

Alvium G1-2040m	Model Number:
Allied Vision	Manufacturer:
Alvium G1	Camera Series:

Physical & Mechanical Properties

41 x 29 x 29	Dimensions (mm):
65	Weight (g):
Full	Housing:

Sensor

32MB	Image Buffer:
1.1"	Sensor Format:
20.40	Resolution (Megapixels):
5.80	Frame Rate (fps):
4,512 x 4,512	Pixels (H x V):
2.74 x 2.74	Pixel Size, H x V (µm):
12.36 x 12.36	Sensing Area, H x V (mm):
Sony IMX541	Imaging Sensor:
Progressive Scan CMOS	Type of Sensor:
Global	Shutter Type:
12 bit	Pixel Depth:
78µs - 10s	Exposure Time:
Not Specified	Dynamic Range (dB):
GigE Vision V2.2, GenICam V2.0	Machine Vision Standard:

Electrical

External power: 3.8 W at 12 VDC Power over Ethernet: 4.2 W	Power Consumption (W):
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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

	Operating Temperature (°C):
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-20 to +50	
	Storage Temperature (°C):
-20 to +85	

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

Product Details

- Up to 24.6MP Resolution with Framerrates 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.