

Manta G-505



Description

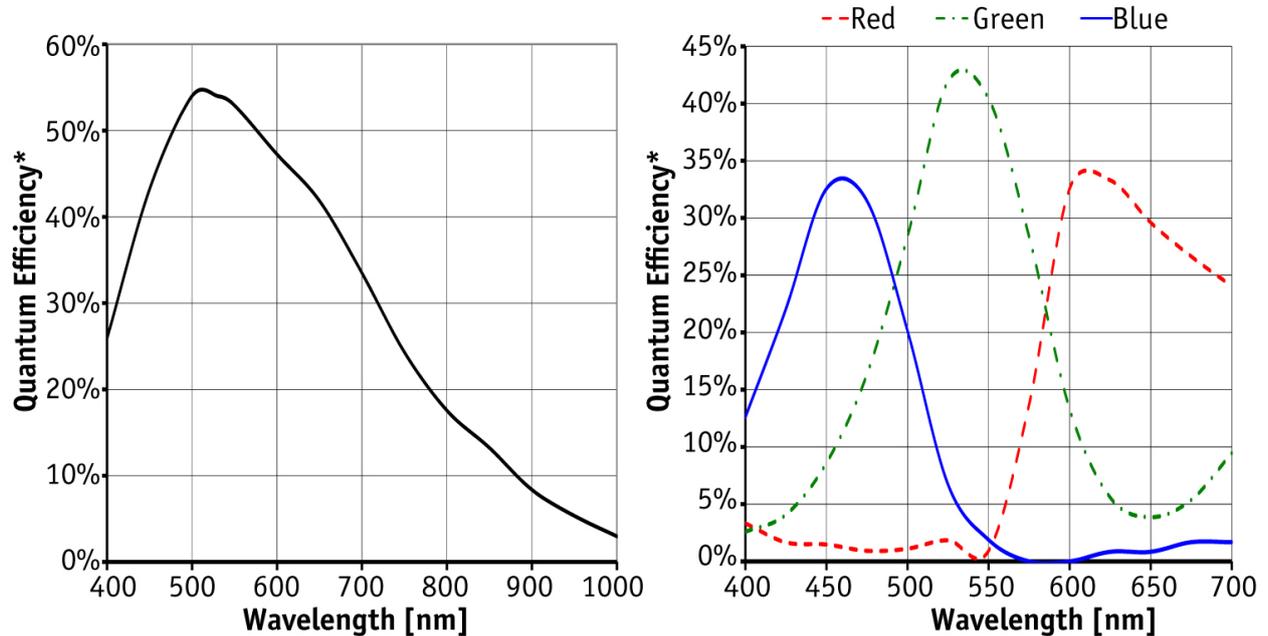
The Manta G-505B/C includes the Super HAD 2/3" Sony ICX625 sensor. This sensor is suitable for a wide variety of high-resolution applications such as inspection and microscopy solutions.

- Sony ICX625 (Super HAD type 2/3), 5 Megapixels
- Sync modes
 - Trigger ready, trigger input, exposing, readout, imaging, strobe, GPO
- Trigger
 - External trigger event: rising/falling/any edge, level high/low
- Modular options
 - Various IR cut/pass filters
 - White medical housing
 - PoE (Power over Ethernet)

Specifications

Manta	G-505
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
Resolution	2452 x 2056
Sensor	Sony ICX625
Sensor type	CCD Progressive
Sensor size	Type 2/3
Cell size	3.45 µm
Lens mount	C-Mount
Max frame rate at full resolution	15 fps
A/D	14 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)	4.5 W (PoE) / 3.9 W (non-PoE)
Mass	150
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 \(click here\)](#)



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

Smart features

- ROI (Region of Interest Readout)
- Gain control (0 to 31 dB)
- Exposure control (49 μ s to 38 s)
- 3 Look-up tables (LUTs)
- DSP subregion (selectable ROI for auto features)
- Binning
- Decimation (sub-sampling)
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- Event channel
- Chunk data
- Storable user sets
- Camera temperature monitoring
- Precision Time Protocol (PTP)
- Video auto iris

Applications

The Manta G-505B/C with the ICX625 sensor is a 5 Megapixel camera for a wide range of industrial applications:

- Machine vision
- Inspection and quality control
- Microscopy
- ITS solutions
- Automation
- Logistics