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Allied Vision Alvium Camera (Board Level)

3.0 Color

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Allied Vision Alvium USB 3.1 Cameras



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Product Downloads	
Spec Sheets:pdf	
User Manual:pdf	Software
EO Spec Sheet	

Spectrum: Color

General

Type: Color Camera

Model Number: 1800 U-291c

Manufacturer: Allied Vision

Camera Series: Alvium

Physical & Mechanical Properties

Dimensions (mm): 38 x 29 x 29 (includes connectors and lens mount)

Weight (g): 50

Housing: Board Level

Sensor

Image Buffer: 256KB

Sensor Format: 2/3"

Resolution (Megapixels): 2.91

Frame Rate (fps): 144.00

Pixels (H x V): 1,944 x 1,472

Pixel Size, H x V (µm): 4.5 x 4.5

Sensing Area, H x V (mm): 8.8 x 6.6

Imaging Sensor: Sony IMX421

Type of Sensor: Progressive Scan CMOS

Shutter Type: Global

Pixel Depth: 8/10/12 Bit

Exposure Time: 16µs - 10s

Machine Vision Standard: USB3 Vision v1.0, GenICam

Electrical

Power Consumption: 4.00

(W):

Hardware & Interface Connectivity

Interface: USB 3.0 Gen 1

Connector: USB 3.0 Gen 1

Power Supply: Power over USB or via GPIO

Synchronization: Hardware Trigger (GPIO) or Software Trigger

Orientation:

GPIO Connector Type: 7-pin JST

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Threading & Mounting

Mount: No Lens Mount

Mounting Threads: ¼-20 and M6 with Tripod Mount Adapter [#14-156](#)

Environmental & Durability Factors

Operating Temperature (°C): -20 to +85 (mainboard 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.

Accessories

Note: Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

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MORE+	5mm Spacer to convert CS-Mount Cameras to C-Mount		#03-618	€29,00 Request Quote	20+ In Stock <input type="text" value="1"/>

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MORE+	Type-A to Micro-B, USB Cable, 8m				17 In Stock <input type="text" value="1"/>
MORE+	JST 7-pin Cable without Lock, 0.4m Length				CONTACT US <input type="text" value="1"/>
MORE+	JST 7-pin Cable with Screw Lock, 5m Length		#14-155	€29,00 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	M6 and 1/4-20 Mounting Plate for Alvium		#14-156	€18,00 Request Quote	20+ In Stock <input type="text" value="1"/>

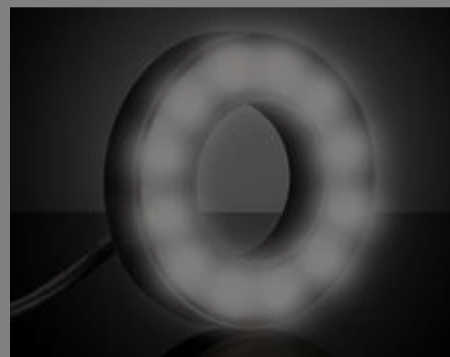
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Related Products



Imaging Lenses



Machine Vision Lighting

Imaging Lens Selector

Imaging

- Factory Automation
- Telecentric
- M12

- Custom Sensor
- Camera Model

Camera Model:

Number of Horizontal Pixels:

1

Number of Vertical Pixels:

2

Pixel Size (µm):

3

Working Distance (mm):

4

Horizontal Field of View (mm):

5

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Disclaimer: Values represent theoretical values from lens design software. Actual lens performance varies due to manufacturing tolerances.

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