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# Allied Vision Alvium G1-510m, 1/1.8" 5.1MP C-Mount, GigE PoE Monochrome Camera

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## Product Downloads

Monochrome **Spectrum:**

## General

Monochrome Camera **Type:**

Alvium G1-510m **Model Number:**

Allied Vision **Manufacturer:**

Avium G1

Camera Series:

## Physical & Mechanical Properties

41 x 29 x 29 **Dimensions (mm):**

65 **Weight (g):**

Full **Housing:**

## Sensor

32MB **Image Buffer:**

1/1.8" **Sensor Format:**

5.10 **Resolution (Megapixels):**

22.00 **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 5.65 **Sensing Area, H x V (mm):**

Sony IMX548 **Imaging Sensor:**

Progressive Scan CMOS **Type of Sensor:**

Global **Shutter Type:**

12 bit **Pixel Depth:**

31µs - 6.6s **Exposure Time:**

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

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

## Electrical

External power: 3.2 W at 12 VDC (typical) | Power over Ethernet: 3.6 W (typical) **Power Consumption (W):**

## Hardware & Interface Connectivity

GigE (PoE) **Interface:**

GigE, 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

C-Mount **Mount:**

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

## Environmental & Durability Factors

-20 to +50 **Operating Temperature (°C):**

-20 to +85 **Storage Temperature (°C):**

## Regulatory Compliance

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

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

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

## Product Details

- Up to 24.6MP Resolution with Framrates up to 276FPS
- Robust Industrial GigE Vision Interface with PoE
- Onboard Image Processing and Expansive Feature Sets
- Alvium G5 and [Allied Vision Alvium USB 3.1 Cameras](#) Also Available

Allied Vision Alvium G1 GigE PoE Cameras feature a lightweight, compact form factor and combines the advantages of the established GigE Vision standard with the flexibility of the Alvium platform. The ALVUM® System on Chip (SoC) technology offers a comprehensive image processing library for advanced onboard image correction and preprocessing functions to relieve host computer and processor workload. These cameras feature the latest industrial standard hardware and can easily be integrated into any 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 276 FPS are available. Allied Vision Alvium G1 GigE 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.

## Calibration Services