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# Allied Vision Manta G-2040B Monochrome CMOS PoE Camera

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Allied Vision Manta PoE Cameras



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## Product Downloads

**Spectrum:**  
Monochrome

## General

**Type:**  
Monochrome Camera

**Model Number:**  
Manta G-2040B

Allied Vision **Manufacturer:**

Manta PoE **Camera Series:**

## Physical & Mechanical Properties

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

**Weight (g):**  
200

**Housing:**  
Full

## Sensor

**Image Buffer:**  
128MB

**Sensor Format:**  
1.1"

**Resolution (Megapixels):**  
20.36

**Frame Rate (fps):**  
5.90

**Pixels (H x V):**  
4,512 x 4,512

**Pixel Size, H x V (µm):**  
2.74 x 2.74

**Sensing Area, H x V (mm):**  
12.4 x 12.4

**Imaging Sensor:**  
Sony IMX541

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
8/12 bit

**Exposure Time:**  
Via Software

**Dynamic Range (dB):**  
70.8

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

## Electrical

**Power Consumption (W):**  
3.3 (12VDC External Power Supply), 3.9 (PoE)

## Hardware & Interface Connectivity

**Interface:**  
GigE (PoE)

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

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

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

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

**Interface Port Orientation:**  
Back Panel

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

## Threading & Mounting

**Mount:**  
C-Mount

**Mounting Threads:**  
¼-20 with Tripod Mount Adapter [#89-996](#)

## Environmental & Durability Factors

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

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

## Regulatory Compliance

[Compliant](#)

**RoHS 2015:**

[View](#)

**Certificate of Conformance:**

[Compliant](#)

**Reach 240:**

## 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.

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