![Allied Vision logo]

Mako G
G-419B NIR

- Ultra-compact (60.5 × 29 × 29 mm)
- Affordable
- PoE
- CMOS CMV4000 NIR enhanced sensor

Description

GigE camera with CMOSIS CMV4000 sensor, NIR optimized, global shutter

Mako G-419B NIR is an industrial GigE camera with the CMOSIS CMV4000 sensor. Mako G cameras have the same compact form factor and the same mounting positions as many analog cameras. All models include PoE, three opto-isolated outputs, and a 64 MB FIFO image buffer. The image quality profits from the precisely aligned sensors.
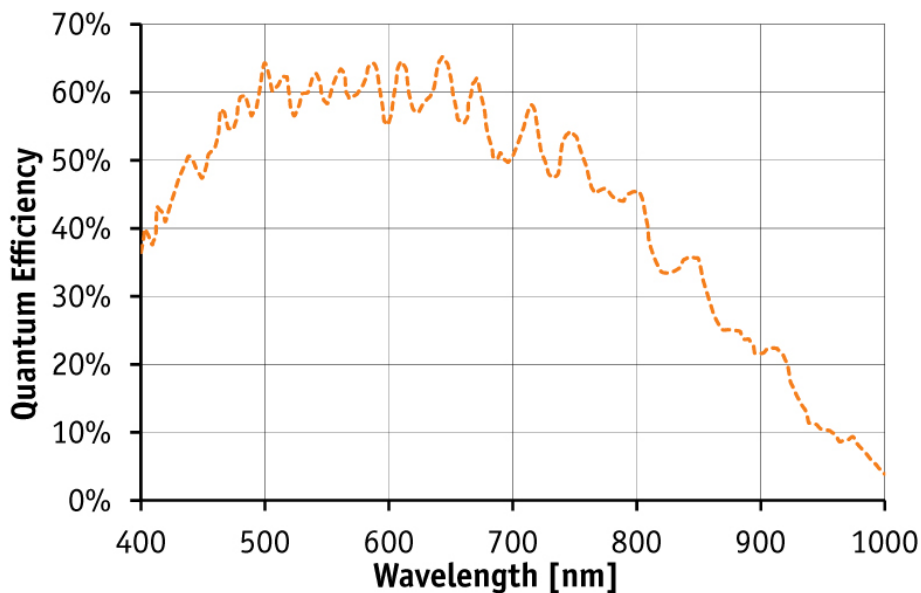Options

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

Specifications

Mako G	G-419B NIR
Interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
Resolution	2048 × 2048
Sensor	CMOSIS CMV4000
Sensor type	CMOS Progressive
Sensor size	Type 1
Cell size	5.5 µm
Lens mount	C/CS-Mount
Max frame rate at full resolution	26.3 fps
ADC	12 bit
On-board FIFO	64 Mbyte
Output	
Bit depth	8/12 bit

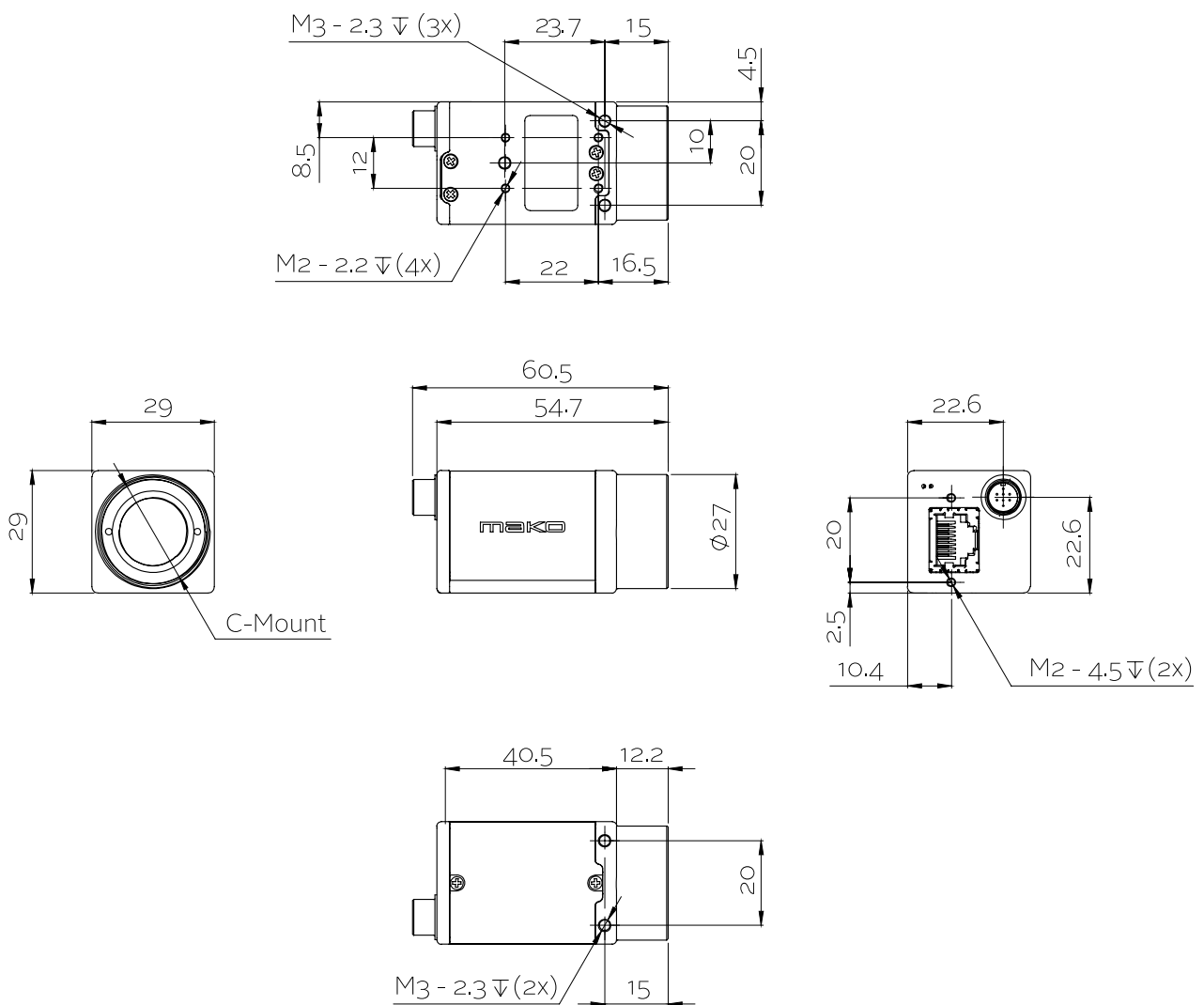| Mako G	G-419B NIR
Mono modes	Mono8, Mono12, Mono12Packed
General purpose inputs/outputs (GPIOs)	
Opto-isolated I/Os	1 input, 3 outputs
Operating conditions/dimensions	
Operating temperature	+5°C to +45°C (housing temperature)
Power requirements (DC)	PoE /12 V - 24 V
Power consumption (@12 V)	2.7 W (PoE) / 2.3 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: 41 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

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- Event channel
- 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   60.5   22.6
29   54.7   20   22.6
C-Mount   Ø27   2.5
10.4   M2 - 4.5 ⍀ (2x)

40.5   12.2
20
M3 - 2.3 ⍀ (2x)   15

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Applications

Mako G 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