



SMARTER IMAGING FOR BETTER LIVES

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Manta G-419



Description

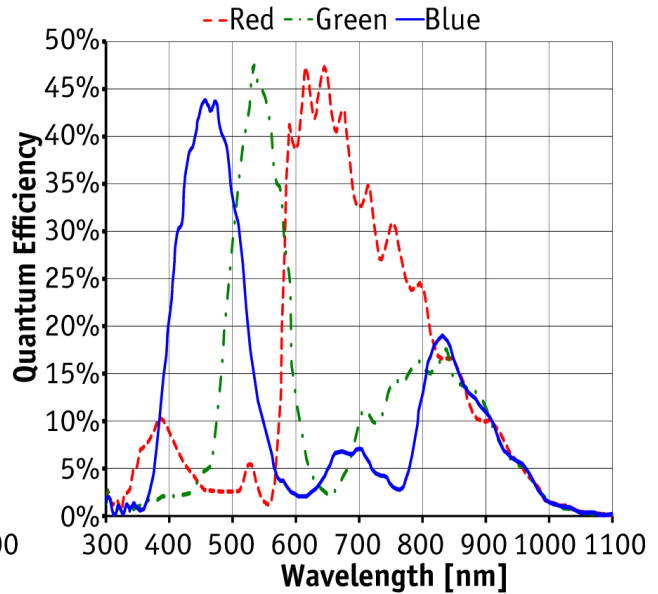
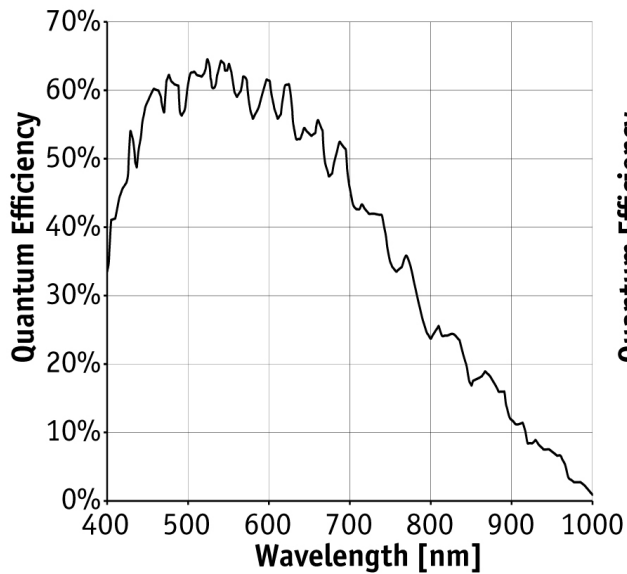
GigE camera with CMOSIS CMV4000 sensor, global shutter

The Manta G-419B/C is an industrial GigE camera with a 1" CMOSIS CMV4000 sensor. The Manta G-419B/C offers several modular options (for example, PoE).

- CMOSIS CMV4000 (type 1)
- 4.2 Megapixels, global shutter
- 28.6 fps @ 124 MB/s; 32 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-419
Interface	IEEE 802.3 1000baseT
Resolution	2048 x 2048
Sensor	CMOSIS CMV4000
Sensor type	CMOS Progressive
Sensor size	Type 1
Cell size	5.5 μm
Lens mount	C-Mount
Max frame rate at full resolution	28.6 fps
A/D	12 bit
On-board FIFO	128 MB
	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	BayerGB8, BayerGB12, BayerGB12Packed
	General purpose inputs/outputs (GPIOs)
Opto-coupled I/Os	2 inputs, 2 outputs
RS-232	1
	Operating conditions/Dimensions
Operating temperature	+5 $^{\circ}\text{C}$... +45 $^{\circ}\text{C}$
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



Smart features

- ROI (Region of Interest Readout)
- Gain (manual gain 0 to 26 dB)
- Exposure (exposure time 34 μ s to 126 s)
- 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-419B/C is an industrial GigE camera with a 1" CMOSIS CMV4000 sensor. At full resolution, it runs 28 fps.

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