

Manta G-223



Description

GigE camera with CMOSIS CMV2000 sensor

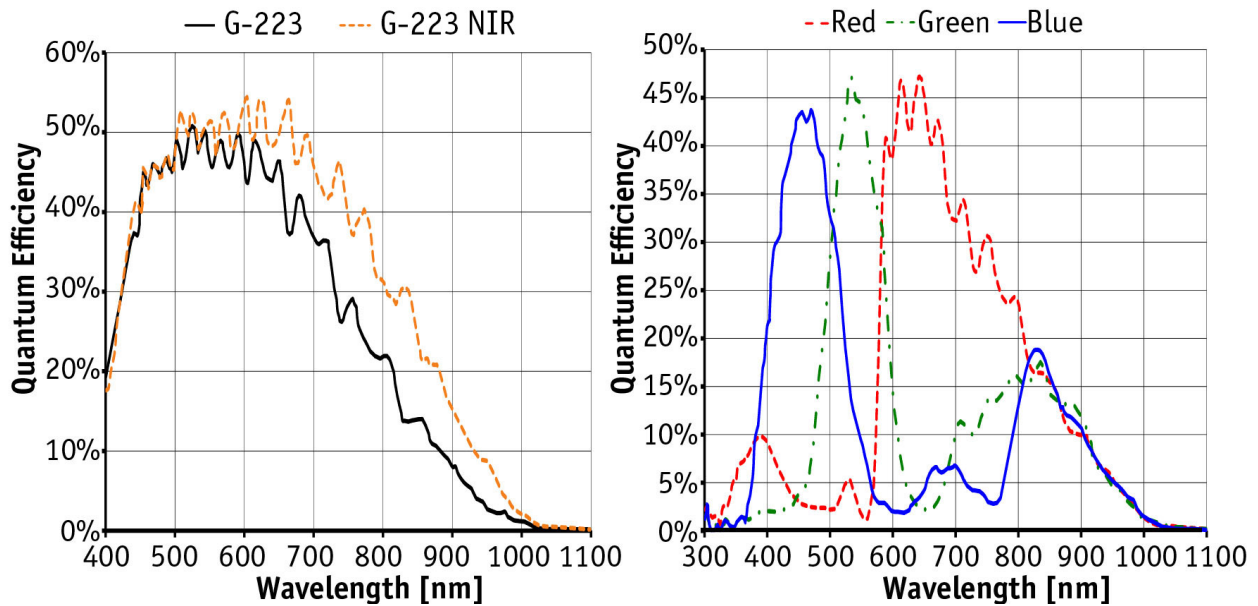
The Manta G-223B/C is an industrial GigE camera with a 2/3" CMOSIS CMV2000 sensor. At full resolution, it runs 50 fps. The Manta G-223B/C offers several modular options (for example, PoE).

- CMOSIS CMV2000 (type 2/3), 2.2 Megapixels, global shutter
- Sync modes
 - Trigger ready, trigger input, exposing, readout, imaging, strobe, GPO
- Trigger
 - External trigger event: rising/falling/any edge, level high/low
 - External trigger delay: 0 to 60 s in 1 μ s increments
- Modular options
 - Various IR cut/pass filters
 - White medical housing
 - PoE (Power over Ethernet)

Specifications

| Manta | G-223 |
|--|---|
| Interface | IEEE 802.3 1000baseT |
| Resolution | 2048 x 1088 |
| Sensor | CMOSIS CMV2000 |
| Sensor type | CMOS Progressive |
| Sensor size | Type 2/3 |
| Cell size | 5.5 μ m |
| Lens mount | C-Mount |
| Max frame rate at full resolution | 50 fps |
| A/D | 12 bit |
| On-board FIFO | 128 MB |
| | Output |
| Bit depth | 8-12 bit |
| Mono modes | Mono8, Mono12Packed, Mono12 |
| Color modes YUV | YUV411Packed, YUV422Packed, YUV444Packed |
| Color modes RGB | RGB8Packed, BGR8Packed |
| Raw modes | BayerRG8, BayerRG12, BayerRG12Packed |
| | General purpose inputs/outputs (GPIOs) |
| Opto-coupled I/Os | 2 inputs, 2 outputs |
| RS-232 | 1 |
| | Operating conditions/Dimensions |
| Operating temperature | +5 °C ... +45 °C |
| Power requirements (DC) | 8 V - 30 V |
| Power consumption (12 V) | 2.2 W |
| Mass | 150 g |
| Body Dimensions (L x W x H in mm) | 86.4 x 44 x 29 mm incl. connectors |
| Regulations | CE, FCC Class B, RoHS |

[Download Manta technical drawing \(click here\)](#)



Smart features

- ROI (Region of Interest Readout)
- Gain (manual gain 0 to 22 dB)
- Exposure (exposure time 1 μ s to 60 s)
- Decimation (sub-sampling)
- 3 Look-up tables (LUTs)
- Gamma (0.25 - 4.0)
- DSP subregion (selectable ROI for auto features)
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- IEEE 1588 (PTP, Precision Time Protocol)
- Event channel
- Chunk data
- Storable user sets

Applications

The Manta G-223B/C is a robust, flexible industrial camera with a sensitive CMOSIS CMV2000 sensor.

Typical applications:

- Full HD solutions (1920 x 1080 @ 55 fps)
- Machine vision
- Industrial inspection
- Security and surveillance
- Industrial image processing