Allied Vision Alvium G5-1242m, 1/1.1" 12.4MP C-Mount, 5GigE PoE Monochrome Camera

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SPECIFICATIONS

General

Type:

Monochrome Camera

Model Number:
Alvium G5-1242m

Manufacturer:
Allied Vision

Camera Series:
Alvium G5

Spectrum:
Monochrome

Physical & Mechanical Properties

Dimensions (mm):
60 × 29 × 29

Weight (g):
95

Housing:
Full

Sensor

Image Buffer:
512KB

Sensor Format:
1/1.7"

Resolution (Megapixels):
12.40

Frame Rate (fps):
39.00

Pixels (H x V):
4,024 x 3,036

Pixel Size, H x V (µm):
2.74 x 2.74

Sensing Area, H x V (mm):
7.4 × 5.6

Imaging Sensor:
Sony IMX545

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
12 bit

Exposure Time:
19 µs to 10 s

Dynamic Range (dB):
Not Specified

Machine Vision Standard:
GigE Vision V1.2, GenICam V2.0

Electrical

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

Hardware & Interface Connectivity

Interface:
5GigE (PoE)

Connector:
5GigE, 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):	+5 to +60
Storage Temperature (°C):	-20 to +85

Regulatory Compliance

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

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 Alvium 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 Alvium platform. Powered by ALVIUM® 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 Alvium 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.