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# Allied Vision Alvium G5-510m, 1/1.8" 5.1MP CS-Mount, 5GigE PoE Monochrome Camera

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## Product Downloads

**Spectrum:**  
Monochrome

## General

**Type:**  
Monochrome Camera

**Model Number:**  
Alvium G5-510m

Allied Vision **Manufacturer:**

Avium G5 **Camera Series:**

## Physical & Mechanical Properties

55 × 29 × 29 **Dimensions (mm):**

95 **Weight (g):**

Full **Housing:**

## Sensor

512KB **Image Buffer:**

1/1.8" **Sensor Format:**

5.10 **Resolution (Megapixels):**

81.00 **Frame Rate (fps):**

2,464 x 2,064 **Pixels (H x V):**

2.74 x 2.74 **Pixel Size, H x V (µm):**

6.75 x 5.66 **Sensing Area, H x V (mm):**

Sony IMX548 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

14 µs to 10 s **Exposure Time:**

Not Specified **Dynamic Range (dB):**

GigE Vision V2.2, GenICam V2.0 **Machine Vision Standard:**

## Electrical

External power: 6.2 W at 12 VDC | Power over Ethernet: 6.9 W **Power Consumption (W):**

## Hardware & Interface Connectivity

5GigE (PoE) **Interface:**

5GigE, RJ45 with Screw Locks **Connector:**

PoE, 12 to 24 VDC via GPIO, or with external power supply #23-581 **Power Supply:**

1 opto-isolated input, 1 opto-isolated output, 2 non-isolated GPIOs **GPIOs:**

Hardware Trigger (GPIO) or Software Trigger **Synchronization:**

Back Panel **Interface Port Orientation:**

10-pin TFM **GPIO Connector Type:**

## Threading & Mounting

CS-Mount **Mount:**

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

## Environmental & Durability Factors

+5 to +60 **Operating Temperature (°C):**

**Storage Temperature (°C):**

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## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

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[Compliant](#) **Reach 240:**

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## Product Details

- 4.2 Times More Bandwidth than GigE
- Up to 24.6MP Resolution with Framerates up to 691 FPS
- Onboard Image Processing and Expansive Feature Sets

Allied Vision Avium G5 5GigE PoE Cameras feature a lightweight, compact form factor and combines the advantages of the established 5GigE Vision standard with the flexibility of the Avium platform. Powered by ALMUM® Technology, the sugar cube style camera delivers high image quality at a low power consumption. These cameras feature the latest industrial standard hardware and can easily be integrated into any USB3 Vision or GigE Vision system while ensuring long-term availability and reliability. With precision sensor alignment, enhanced cleanliness, fixed pattern noise correction, and defect pixel correction, resolutions up to 24.6MP and framerates up to 691 FPS are available. Allied Vision Avium G5 5GigE PoE Cameras feature a gigabit ethernet port on the back panel and are available in a variety of monochrome and color options with either C-Mount or S-Mount lens interfaces all in the compact sugar cube format.

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