



Manta G-145

• 15 fps @ 1.4 Megapixel

- PoE optional
- Angled head and boardlevel variants
- Video-iris lens control

Description

GigE Vision camera with Sony ICX285 EXview HAD CCD, PoE option

Manta G-145B/C is an inexpensive GigE Vision camera with the very sensitive Sony ICX285 EXview HAD sensor. It runs at 15 fps (full resolution). The Manta incorporates three LUTs, sophisticated color correction algorithms, a robust metal housing, and many modular options. Options

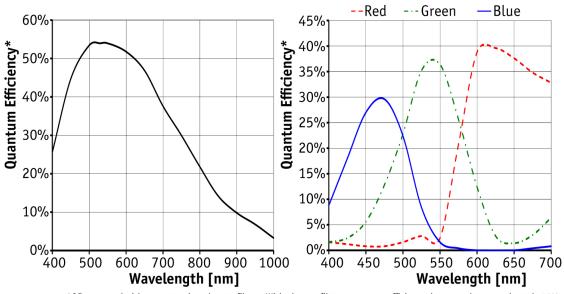
- PoE (Power over Ethernet)
- Various IR cut/pass filters and lens mounts
- Angled head, board level version, white medical housing

Specifications

Manta	G-145				
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional				
Resolution	1388 × 1038				
Sensor	Sony ICX285				
Sensor type	CCD Progressive				
Sensor size	Type 2/3				
Cell size	6.45 μm				
Lens mount	C/CS-Mount				
Max frame rate at full resolution	15 fps				
ADC	12 bit				
On-board FIFO	32 Mbyte				
Output					
Bit depth	8-12 bit				
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Manta	G-145					
Mono modes	Mono8, Mono12, Mono12Packed					
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed					
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed					
Raw modes	BayerRG8, BayerRG12Packed, BayerRG12					
General purpose inputs/outputs (GPIOs)						
Opto-isolated I/Os	2 inputs, 2 outputs					
RS-232	1					
Operating conditions/dimensions						
Operating temperature	+5 °C +45 °C					
Power requirements (DC)	PoE, or 8-30 VDC					
Power consumption (@12 V)	4.3 W (PoE) / 3.7 W (non-PoE)					
Mass	210 g (PoE) / 200 g (non-PoE)					
Body dimensions (L × W × H in mm)	86.4 × 44 × 29 mm incl. connectors					
Regulations	CE, FCC Class B, RoHS					



*QE measured without protection glass or filters. With glass or filters, quantum efficiency decreases by approximately 10%.

Features

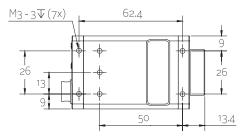
- Video-type auto iris
- ROI, separate ROI for auto features
- Binning
- Decimation
- Auto gain (manual gain control: 0 to 33 dB)

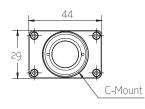


- Auto exposure (43 µs to 60 s)
- Auto white balance
- LUTs (look-up tables)
- Gamma
- Hue, saturation, color correction
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Event channel
- Chunk data
- Storable user sets

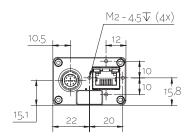


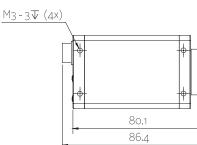
Technical drawing

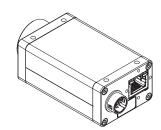




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Applications

Manta G-145B/C is a very affordable GigE Vision camera for machine vision and medical imaging applications. Its sensor is very sensitive in the visible spectrum, and also suitable for applications which require NIR (near infrared) sensitivity. On request, board level versions with separate sensor head (up to 200 mm distance to camera mainboard) are available.

- Machine vision
- Science and research
- Medical and healthcare
- Microscopy
- Ophthalmology
- ITS/Traffic monitoring
- ... and many more