Allied Vision

Alvium 1800 U

Alvium 1800 U-234



Alvium 1800 U-234 innovative USB camera with Sony IMX249 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model	Alvium 1800 U-234
Product series	Alvium 1800 U
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	1,936 × 1,216 (2.40 MP)
Sensor model	Sony IMX249
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	11.3 × 7.1 mm (13.4 mm, Type 1/1.2)
Pixel size	5.86 µm × 5.86 µm

Pixel formats

Sensor bit depth	10-bit, 12-bit
YUV pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB pixel formats	BGR8, RGB8 (default)
Bayer pixel formats	BayerRG12

Timing and gain

Max. frame rate	40 fps

Timing and gain

Exposure time	34 µs to 10 s
Gain	0.0 dB to 48.0 dB

I/Os and power

Non-isolated lines	4 programmable GPIOs
Power supply	Power over USB 3.1 Gen 1 | External power 5.0 V
Power consumption	USB power: 2.1 W (typical) | Ext. power: 2.3 W (typical)

Operating conditions

Operating temperature	-20 °C to 65 °C (housing)

Mechanical properties

Body dimensions (L x W x H in mm)	38 × 29 × 29
Lens mount(s)	C-Mount, CS-Mount
Weight	65 g

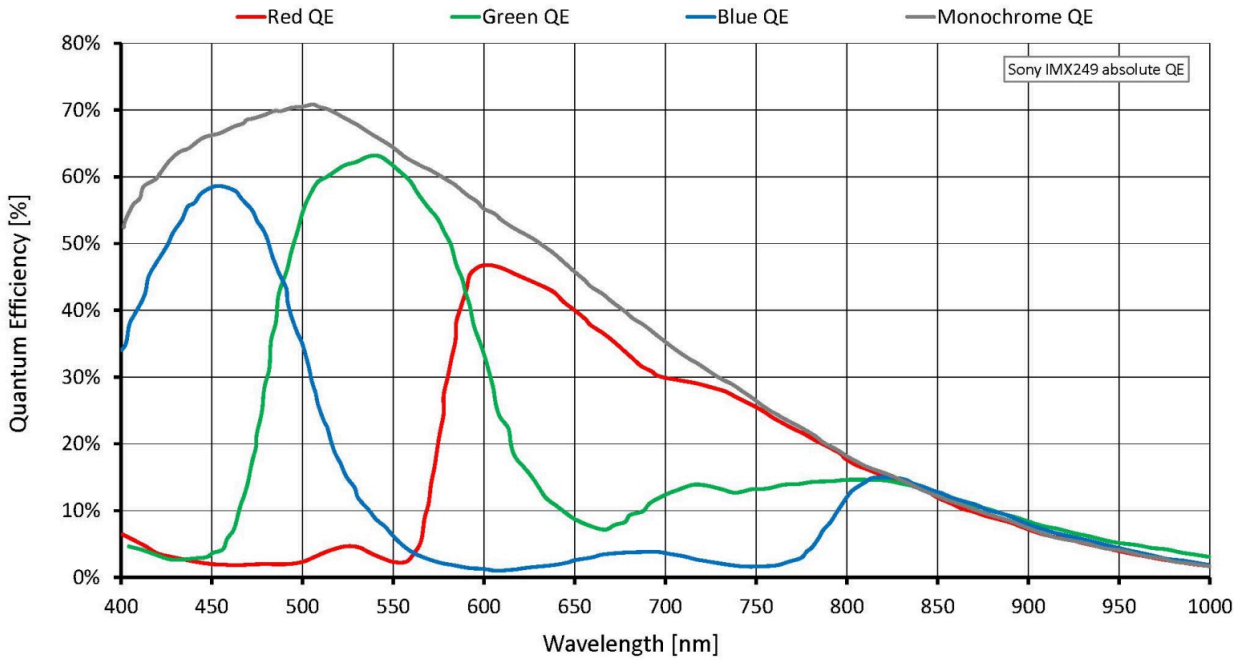
On-board memory and FPGA

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

Interfaces

Digital interface	usb3.0
Vision standard	USB3 Vision

Quantum Efficiency



Technical Drawing

