

# Alvium 1800 U

Alvium 1800 U-895



Alvium 1800 U-895 innovative USB camera with Sony IMX267 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

## General

|                 |                   |
|-----------------|-------------------|
| Model:          | Alvium 1800 U-895 |
| 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:                     | 4,112 × 2,176 (8.90 MP) |
| Sensor model:                   | Sony IMX267             |
| Sensor architecture (material): | CMOS                    |
| Shutter type(s):                | Global Shutter          |
| Sensor size:                    | 16.3 mm ø (Type 1)      |
| Pixel size:                     | 3.45 µm × 3.45 µm       |

## Pixel formats

|                           |  |
|---------------------------|--|
| Sensor bit depth:         | 12-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

## Timing and gain

Max. frame rate: 31

## 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: 2.8 W (typical) | Ext. power: 2.8 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

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



