

Allied Vision Alvium 1800 U-050c, 1/3.6" 0.5MP S-Mount, USB 3.0 Color Camera

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Allied Vision Alvium Camera, Full Housing S-Mount (Front)



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Spec Sheets:pdf	Software
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Spectrum: Color

General

Type: Color Camera	Model Number: 1800 U-050c
Manufacturer: Allied Vision	Camera Series: Alvium

Physical & Mechanical Properties

Dimensions (mm): 33 x 29 x 29 (includes connectors and lens mount)	Weight (g): 60
Housing: Full	

Sensor

Image Buffer: 256KB	Sensor Format: 1/3.6"
Resolution (Megapixels): 0.50	Frame Rate (fps): 115.00
Pixels (H x V): 808 x 608	Pixel Size, H x V (µm): 4.8 x 4.8
Sensing Area, H x V (mm): 3.9 x 2.9	Imaging Sensor: ON Semi PYTHON 480
Type of Sensor: Progressive Scan CMOS	Shutter Type: Global
Pixel Depth: 8/10 bit	Exposure Time: 64µs - 10s
Machine Vision Standard: USB3 Vision v1.0, GenICam	

Electrical

Power Consumption (W): 1.5	
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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:	S-Mount (M12 x 0.5)	Mounting Threads:	¼-20 and M6 with Tripod Mount Adapter #14-156
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Environmental & Durability Factors

Operating Temperature (°C):	-20 to +65 (housing temperature)	Storage Temperature (°C):	-20 to +85
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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+	JST 7-pin Cable without Screw Lock, 0.4m Length		#14-154	C\$50.40 Request Quote	5 In Stock <input type="text" value="1"/>
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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



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

Calibration Services

PixelTraq Camera Calibration Services Quote Tool

Edmund Optics has partnered with Quartus Engineering to provide their **PixelTraq camera calibration service** for new orders of TechSpec imaging lenses and machine vision camera pairs. You will receive a fully assembled, focused, and calibrated imaging assembly along with calibration files and certification.

Use the tool below to explore camera calibration service options and pricing.

Please enter your required specifications here:

Camera

Imaging Lens

Calibration Color ⓘ

Camera Model Output ⓘ

Working Distance (m)

Aperture (f/#) ⓘ

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C\$70.70

Qty



#47-369 - 25mm Dia. x 75mm FL, VIS 0° Coated, Double-Convex Lens
C\$70.70

Qty



#57-907 - 3.6mm FL, Red Series M12 Lens
C\$159.60

Qty



#57-908 - 4.4mm FL, Red Series M12 Lens
C\$159.60

Qty

Resources

Media Type

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APPLICATION NOTE

Sensor Performance and Limitations

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