

Two industrial components, possibly sensors or actuators, are shown from a side-on perspective. They have a red and black color scheme and a cylindrical opening in the center. The components are positioned side-by-side, with their reflections visible on the surface below them.



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General

Alvium G5-1242c	Model Number:
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Allied Vision	Manufacturer:
Avium G5	Camera Series:

Physical & Mechanical Properties

60 × 29 × 29	Dimensions (mm):
95	Weight (g):
Full	Housing:

Sensor

512KB	Image Buffer:
1/1.7"	Sensor Format:
12.40	Resolution (Megapixels):
39.00	Frame Rate (fps):
4,024 x 3,036	Pixels (H x V):
2.74 x 2.74	Pixel Size, H x V (µm):
7.4 × 5.6	Sensing Area, H x V (mm):
Sony IMX545	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
12 bit	Pixel Depth:
19 µs to 10 s	Exposure Time:
Not Specified	Dynamic Range (dB):
GigE Vision V2.2, GenICam V2.0	Machine Vision Standard:

Electrical

External power: 6.5 W at 12 VDC Power over Ethernet: 7.1 W	Power Consumption (W):
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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

C-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):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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 VSION standard with the flexibility of the Avium platform. Powered by ALVUM® 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 VSION or GigE VSION 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.