

# Allied Vision Alvium 1800 U-1242m, 1/1.1" 12.4MP C-Mount, Right Angle USB 3.1 Monochrome Camera (Partial Housing)

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**Video Output:**  
USB 3.1 Gen 1

|                                                                                           |
|-------------------------------------------------------------------------------------------|
| <b>Type:</b><br>Monochrome Camera                                                         |
| <b>Manufacturer:</b><br>Allied Vision                                                     |
| <b>Mounting Threads:</b><br>¼-20 and M6 with Tripod Mount Adapter <a href="#">#14-156</a> |
| <b>Image Buffer:</b><br>256KB                                                             |
| <b>Camera Family:</b><br>Alvium Right Angle                                               |
| <b>Model Number:</b><br>1800 U-1242m                                                      |
| <b>Imaging Sensor:</b><br>Sony IMX545                                                     |
| <b>Type of Sensor:</b><br>Progressive Scan CMOS                                           |
| <b>Type of Shutter:</b><br>Global                                                         |
| <b>Camera Sensor Format:</b><br>1/1.1"                                                    |
| <b>Resolution (MegaPixels):</b><br>12.40                                                  |
| <b>Pixels (H x V):</b><br>4,128 x 3,008                                                   |
| <b>Pixel Size, H x V (µm):</b><br>2.74 x 2.74                                             |
| <b>Sensing Area, H x V (mm):</b><br>11.3 x 8.2                                            |
| <b>Frame Rate (fps):</b><br>28.00                                                         |
| <b>Pixel Depth:</b><br>8/10/12 bit                                                        |
| <b>Exposure Time:</b><br>160µs - 10s @ 450 MBps<br>168µs - 10s @ 200 MBps                 |
| <b>Connector:</b><br>USB 3.1 Gen 1, Micro-B                                               |
| <b>Power Supply:</b><br>Power over USB or via GPIO                                        |
| <b>Power Consumption (W):</b><br>3.4                                                      |
| <b>GPIOs:</b><br>4 Programmable TTL GPIOs                                                 |
| <b>Synchronization:</b><br>Hardware Trigger (GPIO) or Software Trigger                    |
| <b>Dimensions (mm):</b><br>30 x 32 x 29 (includes connectors and lens mount)              |
| <b>Weight (g):</b><br>50                                                                  |
| <b>Mount:</b><br>C-Mount                                                                  |
| <b>Housing:</b><br>Partial                                                                |
| <b>Interface Port Orientation:</b><br>Back Panel (Right Angle)                            |
| <b>Dynamic Range (dB):</b><br>Not Specified                                               |
| <b>Operating Temperature (°C):</b><br>+5 to +65                                           |
| <b>Storage Temperature (°C):</b><br>-10 to +70                                            |
| <b>GPIO Connector Type:</b><br>7-pin JST                                                  |
| <b>Machine Vision Standard:</b><br>USB3 Vision v1.0, GenICam                              |

## 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>             |

