

Manta G-609



Description

Preliminary

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 60 s in 1 μ s increments
- Modular options
 - Various IR cut/pass filters
 - Board level version
 - Angled head
 - White medical housing
 - PoE (Power over Ethernet)

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 (mono) - 8/12 (color) bit
Mono modes	Mono8, Mono16, Mono12 packed
Color modes YUV	YUV411, YUV422, YUV444
Color modes RGB	RGB24, BGR24
Raw modes	Bayer8, Bayer16, Bayer12 packed
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)	tbd
Mass	tbd
Body Dimensions (L x W x H in mm)	86.4 x 44 x 29 mm incl. connectors
Regulations	CE, FCC Class B, RoHS



Smart features

- Switchable single tap/dual tap mode
- ROI (Region of Interest Readout)
- Gain, exposure
- 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

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