

Alvium 1500 C

Alvium 1500 C-501 NIR

Alvium 1500 C-501 NIR innovative MIPI CSI-2 camera with ON Semi AR0522 CMOS rolling shutter sensor provides industrial performance for cost effective embedded applications.

General

Model:	Alvium 1500 C-501 NIR
Product series:	Alvium 1500 C
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible-NIR
Spectral range:	300 nm to 1100 nm
Resolution:	2,592 × 1,944 (5.00 MP)
Sensor model:	ON Semi AR0522
Shutter type(s):	Rolling Shutter
Sensor size:	7.13 mm ø (Type 1/2.5)
Pixel size:	2.20 µm × 2.20 µm

Pixel formats

Monochrome pixel formats:	GREY, RAW10, RAW12, RAW8, Y10, Y12
YUV pixel formats:	UYVY, YUV422 8-bit
RGB pixel formats:	RGB3, RGB888 (default)

Imaging performance

Quantum efficiency @ 529 nm:	84 %
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Timing and gain

Max. frame rate:	68
Exposure time:	8 µs to 480.00 ms
Gain:	0.0 dB to 24.1 dB

I/Os and power

Non-isolated lines:	2 programmable GPIOs
Power supply:	5 VDC over MIPI CSI-2
Power consumption:	Typical: 1.9 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 × 29 × 29
Lens mount(s):	C-Mount, CS-Mount, S-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



