

# Allied Vision Mako G-503B 1/2.5" Monochrome CMOS Camera

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Allied Vision Mako Power over Ethernet (PoE) Cameras (Front)



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**Video Output:**  
GigE (PoE)

**Type:**  
Monochrome Camera

|                                                                                            |
|--------------------------------------------------------------------------------------------|
| <b>Manufacturer:</b><br>Allied Vision                                                      |
| <b>Mounting Threads:</b><br>¼-20 with Tripod Mount Adapter <a href="#">#88-483</a>         |
| <b>Image Buffer:</b><br>64MB                                                               |
| <b>Camera Family:</b><br>Mako                                                              |
| <b>Model Number:</b><br>G-503B                                                             |
| <b>Imaging Sensor:</b><br>ON Semi MT9P031                                                  |
| <b>Type of Sensor:</b><br>Progressive Scan CMOS                                            |
| <b>Type of Shutter:</b><br>Rolling                                                         |
| <b>Camera Sensor Format:</b><br>1/2.5"                                                     |
| <b>Resolution (MegaPixels):</b><br>5.00                                                    |
| <b>Pixels (H x V):</b><br>2,592 x 1,944                                                    |
| <b>Pixel Size, H x V (µm):</b><br>2.2 x 2.2                                                |
| <b>Sensing Area, H x V (mm):</b><br>5.7 x 4.3                                              |
| <b>Frame Rate (fps):</b><br>14.00                                                          |
| <b>Pixel Depth:</b><br>8/12 bit                                                            |
| <b>Exposure Time:</b><br>Via Software                                                      |
| <b>Connector:</b><br>GigE, RJ45 with Screw Locks                                           |
| <b>Power Supply:</b><br>Power over Ethernet (PoE), via GPIO, or with external power supply |
| <b>Power Consumption (W):</b><br>2.0 (12VDC External Power Supply)<br>2.2 (PoE)            |
| <b>GPIOs:</b><br>1 opto-isolated input, 3 opto-isolated ouputs                             |
| <b>Synchronization:</b><br>Hardware Trigger (GPIO), Software Trigger, or PTP (IEEE 1588)   |
| <b>Dimensions (mm):</b><br>42.6 x 29.2 x 29.2 (excludes connectors and lens mount)         |
| <b>Weight (g):</b><br>80                                                                   |
| <b>Mount:</b><br>C-Mount                                                                   |
| <b>Housing:</b><br>Full                                                                    |
| <b>Interface Port Orientation:</b><br>Back Panel                                           |
| <b>Dynamic Range (dB):</b><br>57.6                                                         |
| <b>Operating Temperature (°C):</b><br>+5 to +45                                            |
| <b>Storage Temperature (°C):</b><br>-10 to +70                                             |
| <b>GPIO Connector Type:</b><br>8-pin Hirose (HR25)                                         |
| <b>Machine Vision Standard:</b><br>GigE Vision V1.2, GenICam SFNC V1.2.1                   |

## Regulatory Compliance

|                                                            |
|------------------------------------------------------------|
| <b>RoHS 2015:</b><br><a href="#">Compliant</a>             |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |
| <b>Reach 235:</b><br><a href="#">Compliant</a>             |

