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Allied Vision Manta G-419 1" Monochrome CMOS Camera

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Allied Vision Manta GigE Cameras (Front)

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Spectrum:
Monochrome

General

Type:

Monochrome Camera

Model Number:
Manta G-419B

Manufacturer:
Allied Vision

Camera Series:
Manta

Physical & Mechanical Properties

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

Weight (g):
150

Housing:
Full

Sensor

Image Buffer:
32MB

Sensor Format:
1"

Resolution (Megapixels):
4.20

Frame Rate (fps):
28.60

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

Pixel Size, H x V (µm):
5.5 x 5.5

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

Imaging Sensor:
CMOSIS CMV4000

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
12 bit

Exposure Time:
Via Software

Dynamic Range (dB):
56.5

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

Electrical

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

Hardware & Interface Connectivity

Interface:
GigE

Connector:
GigE, RJ45 with Screw Locks

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

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

RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 240:	Compliant

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** ¼-20 Mounting Plate, and **#62-712** 12 Pin I/O Cable are available.