

Prosilica GX

1050C



- 240 MBps with dual port LAG technology
- 3-axis motorized lens control
- High frame rate at full bit depth
- ON Semi KAI-01050 sensor

Shift up to double speed

The fastest Gigabit Ethernet cameras in the world - 240MB/s

Prosilica GX 1050C with ON Semi KAI-01050 runs 112 frames per second at 1.0 MP resolution.

Prosilica GX cameras are fast, compact machine vision cameras with Gigabit Ethernet interface (GigE Vision®). The GX-Series have 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. Prosilica GX can also work at half the bandwidth (120 MB/s) using a single cable.

- Very Fast - 240 MB/s
- 3-axis motorized lens control and video-type autoiris
- Single or dual Ethernet port operation
- 1 to 29 Megapixel
- Fast frame rates upto 112 fps
- OnSemi KAI or Sony quad-tap CCD sensors
- Modular options available

Specifications

Interface	IEEE 802.3 1000BASE-T
Resolution	1024 (H) × 1024 (V)
Sensor	ON Semi KAI-01050
Sensor type	CCD Progressive
Shutter mode	GS (Global shutter)
Sensor size	Type 1/2
Pixel size	5.5 µm × 5.5 µm
Lens mount (default)	C-Mount
Max. frame rate at full resolution	112 fps
ADC	14 Bit
Image buffer (RAM)	128 MByte

Output

Bit depth	12-bit
Monochrome pixel formats	Mono8
YUV color pixel formats	YUV411Packed, YUV422Packed, YUV444Packed
RGB color pixel formats	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed
Raw color pixel formats (Bayer)	BayerGR8, BayerGR12, BayerGR12Packed

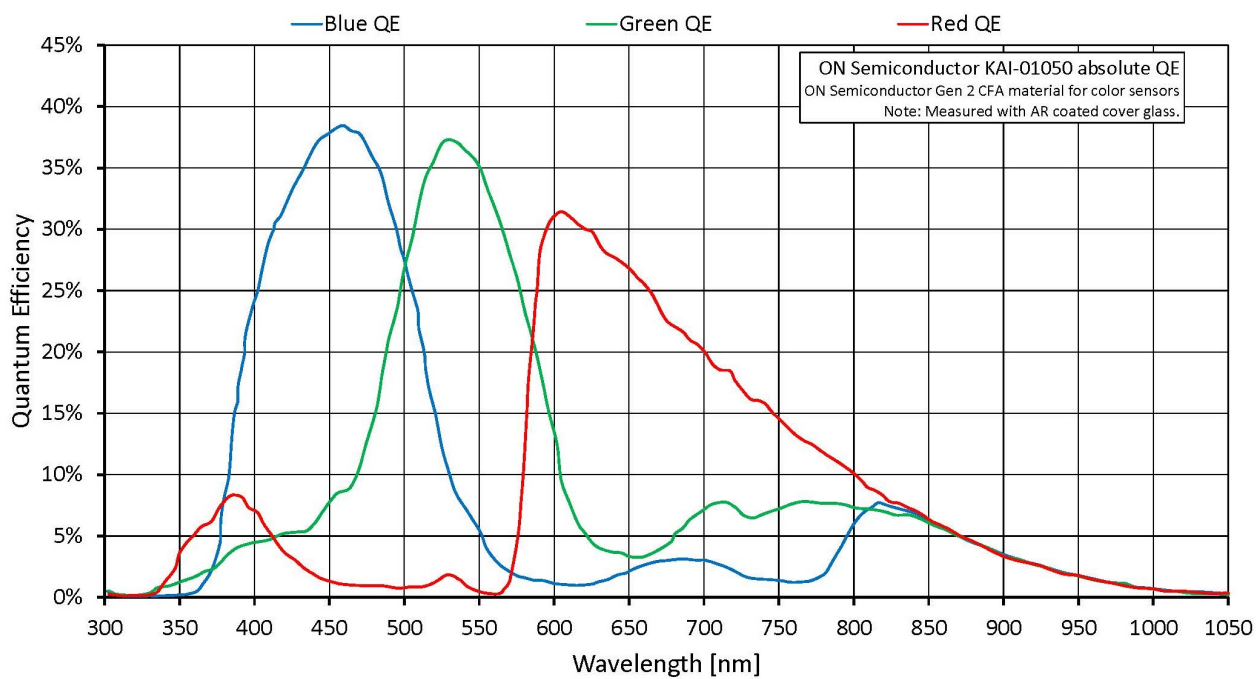
General purpose inputs/outputs (GPIOs)

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	5.4 W at 12 VDC (Single GigE Mode); 6.7 W at 12 VDC (Dual GigE Mode)
Mass	269 g
Body dimensions (L × W × H in mm)	107.2 × 53.3 × 33 (including connectors)

Quantum efficiency



Features

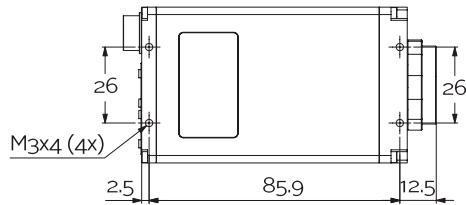
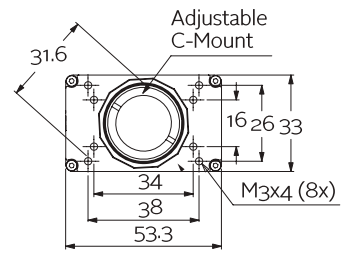
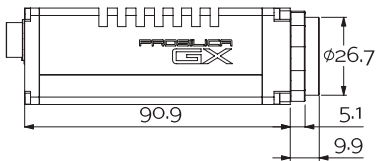
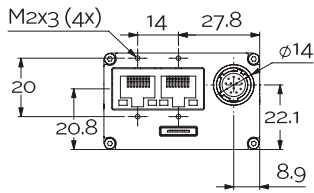
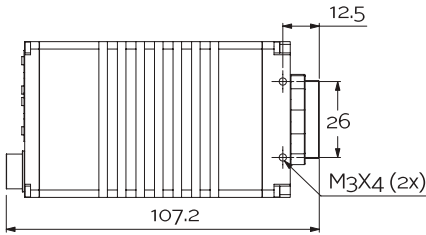
Image optimization features:

- Auto gain (manual gain control: 0 to 34 dB)
- Auto exposure (manual exposure controls: 10 μ s to 26.8 s)
- Auto white balance
- Binning (Sum)
- Region of interest, separate region 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

Allied Vision



Applications

Prosilica GX1050C is ideal for a wide range of applications including:

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