



Description

Low cost GigE Vision camera with ExView HAD sensor Sony ICX445

The Manta G-125B/C is a low cost GigE Vision camera with 1.2 MP resolution and a Sony ICX445 sensor. It runs at 30 fps (full resolution). With a smaller ROI, higher frame rates are possible.

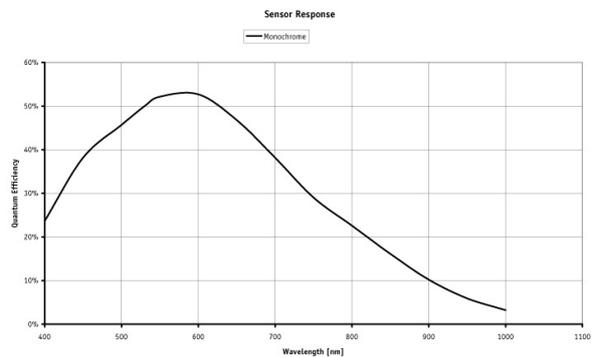
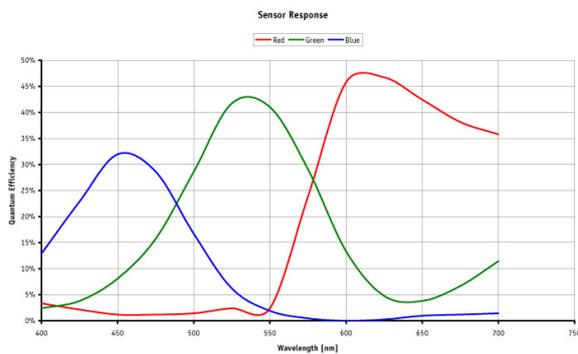
The color version includes color interpolation/color correction functions that outperform most cameras in this price class.

- Sony ICX445 (type 1/3) ExView HAD, 1.2 Megapixels
- Two configurable inputs, two configurable outputs (all optocoupled)
- 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-125	
Resolution	1292 x 964		
Max frame rate at full resolution	30 fps		
Type	CCD Progressive		
Interface	IEEE 802.3 1000baseT		
A/D	14 bit		
Output	8-12 bit		
Sensor Size	Type 1/3		
Sensor	Sony ICX445		
Cell size	3.75 μ m		
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/one push/programmable
 - Exposure time 28.5 μ s to 60 s
- 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-125B/C is a sensitive, robust GigE Vision camera for quality control and other machine vision applications.

- Applications which require high sensitivity (low light)
- Quality control
- ITS (Intelligent traffic solutions)
- Semiconductor inspection
- 3D inspection
- Food inspection
- ... and many more