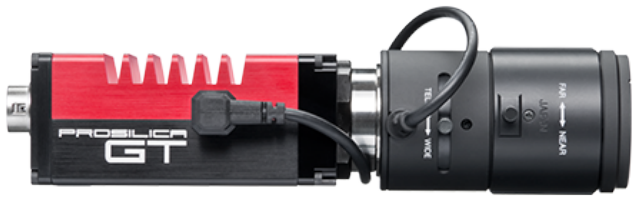
Allied Vision

Prosilica GT

2050



- Versatile temperature range for extreme environments
- CMOSIS CMOS sensor
- PTP and PoE
- P-Iris and DC-Iris lens control

Description

4 Megapixel camera for Extreme environments - fast frame rates
Prosilica GT2050 is a 4 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). GT2050 incorporates CMOSIS CMV4000 sensor. GT2050 is a rugged camera designed to operate in extreme environments and fluctuating lighting conditions. It offers Precise iris lens control allowing users to fix the aperture size to optimize depth of field, exposure and gain without the need for additional control elements.
Options:

- Various IR cut/pass filters and lens mounts

Specifications

Prosilica GT	**2050**
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	2048 × 2048
Sensor	CMOSIS CMV4000
Sensor type	CMOS Progressive
Cell size	5.5 µm
Lens mount	C-Mount
Max frame rate at full resolution	28.6 fps
ADC	12 bit
On-board FIFO	128 Mbyte
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed

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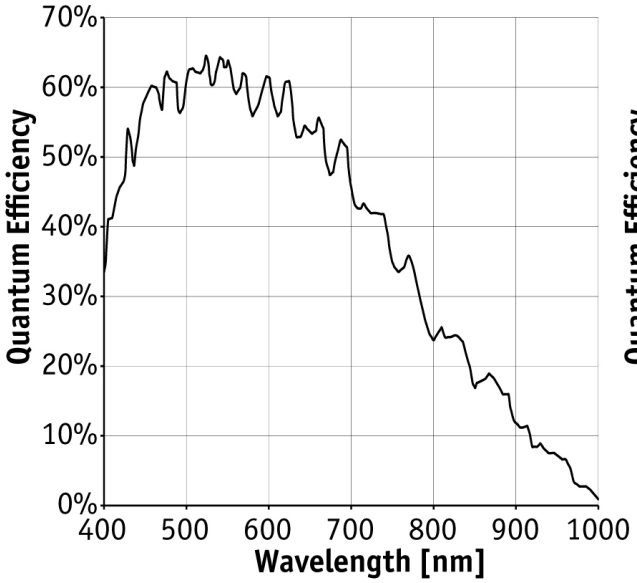
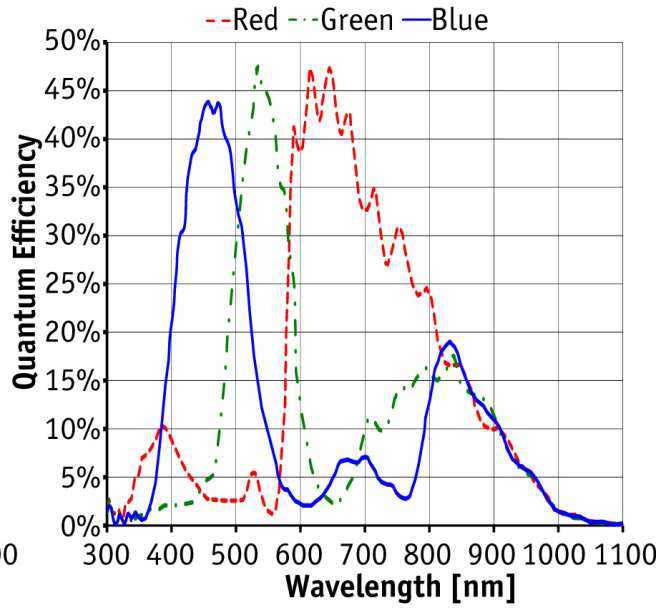
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
Raw modes	BayerGB8, BayerGB12, BayerGB12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 2 outputs
Opto-isolated I/Os	1 input, 2 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	-20°C ... +65°C
Power requirements (DC)	PoE, or 7–25 VDC
Power consumption (@12 V)	4.3 W (PoE) / 3.5 W @ 12 VDC
Mass	210 g
Body dimensions (L × W × H in mm)	86 × 53.3 × 33 mm including connectors, w/o tripod and lens
Regulations	CE, FCC Class A, RoHS (2011/65/EU)





