Manta G-282

GiGE VISION

Description

GigE camera with Sony ICX687

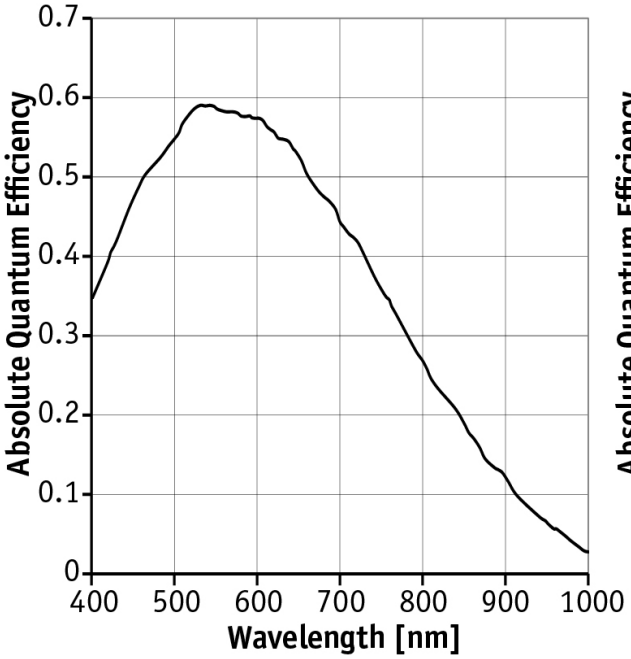
The Manta G-282B/C includes an 1/1.8'' Sony ICX687 sensor with EXview HAD II technology. This sensor has the same resolution as the ICX674 at a more cost-effective price level. At HD resolution (1920 x 1080), it runs 35 fps.

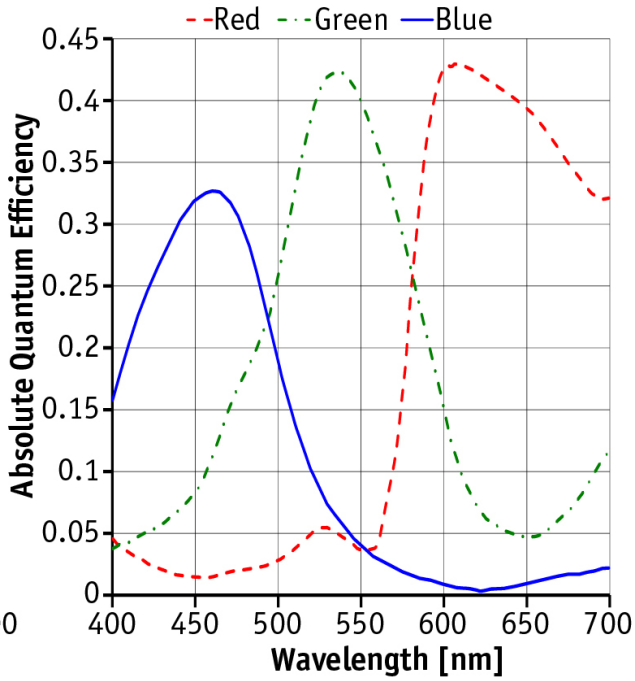
- Sony ICX687 (type 1/1.8), 2.8 Megapixels
- Sync modes
  - Trigger ready, trigger input, exposing, readout, imaging, strobe, GPO
- Trigger
  - External trigger event: rising/falling/any edge, level high/low
  - External trigger delay: 0 to 60 s in 1 µs increments
- Modular options
  - Various IR cut/pass filters
  - CS-Mount
  - White medical housing
  - PoE (Power over Ethernet)

Specifications

Manta	G-282
Interface	IEEE 802.3 1000baseT
Resolution	1936 x 1458
Sensor	Sony ICX687
Sensor type	CCD Progressive
Sensor size	Type 1/1.8
Cell size	3.69 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	8-12 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)	3.5 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 32 dB)
- Exposure (41 µs 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-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