



Alvium 1800 U

Alvium 1800 U-030 VSWIR

Alvium 1800 U-030 VSWIR innovative USB camera with Sony IMX991 SenSWIR InGaAs global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model	Alvium 1800 U-030 VSWIR
Product series	Alvium 1800 U
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	eXtended SWIR, SWIR
Spectral range	400 nm to 1700 nm
Resolution	656 × 520 (0.30 MP)
Sensor model	Sony IMX991 InGaAs
Sensor architecture (material)	cmos-ingaas
Shutter type(s)	Global shutter (GS)
Sensor size	3.3 × 2.6 mm (4.1 mm, Type 1/4)
Pixel size	5.00 µm × 5.00 µm

Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-bit
Monochrome pixel formats	Mono8 (default)

Timing and gain

Max. frame rate	249 fps
Exposure time	15 µs to 10 s
Gain	0.0 dB to 42.0 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: 2.0 W (typical) Ext. power: 2.2 W (typical)

Operating conditions

Operating temperature (housing)	-20 °C to 55 °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	65 g

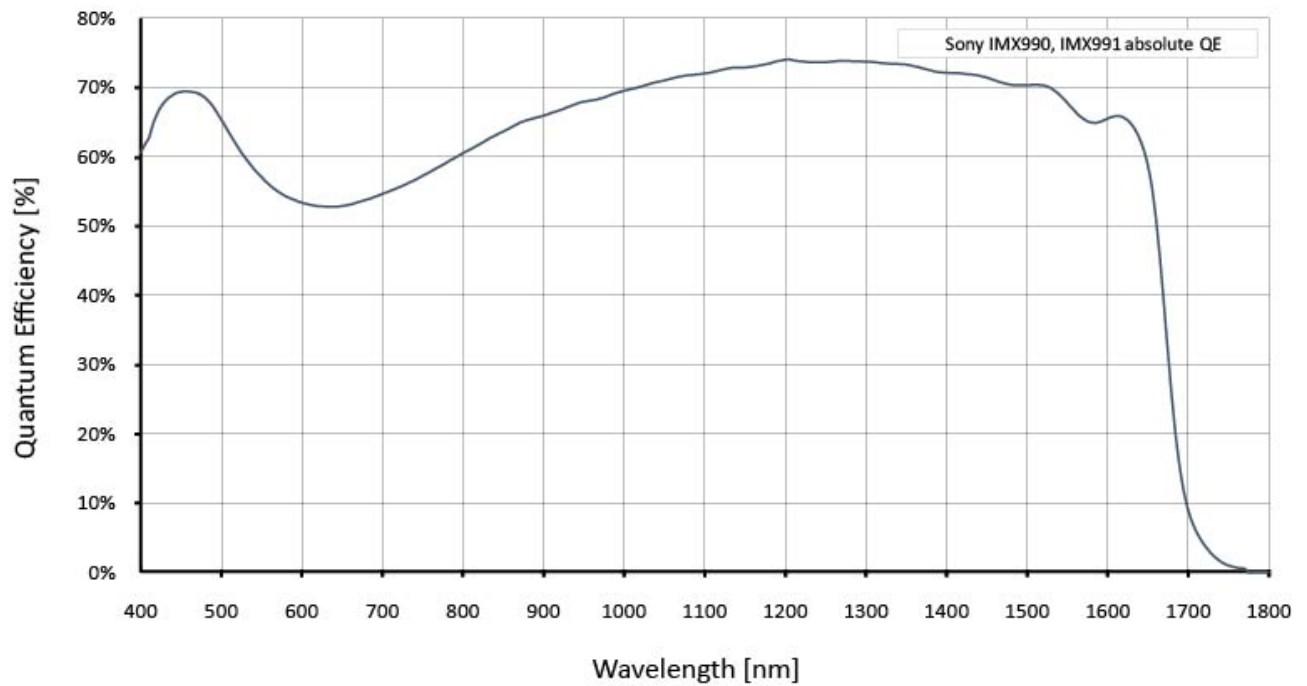
On-board memory and FPGA

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

Interfaces

Digital interface	usb3.0
Vision standard	USB3 Vision

Quantum Efficiency



Technical Drawing

