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Allied Vision Alvium G1-240m, 1/2.3" 2.4MP C-Mount, GigE PoE Monochrome Camera

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Spectrum:

Monochrome

General

Type:

Monochrome Camera

Model Number:

Alvium G1-240m

Manufacturer:
Allied Vision

Camera Series:
Alvium G1

Physical & Mechanical Properties

Dimensions (mm):
41 x 29 x 29

Weight (g):
65

Housing:
Full

Sensor

Image Buffer:
32MB

Sensor Format:
1/2.3"

Resolution (Megapixels):
2.40

Frame Rate (fps):
49.00

Pixels (H x V):
1,936 x 1,216

Pixel Size, H x V (µm):
3.45 x 3.45

Sensing Area, H x V (mm):
6.7 x 4.2

Imaging Sensor:
Sony IMX392

Type of Sensor:
Progressive Scan CMOS

Shutter Type:
Global

Pixel Depth:
8/10/12 Bit

Exposure Time:
46µs - 10s

Dynamic Range (dB):
Not Specified

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

Electrical

Power Consumption (W):
External power: 3.6 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.

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