

# Alvium G5

Alvium G5-052



Alvium G5-052 innovative 5GBASE-T camera with Sony IMX426 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

## General

Model:	Alvium G5-052
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:	816 × 624 (0.50 MP)
Sensor model:	Sony IMX426
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	9.33 mm ø (Type 1/1.7)
Pixel size:	9.00 µm × 9.00 µm

## Pixel formats

Sensor bit depth:	8-bit, 10-bit, 12-bit; Adaptive (10-bit, 12-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

## Imaging performance

Quantum efficiency @ 529 nm: 73 %

## Timing and gain

Max. frame rate: 688 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 | IEEE 802.3af, Power Class 0 PoE

Power consumption: External power: 6.6 W at 12 VDC (typical) | Power over Ethernet: 7.2 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



