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

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Allied Vision Alvium USB 3.1 Cameras



Stock **#26-354** **3 In Stock**

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1

+

C\$812^{.00}

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Monochrome		Spectrum:
General		
Monochrome Camera		Type:
1800 U-510m		Model Number:
		Manufacturer:

Allied Vision	
Alvium	Camera Series:
Physical & Mechanical Properties	
	Dimensions (mm): 29 x 29 x 33 (includes connectors and lens mount)
65	Weight (g):
	Housing:
Full	
Sensor	
256KB	Image Buffer:
1/1.8"	Sensor Format:
	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:
CS-Mount	
	Mounting Threads:
¼-20 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	
	RoHS 2015:
Compliant	

View	Certificate of Conformance:
Compliant	Reach 240:

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.

Calibration Services