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Allied Vision Alvium 1800 U-500m, 1/2.5" 5.0MP S-Mount, Right Angle USB 3.1 Monochrome Camera (Partial Housing)

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Allied Vision Alvium Camera, Partial Housing, S-Mount, Right Angle IO Port (Front)

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- 1 + ₹29,900

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Product Downloads	
Monochrome	Spectrum:
General	
Monochrome Camera	Type:
	Model Number:

1800 U-500m	
Manufacturer:	Allied Vision
Camera Series:	Alvium Right Angle
Physical & Mechanical Properties	
Dimensions (mm):	25 x 32 x 29 (includes connectors and lens mount)
Weight (g):	45
Housing:	Partial
Sensor	
Image Buffer:	256KB
Sensor Format:	1/2.5"
Resolution (Megapixels):	5.00
Frame Rate (fps):	67.00
Pixels (H x V):	2,592 x 1,944
Pixel Size, H x V (µm):	2.2 x 2.2
Sensing Area, H x V (mm):	5.7 x 4.3
Imaging Sensor:	ON Semi AR0521
Type of Sensor:	Progressive Scan CMOS
Shutter Type:	Rolling
Pixel Depth:	8/10 bit
Exposure Time:	13µs - 849ms
Dynamic Range (dB):	63
Machine Vision Standard:	USB3 Vision v1.0, GenICam
Electrical	
Power Consumption (W):	2.2
Hardware & Interface Connectivity	
Interface:	USB 3.1 Gen 1
Connector:	USB 3.1 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 (Right Angle)
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):	+5 to +65
Storage Temperature (°C):	-10 to +70

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:
Germany	Country of Origin:
Edmund Optics India Private Limited	Imported By:

Product Details

- Right Angle USB Port Orientation
- Compact, Low Cost, High Performance Design for Machine Vision and Embedded Applications
- ALVIUM® 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 ALVIUM® 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.