

Manta G-201-30fps



- 30.0 fps full resolution
- Power over Ethernet option
- Angled head and board level variants
- Video-iris lens control

Description

GigE Vision camera, 2 Megapixel, 30 fps, Sony ICX274 sensor, PoE option

Manta G-201B-30fps/G-201C-30fps is a machine vision camera that incorporates the high quality Type 1/1.8 (8.923 mm diagonal) Sony ICX274 CCD sensor. At full resolution, this camera runs 30.0 frames per second. With a smaller region of interest, higher frame rates are possible. The Manta is one of Allied Vision's versatile GigE Vision cameras with a wide range of features. Particular highlights are the three look-up tables, sophisticated color correction capabilities, a robust metal housing, and many modular options. By default monochrome models ship with protection glass B 270 (ASG) and color models ship with an IRC Hoya C-5000 IR cut filter.

Options:

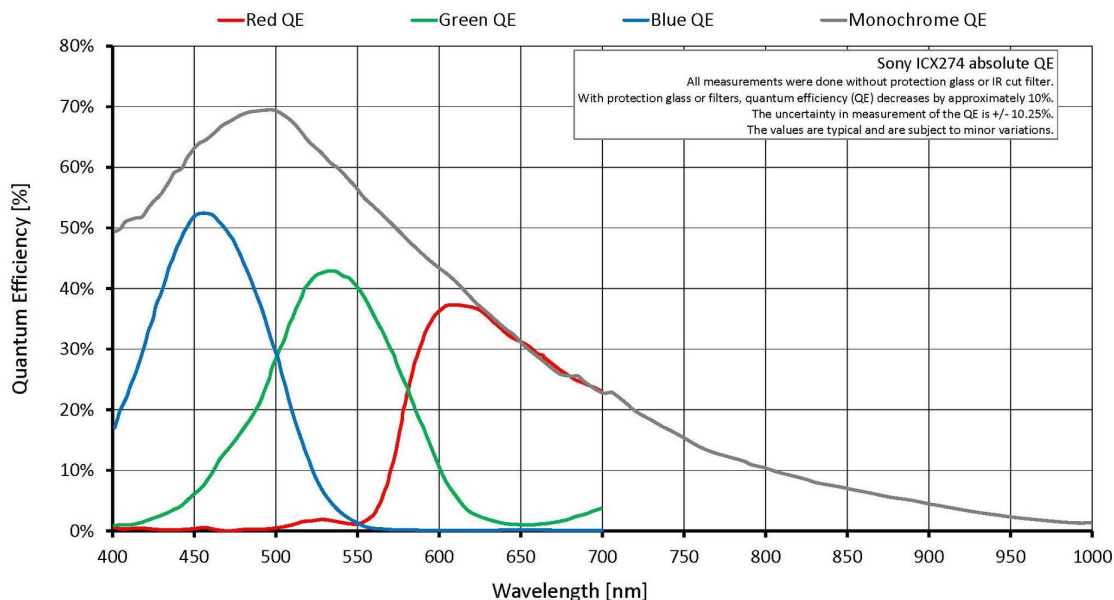
- Power over Ethernet (PoE)
- Various optical filter and lens mount options
- Angled head, board level variants, white medical housing

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

Specifications

| Manta | G-201-30fps |
|-------------|--|
| 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 |

| Manta | | G-201-30fps | |
|---|--|--|--|
| Lens mount | | C-Mount | |
| Max frame rate at full resolution | | 30.0 fps | |
| 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 | |
| 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) | | 4.6 W @ 12 VDC; 5.4 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

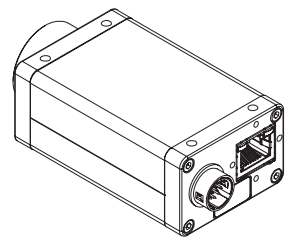
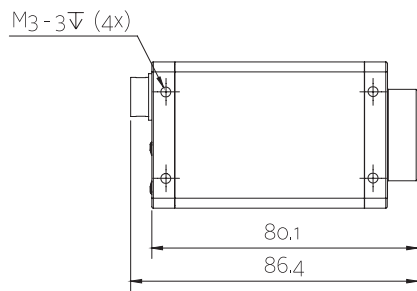
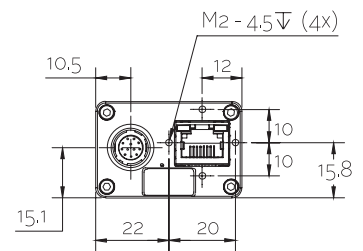
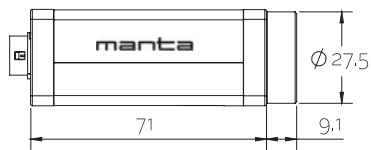
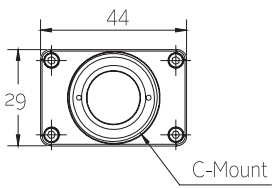
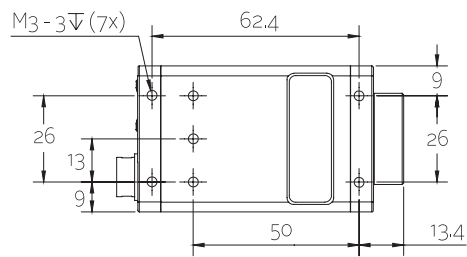
Image optimization features:

- Auto gain (manual gain control: 0 to 31 dB; 1 dB increments)
- Auto exposure (10 μ s to 60 s; 1 μ s increments)
- Auto white balance (color models only)
- Binning
- Black level (offset)
- Color correction, hue, saturation (color models only)
- Decimation
- Gamma correction
- Look-up tables (LUTs) (3)
- Region of interest (ROI), separate ROI for auto features
- ReverseX (monochrome models only)

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

Technical drawing





Applications

Manta G-201B-30fps/G-201C-30fps is ideal for a wide range of applications including:

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