

## Manta

### G-917



- Versatile 9.2 Megapixel camera
- 10.1 fps @ full resolution
- PoE option
- Video-iris lens control

## Description

**GigE camera with Sony ICX814 sensor, 10.1 frames per second**

Manta G-917B/G-917C includes an 1" Sony ICX814 CCD sensor with EXview HAD II technology and 9.2 Megapixel resolution. This sensor is distinguished by excellent image quality and a high resolution.

### Options

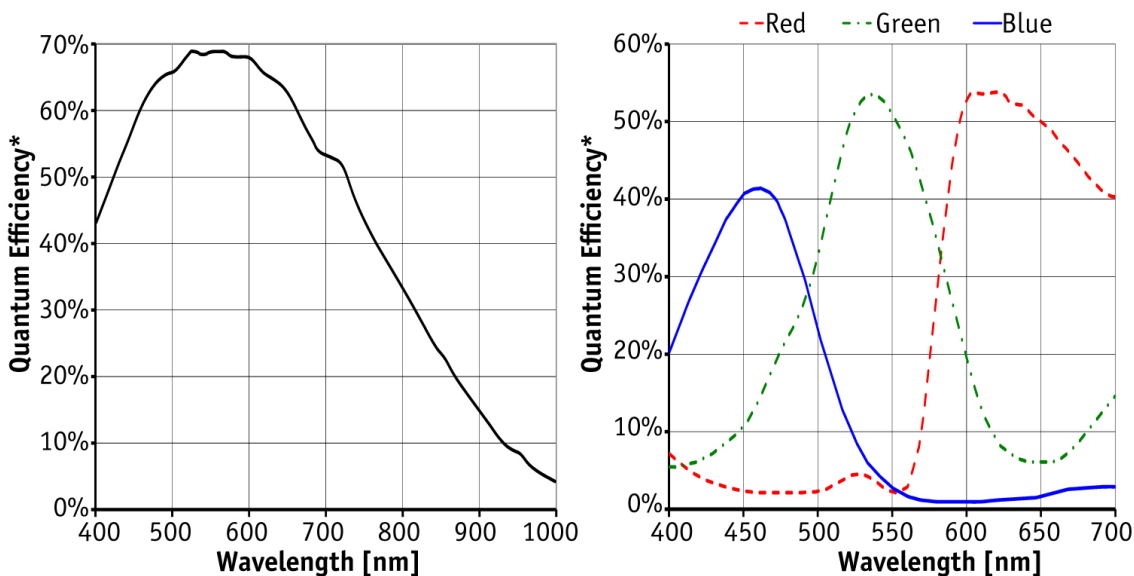
- Power over Ethernet (PoE)
- Various IR cut/pass filters and lens mounts
- White medical housing

See the [#Modular Concept#](#) for lens mount, optical filters, case design, and other modular options.

## Specifications

Manta	G-917
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
Resolution	3384 (H) × 2710 (V)
Sensor	Sony ICX814
Sensor type	CCD Progressive
Cell size	3.69 μm x 3.69 μm
Lens mount	C-Mount
Max frame rate at full resolution	10.1 fps
ADC	14 bit
Image buffer (RAM)	128 Mbyte
Output	
Bit depth	8/14 (monochrome); 8/12 (color) bit
Mono modes	Mono8, Mono12Packed, Mono12

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Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed
Color modes RGB	RGB8Packed, BGR8Packed
Raw modes	BayerRG8, BayerRG12, BayerRG12Packed
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 2 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	+5 °C to +45 °C ambient (without condensation)
Power requirements (DC)	8 to 30 VDC; PoE
Power consumption (@12 V)	4.0 W @ 12 VDC; 4.7 W PoE
Mass	190 g; 200 g (PoE)
Body dimensions (L × W × H in mm)	86.4 × 44 × 29 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



\*QE measured without protection glass or filters. With glass or filters, quantum efficiency decreases by approximately 10%.

