



Alvium G5

Alvium G5-2040

Alvium G5-2040 innovative 5GBASE-T camera with Sony IMX541 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

General

Model	Alvium G5-2040
Product series	Alvium G5
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	4,512 × 4,512 (20.40 MP)
Sensor model	Sony IMX541
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	12.4 × 12.4 mm (17.5 mm, Type 1.1)
Pixel size	2.74 µm × 2.74 µm

Pixel formats

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

Imaging performance

Quantum efficiency @ 529 nm	68 %
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Timing and gain

Max. frame rate	25 fps
Exposure time	11 μ s 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: 6.9 W at 12 VDC (typical) Power over Ethernet: 7.6 (typical)

Operating conditions

Operating temperature (housing)	-20 °C to 55 °C (housing temperature)
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Mechanical properties

Body dimensions (L x W x H in mm)	60 × 29 × 29
Lens mount(s)	C-Mount, CS-Mount
Weight	100 g

On-board memory and FPGA

Image buffer (RAM)	512 MByte
Non-volatile memory (Flash)	1024 KByte

Interfaces

Digital interface	IEEE 802.3: 5GBASE-T or 2.5GBASE-T (NBASE-T) and 1000BASE-T, IEEE 802.3af Power Class 0 PoE
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Quantum Efficiency



Technical Drawing

