



## Description

### GigE Vision camera, XGA, Sony ICX415 - attractive price

The Manta G-046B/C is a very affordable GigE Vision camera with XGA resolution and a Sony ICX415 sensor. It runs at 67 fps (full resolution). With a smaller ROI, faster frame rates are possible.

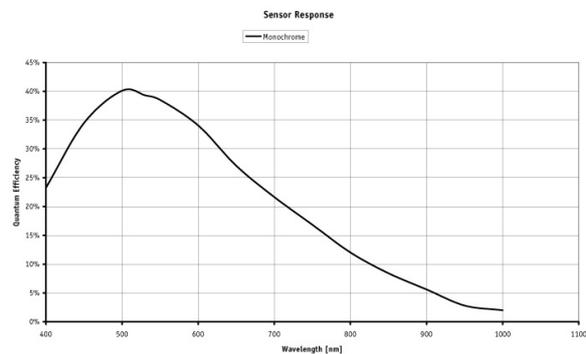
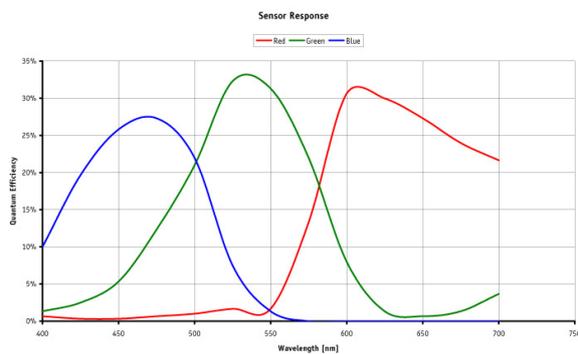
The color version includes color interpolation/color correction functions that outperform most cameras in this price class.

- Sony ICX415 (type 1/2), 0.5 Megapixels
- Two configurable inputs, two configurable outputs (all optocoupled), 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  $\mu$ s increments
- Modular options
  - Various IR cut/pass filters
  - CS-/M12-Mount (standard: C-Mount)
  - Board level version

## Specifications

<b>Manta</b>		<b>G-046</b>	
<b>Resolution</b>	780 x 580		
<b>Max frame rate at full resolution</b>	67 fps		
<b>Type</b>	CCD Progressive		
<b>Interface</b>	IEEE 802.3 1000baseT		
<b>A/D</b>	14 bit		
<b>Output</b>	8-12 bit		
<b>Sensor Size</b>	Type 1/2		
<b>Sensor</b>	Sony ICX415		
<b>Cell size</b>	8.3 $\mu\text{m}$		
<b>On-board FIFO</b>	32 MB		
<b>Body Dimensions (L x W x H in mm)</b>	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/one push/programmable
  - Exposure time 45.1  $\mu$ s to 60s
- White balance
  - Auto/one push/programmable
- Hue, saturation, sharpness (color versions)
- Gain
  - Auto/one push/programmable
  - 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-046B/C is a sensitive, affordable industrial GigE Vision camera.

Typical applications:

- Applications which require high sensitivity (low light)
- Semiconductor inspection
- Pharmaceutical inspection
- Logistics
- ... and more