

# Allied Vision Alvium 1800 U-510m, 1/1.8" 5.1 S-Mount, USB 3.0 Monochrome Camera

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Allied Vision Alvium USB 3.1 Cameras



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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

1800 U-510m **Model Number:**

Allied Vision **Manufacturer:**

Alvium **Camera Series:**

## Physical & Mechanical Properties

**Dimensions (mm):**  
29 x 29 x 33 (includes connectors and lens mount)

**Weight (g):**  
65

**Housing:**  
Full

## Sensor

**Image Buffer:**  
256KB

**Sensor Format:**  
1/1.8"

**Resolution (Megapixels):**  
5.10

**Frame Rate (fps):**  
79.00

**Pixels (H x V):**  
2,464 x 2,064

**Pixel Size, H x V (µm):**  
2.74 x 2.74

**Sensing Area, H x V (mm):**  
6.75 × 5.66

**Imaging Sensor:**  
Sony IMX548

**Type of Sensor:**  
Progressive Scan CMOS

**Shutter Type:**  
Global

**Pixel Depth:**  
12 bit

**Exposure Time:**  
14µs - 10s

**Machine Vision Standard:**  
USB3 Vision v1.0, GenICam

## Electrical

**Power Consumption (W):**  
3.0

## Hardware & Interface Connectivity

**Interface:**  
USB 3.0 Gen 1

**Connector:**  
USB 3.0 Gen 1, Micro-B

**Power Supply:**  
Power over USB or via GPIO

**GPIOs:**  
4 Programmable TTL GPIOs

**Synchronization:**  
Hardware Trigger (GPIO) or Software Trigger

**Interface Port Orientation:**  
Back Panel

**GPIO Connector Type:**  
7-pin JST

## Threading & Mounting

**Mount:**  
S-Mount (M12 x 0.5)

**Mounting Threads:**  
1/4-20 and M6 with Tripod Mount Adapter [#14-156](#)

## Environmental & Durability Factors

**Operating Temperature (°C):**  
-20 to +65 (housing temperature)

**Storage Temperature (°C):**  
-20 to +85

## Regulatory Compliance

Compliant

RoHS 2015:

[View](#)

Certificate of Conformance:

Compliant

Reach 240:

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## Product Details

- Compact, Low Cost, High Performance Design for Machine Vision and Embedded Applications
- ALVUM® System on Chip (SoC) Technology with Onboard Imaging Preprocessing
- Up to 24.60 MegaPixels, 1.2" Sensor Format
- [Allied Vision Alvium Right Angle USB 3.1 Cameras](#) Also Available

Allied Vision Alvium USB 3.0 Cameras feature a lightweight compact form factor with ALVUM® System on Chip (SoC) technology, offering a comprehensive image processing library for advanced onboard image correction and preprocessing functions to relieve host computer and processor workload. In addition to smart camera operations, the unique SoC design also allows for low power consumption and ease of integration, making them ideal for next generation machine vision, robotics and embedded vision applications. The cameras feature a variety of popular Sony Pregius and On Semi CMOS sensors with high image quality, fast frame rate and USB3 Vision interface standard. The actively aligned lens mount minimizes inconsistency and variation. Allied Vision Alvium USB 3.0 Cameras feature a USB port on the back panel and are available in a variety of monochrome, color, and NIR configurations, including C-Mount, CS-Mount, and S-Mount. Full housing versions are best suited for prototyping, development and end user uses. Partial housing and board level configurations have exposed image sensor PCB without heat sinks to reduce space and facilitate system integration making them ideal for OEM embedded design.

Note: Board level versions do not have a lens mount.

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