



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.

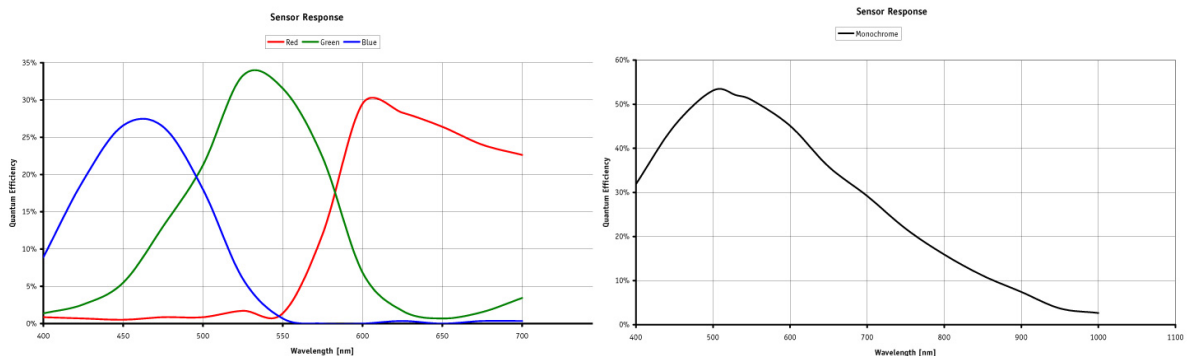
The color version includes color interpolation/color correction functions that outperform most cameras in this price class.

- Sony ICX424 (type 1/3), 0.3 Megapixels
- Two inputs, two outputs (all optocoupled and configurable), RS-232
- Pixel format
 - B/w: Mono8, Mono16
 - Color: Bayer8, Bayer16, RGB24, YUV411, YUV422, YUV444, BGR24, RGBA24, BGRA24
- Trigger
 - External trigger event: rising/falling/any edge, level high/low
 - External trigger delay: 0 to 60 seconds in 1 μ s increments
- Modular options
 - Various IR cut/pass filters
 - CS-/M12-Mount (standard: C-Mount)
 - Board level version

Specifications

Manta	G-032
Resolution	656 x 492
Max frame rate at full resolution	80 fps
Type	CCD Progressive
Interface	IEEE 802.3 1000baseT
A/D	12 bit
Output	8-12 bit
Sensor Size	Type 1/3
Sensor	Sony ICX424
Cell size	7.4 μm
On-board FIFO	32 MB
Body Dimensions (L x W x H in mm)	86.4 x 44 x 29 mm incl. connectors, w/o tripod and lens

[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