![Allied Vision logo]

Alvium G1
Alvium G1-131

Alvium G1-131 innovative GigE camera with e2v EV76C560 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model:	Alvium G1-131
Product series:	Alvium G1
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Spectral range:	300 nm to 1100 nm
Resolution:	1,280 × 1,024 (1.30 MP)
Sensor model:	Teledyne e2v EV76C560
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	9 mm ø (Type 1/1.8)
Pixel size:	5.30 µm × 5.30 µm

Pixel formats

Sensor bit depth:	10-bit
Monochrome pixel formats:	Mono8, Mono10, Mono10p, Mono12, Mono12p, Mono12Packed
YUV pixel formats:	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr

Pixel formats

RGB pixel formats:	RGB8 (default), BGR8
Bayer pixel formats:	BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed

Timing and gain

Max. frame rate:	60 fps

I/Os and power

Non-isolated lines:	2 GPIOs (LVTTL)
Opto-isolated lines:	1 input, 1 output
Power supply:	10.8 to 26.4 VDC AUX or IEEE 802.3af, Power Class 0 PoE
Power consumption:	External power: 2.2 W (typical)	Power over Ethernet: 2.5 W (typical)

Operating conditions

Operating temperature (housing):	-20 °C to 65 °C (housing)

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)

Quantum Efficiency

Specifications Image

41.3

13 ±0.1

20 ±0.1

M3 - 2.5 (2x)

□29.35 +0.20 -0.05

□24 ±0.1

M2 - 2 (4x)

C-Mount (1x32 TPI-UNS-2B)

7.9

Ø27.8 +0.3 -0.1

M2 (4x)

4.9   8.2

20

16.8

13 ±0.1

20 ±0.1

M3 - 2.5 (2x)