

Alvium 1500 C

Alvium 1500 C-120

Alvium C-1500-120 innovative MIPI CSI-2 camera with ON Semi AR0135CS CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

General

Model	Alvium 1500 C-120
Product series	Alvium 1500 C
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	1,280 × 960 (1.20 MP)
Sensor model	ON Semi AR0135CS
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	4.8 × 3.6 mm (6 mm, Type 1/3)
Pixel size	3.75 µm × 3.75 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	69 %
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Timing and gain

Max. frame rate	52 fps
Exposure time	57 µs to 8 s

Timing and gain

Gain	0.0 dB to 17.7 dB
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I/Os and power

Non-isolated lines	2 programmable GPIOs
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Power supply	5 VDC over MIPI CSI-2
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Power consumption	Typical: 1.1 W
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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
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Lens mount(s)	C-Mount, CS-Mount, S-Mount
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Weight	40 g
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On-board memory and FPGA

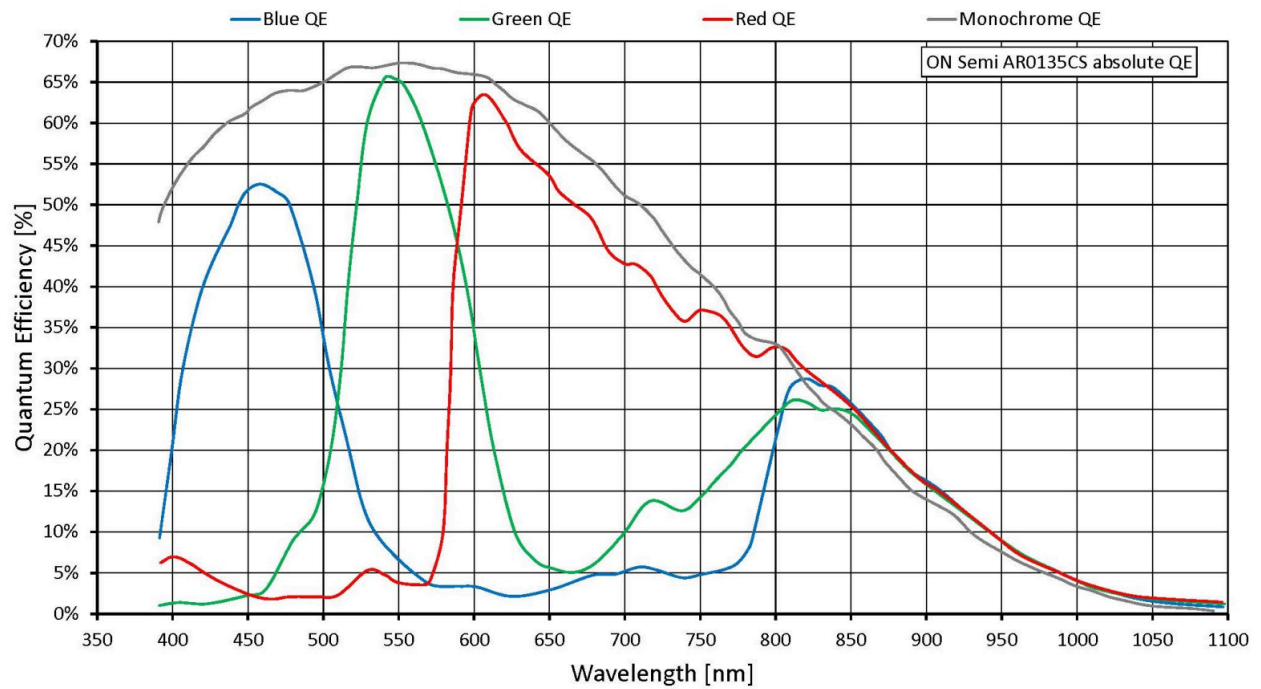
Image buffer (RAM)	256 KByte
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Non-volatile memory (Flash)	1024 KByte
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Interfaces

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



Technical Drawing

