



# Alvim 1800 U

Alvim 1800 U-158

Alvim 1800 U-158 innovative USB camera with Sony IMX273 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

## General

Model	Alvim 1800 U-158
Product series	Alvim 1800 U
Status	Available

## Sensor

Sensor type	Area scan
Chroma	Mono or Color
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	1,456 × 1,088 (1.60 MP)
Sensor model	Sony IMX273
Sensor architecture (material)	CMOS
Shutter type(s)	Global Shutter
Sensor size	6.3 mm ø (Type 1/2.9)
Pixel size	3.45 µm × 3.45 µm

## Pixel formats

Sensor bit depth	8-bit, 10-bit, 12-bit; Adaptive (10-bit, 12-bit)
Monochrome pixel formats	Mono8, Mono10, Mono10p, Mono12, Mono12p
YUV pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB pixel formats	RGB8 (default), BGR8
Bayer pixel formats	BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p

## Imaging performance

Quantum efficiency @ 529 nm 64 %

## Timing and gain

Max. frame rate 257 fps

## 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: 2.5 W (typical) | Ext. power: 2.6 W (typical)

## Operating conditions

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

## Mechanical properties

Body dimensions (L x W x H in mm) 38 x 29 x 29

Lens mount(s) C-Mount, CS-Mount, S-Mount

Weight 65 g

## On-board memory and FPGA

Image buffer (RAM) 256 KByte

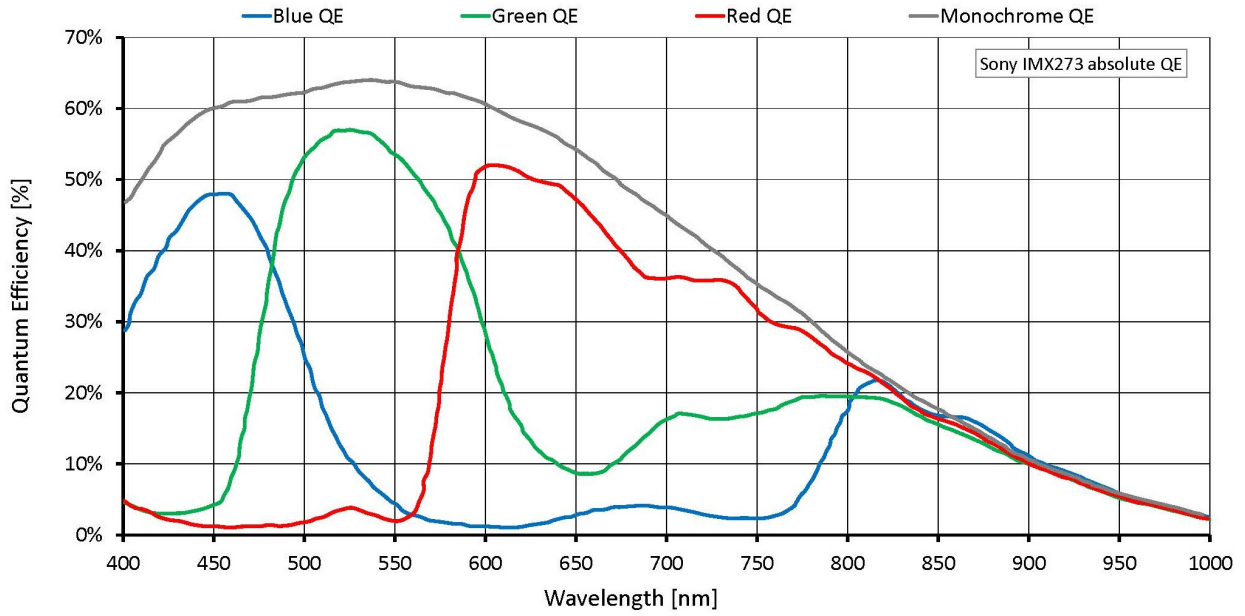
Non-volatile memory (Flash) 1024 KByte

## Interfaces

Digital interface usb3.0

Vision standard USB3 Vision

# Quantum Efficiency



Technical Drawing

