



Description

Value packed GigE Vision camera, VGA, Sony ICX424, PoE option

The Manta G-032B/C is a value packed GigE Vision camera with VGA resolution and a Sony ICX424 sensor. It runs at 80 fps (full resolution). With a smaller ROI, higher frame rates are possible.

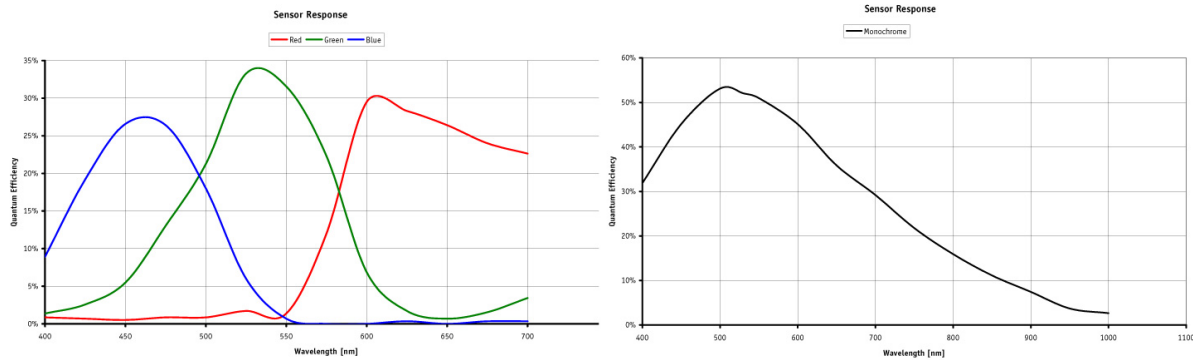
It incorporates three LUTs, sophisticated color correction algorithms, a robust metal housing, and many modular options like angled heads or board level versions. Manta cameras cover a wide range of imaging applications. The Manta is **now optionally available with PoE (Power over Ethernet)**.

- Sony ICX424 (type 1/3), 0.3 Megapixels
- Trigger
 - External trigger event: rising/falling/any edge, level high/low
 - External trigger delay: 0 to 60 seconds in 1 μ s increments
- Sync modes
 - Trigger ready, trigger input, exposing, readout, imaging, strobe, GPO
- Modular options
 - Various IR cut/pass filters
 - CS-Mount
 - Board level version
 - Angled head
 - White medical housing
 - **NEW: PoE (Power over Ethernet)**

Specifications

Manta		G-032	
Interface	IEEE 802.3 1000baseT		
Resolution	656 x 492		
Sensor	Sony ICX424		
Type	CCD Progressive		
Sensor Size	Type 1/3		
Cell size	7.4 µm		
Lens mount	C/CS		
Max frame rate at full resolution	80 fps		
A/D	12 bit		
On-board FIFO	32 MB		
Output			
Bit depth	8-12 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)			
TTL I/Os	0		
Opto-coupled I/Os	2 inputs, 2 outputs		
RS-232	1		
Power/Mass/Dimensions/Regulations			
Power requirements (DC)	8 V - 30 V		
Power consumption (12 V)	<3.6 W		
Mass	<200 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)
- Exposure
 - Auto/one push/programmable
 - Exposure time 26 μ s to 60 s
- White balance
 - Auto/one push/programmable
- On-board debayering
- Hue, saturation, sharpness (color versions)
- Gain
 - Auto/one push/programmable
 - Manual gain control: 0 to 36 dB (1 dB/step)
- Three look-up tables (LUTs), gamma correction
- DSP subregion (selectable ROI for auto features)
- Binning (up to 8 x 14, independent x and y binning)
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- Event channel
- Chunk data
- Video-type auto-iris
- 5 storable user sets

Applications

The Manta G-032B/C is a flexible, value packed VGA GigE Vision PoE camera for a variety of machine vision and inspection applications. On request, board level versions with separate sensor head (up to 200 mm distance to camera mainboard) are available. The Manta incorporates three LUTs (separate R, G, and B control), color correction, and many more features.

- Semiconductor inspection
- Food inspection
- Printing marks control
- Pharmaceutical inspection
- Ophthalmology
- Machine vision
- ITS/Traffic monitoring
- ... and many more