# Allied Vision Alvium 1800 U-2050m, 1" 20.2MP C-Mount, Right Angle USB 3.1 Monochrome Camera

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Allied Vision Alvium Camera, Full Housing, Right Angle IO Port (Front)

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**Spectrum:**
Monochrome

## General

**Type:**
Monochrome Camera

**Model Number:**
1800 U-2050m

**Manufacturer:**
Allied Vision

**Camera Series:**
Alvium Right Angle

## Physical & Mechanical Properties

**Dimensions (mm):**
38 x 32 x 29 (includes connectors and lens mount)

**Weight (g):**
65

**Housing:**
Full

## Sensor

**Image Buffer:**
256KB

**Sensor Format:**
1"

**Resolution (Megapixels):**
20.20

**Frame Rate (fps):**
17.00

**Pixels (H x V):**
5,496 x 3,672

**Pixel Size, H x V (µm):**
2.4 x 2.4

**Sensing Area, H x V (mm):**
13.1 x 8.8

**Imaging Sensor:**
Sony IMX183

**Type of Sensor:**
Progressive Scan CMOS

**Shutter Type:**
Rolling

**Pixel Depth:**
8/10 bit

**Exposure Time:**
17µs - 10s

**Dynamic Range (dB):**
65

**Machine Vision Standard:**
USB3 Vision v1.0, GenICam

## Electrical

**Power Consumption (W):**
3.2

## Hardware & Interface Connectivity

**Interface:**
USB 3.1 Gen 1

**Connector:**
USB 3.1 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 (Right Angle)

**GPIO Connector Type:**
7-pin JST

## Threading & Mounting

**Mount:**
C-Mount

**Mounting Threads:**
¼-20 and M6 with Tripod Mount Adapter **#14-156**

## Environmental & Durability Factors

**Operating Temperature (°C):**
+5 to +65

**Storage Temperature (°C):**

-10 to +70

## Regulatory Compliance

| | |
|---|---|
| **RoHS 2015:** | Compliant |
| **Certificate of Conformance:** | View |
| **Reach 240:** | Compliant |

# Product Details

- Right Angle USB Port Orientation
- Compact, Low Cost, High Performance Design for Machine Vision and Embedded Applications
- ALVIUM® System on Chip (SoC) Technology with Onboard Imaging Preprocessing
- **Allied Vision Alvium USB 3.1 Cameras** Also Available

Allied Vision Alvium Right Angle USB 3.1 Cameras feature ALVIUM® System on Chip (SoC) technology and a right-angle USB port in a lightweight compact form factor, offering a comprehensive image processing library for advanced onboard image correction, preprocessing functions to relieve host computer and processor workload, and allow for easy system integration. 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 Right Angle USB 3.1 Cameras feature a 90° right angle USB port 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