



## Description

### GigE Vision camera, 2 Megapixels, Sony ICX274, PoE option

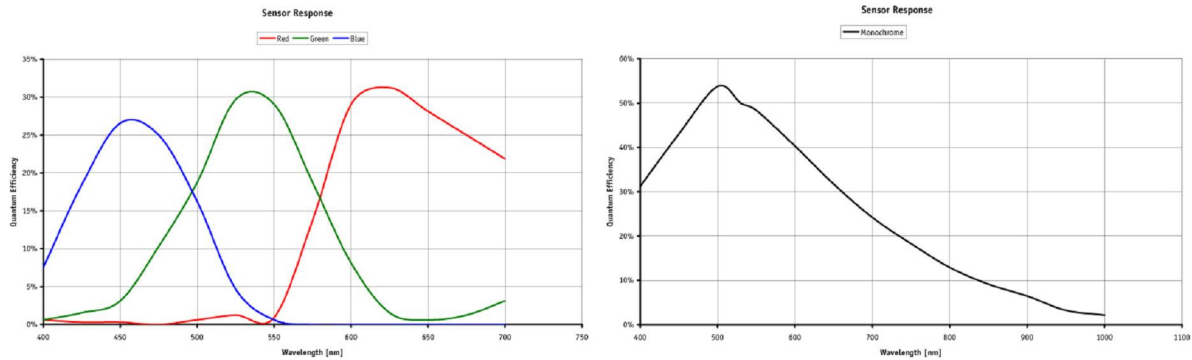
The Manta G-201B/C is a low cost GigE Vision camera with a Sony ICX274 sensor. It runs at 14 fps (full resolution). With a smaller ROI, higher frame rates are possible. It incorporates three LUTs, sophisticated color correction algorithms, a robust metal housing, and many modular options like angled 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 ICX274 (type 1/1.8), 2 Megapixels
- Sync modes
  - Trigger ready, trigger input, exposing, readout, imaging, strobe, GPO
- 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-Mount
  - Board level version
  - Angled head
  - White medical housing
  - **NEW: PoE (Power over Ethernet)**

## Specifications

<b>Manta</b>		<b>G-201</b>	
<b>Interface</b>	IEEE 802.3 1000baseT		
<b>Resolution</b>	1624 x 1234		
<b>Sensor</b>	Sony ICX274		
<b>Type</b>	CCD Progressive		
<b>Sensor Size</b>	Type 1/1.8		
<b>Cell size</b>	4.4 μm		
<b>Lens mount</b>	C/CS		
<b>Max frame rate at full resolution</b>	14 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, Mono12 packed		
<b>Color modes YUV</b>	YUV411, YUV422, YUV444		
<b>Color modes RGB</b>	RGB24, BGR24		
<b>Raw modes</b>	Bayer8, Bayer16, Bayer12 packed		
<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/one push/programmable
  - Exposure time 51  $\mu$ 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 31 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)
- Sub-sampling (decimation)
- Stream hold
- StreamBytesPerSecond (easy bandwidth control)
- Event channel
- Chunk data
- 5 storable user sets

## Applications

The Manta G-201B/C is a robust and low cost industrial GigE Vision camera. Thanks to its flexibility, it can be used for a variety of 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.

Typical applications:

- Machine vision
- ITS (Intelligent Traffic Solutions)
- Entertainment and multimedia applications
- 3D applications
- ITS (Intelligent traffic solutions)
- ... and many more