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Allied Vision Manta G-223B Monochrome CMOS PoE Camera

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Allied Vision Manta PoE Cameras

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SPECIFICATIONS

Spectrum:	Monochrome

General

Type:
Monochrome Camera

Model Number:
Manta G-223B

Manufacturer:
Allied Vision

Camera Series:
Manta PoE

Physical & Mechanical Properties

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

Weight (g):
200

Housing:
Full

Sensor

Image Buffer:
128MB

Sensor Format:
2/3"

Resolution (Megapixels):
2.20

Frame Rate (fps):
53.70

Pixels (H x V):
2,048 x 1,088

Pixel Size, H x V (µm):
5.50 x 5.50

Sensing Area, H x V (mm):
11.3 x 5.9

Imaging Sensor:
CMOSIS CMV2000

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
8/12 bit

Exposure Time:
Via Software

Dynamic Range (dB):
56.7

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

Electrical

Power Consumption (W):
2.7 (12VDC External Power Supply)
3.1 (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

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

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 ¼-20 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.