



Manta G-033

- Versatile VGA camera
- PoE option
- Angled head and board level variants
- Video-iris lens control

Description

GigE Vision camera, Sony ICX414 sensor, PoE option

Manta G-033B/G-033C is a VGA GigE Vision camera with the Sony ICX414 CCD sensor. At full resolution, this camera runs at 88.7 frames per second. With a smaller region of interest, higher frame rates are possible. This camera#incorporates three look-up tables, sophisticated color correction algorithms, a robust metal housing, and many modular options.

Options

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

See the#<u>Modular Concept</u>#for lens mount, housing variants, optical filters, case design, and other modular options.

Specifications

Manta	G-033
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
Resolution	656 (H) × 492 (V)
Sensor	Sony ICX414
Sensor type	CCD Progressive
Cell size	9.9 μm x 9.9 μm
Lens mount	C-Mount
Max frame rate at full resolution	88.7 fps
ADC	12 bit
Image buffer (RAM)	32 Mbyte



Manta	G-033						
Output							
Bit depth	8-12 bit						
Mono modes	Mono8, Mono12, Mono12Packed						
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed						
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed						
Raw modes	BayerRG8, BayerRG12, BayerRG12Packed						
General purpose ir	iputs/outputs (GPIOs)						
Opto-isolated I/Os	2 inputs, 2 outputs						
RS-232	1						
	litions/dimensions						
Operating temperature	+5 °C to +45 °C ambient (without condensation)						
Power requirements (DC)	8 to 30 VDC; PoE						
Power consumption (@12 V)	3.6 W @ 12 VDC; 4.2 W PoE						
Mass	200 g; 210 g (PoE)						
Body dimensions (L × W × H in mm)	86.4 × 44 × 29 (including connectors)						
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES						
40% 35% 30% 25% 20% 15% 10% 35% 10%	RedGreen —Blue						

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

900 1000

5%

0%

400 450

550

600

Wavelength [nm]

500

700

650

Features

5%

0%

400

500

600

700

Wavelength [nm]

Manta G-033B/G-033C features include:

800

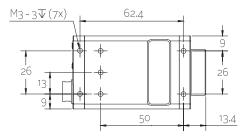
• Video-type auto iris

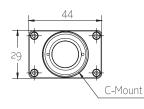


- Region of interest (ROI), separate ROI for auto features
- Binning
- Decimation
- Auto gain (manual gain control: 0 to 35 dB)
- Auto exposure (26 #s to 60 s)
- Auto white balance
- Look-up tables (LUTs)
- Gamma
- Hue, saturation, color correction
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger#ready, input, exposing, readout, imaging, strobe, GPO
- Event channel
- Chunk data
- Storable user sets

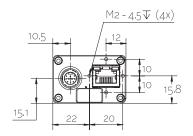


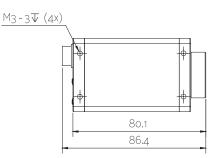
Technical drawing

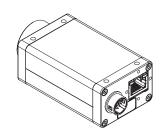




		 _
manta		∮ Ø27.5
71	-	 9,1







Applications

Manta G-033B/G-033C is ideal for a wide range of applications including:



- Machine vision
- Industrial inspection and automation
- Semiconductor inspection
- Logistics
- Intelligent traffic solutions (ITS)