

# Stingray F-504B 2/3" CCD Monochrome Camera

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**Video Output:**  
FireWire.b

**Type:**  
Monochrome Camera

**Manufacturer:**  
Allied Vision

**Mounting Threads:**  
1/4-20 with Tripod Mount Adapter [#59-157](#)

**Image Buffer:**  
128MB

|                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Camera Family:</b><br>Stingray                                                                                                                                                                                         |
| <b>Model Number:</b><br>F-504B                                                                                                                                                                                            |
| <b>Imaging Sensor:</b><br>Sony ICX655                                                                                                                                                                                     |
| <b>Type of Sensor:</b><br>Progressive Scan CCD                                                                                                                                                                            |
| <b>Type of Shutter:</b><br>Global                                                                                                                                                                                         |
| <b>Camera Sensor Format:</b><br>2/3"                                                                                                                                                                                      |
| <b>Resolution (MegaPixels):</b><br>5.00                                                                                                                                                                                   |
| <b>Pixels (H x V):</b><br>2,456 x 2,058                                                                                                                                                                                   |
| <b>Pixel Size, H x V (µm):</b><br>3.45 x 3.45                                                                                                                                                                             |
| <b>Sensing Area, H x V (mm):</b><br>8.5 x 7.1                                                                                                                                                                             |
| <b>Frame Rate (fps):</b><br>9.00                                                                                                                                                                                          |
| <b>Pixel Depth:</b><br>8/14 bit                                                                                                                                                                                           |
| <b>Exposure Time:</b><br>Programmable Via Software                                                                                                                                                                        |
| <b>Connector:</b><br>FireWire, IEEE 1394b                                                                                                                                                                                 |
| <b>Power Supply:</b><br>Power over FireWire, or with Power Supply 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> |
| <b>Power Consumption (W):</b><br><3.9 (12VDC External Power Supply)                                                                                                                                                       |
| <b>GPIOs:</b><br>2 configurable inputs, 4 configurable outputs                                                                                                                                                            |
| <b>Synchronization:</b><br>Hardware Trigger (GPIO) or Software Trigger                                                                                                                                                    |
| <b>Dimensions (mm):</b><br>57.5 x 44 x 29 (excludes connectors and lens mount)                                                                                                                                            |
| <b>Weight (g):</b><br>120                                                                                                                                                                                                 |
| <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>Not Specified                                                                                                                                                                               |
| <b>Operating Temperature (°C):</b><br>+5 to +45                                                                                                                                                                           |
| <b>Storage Temperature (°C):</b><br>-10 to +70                                                                                                                                                                            |
| <b>GPIO Connector Type:</b><br>12-pin Hirose (HR10)                                                                                                                                                                       |
| <b>Machine Vision Standard:</b><br>IIDC Standard v1.31                                                                                                                                                                    |
| <b>Power Requirement:</b><br>Supplied via IEEE-1394.b cable or 12-pin Hirose                                                                                                                                              |

## 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>             |