Prosilica GT

4905

- Versatile temperature range for extreme environments
- PTP
- PoE
- 7.5 fps @ 16 Megapixel

Description

16 Megapixel CCD camera for extreme environments - GigE Vision®

Prosilica GT4905 is a 16 Megapixel camera with a Gigabit Ethernet interface (GigE Vision®). GT4905 incorporates a OnSemi KAI-16050 CCD sensor providing excellent monochrome and color image quality. GT4905 is a rugged camera designed to operate in extreme environments. GT4905 is a large format housing camera with a standard F-Mount lens mount.
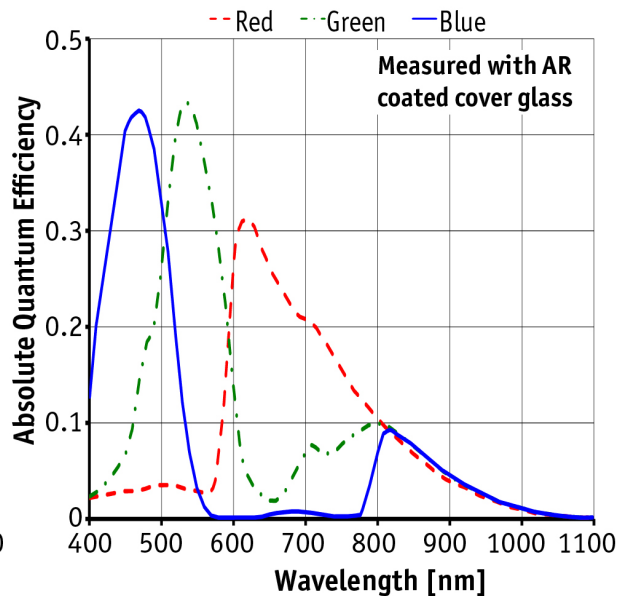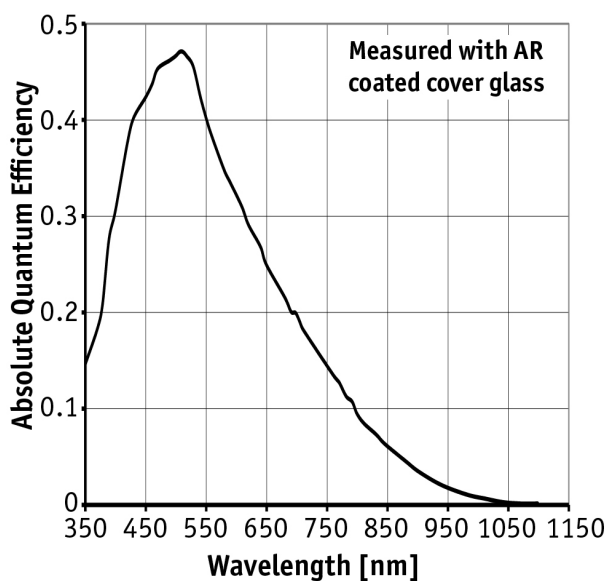
Options:

- Various IR cut/pass filters and lens mounts
- Class 1 sensor

Specifications

Prosilica GT	4905
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	4896 × 3264
Sensor	OnSemi KAI-16050
Sensor type	CCD Progressive
Cell size	5.5 µm
Lens mount	F-Mount
Max frame rate at full resolution	7.5 fps
ADC	14 bit
On-board FIFO	128 Mbyte
Output	
Bit depth	14 (mono) - 12 (color) bit
Mono modes	Mono8, Mono12, Mono12Packed, Mono14
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed

