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# Allied Vision Manta G-419B Monochrome CMOS PoE Camera

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Allied Vision Manta PoE Cameras



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### Product Downloads

Monochrome **Spectrum:**

### General

Monochrome Camera **Type:**

Manta G-419B **Model Number:**

Allied Vision **Manufacturer:**

Manta PoE **Camera Series:**

## Physical & Mechanical Properties

71 × 44 × 29 (excludes connectors and lens mount) **Dimensions (mm):**

200 **Weight (g):**

Full **Housing:**

## Sensor

128MB **Image Buffer:**

1" **Sensor Format:**

4.20 **Resolution (Megapixels):**

28.60 **Frame Rate (fps):**

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

5.50 x 5.50 **Pixel Size, H x V (µm):**

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

CMOSIS CM4000 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

8/12 bit **Pixel Depth:**

Via Software **Exposure Time:**

56.5 **Dynamic Range (dB):**

GigE Vision v1.2, GenICam SFNC V1.2.1 **Machine Vision Standard:**

## Electrical

2.7 (12VDC External Power Supply)  
3.1 (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:**

2 opto-isolated inputs, 2 opto-isolated outputs **GPIOs:**

Hardware Trigger (GPIO) or Software Trigger **Synchronization:**

Back Panel **Interface Port Orientation:**

12-pin Hirose (HR10) **GPIO Connector Type:**

## Threading & Mounting

C-Mount **Mount:**

1/4-20 with Tripod Mount Adapter [#89-996](#) **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:**

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

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## Product Details

- Up to 1.2" Maximum Sensors
- Up to 128MB of Onboard Memory
- Power over Ethernet for Increased Flexibility

Allied Vision Manta PoE Cameras are high performance GigE cameras that offer the flexibility of Power over Ethernet (PoE) for easy system integration. These cameras are available in monochrome or color models, with sensors ranging from 1/2.9" to 1.2" and resolutions from 0.4 to 24.55 MegaPixels. M3 threads on both the top and bottom of the camera housing allow for easy camera mounting, and an optional 1/4-20 Tripod Adapter ([#89-996](#)) is also available. Allied Vision Manta PoE Cameras feature C-Mount threading and are compatible with C-Mount accessories including imaging lenses and machine vision filters. The robust metal housing makes these PoE cameras ideal for industrial environments and machine vision applications such as quality control or industrial inspection.

Note: GigE cable ([#63-431](#)) sold separately and required for operation. [Allied Vision Manta GigE cameras](#) without Power over Ethernet are also available.