



## Manta G-033

### Description

#### GigE Vision camera, Sony ICX414, VGA - NEW

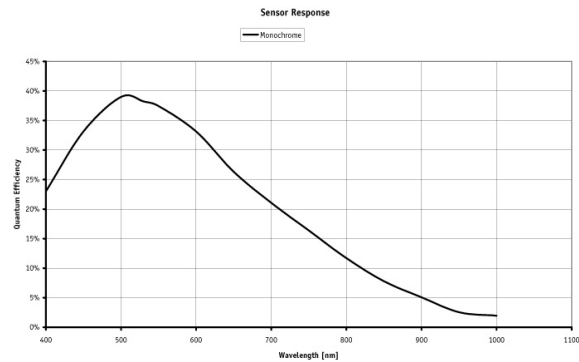
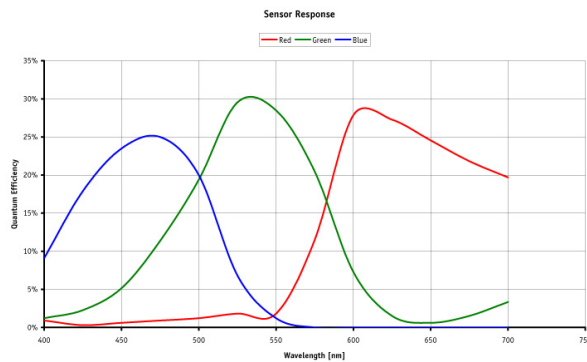
The Manta G-033B/C is a VGA GigE Vision camera with the Sony ICX414 CCD sensor. It runs 88 fps (full resolution). With a smaller ROI, higher frame rates are possible. The color version includes color interpolation/color correction functions that outperform most cameras in this price class.

- Sony ICX414 (type 1/2), 0.3 Megapixels
- Trigger
  - External trigger event: rising/falling/any edge, level high/low
  - External trigger delay: 0 to 60 seconds in 1  $\mu$ 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

<b>Manta G-033</b>	
<b>Interface</b>	IEEE 802.3 1000baseT
<b>Resolution</b>	656 x 492
<b>Sensor</b>	Sony ICX414
<b>Type</b>	CCD Progressive
<b>Sensor Size</b>	Type 1/2
<b>Cell size</b>	9.9 µm
<b>Lens mount</b>	C/CS
<b>Max frame rate at full resolution</b>	88 fps
<b>A/D</b>	14 bit
<b>On-board FIFO</b>	32 MB
<b>Output</b>	
<b>Bit depth</b>	8-12 bit
<b>Mono modes</b>	Mono8, Mono16
<b>Color modes YUV</b>	YUV411, YUV422, YUV444
<b>Color modes RGB</b>	RGB24, BGR24
<b>Raw modes</b>	Bayer8, Bayer16
<b>General purpose inputs/outputs (GPIOs)</b>	
<b>TTL I/Os</b>	0
<b>Opto-coupled I/Os</b>	2 inputs, 2 outputs
<b>RS-232</b>	1
<b>Power/Mass/Dimensions/Regulations</b>	
<b>Power requirements (DC)</b>	8 V - 30 V
<b>Power consumption (12 V)</b>	<3.6 W
<b>Mass</b>	<200 g
<b>Body Dimensions (L x W x H in mm)</b>	86.4 x 44 x 29 mm incl. connectors
<b>Regulations</b>	CE, FCC Class B, RoHS

[Download Manta technical drawing \(click here\)](#)



## Smart features

- ROI (Region of Interest Readout)
- Exposure
  - Auto/manual
  - Exposure time 26  $\mu$ s to 60 s
- White balance
  - Auto/manual
- Hue, saturation, sharpness (only color versions)
- Gain
  - Auto/manual
  - Manual gain control: 0 to 35 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-033B/C is a robust mainstream camera with GigE Vision interface and VGA resolution.

Typical applications:

- Machine vision
- Industrial inspection and automation
- Semiconductor inspection
- Logistics
- ITS/Traffic monitoring
- ... and many more