

# Alvium 1800 U

Alvium 1800 U-1240



Alvium 1800 U-1240 innovative USB camera with Sony IMX226 rolling shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

## General

Model:	Alvium 1800 U-1240
Product series:	Alvium 1800 U
Status:	Available

## Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Spectral range:	300 nm to 1100 nm
Resolution:	4,024 × 3,036 (12.20 MP)
Sensor model:	Sony IMX226
Sensor architecture (material):	CMOS
Shutter type(s):	Global Reset Shutter, Rolling Shutter
Sensor size:	9.33 mm ø (Type 1/1.7)
Pixel size:	1.85 µm × 1.85 µm

## Pixel formats

Sensor bit depth:	10-bit
Monochrome pixel formats:	Mono8, Mono10, Mono10p, Mono12, Mono12p
YUV pixel formats:	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr

## Pixel formats

RGB pixel formats: RGB8 (default), BGR8

Bayer pixel formats: BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p

## Imaging performance

Quantum efficiency @ 529 nm: 74 %

## Timing and gain

Max. frame rate: 35 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: 3.1 W (typical) | Ext. power: 3.3 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 × 29 × 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



