Manta
G-609

GiGE
VISION

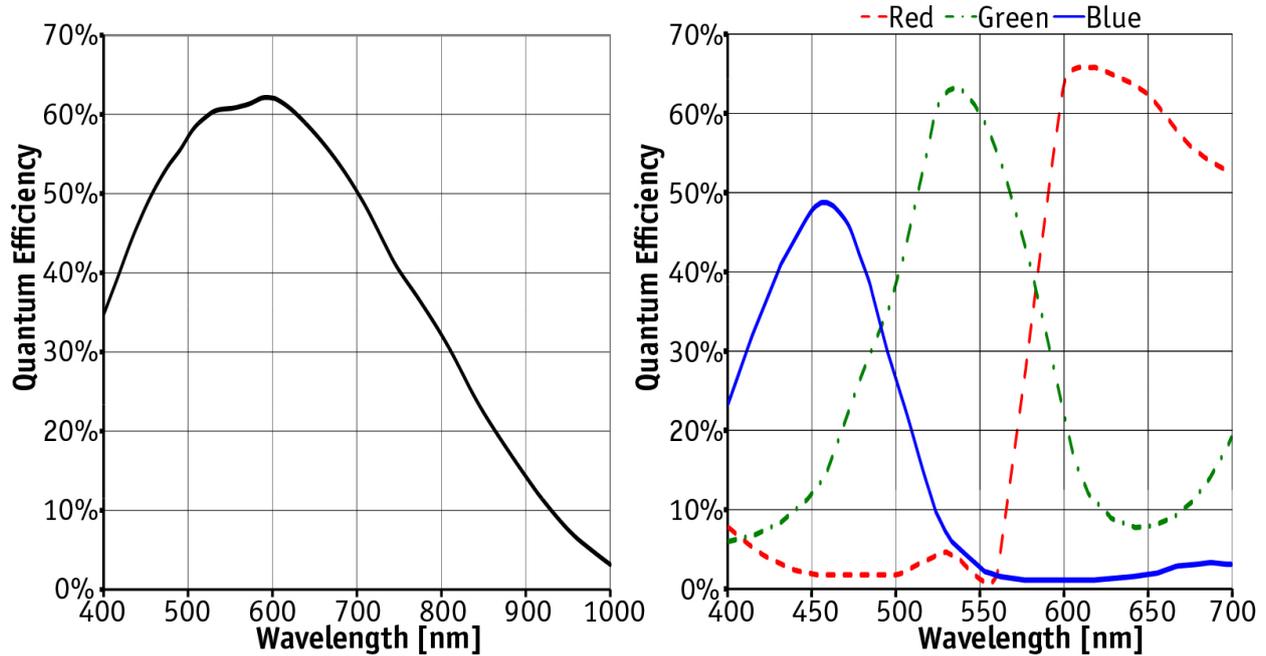## Description

GigE camera with Sony ICX694

The Manta G-609B/C includes an 1'' Sony ICX694 sensor with EXview HAD II technology. This sensor has an excellent sensitivity and NIR response. At full resolution, it runs 15 fps.

- Sony ICX694 EXview HAD II (type 1''), 6 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 19 s in 1 μs increments
- Modular options
  - Various IR cut/pass filters
  - White medical housing
  - PoE (Power over Ethernet)
- Camera temperature monitoring

Specifications

Manta	G-609
Interface	IEEE 802.3 1000baseT
Resolution	2752 x 2206
Sensor	Sony ICX694
Sensor type	CCD Progressive
Sensor size	Type 1
Cell size	4.54 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	8/14-8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed
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)	4.6 W (PoE) / 3.9 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

Download Manta technical drawing (click here)

Smart features

- ROI (Region of Interest Readout)
- Gain (manual gain 0 to 33 dB)
- Exposure time (41 μs to 38 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

Thanks to the ICX694 sensor with its excellent response, this 6 Megapixel camera is suitable for various demanding applications:

- High-resolution surveillance
- 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