



Alvium 1800 U

Alvium 1800 U-192

Alvium 1800 U-192 innovative USB camera with e2v EV76C570 CMOS sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model	Alvium 1800 U-192
Product series	Alvium 1800 U
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	1,600 × 1,200 (1.90 MP)
Sensor model	Teledyne e2v EV76C570
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	7.2 × 5.4 mm (9 mm, Type 1/1.8)
Pixel size	4.50 µm × 4.50 µm

Pixel formats

Sensor bit depth	10-bit
YUV pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB pixel formats	BGR8, RGB8 (default)
Bayer pixel formats	BayerRG12

Timing and gain

Max. frame rate	59 fps
Exposure time	14 µs to 800.00 ms

Timing and gain

Gain	0.0 dB to 12.5 dB
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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: 1.6 W (typical) Ext. power: 1.6 W (typical)

Operating conditions

Operating temperature (housing)	-20 °C to 65 °C ((housing))
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Mechanical properties

Body dimensions (L x W x H in mm)	38 × 29 × 29
Lens mount(s)	C-Mount, CS-Mount, S-Mount
Weight	60 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

 Specifications Image

Technical Drawing

