

# Alvium 1800 C

Alvium 1800 C-320 VSWIR



Alvium 1800 C-320 VSWIR innovative MIPI CSI-2 camera with Sony IMX993 SenSWIR InGaAs global shutter sensor provides industrial performance for cost effective embedded vision applications.

## General

Model:	Alvium 1800 C-320 VSWIR
Product series:	Alvium 1800 C
Status:	Available

## Sensor

Sensor type:	Area scan
Spectrum:	SWIR, Visible SWIR
Spectral range:	400 nm to 1700 nm
Resolution:	2,080 × 1,544 (3.20 MP)
Sensor model:	Sony IMX993   InGaAs
Sensor architecture (material):	InGaAs
Shutter type(s):	Global Shutter
Sensor size:	9 mm $\varnothing$ (Type 1/1.8)
Pixel size:	3.45 $\mu\text{m}$ × 3.45 $\mu\text{m}$

## Pixel formats

Monochrome pixel formats:	GREY, RAW10, RAW12, RAW8, Y10, Y12
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## Timing and gain

Max. frame rate:	131 fps
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## Timing and gain

Exposure time:	33 $\mu$ s to 10 s
Gain:	0.0 dB to 42.0 dB

## I/Os and power

Non-isolated lines:	2 programmable GPIOs
Power supply:	5 VDC over MIPI CSI-2
Power consumption:	Typical: 2.6 W

## 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):	26 x 29 x 29
Lens mount(s):	C-Mount, CS-Mount
Weight:	40 g

## On-board memory and FPGA

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

## Interfaces

Digital interface:	MIPI CSI-2, up to 4 lanes
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# Quantum Efficiency



