



Alvium G5

Alvium G5-320 VSWIR

Alvium G5-320 VSWIR innovative 5GBASE-T camera with global shutter Sony IMX993 SenSWIR InGaAs sensor enables short wave infrared (SWIR) imaging with industrial performance for various machine vision applications.

General

Model	Alvium G5-320 VSWIR
Product series	Alvium G5
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR, Visible SWIR
Spectral range	400 nm to 1700 nm
Resolution	2,080 × 1,544 (3.20 MP)
Sensor model	Sony IMX993 InGaAs
Sensor architecture (material)	InGaAs
Shutter type(s)	Global Shutter
Sensor size	9 mm ø (Type 1/1.8)
Pixel size	3.45 µm × 3.45 µm

Pixel formats

Sensor bit depth	8-bit, 10-bit, 12-bit; Adaptive (10-bit, 12-bit)
Monochrome pixel formats	Mono8 (default), Mono10, Mono10p, Mono12, Mono12p, Mono12Packed

Timing and gain

Max. frame rate	131 fps
-----------------	---------

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: 6.0 W at 12 VDC (typical) Power over Ethernet: 6.4 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



Technical Drawing

