

Allied Vision Alvium 1800 U-1240m, 1/1.7" 12.22MP C-Mount, USB 3.0 Monochrome Camera

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Allied Vision Alvium Camera, Full Housing (Front)



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€454⁰⁰

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SPECIFICATIONS

General

Type:

Monochrome Camera	
1800 U-1240m	Model Number:
Allied Vision	
Manufacturer:	
Alvium	Camera Series:
Monochrome	
Spectrum:	
Physical & Mechanical Properties	
Dimensions (mm):	
38 x 29 x 29 (includes connectors and lens mount)	
Weight (g):	
60	
Housing:	
Full	
Sensor	
Image Buffer:	
256KB	
Sensor Format:	
1/1.7"	
Resolution (Megapixels):	
12.22	
Frame Rate (fps):	
29.00	
Pixels (H x V):	
4,024 x 3,036	
Pixel Size, H x V (µm):	
1.85 x 1.85	
Sensing Area, H x V (mm):	
7.4 x 5.6	
Imaging Sensor:	
Sony IMX226	
Type of Sensor:	
Progressive Scan CMOS	
Shutter Type:	
Rolling	
Pixel Depth:	
8/10 bit	
Exposure Time:	
177µs - 10s	
Dynamic Range (dB):	
65	
Machine Vision Standard:	
USB3 Vision v1.0, GenICam	
Electrical	
Power Consumption (W):	
3.1	
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:	
C-Mbunt	
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	
RoHS 2015:	Compliant
Certificate of Conformance:	View
Reach 240:	Compliant

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.