

# Allied Vision Manta G-235 1/1.2" Monochrome CMOS Camera

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Allied Vision Manta GigE Cameras (Front)



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## SPECIFICATIONS

| General                                                                                                                                                                           |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Monochrome Camera                                                                                                                                                                 | Type:                       |
| Manta G-235B                                                                                                                                                                      | Model Number:               |
| Allied Vision                                                                                                                                                                     | Manufacturer:               |
| Manta                                                                                                                                                                             | Camera Series:              |
| Monochrome                                                                                                                                                                        | Spectrum:                   |
| Physical & Mechanical Properties                                                                                                                                                  |                             |
| 71 x 44 x 29 (excludes connectors and lens mount)                                                                                                                                 | Dimensions (mm):            |
| 200                                                                                                                                                                               | Weight (g):                 |
| Full                                                                                                                                                                              | Housing:                    |
| Sensor                                                                                                                                                                            |                             |
| 32MB                                                                                                                                                                              | Image Buffer:               |
| 1/1.2"                                                                                                                                                                            | Sensor Format:              |
| 2.30                                                                                                                                                                              | Resolution (Megapixels):    |
| 50.70                                                                                                                                                                             | Frame Rate (fps):           |
| 1,920 x 1,200                                                                                                                                                                     | Pixels (H x V):             |
| 5.86 x 5.86                                                                                                                                                                       | Pixel Size, H x V (µm):     |
| 11.3 x 7.0                                                                                                                                                                        | Sensing Area, H x V (mm):   |
| Sony IMX174                                                                                                                                                                       | Imaging Sensor:             |
| Progressive Scan CMOS                                                                                                                                                             | Type of Sensor:             |
| Global                                                                                                                                                                            | Shutter Type:               |
| 12 bit                                                                                                                                                                            | Pixel Depth:                |
| Via Software                                                                                                                                                                      | Exposure Time:              |
| 73.0                                                                                                                                                                              | Dynamic Range (dB):         |
| GigE Vision v1.2, GenICam SFNC V1.2.1                                                                                                                                             | Machine Vision Standard:    |
| Electrical                                                                                                                                                                        |                             |
| 2.8 (12VDC External Power Supply)                                                                                                                                                 | Power Consumption (W):      |
| Hardware & Interface Connectivity                                                                                                                                                 |                             |
| GigE                                                                                                                                                                              | Interface:                  |
| GigE, RJ45 with Screw Locks                                                                                                                                                       | Connector:                  |
| Power Supply Required and Sold Separately.<br>USA: <a href="#">#15-281</a><br>Europe: <a href="#">#15-281</a><br>Japan: <a href="#">#15-281</a><br>China: <a href="#">#15-281</a> | 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:                  |
|                                  | Mounting Threads:       |
| 1/4-20 with Tripod Mount Adapter | <a href="#">#89-996</a> |

| Environmental & Durability Factors |                             |
|------------------------------------|-----------------------------|
| +5 to +45                          | Operating Temperature (°C): |
| -10 to +70                         | Storage Temperature (°C):   |

| Regulatory Compliance     |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
| <a href="#">View</a>      | Certificate of Conformance: |
| <a href="#">Compliant</a> | Reach 240:                  |

## 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.