

Prosilica GE

1050



- 59 fps @ 1 Megapixel
- OnSemi KAI-01050 sensor
- Galvanically isolated I/O
- Various mount options

Description

Fast CCD Megapixel camera

Prosilica GE1050 is a fast CCD camera with Gigabit Ethernet interface (GigE Vision®). It incorporates the 1024 x 1024 OnSemi KAI-01050 CCD that runs just under 59 frames per second at megapixel resolution and even faster with region of interest readout.

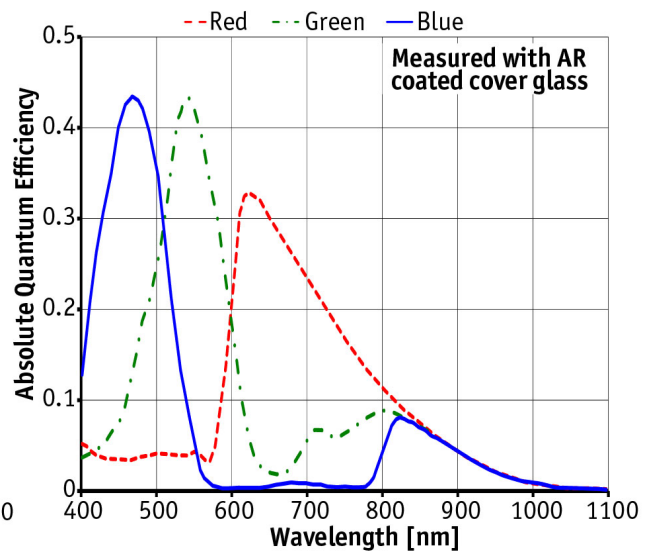
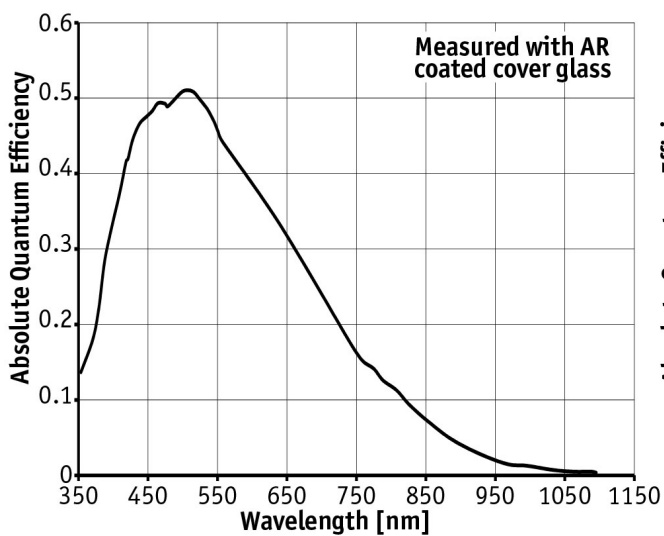
Options

- IR cut filter (monochrome cameras)
- Various lens mounts

Specifications

Prosilica GE	1050
Interface	IEEE 802.3 1000baseT
Resolution	1024 × 1024
Sensor	OnSemi KAI-01050
Sensor type	CCD Progressive
Sensor size	Type 1/2
Cell size	5.5 µm
Lens mount	C (adjustable)
Max frame rate at full resolution	59 fps
ADC	12 bit
On-board FIFO	32 Mbyte
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed

Prosilica GE	1050
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed, RGB12Packed
Raw modes	BayerGR8, BayerGR12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1
RS-232	1
Operating conditions/dimensions	
Operating temperature	0°C ... +50°C
Power requirements (DC)	5V - 24V
Power consumption (@12 V)	5 W
Mass	178 g
Body dimensions (L × W × H in mm)	80 × 51 × 39 including connectors, w/o tripod and lens
Regulations	CE, FCC Class A, RoHS (2011/65/EU)



Features

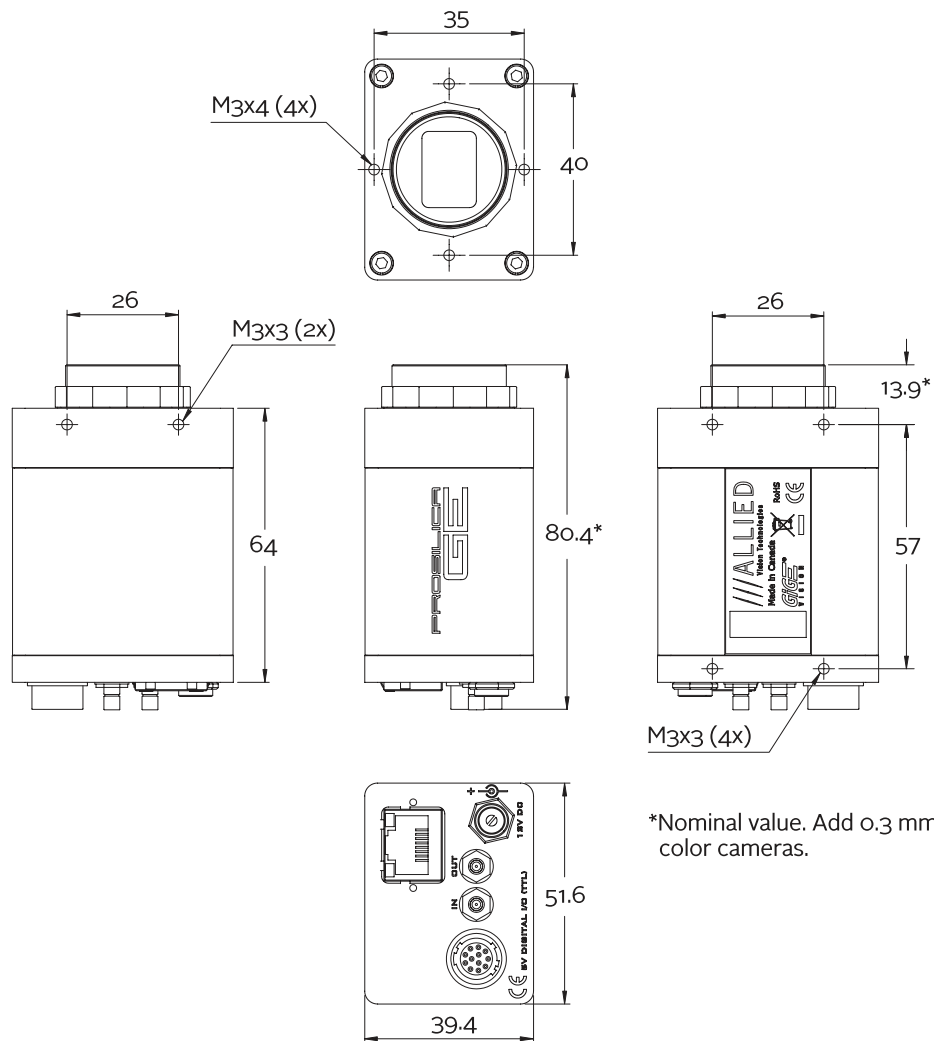
Prosilica GE1050 features include:

- 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 53.7 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



*Nominal value. Add 0.3 mm for color cameras.



Applications

Prosilica GE1050 is ideal for a wide range of applications including:

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