



Alvium FP3

Alvium FP3-210

Alvium FP3-210 innovative FPD-Link III camera with ON Semi AR0521 CMOS rolling shutter sensor provides industrial performance for cost effective embedded applications.

General

Model	Alvium FP3-210
Product series	Alvium FP3
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	1,928 × 1,088 (2.10 MP)
Sensor model	ON Semi AR0521SR (HD mode)
Sensor architecture (material)	cmos
Shutter type(s)	Rolling shutter (RS)
Sensor size	4.2 × 2.4 mm (4.9 mm, Type 1/3.6)
Pixel size	2.20 µm × 2.20 µm

Pixel formats

Sensor bit depth	10-bit
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	79 %
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Timing and gain

Max. frame rate	Mainly depends on hardware and register settings.
Exposure time	8 μ s to 10 s
Gain	0.0 dB to 24.1 dB

I/Os and power

Non-isolated lines	2 programmable GPIOs
I/O connector	Coax, STP
Power supply	5 VDC over MIPI CSI-2
Power consumption	Value for the integrated serializer adds to CSI-2 model value.

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)	41 × 29 × 29
Lens mount(s)	C-Mount, CS-Mount, S-Mount
Weight	70 g

On-board memory and FPGA

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

Interfaces

Digital interface	FPD-Link III, based on MIPI CSI-2, up to 4 lanes
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Quantum Efficiency



Technical Drawing

