Allied Vision

Mako G
G-223 NIR

- Ultra-compact (60.5 × 29 × 29 mm)
- Affordable
- PoE
- CMOS CMV2000 NIR enhanced sensor

Description

GigE camera with CMOSIS CMV2000 sensor, NIR optimized, global shutter

Mako G-223B NIR is an industrial GigE camera with the CMOSIS CMV2000 sensor. Mako cameras have the same compact form factor and the same mounting positions as many analog cameras. All models include PoE, three optocoupled outputs, and a 64 MB image buffer. The image quality profits from the precisely aligned sensors.
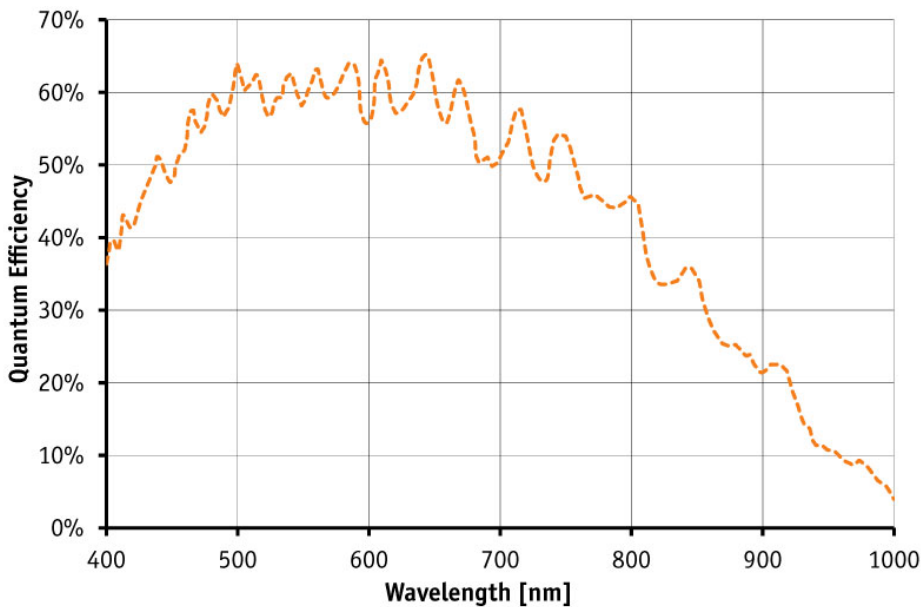Options

- Various IR cut/pass filters, protection glass, various lens mounts
- White medical housing

Specifications

Mako G	G-223 NIR
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	2048 × 1088
Sensor	CMOSIS CMV2000
Sensor type	CMOS Progressive
Sensor size	Type 2/3
Cell size	5.5 µm
Lens mount	C/CS-Mount
Max frame rate at full resolution	49.5 fps
ADC	12 bit
On-board FIFO	64
Output	
Bit depth	8/12 bit
Mono modes	Mono8, Mono12, Mono12Packed
General purpose inputs/outputs (GPIOs)	

