

# Manta G-282



## Description

### GigE camera with Sony ICX687

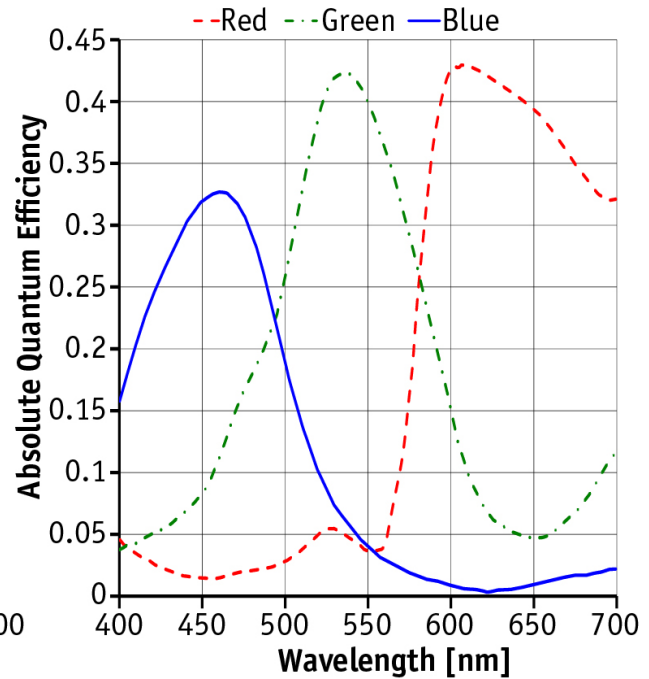
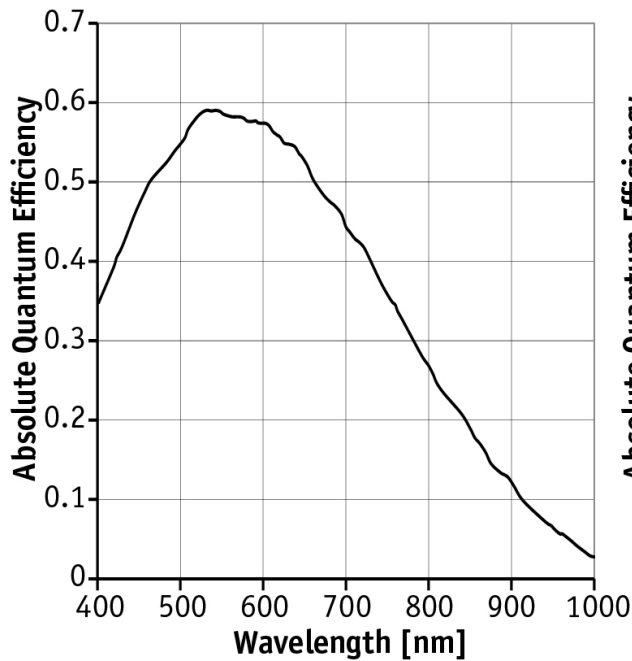
The Manta G-282B/C includes an 1/1.8" Sony ICX687 sensor with EXview HAD II technology. This sensor has the same resolution as the ICX674 at a more cost-effective price level. At HD resolution (1920 x 1080), it runs 35 fps.

- Sony ICX687 (type 1/1.8), 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  $\mu$ s increments
- Modular options
  - Various IR cut/pass filters
  - CS-Mount
  - White medical housing
  - PoE (Power over Ethernet)
- Camera temperature monitoring

## Specifications

Manta	G-282
<b>Interface</b>	IEEE 802.3 1000baseT
<b>Resolution</b>	1936 x 1458
<b>Sensor</b>	Sony ICX687
<b>Sensor type</b>	CCD Progressive
<b>Sensor size</b>	Type 1/1.8
<b>Cell size</b>	3.69 $\mu\text{m}$
<b>Lens mount</b>	C-Mount
<b>Max frame rate at full resolution</b>	30 fps
<b>A/D</b>	14 bit
<b>On-board FIFO</b>	128 MB
	<b>Output</b>
<b>Bit depth</b>	8-12 bit
<b>Mono modes</b>	Mono8, Mono12Packed, Mono12
<b>Color modes YUV</b>	YUV411Packed, YUV422Packed, YUV444Packed
<b>Color modes RGB</b>	RGB8Packed, BGR8Packed
<b>Raw modes</b>	BayerRG8, BayerRG12, BayerRG12Packed
	<b>General purpose inputs/outputs (GPIOs)</b>
<b>Opto-coupled I/Os</b>	2 inputs, 2 outputs
<b>RS-232</b>	1
	<b>Operating conditions/Dimensions</b>
<b>Operating temperature</b>	+5 °C ... +45 °C
<b>Power requirements (DC)</b>	8 V - 30 V
<b>Power consumption (12 V)</b>	<4.1 W (PoE) / <3.5 W (non-PoE)
<b>Mass</b>	150 g
<b>Body Dimensions (L x W x H in mm)</b>	86.4 x 44 x 29 mm incl. connectors
<b>Regulations</b>	CE, FCC Class B, RoHS

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



## Smart features

- ROI (Region of Interest Readout)
- Gain (manual gain 0 to 32 dB)
- Exposure (41  $\mu$ 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
- Camera temperature monitoring

## Applications

The Manta G-282 is a robust industrial camera with 35 fps at HD resolution (1920 x 1080). It offers several modular options (for example, PoE).

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