





Manta

G-223

- CMOSIS CMOS sensor
- PoE option
- Angled head and board level variants
- Video-iris lens control

Description

GigE camera with CMOSIS CMV2000 sensor, global shutter

Manta G-223B/G-223C is an industrial GigE camera with a 2/3" CMOSIS CMV2000 sensor.#This camera offers several modular options.

Options

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

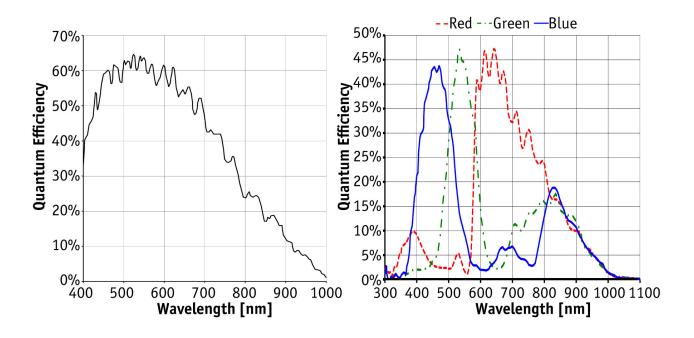
See the #Modular Concept #for lens mount, housing variants, optical filters, case design, and other modular options.

Specifications

Manta	G-223
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE) optional
Resolution	2048 (H) × 1088 (V)
Sensor	CMOSIS CMV2000
Sensor type	CMOS Progressive
Cell size	5.5 μm x 5.5 μm
Lens mount	C-Mount
Max frame rate at full resolution	53.7 fps
ADC	12 bit
Image buffer (RAM)	128 Mbyte
Output	
Bit depth	8-12 bit



Manta	G-223
Mono modes	Mono8, Mono12Packed, Mono12
Color modes YUV	YUV411Packed, YUV422Packed, YUV444Packed
Color modes RGB	RGB8Packed, BGR8Packed, RGBA8Packed, BGRA8Packed
Raw modes	BayerGB8, BayerGB12, BayerGB12Packed
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	2 inputs, 2 outputs
RS-232	1
Operating conditions/dimensions	
Operating temperature	+5 °C to +45 °C ambient (without condensation)
Power requirements (DC)	8 to 30 VDC; PoE
Power consumption (@12 V)	2.7 W @ 12 VDC; 3.1 W PoE
Mass	190 g; 200 g (PoE)
Body dimensions (L × W × H in mm)	86.4 × 44 × 29 (including connectors)
Regulations	CE, RoHS, REACH, WEEE, FCC, ICES



Features

Manta G-223B/G-223C features include:

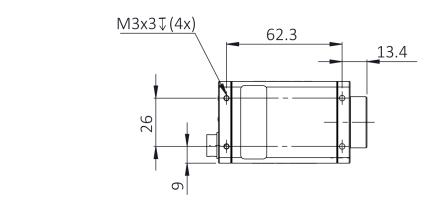
- Precision Time Protocol (IEEE 1588)
- · Camera temperature monitoring
- Video-type auto iris

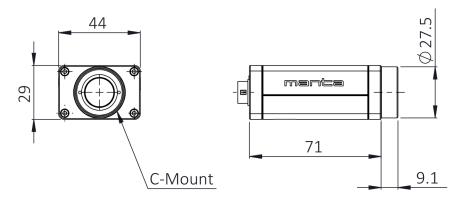


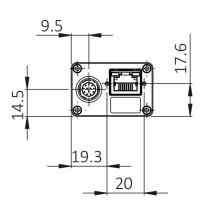
- Region of interest (ROI), separate ROI for auto features
- Decimation
- Auto gain (manual gain control: 0 to 26 dB)
- Auto exposure (18 #s to 126 s)
- Auto white balance
- Look-up tables (LUTs)
- Gamma
- Hue, saturation, color correction
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger#ready, input, exposing, readout, imaging, strobe, GPO
- Event channel
- Chunk data
- Storable user sets

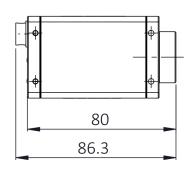


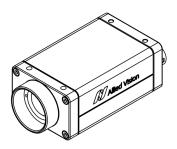
Technical drawing











Applications

Manta G-223B/G-223C is ideal for a wide range of applications including:



- Full HD solutions
- Machine vision
- Industrial inspection
- Security and surveillance
- Industrial image processing
- Intelligent traffic solutions (ITS)