

Allied Vision Alvium 1800 U-235c, 1/1.2" 2.4 CS-Mount, USB 3.0 Color Camera

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Allied Vision Alvium USB 3.1 Cameras



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C\$1,218⁰⁰

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SPECIFICATIONS

General

Color Camera

Type:

Model Number:

1800 U-235c	
Manufacturer:	Allied Vision
Camera Series:	Alvium
Spectrum:	Color
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:	1/1.2"
Resolution (Megapixels):	2.40
Frame Rate (fps):	155.00
Pixels (H x V):	1,936 x 1,216
Pixel Size, H x V (µm):	5.86 x 5.86
Sensing Area, H x V (mm):	11.3 × 7.1
Imaging Sensor:	Sony IMX174
Type of Sensor:	Progressive Scan CMOS
Shutter Type:	Global
Pixel Depth:	12 bit
Exposure Time:	25µs - 10s
Machine Vision Standard:	USB3 Vision v1.0, GenICam
Electrical	
Power Consumption (W):	2.8
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:	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:

PRODUCT DETAILS

- Compact, Low Cost, High Performance Design for Machine Vision and Embedded Applications
- ALMUM® 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 ALMUM® 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