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Allied Vision Alvium 1800 U-510m, 1/1.8" 5.1 S-Mount, Right Angle USB 3.1 Color Camera

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SPECIFICATIONS

General

Monochrome Camera

Type:

Allied Vision	Manufacturer:
Alvium Right Angle	Camera Family:
Alvium 1800 U-510m	Model Number:

Physical & Mechanical Properties

29 x 29 x 33 (includes connectors and lens mount)	Dimensions (mm):
65	Weight (g):
Full	Housing:

Sensor

256KB	Image Buffer:
Sony IMX548	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Type of Shutter:
1/1.8"	Camera Sensor Format:
5.10	Resolution (MegaPixels):
2,464 x 2,064	Pixels (H x V):
2.74 x 2.74	Pixel Size, H x V (µm):
6.75 × 5.66	Sensing Area, H x V (mm):
79.00	Frame Rate (fps):
12 Bit	Pixel Depth:
14 µs - 10s	Exposure Time:
+5 to +65	Dynamic Range (dB):
USB3 Vision v1.0, GenICam	Machine Vision Standard:

Electrical

3.0	Power Consumption (W):
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Hardware & Interface Connectivity

USB 3.1 Gen 1	Video Output:
USB 3.1 Gen 1, Micro-B	Connector:
Power over USB or via GPIO	Power Supply:
4 Programmable TTL GPIOs	GPIOs:
Hardware Trigger (GPIO) or Software Trigger	Synchronization:
Back Panel	Interface Port Orientation:
USB3 Vision v1.0, GenICam	GPIO Connector Type:

Threading & Mounting

¼-20 and M6 with Tripod Mount Adapter #14-156	Mounting Threads:
M12 x 0.5 (S-Mount)	Mount:

Environmental & Durability Factors

-20 to +85	Operating Temperature (°C):
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7-pin JST		Storage Temperature (°C):
Regulatory Compliance		
Compliant	RoHS 2015:	
View	Certificate of Conformance:	
Compliant	Reach 240:	

PRODUCT DETAILS

- Right Angle USB Port Orientation
- Compact, Low Cost, High Performance Design for Machine Vision and Embedded Applications
- ALVUM® System on Chip (SoC) Technology with Onboard Imaging Preprocessing
- [Allied Vision Alvium USB 3.1 Cameras](#) Also Available

Allied Vision Alvium Right Angle USB 3.1 Cameras feature ALVUM® System on Chip (SoC) technology and a right-angle USB port in a lightweight compact form factor, offering a comprehensive image processing library for advanced onboard image correction, preprocessing functions to relieve host computer and processor workload, and allow for easy system integration. 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 Right Angle USB 3.1 Cameras feature a 90° right angle USB port 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.