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Allied Vision Alvium 1800 U-501m NIR, 1/2.5" 5.0MP CS-Mount, USB 3.0 NIR Camera (Partial Housing)

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Allied Vision Alvium USB 3.1 Cameras

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Spectrum:

NIR

General

Type:

NIR Camera

Model Number:
1800 U-501m NIR

Manufacturer:
Allied Vision

Camera Series:
Alvium

Physical & Mechanical Properties

Dimensions (mm):
25 x 29 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):
68.00

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 AR0522

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Rolling

Pixel Depth:
8/10 bit

Exposure Time:
8µs - 0.48s @ 450/375 MBps
13µs - 0.84s @ 200 MBps

Dynamic Range (dB):
62

Machine Vision Standard:
USB3 Vision v1.0, GenICam

Electrical

Power Consumption (W):
2.2

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	
Certificate of Conformance:	
View	
Reach 240:	
Compliant	

Product Details

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