

Alvium G5

Alvium G5-1242



Alvium G5-1242 innovative 5GBASE-T camera with Sony IMX545 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

General

| | |
|-----------------|----------------|
| Model: | Alvium G5-1242 |
| Product series: | Alvium G5 |
| Status: | Available |

Sensor

| | |
|---------------------------------|--------------------------|
| Sensor type: | Area scan |
| Chroma: | Mono or Color |
| Spectrum: | Visible |
| Spectral range: | 300 nm to 1100 nm |
| Resolution: | 4,128 × 3,008 (12.40 MP) |
| Sensor model: | Sony IMX545 |
| Sensor architecture (material): | CMOS |
| Shutter type(s): | Global Shutter |
| Sensor size: | 14 mm ø (Type 1/1.1) |
| Pixel size: | 2.74 µm × 2.74 µm |

Pixel formats

| | |
|---------------------------|---|
| Sensor bit depth: | 12-bit |
| Monochrome pixel formats: | Mono8, Mono10, Mono10p, Mono12, Mono12p, Mono12Packed |
| YUV pixel formats: | YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr |
| RGB pixel formats: | RGB8 (default), BGR8 |

Pixel formats

Bayer pixel formats:

BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed

Imaging performance

Quantum efficiency @ 529 nm: 68 %

Timing and gain

Max. frame rate: 41

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: 6.5 W at 12 VDC (typical) | Power over Ethernet: 7.1 W (typical)

Operating conditions

Operating temperature (housing): -20 °C to 60 °C housing temperature

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

Quantum Efficiency



