



Description

Value packed GigE Vision camera, VGA, Sony ICX424

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.

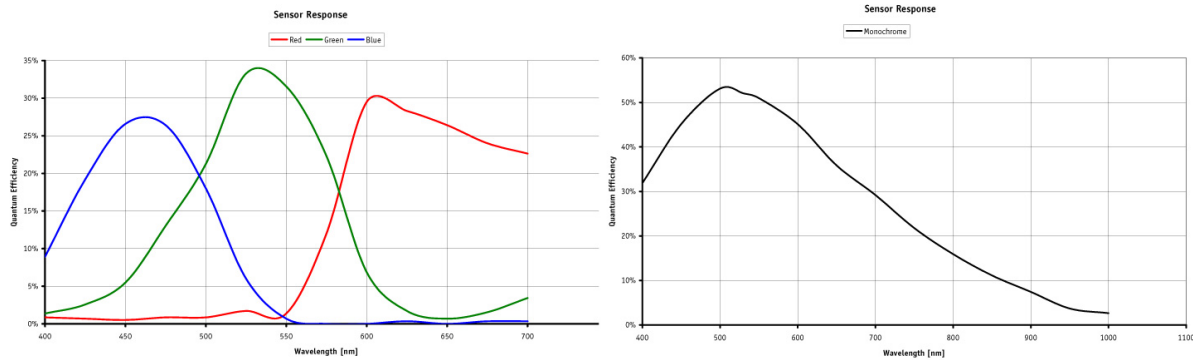
The color version includes color interpolation/color correction functions that outperform most cameras in this price class.

- 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

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		
Color modes YUV	YUV411, YUV422, YUV444		
Color modes RGB	RGB24, BGR24		
Raw modes	Bayer8, Bayer16		
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/manual
 - Exposure time 25.8 μ s to 60 s
- White balance
 - Auto/manual
- Hue, saturation, sharpness (only color versions)
- Gain
 - Auto/manual
 - Manual gain control: 0 to 24 dB (1 dB/step)
- Gamma (0.5)
- DSP subregion (selectable ROI for auto features)
- Binning (up to 8 x 8, independent x and y binning)
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- On-board debayering
- 3 storable user sets

Applications

The Manta G-032B/C is a value packed VGA GigE Vision camera for standard machine vision and inspection applications.

- Semiconductor inspection
- Food inspection
- Printing marks control
- Pharmaceutical inspection
- Ophthalmology
- Machine vision
- ... and many more