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# Allied Vision Manta G-419 1" NIR CMOS Camera

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Allied Vision Manta GigE Cameras (Front)



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**Spectrum:**  
NIR

## General

**Type:**  
NIR Camera

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

Allied Vision **Manufacturer:**  
Manta **Camera Series:**

## Physical & Mechanical Properties

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

150 **Weight (g):**

Full **Housing:**

## Sensor

32MB **Image Buffer:**

1" **Sensor Format:**

4.20 **Resolution (Megapixels):**

28.60 **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 CM4000 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

Via Software **Exposure Time:**

60.0 **Dynamic Range (dB):**

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

## Electrical

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

## Hardware & Interface Connectivity

GigE **Interface:**

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

Power Supply Required and Sold Separately:  
USA: [#15-281](#)  
Europe: [#15-281](#)  
Japan: [#15-281](#)  
China: [#15-281](#) **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):**

**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

- Ideal Analog Replacement
- Up to 1" Maximum Sensors
- Up to 125 fps
- 32MB of Onboard Memory

Allied Vision Manta GigE Cameras are an excellent choice for entry into using the GigE interface. Featuring an intuitive user interface as well as a powerful SDK, these cameras are an excellent value. With options from 0.3 MegaPixels to 12 MegaPixels, all sensors offered cover a wide array of applications. Allied Vision Manta GigE Cameras feature sensors from 1/4" to 1" in size. GigE Cable and Power Supply, both sold separately, are required for operation. Additional [GigE cables](#), [#89-996](#) 1/4-20 Mounting Plate, and [#62-712](#) 12 Pin I/O Cable are available.

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