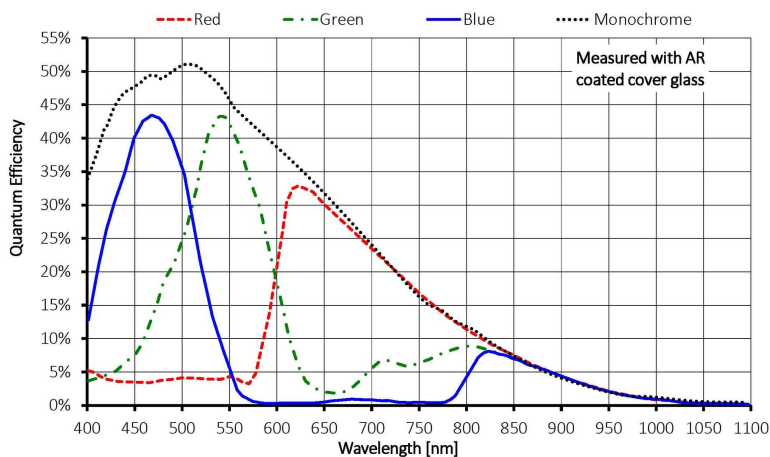Options:

- Nikon F-mount (Factory conversion)
- Canon EF Lens Mount (Factory conversion via RS232 I/O)
- IRC Filter on Monochrome cameras (Factory installation)

Specifications

Prosilica GX	1050
Interface	IEEE 802.3 1000baseT
Resolution	1024 × 1024
Sensor	OnSemi KAI-01050
Sensor type	CCD Progressive
Cell size	5.5 µm
Lens mount	C-Mount
Max frame rate at full resolution	112 fps
ADC	14 bit
On-board FIFO	128 Mbyte
Output	
Bit depth	14 (mono) - 12 (color) bit
Mono modes	Mono8, Mono12, Mono12Packed, Mono14

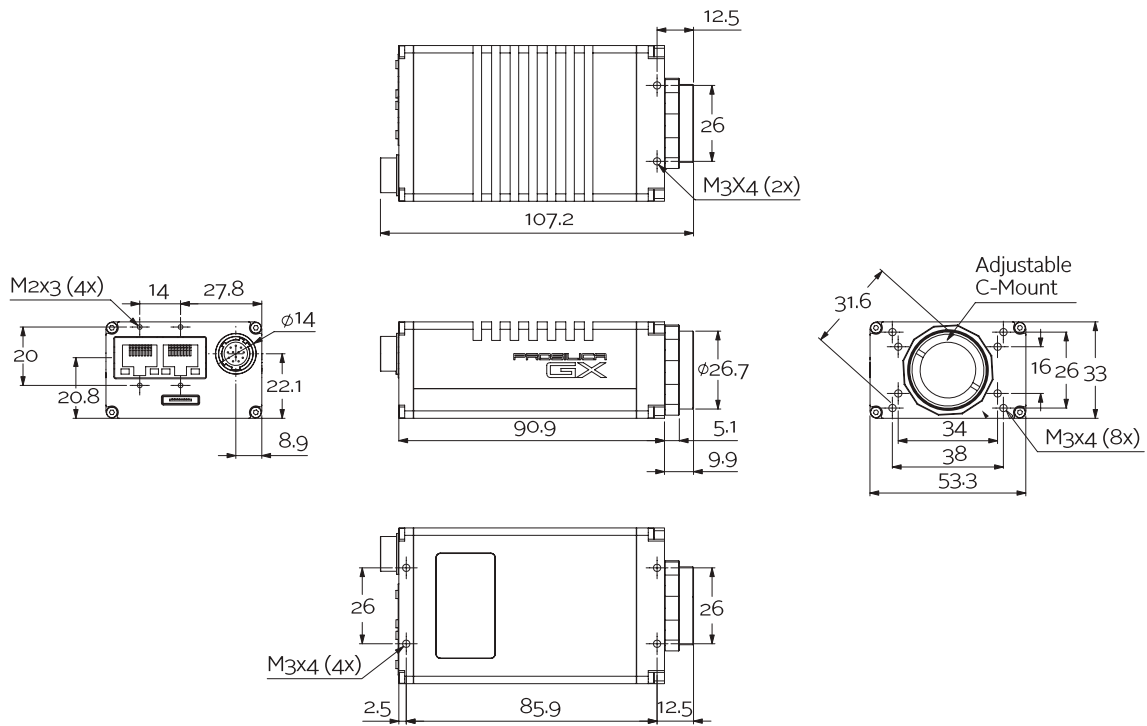| Prosilica GX	1050
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed
Raw modes	BayerGR8, BayerGR12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 4 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	0°C … +50°C
Power requirements (DC)	5V - 24V
Power consumption (@12 V)	5.4W (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 GX1050 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 sets

Technical drawing

12.5

26

M3X4 (2x)

107.2

M2x3 (4x)   14   27.8

20

20.8

22.1

ⵁ14

8.9

ⵁ26.7

90.9

5.1

9.9

Adjustable
C-Mount

31.6

16   26   33

34

38

53.3

M3x4 (8x)

26

26

M3x4 (4x)

2.5

85.9

12.5

Applications

Prosilica GX1050 is ideal for a wide range of applications including:

- Industrial inspection
- Machine vision
- Medical imaging
- Public security
- Surveillance
- Traffic imaging
- OEM applications