

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

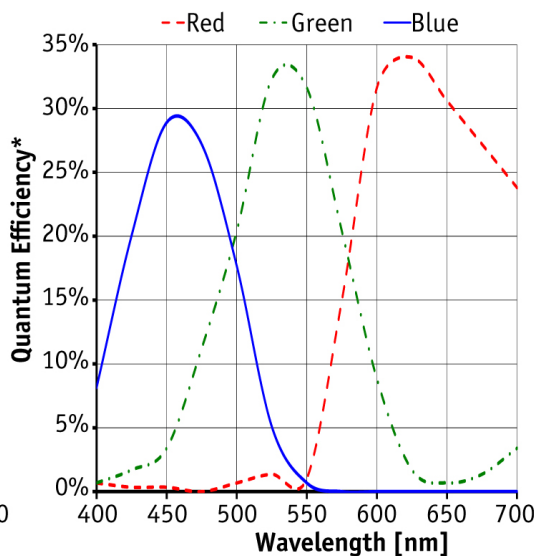
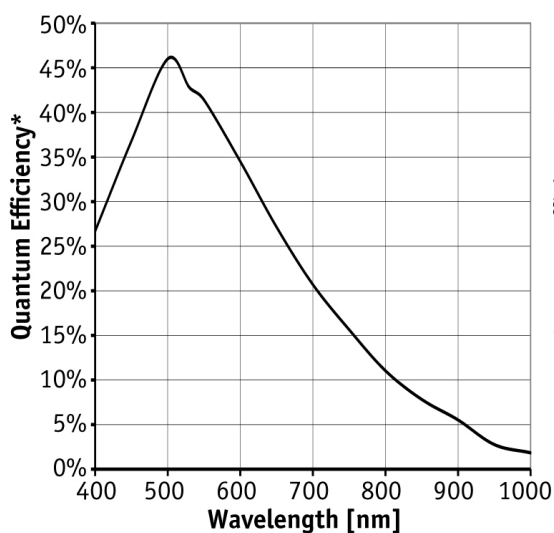
- Power over Ethernet (PoE)
- Various IR cut/pass filters and lens mounts
- Angled head, board level variants, white medical housing

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

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 |
| ADC | 12 bit |
| Image buffer (RAM) | 32 Mbyte |

| Manta | G-201 |
|---|--|
| | 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 |



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

Features

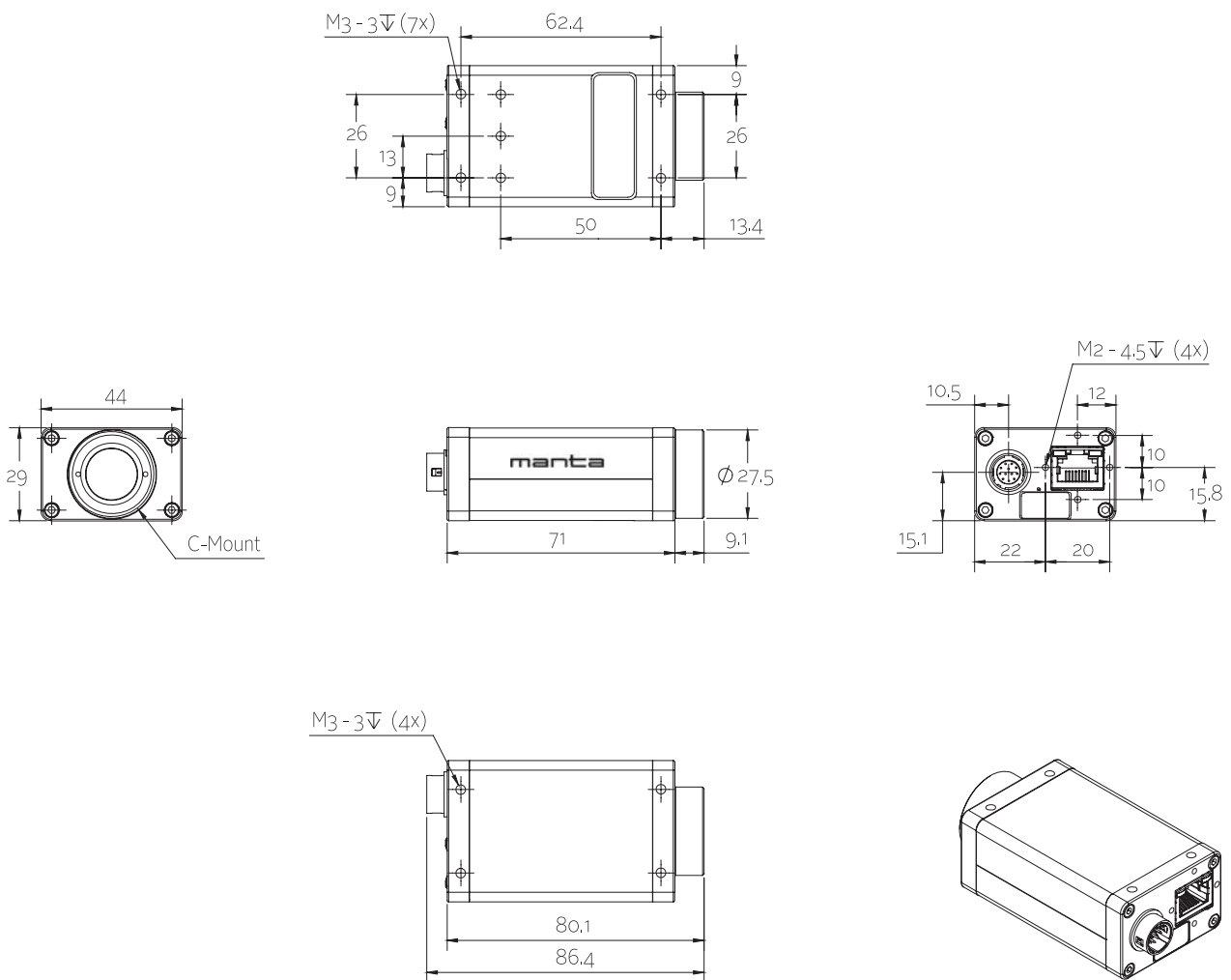
Manta G-201B/G-201C features include:

- Video-type auto iris



- Region of interest (ROI), separate ROI for auto features
- Binning
- Decimation
- Auto gain (manual gain control: 0 to 31 dB)
- Auto exposure (51 μ s to 60 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-201B/G-201C is ideal for a wide range of applications including:



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