

Manta G-283



Description

GigE camera with Sony ICX674

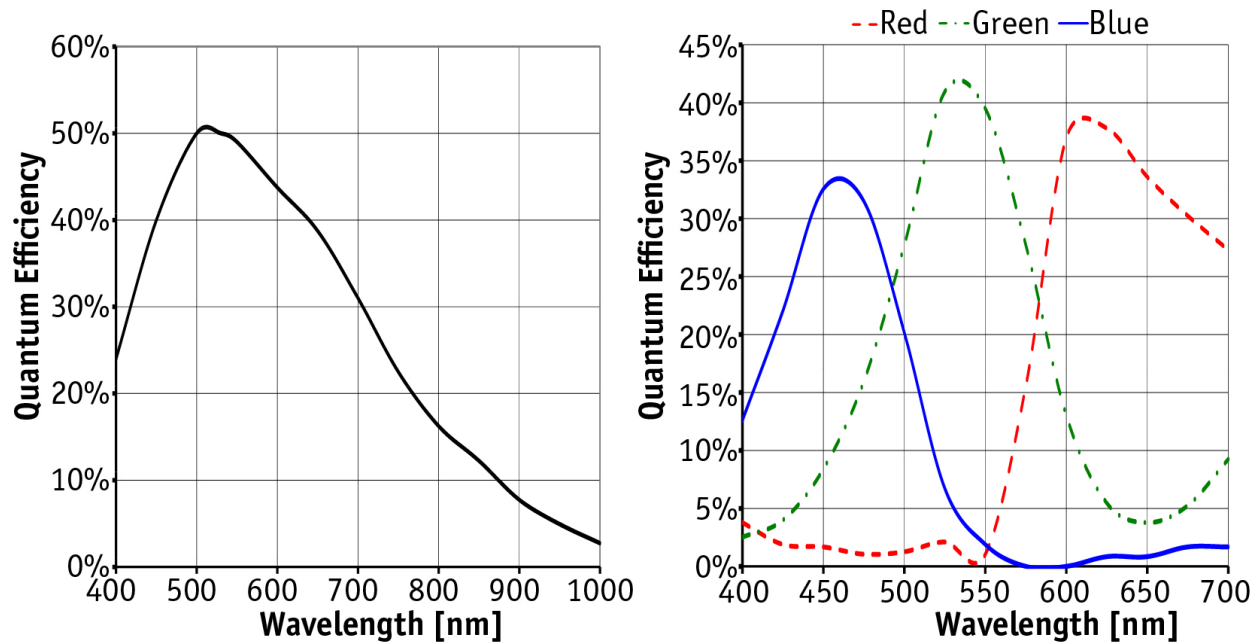
The Manta G-283B/C includes an 2/3" Sony ICX674 sensor with EXview HAD II technology. The ICX674 is distinguished by reduced smear, a higher quantum efficiency, and an increased NIR sensitivity. At HD resolution (1920 x 1080), it runs 35 fps.

- Sony ICX674 EXview HAD II, 2.8 Megapixels
- 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
 - CS-Mount
 - White medical housing
 - PoE (Power over Ethernet)

Specifications

Manta		G-283	
Interface		IEEE 802.3 1000baseT	
Resolution		1936 x 1458	
Sensor		Sony ICX674	
Sensor type		CCD Progressive	
Sensor size		Type 2/3	
Cell size		4.54 µm	
Lens mount		C/CS-Mount	
Max frame rate at full resolution		30 fps	
A/D		14 bit	
On-board FIFO		128 MB	
		Output	
Bit depth		8/14 (mono) - 8/12 (color) bit	
Mono modes		Mono8, 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)		3.7 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 31 dB)
- Exposure time (41 μ s to 60 s)
- 3 Look-up tables (LUTs)
- Gamma (0.25 - 4.0)
- DSP subregion (selectable ROI for auto features)
- Binning
- Decimation (sub-sampling)
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- IEEE 1588 (PTP, Precision Time Protocol)
- Event channel
- Chunk data
- Storable user sets

Applications

The Manta G-283 with its ICX674 sensor has an excellent image quality even under challenging light conditions.

Typical applications:

- Metrology and inspection systems
- Scientific measurement
- Microscopy
- Forensic solutions
- ITS traffic solutions
- Applications requiring a highly sensitive camera (low light conditions)
- Applications requiring good sensitivity in the NIR spectrum