



# Alvium G1

## Alvium G1-321

Alvium G1-321 innovative GigE camera with Sony IMX900 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

### General

Model	Alvium G1-321
Product series	Alvium G1
Status	Available

### Sensor

Sensor type	Area scan
Chroma	Mono or Color
Spectral range	300 nm to 1100 nm
Resolution	2,064 × 1,552 (3.20 MP)
Sensor model	Sony IMX900
Shutter type(s)	Global Shutter
Sensor size	4.6 × 3.5 mm (5.8 mm, Type 1/3.1)
Pixel size	2.25 μm × 2.25 μm

### Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-bit
YUV pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB pixel formats	BGR8, RGB8 (default)
Bayer pixel formats	BayerRG12

### Timing and gain

Max. frame rate	36 fps
Exposure time	9 μs to 10 s
Gain	0.0 dB to 48.0 dB

## I/Os and power

Non-isolated lines	2 GPIOs (LVTTTL)
Opto-isolated lines	1 input, 1 output
Power supply	10.8 to 26.4 VDC AUX   IEEE 802.3af, Power Class 0 PoE
Power consumption	External power: 2.7 W at 12 VDC (typical)   Power over Ethernet: 3.0 W (typical)

## Operating conditions

Operating temperature (housing)	-20 °C to 65 °C ((housing))
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## Mechanical properties

Body dimensions (L x W x H in mm)	41 × 29 × 29
Lens mount(s)	C-Mount, CS-Mount, S-Mount
Weight	70 g

## On-board memory and FPGA

Image buffer (RAM)	32 MByte
Non-volatile memory (Flash)	1024 KByte

## Interfaces

Digital interface	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)
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Technical Drawing

