



Alvium C

Alvium 1500 C-050

Alvium 1500 C-050 innovative MIPI CSI-2 camera with ON Semi PYTHON 480 CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

General

Model	Alvium 1500 C-050
Product series	Alvium C
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono or Color
Spectral range	300 nm to 1100 nm
Resolution	800 × 600 (0.50 MP)
Sensor model	ON Semi PYTHON 480
Shutter type(s)	Global Shutter
Sensor size	4.9 mm ø (Type 1/3.6)
Pixel size	4.80 µm × 4.80 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	53 %
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Timing and gain

Max. frame rate	117 fps
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Timing and gain

Exposure time	64 μ s to 10 s
Gain	0.0 dB to 11.3 dB

I/Os and power

Non-isolated lines	2 programmable GPIOs
Power supply	5 VDC over MIPI CSI-2
Power consumption	Typical: 1.3 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

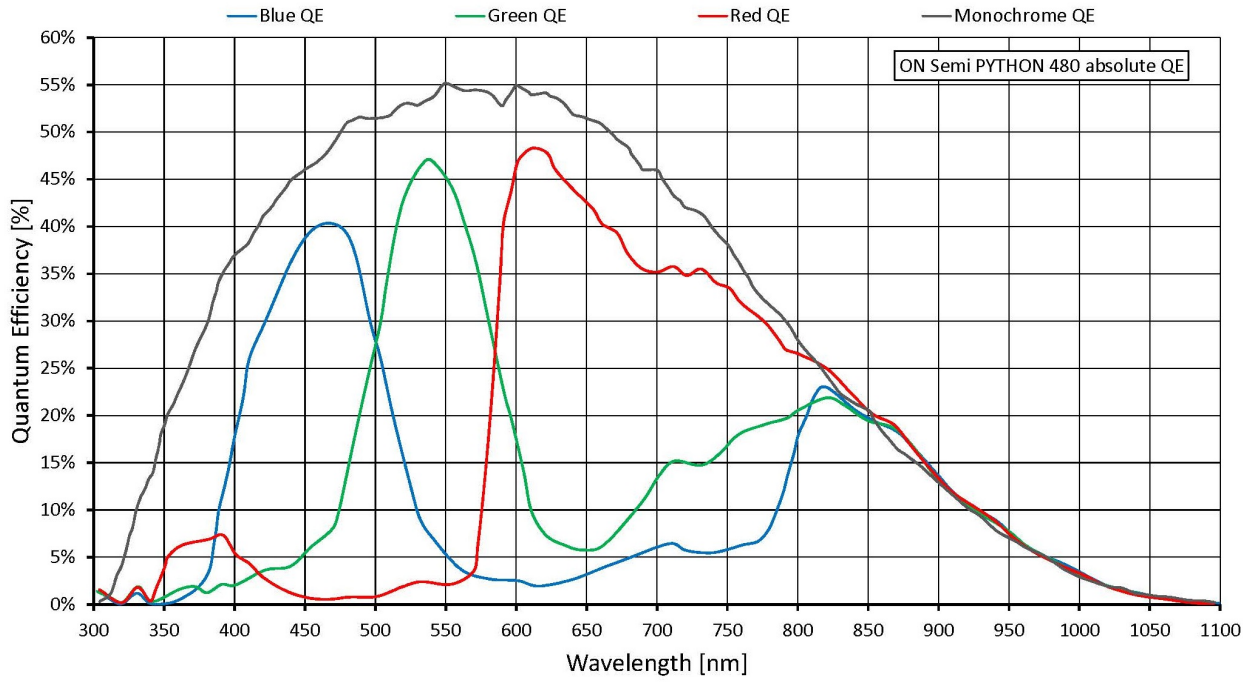
On-board memory and FPGA

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



Technical Drawing

