

# Allied Vision Alvium G1-1242c, 1/1.1" 12.4MP C-Mount, GigE PoE Color Camera

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**Note:** This item requires accessories for use | [Learn More](#)

**Spectrum:** Color

## General

<b>Type:</b> Color Camera	<b>Model Number:</b> Alvium G1-1242c
<b>Manufacturer:</b> Allied Vision	<b>Camera Series:</b> Alvium G1

## Physical & Mechanical Properties

<b>Dimensions (mm):</b> 41 x 29 x 29	<b>Weight (g):</b> 65
<b>Housing:</b> Full	

## Sensor

<b>Image Buffer:</b> 32MB	<b>Sensor Format:</b> 1/1.1"
<b>Resolution (Megapixels):</b> 12.40	<b>Frame Rate (fps):</b> 9.30
<b>Pixels (H x V):</b> 4,128 x 3,008	<b>Pixel Size, H x V (µm):</b> 2.74 x 2.74
<b>Sensing Area, H x V (mm):</b> 11.3 x 8.2	<b>Imaging Sensor:</b> Sony IMX545
<b>Type of Sensor:</b> Progressive Scan CMOS	<b>Shutter Type:</b> Global
<b>Pixel Depth:</b> 12 bit	<b>Exposure Time:</b> 72µs - 10s
<b>Dynamic Range (dB):</b> Not Specified	<b>Machine Vision Standard:</b> GigE Vision V2.2, GenICam V2.0

## Electrical

**Power Consumption (W):** External power: 3.8 W at 12 VDC | Power over Ethernet: 4.0 W

## Hardware & Interface Connectivity

**Interface:** GigE (PoE)

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

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

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

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

**Interface Port Orientation:** Back Panel

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

## Threading & Mounting

**Mount:** C-Mount

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

## Environmental & Durability Factors

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

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

## Regulatory Compliance

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

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

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

## Product Details

- Up to 24.6MP Resolution with Framerates 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 ALVIUM® 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.

## Accessories

**Note:** Compatible accessories for individual stock numbers may vary. If unsure about which accessories work with your products, please contact us [here](#).

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	Power Over Ethernet (PoE) Single Port injector		<a href="#">#68-469</a>	<b>£53.00</b> <a href="#">Request Quote</a>	<b>2 In Stock</b> <input type="text" value="1"/>
<a href="#">MORE+</a>	Allied Vision Cat6 1G/5GigE Locking Cable, 3m		<a href="#">#23-575</a>	<b>£16.00</b> <a href="#">Request Quote</a>	<b>9 In Stock</b> <input type="text" value="1"/>

	Title	Compare	Stock Number	Price	Buy
<a href="#">MORE+</a>	Allied Vision Cat6 1G/5GigE Locking Cable, 5m		#23-576	£24.00 <a href="#">Request Quote</a>	5 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Allied Vision Cat6 1G/5GigE Locking Cable, 10m		#23-577	£40.00 <a href="#">Request Quote</a>	4 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Allied Vision Alvium G1/G5 GPIO Cable, 3m		#23-578	£28.00 <a href="#">Request Quote</a>	10 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Allied Vision Alvium G1/G5 GPIO Cable, 5m		#23-579	£32.00 <a href="#">Request Quote</a>	3 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Allied Vision Alvium G1/G5 GPIO Cable, 10m		#23-580	£50.00 <a href="#">Request Quote</a>	2 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Allied Vision Alvium G1/G5 Power Supply		#23-581	£73.00 <a href="#">Request Quote</a>	3 In Stock <input type="text" value="1"/>
<a href="#">MORE+</a>	Allied Vision Alvium G1/G5 Heatsink, Set of 2		#23-643	£37.00 <a href="#">Request Quote</a>	<a href="#">CONTACT US</a> <input type="text" value="1"/>

## Related Products



Allied Vision Alvium USB 3.0 Cameras



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.**

## Frequently Purchased Together



#14-156 - M6 and 1/4-20 Mounting Plate for Alvium  
£14.00

Qty



#23-581 - Allied Vision Alvium G1/G5 Power Supply  
£73.00

Qty



#26-346 - Allied Vision Alvium G5-1242c, 1/1.1" 12.4MP CS-Mount, 5GigE PoE Color Camera  
£1,392.00

Qty

## Resources

### Media Type

- Glossary
- Technical Tool
- Application Note
- Video
- Published Article
- FAQ

GLOSSARY

Image Capture Board (Frame Grabber)

TECHNICAL TOOL

Imaging System Parameter Calculator

TECHNICAL TOOL

Imaging Lens Selector

APPLICATION NOTE

What is Imagina?

VIDEO

Edmund Optics Imaging Lab 1.1: Field of...

VIDEO

Edmund Optics Imaging Lab 1.2: Working...



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