



Manta G-223 NIR



Description

GigE camera with CMOSIS CMV2000, NIR optimized, global shutter

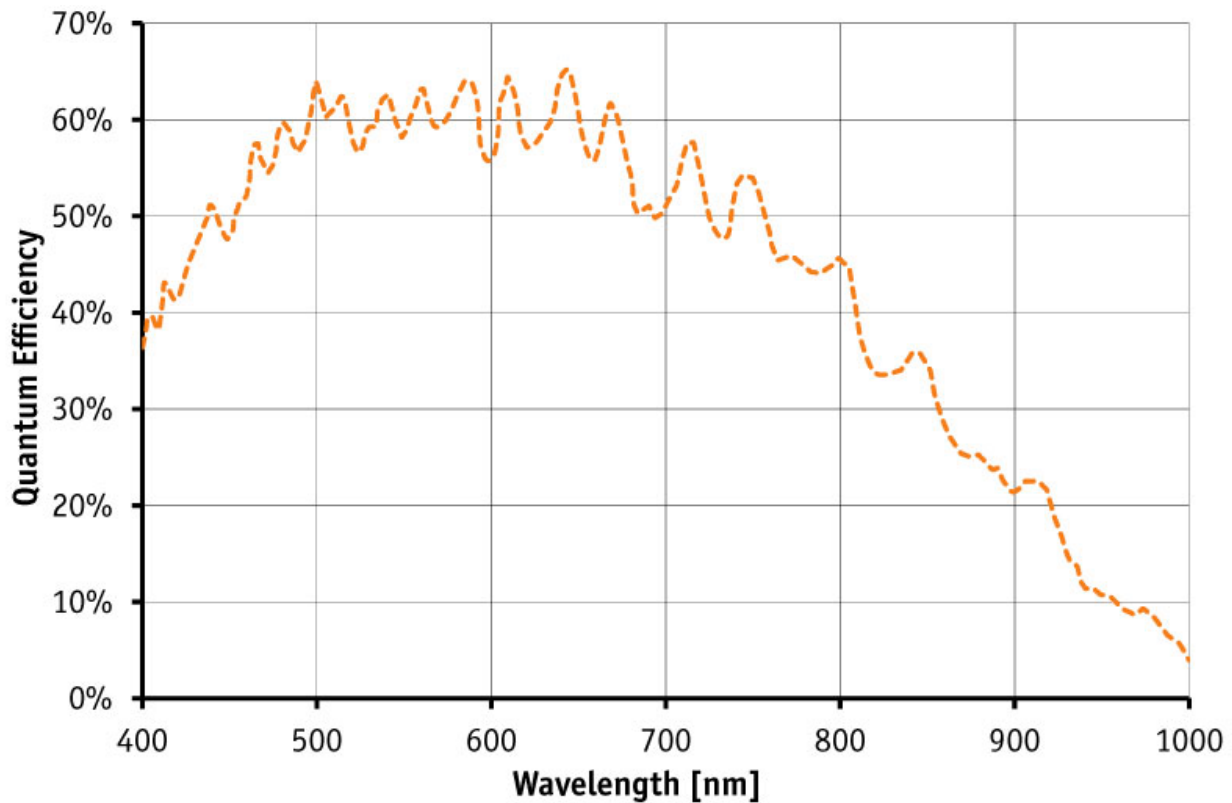
The Manta G-223B NIR is an NIR optimized GigE camera with a 2/3" CMOSIS CMV2000 sensor. The Manta G-223B NIR offers several modular options (for example, PoE).

- CMOSIS CMV2000 (type 2/3, 1 inch lens recommended), 2.2 Megapixels (monochrome)
- 53.7 fps @ 124 MB/s; 60.1 burst mode
- 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)
- Camera temperature monitoring

Specifications

Manta		G-223 NIR	
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 µm	
Lens mount		C-Mount	
Max frame rate at full resolution		53.7 fps	
A/D		12 bit	
On-board FIFO		128 MB	
		Output	
Bit depth		8-12 bit	
Mono modes		Mono8, Mono12Packed, Mono12	
		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)		3.2 W (PoE) / 2.7 W (non-PoE)	
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 26 dB)
- Exposure (exposure time 18 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
- Camera temperature monitoring

Applications

The Manta G-223B NIR is a robust, flexible NIR optimized camera with a sensitive CMOSIS CMV2000 sensor.

Typical applications:

- Multimedia and entertainment
- Machine vision
- Security and surveillance
- Metrology and inspection systems
- Industrial image processing