

Alvium G1

Alvium G1-2040



Alvium G1-2040 innovative GigE camera with Sony IMX541 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

General

| | |
|-----------------|----------------|
| Model: | Alvium G1-2040 |
| 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: | 4,512 × 4,512 (20.40 MP) |
| Sensor model: | Sony IMX541 |
| Sensor architecture (material): | CMOS |
| Shutter type(s): | Global Shutter |
| Sensor size: | 17.6 mm ø (Type 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:

5

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: 3.8 W at 12 VDC (typical) | Power over Ethernet: 4.2 (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

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



Technical Drawing

