

# Alvium G5

Alvium G5-811



Alvium G5-811 innovative 5GBASE-T camera with Sony IMX546 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

## General

|                 |               |
|-----------------|---------------|
| Model:          | Alvium G5-811 |
| 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:                     | 2,848 × 2,848 (8.10 MP) |
| Sensor model:                   | Sony IMX546             |
| Sensor architecture (material): | CMOS                    |
| Shutter type(s):                | Global Shutter          |
| Sensor size:                    | 12.75 mm ø (Type 2/3)   |
| 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: 59

## 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



