

Alvium 1800 C

Alvium 1800 C-500



Alvium 1800 C-500 innovative MIPI CSI-2 camera with ON Semi AR0521 CMOS rolling shutter sensor provides industrial performance for cost effective embedded applications.

General

Model:	Alvium 1800 C-500
Product series:	Alvium 1800 C
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Spectral range:	300 nm to 1100 nm
Resolution:	2,592 × 1,944 (5.00 MP)
Sensor model:	ON Semi AR0521SR
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, YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit
RGB pixel formats:	BGR8, RGB3, RGB8 (default), RGB888 (default)

Pixel formats

Bayer pixel formats: BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

Imaging performance

Quantum efficiency @ 529 nm: 79 %

Timing and gain

Max. frame rate: 68

Exposure time: 8 μ s to 480.00 ms

Gain: 0.0 dB to 24.0 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)

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

Quantum Efficiency