## Features

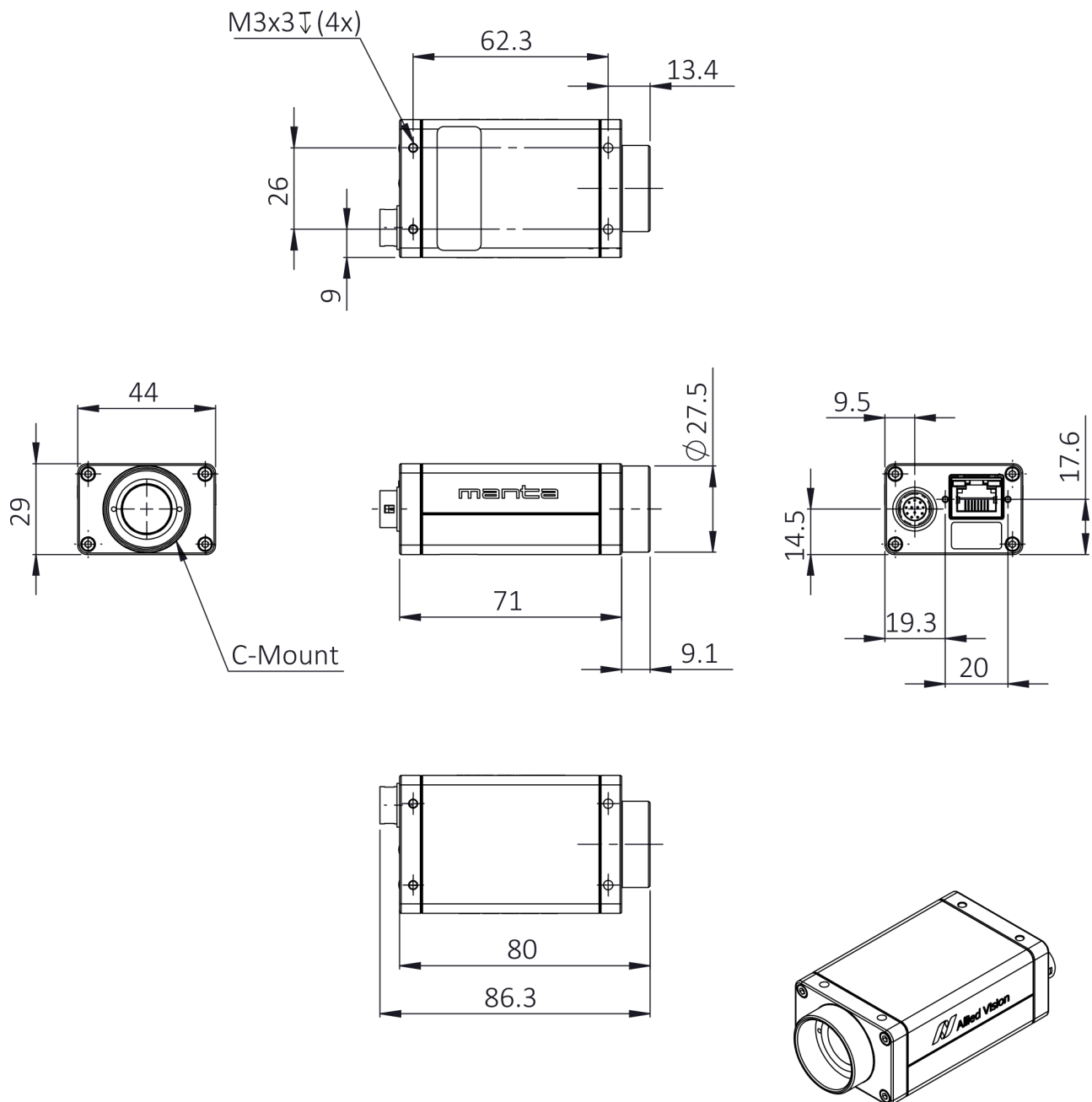
Manta G-917B/G-917C features include:

- Video-type auto iris
- Region of interest (ROI), separate ROI for auto features
- Binning
- Decimation
- Auto gain (manual gain control: 0 to 32 dB)



- Auto exposure (42 #s to 38 s)
- Auto white balance
- Look-up tables (LUTs)
- 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

Manta G-917B/G-917C is ideal for a wide range of applications including:



- Machine vision
- High-resolution surveillance
- High-resolution quality control
- Large area scan
- Aerial imaging
- Intelligent traffic solutions (ITS)