

Alvium 1800 U

Alvium 1800 U-203



Alvium 1800 U-203 innovative USB camera with Sony IMX422 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model	Alvium 1800 U-203
Product series	Alvium 1800 U
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono or Color
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	1,632 × 1,248 (2.00 MP)
Sensor model	Sony IMX422
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	7.3 × 5.6 mm (9.2 mm, Type 1/1.7)
Pixel size	4.50 µm × 4.50 µm

Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-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	200 fps
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Timing and gain

Exposure time	16 μ s to 10 s
Gain	0.0 dB to 48.0 dB

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: 3.3 W (typical) Ext. power: 3.3 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
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



Technical Drawing