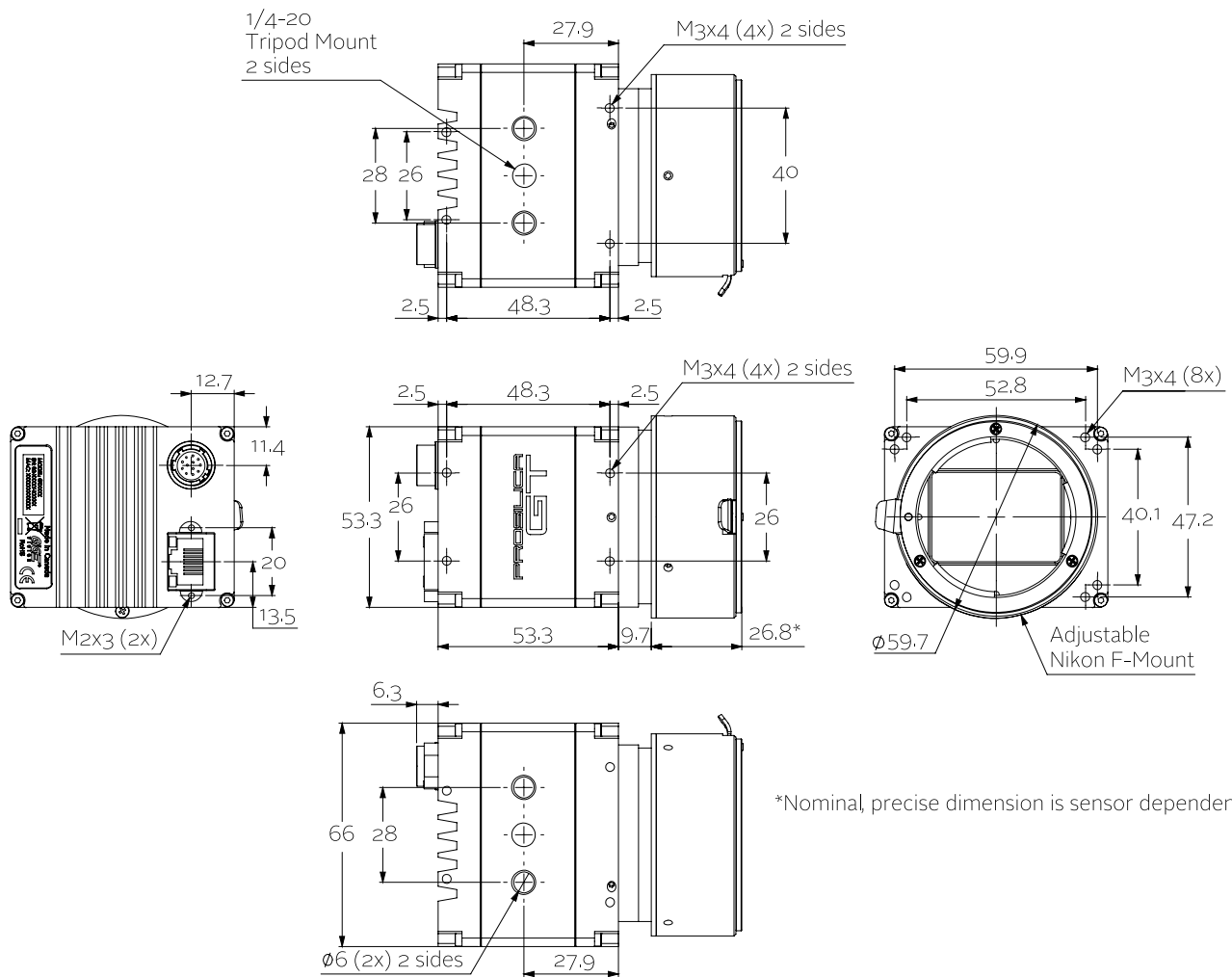| Prosilica GT	4905
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
Raw modes	BayerGR8, BayerGR12, BayerGR12Packed
General purpose inputs/outputs (GPIOs)	
TTL I/Os	1 input, 2 outputs
Opto-isolated I/Os	1 input, 2 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	-20°C … +50°C
Power requirements (DC)	PoE, or 7–25 VDC
Power consumption (@12 V)	9.0 W (PoE) / 7.3 W @ 12 VDC
Mass	372 g
Body dimensions (L × W × H in mm)	96 × 66 × 53.3 mm including connectors, w/o tripod and lens
Regulations	CE, FCC Class A, RoHS (2011/65/EU)

Features

Prosilica GT4905 features include:

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

- ROI, separate ROI for auto features
- Binning
- Auto gain (manual gain control: 0 to 32 dB)
- Auto exposure (manual exposure control: 15 µs to 26.8 s)
- Auto white balance
- LUTs (look-up tables)
- 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

1/4-20 Tripod Mount 2 sides

27.9

M3x4 (4x) 2 sides

28 26

40

2.5 48.3 2.5

12.7

11.4

20

13.5

M2x3 (2x)

2.5 48.3 2.5

M3x4 (4x) 2 sides

53.3 26 26

53.3 9.7 26.8*

59.9

52.8

M3x4 (8x)

40.1 47.2

Ø59.7 Adjustable Nikon F-Mount

6.3

66 28

Ø6 (2x) 2 sides 27.9

*Nominal, precise dimension is sensor dependent

Applications

Prosilica GT4905 is ideal for a wide range of applications including:

Allied Vision

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