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# Allied Vision Mako G-419B 1" NIR CMOS Camera

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Allied Vision Mako Power over Ethernet (PoE) Cameras (Front)



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## Product Downloads

Spectrum:  
NIR

## General

Type:  
NIR Camera

Model Number:

G-419B

Allied Vision **Manufacturer:**

Mako **Camera Series:**

## Physical & Mechanical Properties

42.6 x 29.2 x 29.2 (excludes connectors and lens mount) **Dimensions (mm):**

80 **Weight (g):**

Full **Housing:**

## Sensor

64MB **Image Buffer:**

1" **Sensor Format:**

4.20 **Resolution (Megapixels):**

26.30 **Frame Rate (fps):**

2,048 x 2,048 **Pixels (H x V):**

5.5 x 5.5 **Pixel Size, H x V (µm):**

11.3 x 11.3 **Sensing Area, H x V (mm):**

CMOSIS CMV4000 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

8/12 bit **Pixel Depth:**

41µs to 153s **Exposure Time:**

56.6 **Dynamic Range (dB):**

GigE Vision V1.2, GenICam SFNC V1.2.1 **Machine Vision Standard:**

## Electrical

2.3 (12VDC External Power Supply)  
2.7 (PoE) **Power Consumption (W):**

## Hardware & Interface Connectivity

GigE (PoE) **Interface:**

GigE, RJ45 with Screw Locks **Connector:**

Power over Ethernet (PoE), via GPIO, or with external power supply **Power Supply:**

1 opto-isolated input, 3 opto-isolated outputs **GPIOs:**

Hardware Trigger (GPIO), Software Trigger, or PTP (IEEE 1588) **Synchronization:**

Back Panel **Interface Port Orientation:**

8-pin Hirose (HR25) **GPIO Connector Type:**

## Threading & Mounting

C-Mount **Mount:**

1/4-20 with Tripod Mount Adapter [#88-483](#) **Mounting Threads:**

## Environmental & Durability Factors

+5 to +45 **Operating Temperature (°C):**

-10 to +70 **Storage Temperature (°C):**

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## Regulatory Compliance

**Compliant** **RoHS 2015:**

**View** **Certificate of Conformance:**

**Compliant** **Reach 240:**

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## Product Details

GigE cable and [power supply](#) (if not using PoE) required for operation.

- Compact, Robust Metal Housing
- One Optocoupled Input, Three Outputs
- Power over Ethernet for Increased Flexibility

Allied Vision Mako Power over Ethernet (PoE) Cameras are ideal digital replacements for analog cameras in a variety of applications, including robots, inspection, or logistics. Allied Vision Mako PoE Cameras feature a precision-aligned sensor to maximize image performance, in addition to a 64MB image buffer. To increase adaptability, Allied Vision Mako PoE Cameras also come equipped with multiple smart features, including the region of interest readout, programmable exposure and white balance, and easy bandwidth control. Allied Vision Mako Power over Ethernet (PoE) Cameras utilize a robust metal housing along with camera temperature monitoring to ensure maximum performance in a range of environments. These cameras are offered in both monochrome and color, with varying resolutions.

**Note:** GigE cable and power supply (if not using PoE) required for operation.

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