

Alvium 1800 U

Alvium 1800 U-812 UV



Alvium 1800 U-812 UV innovative USB camera with Sony IMX487 global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model:	Alvium 1800 U-812 UV
Product series:	Alvium 1800 U
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono
Spectrum:	UV
Spectral range:	200 nm to 1100 nm
Resolution:	2,848 × 2,848 (8.10 MP)
Sensor model:	Sony IMX487
Sensor architecture (material):	CMOS
Shutter type(s):	Global Shutter
Sensor size:	12.75 mm \varnothing (Type 2/3)
Pixel size:	2.74 μm × 2.74 μm

Pixel formats

Sensor bit depth:	12-bit
Monochrome pixel formats:	Mono8 (default), Mono10, Mono10p, Mono12, Mono12p

Timing and gain

Max. frame rate: 51 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: 3.9 W (typical) | Ext. power: 4.1 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



