Allied Vision

Alvium FP3

Alvium FP3-319

Alvium FP3-319 innovative FPD-Link III camera with Sony IMX265 CMOS global shutter sensor provides industrial performance for cost effective embedded vision applications.

General

Model	Alvium FP3-319
Product series	Alvium FP3
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	2,064 × 1,544 (3.20 MP)
Sensor model	Sony IMX265
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	7.1 × 5.3 mm (8.9 mm, Type 1/1.8)
Pixel size	3.45 µm × 3.45 µm

Pixel formats

Sensor bit depth	12-bit
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)
Bayer pixel formats	BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

Imaging performance

Quantum efficiency @ 529 nm	64 %

Timing and gain

Max. frame rate	Mainly depends on hardware and register settings.
Exposure time	26 µs to 10 s
Gain	0.0 dB to 48.0 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))

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

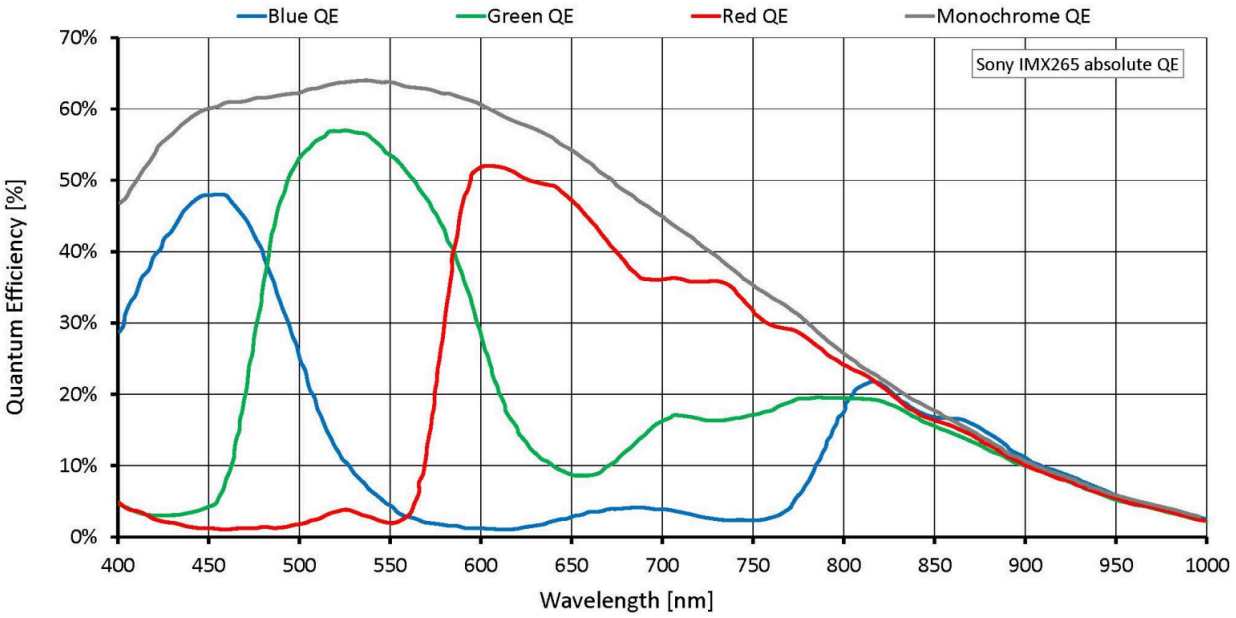
On-board memory and FPGA

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

Interfaces

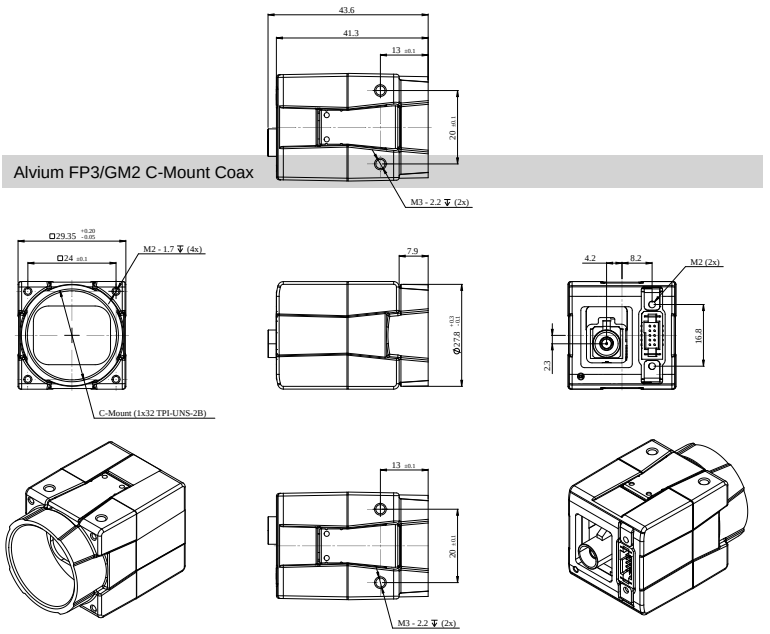
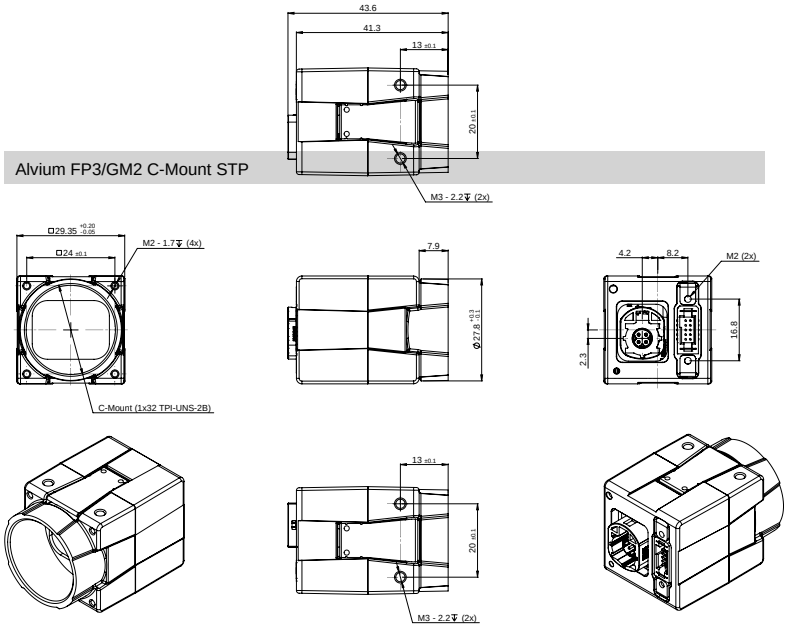
Digital interface	FPD-Link III, based on MIPI CSI-2, up to 4 lanes

Quantum Efficiency



Technical Drawing

Alvium FP3/GM2 C-Mount Coax



Alvium FP3/GM2 C-Mount STP