



Alvium 1800 U

Alvium 1800 U-507

Alvium 1800 U-507 innovative USB camera with Sony IMX264 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model	Alvium 1800 U-507
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	2,464 × 2,056 (5.10 MP)
Sensor model	Sony IMX264
Sensor architecture (material)	CMOS
Shutter type(s)	Global Shutter
Sensor size	12.75 mm ø (Type 2/3)
Pixel size	3.45 µm × 3.45 µm

Pixel formats

Sensor bit depth	12-bit
Monochrome pixel formats	Mono8, Mono10, Mono10p, Mono12, Mono12p
YUV pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB pixel formats	RGB8 (default), BGR8
Bayer pixel formats	BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p

Imaging performance

Quantum efficiency @ 529 nm	64 %
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Timing and gain

Max. frame rate	34 fps
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I/Os and power

Non-isolated lines	4 programmable GPIOs
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Power supply	Power over USB 3.1 Gen 1 External power 5.0 V
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Power consumption	USB power: 2.0 W (typical) Ext. power: 2.2 W (typical)
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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
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Lens mount(s)	C-Mount, CS-Mount
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Weight	60 g
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On-board memory and FPGA

Image buffer (RAM)	256 KByte
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Non-volatile memory (Flash)	1024 KByte
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Interfaces

Digital interface	usb3.0
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Vision standard	USB3 Vision
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Quantum Efficiency



Technical Drawing

