

Alvium 1800 U

Alvium 1800 U-530 VSWIR



Alvium 1800 U-530 VSWIR innovative USB camera with Sony IMX992 SenSWIR InGaAs global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model:	Alvium 1800 U-530 VSWIR
Product series:	Alvium 1800 U
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono
Spectrum:	SWIR, Visible SWIR
Spectral range:	400 nm to 1700 nm
Resolution:	2,592 × 2,056 (5.30 MP)
Sensor model:	Sony IMX992 InGaAs
Sensor architecture (material):	InGaAs
Shutter type(s):	Global Shutter
Sensor size:	11.4 mm ø (Type 1/1.4)
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

Timing and gain

Max. frame rate: 77 fps

I/Os and power

Non-isolated lines: 4 programmable GPIOs

Power supply: Power over USB 3.1 Gen 1 | External power 5.0 V

Power consumption: USB power: 2.9 W (typical) | External power: 2.9 W (typical)

Operating conditions

Operating temperature (housing): -20 °C to 65 °C (housing)

Mechanical properties

Body dimensions (L x W x H in mm): 38 × 29 × 29

Lens mount(s): C-Mount, CS-Mount

Weight: 65 g

On-board memory and FPGA

Image buffer (RAM): 256 KByte

Non-volatile memory (Flash): 1024 KByte

Interfaces

Digital interface: usb3.0

Vision standard: USB3 Vision

Quantum Efficiency



