Allied Vision

Manta
G-201

- 14.7 fps @ full resolution
- PoE option
- Angled head and board level variants
- Video-iris lens control

Description

GigE Vision camera, 2 Megapixel, Sony ICX274 sensor, PoE option

Manta G-201B/G-201C is a low cost GigE Vision camera with a Sony ICX274 CCD sensor. At full resolution, this camera runs at 14.7 frames per second. With a smaller region of interest, higher frame rates are possible. This camera incorporates three look-up tables, sophisticated color correction algorithms, a robust metal housing, and many modular options.
Options

- Power over Ethernet (PoE)
- Various IR cut/pass filters and lens mounts
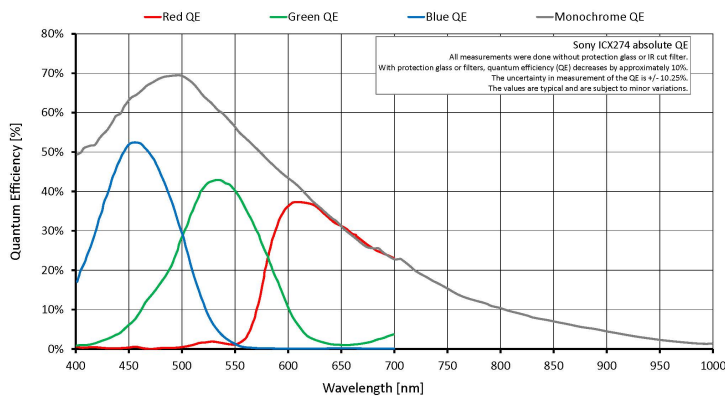- Angled head, board level variants, white medical housing

See the#Modular Concept#for lens mount, housing variants, optical filters, case design, and other modular options.
Optical filter note: By default monochrome models ship with protection glass B 270 (ASG) and color models ship with an IRC Hoya C-5000 IR cut filter.

Specifications

Manta	G-201
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
Resolution	1624 (H) × 1234 (V)
Sensor	Sony ICX274
Sensor type	CCD Progressive
Cell size	4.4 µm x 4.4 µm
Lens mount	C-Mount
Max frame rate at full resolution	14.7 fps

Manta	G-201
ADC	12 bit
Image buffer (RAM)	32 MByte
Output	
Bit depth	8-12 bit
Mono modes	Mono8, Mono12, Mono12Packed
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
Raw modes	BayerRG8, BayerRG12Packed, BayerRG12
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)	3.6 W @ 12 VDC; 4.2 W PoE
Mass	200 g; 210 g (PoE)
Body dimensions (L × W × H in mm)	86.4 × 44 × 29 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES

Features

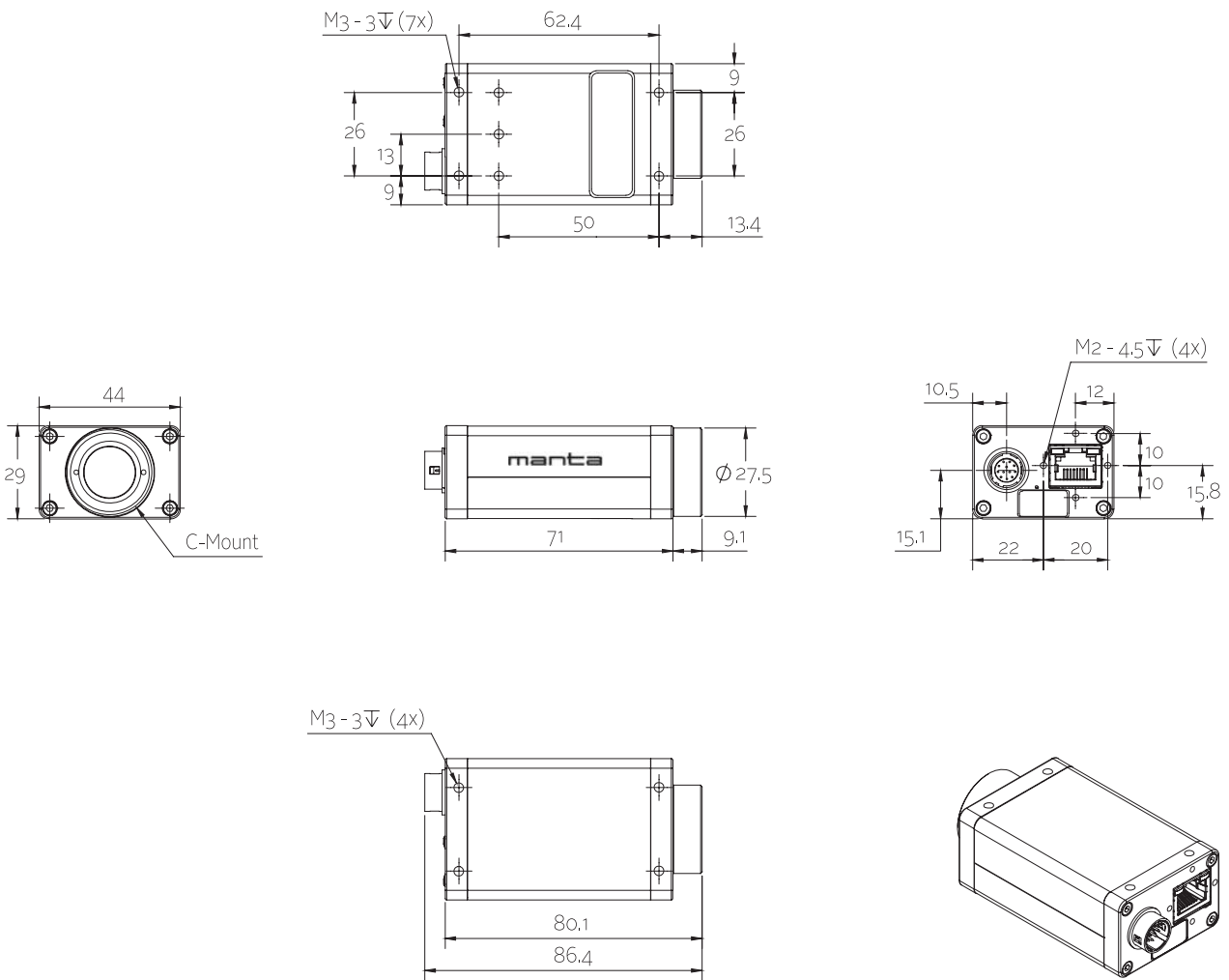**Image optimization features:**

- Auto gain (manual gain control: 0 to 31 dB)
- Auto exposure (51 #s to 60 s)
- Auto white balance
- Binning
- Black level (offset)
- Color correction, hue, saturation (color models only)
- Decimation
- Gamma correction
- Look-up tables (LUTs)
- Region of interest (ROI), separate ROI for auto features

Camera control features:

- Auto-iris (video type)
- Event channel
- Image chunk data
- Storable user sets
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO

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Technical drawing

Applications

Manta G-201B/G-201C is ideal for a wide range of applications including:

- Machine vision
- Entertainment and multimedia applications
- 3D applications
- Intelligent traffic solutions (ITS)