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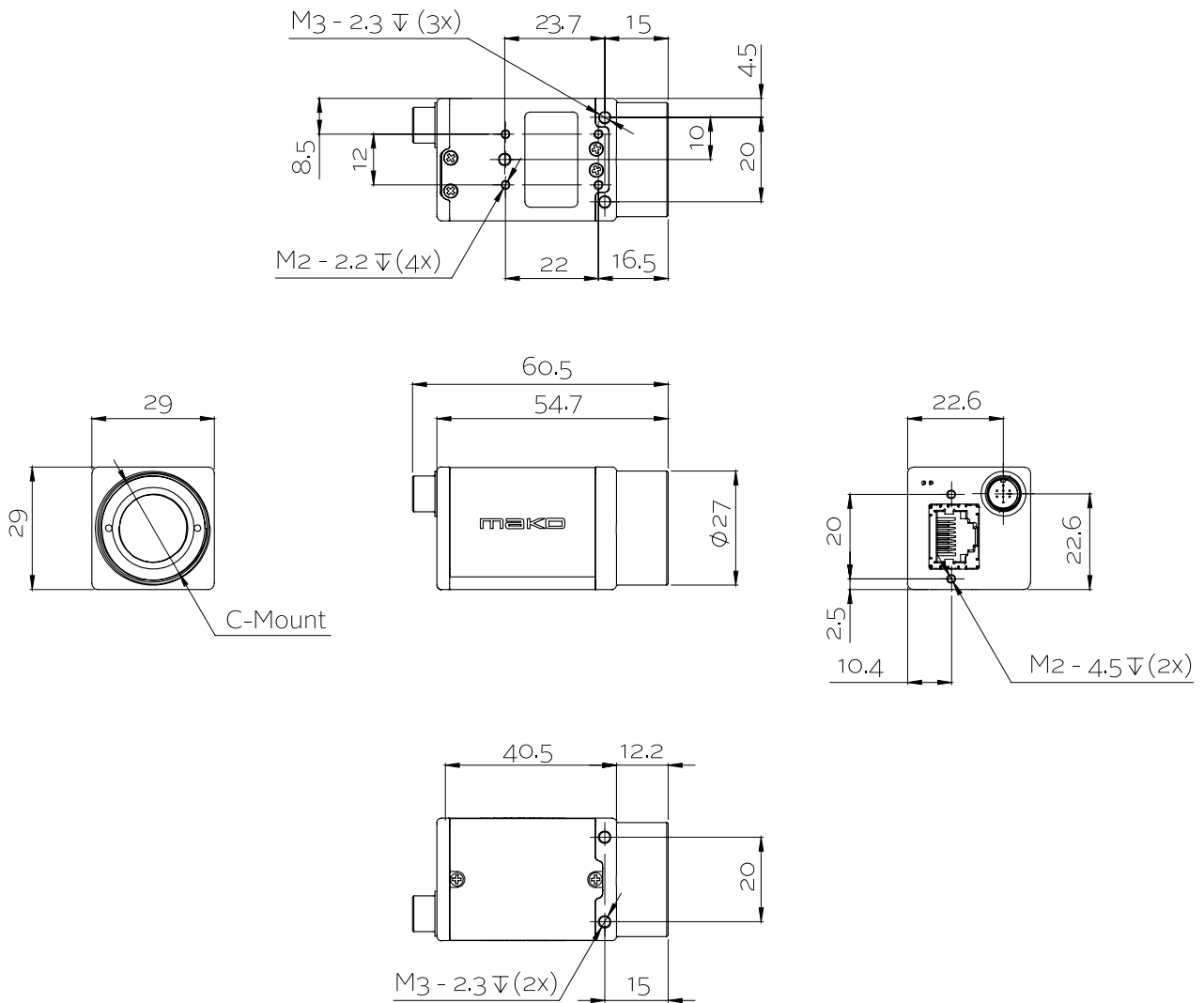| Mako G	G-223 NIR
TTL I/Os	
Opto-isolated I/Os	1 input, 3 outputs
Operating conditions/dimensions	
Operating temperature	+5°C to +45°C (housing temperature)
Power requirements (DC)	PoE /12 V - 24 V
Power consumption (@12 V)	2.8 W (PoE) / 2.4 W (non-PoE)
Mass	80 g
Body dimensions (L × W × H in mm)	60.5 × 29 × 29 mm, incl. connectors
Regulations	CE, FCC Class B, RoHS

Features

- Camera temperature monitoring
- Column defect masking
- ROI, separate ROI for auto features
- Auto gain (manual gain control: 0 to 26 dB)
- Auto exposure (manual exposure control: 21 µs to 153 s)
- LUTs (look-up tables)
- Gamma
- StreamBytesPerSecond (easy bandwidth control)
- Stream hold
- Sync out modes: Trigger ready, input, exposing, readout, imaging, strobe, GPO
- Event channel

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- Chunk data
- Storable user sets

Technical drawing

M3 - 2.3 ⊽ (3x)   23.7   15   4.5

8.5   12   10   20

M2 - 2.2 ⊽ (4x)   22   16.5

29   29

C-Mount

60.5
54.7

mako

Ø27

22.6

20   22.6

2.5

10.4

M2 - 4.5 ⊽ (2x)

40.5   12.2

20

M3 - 2.3 ⊽ (2x)   15

Applications

Mako is an inexpensive industrial GigE camera with a compact form factor. It is suitable for all typical machine vision applications:

- Robotics
- Quality control
- Inspection, surveillance
- Industrial imaging
- Machine vision
- Logistics