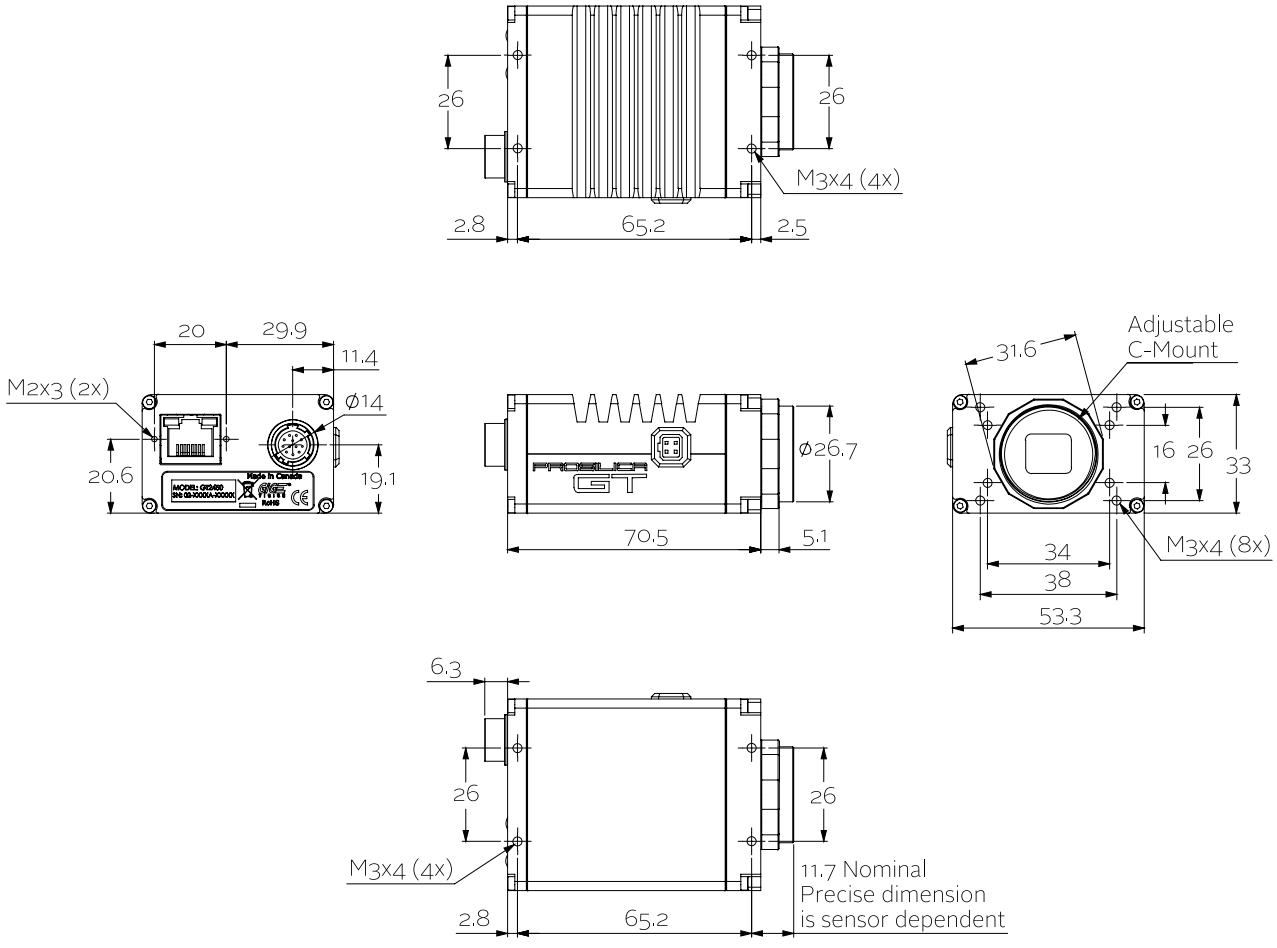
Features

Prosilica GT2050 features include:

- Precision Time Protocol (IEEE 1588)
- Camera temperature monitoring
- Defect masking

- Auto iris (P-Iris and DC-Iris)
- ROI, separate ROI for auto features
- Auto gain (manual gain control: 0 to 26 dB)
- Auto exposure (manual exposure control: 34 µs to 126.2 s)
- Auto white balance
- Gamma
- Hue, saturation, color correction
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Event channel
- Chunk data
- Storable user sets

Technical drawing



Applications

Prosilica GT2050 is ideal for a wide range of applications including:

- Outdoor imaging
- Traffic imaging / ITS
- Public security and surveillance
- Industrial inspection
- Machine vision
- Military and space applications