

Alvium 1800 C

Alvium 1800 C-158



Alvium 1800 C-158 innovative MIPI CSI-2 camera with Sony IMX273 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

| | |
|-----------------|-------------------|
| Model: | Alvium 1800 C-158 |
| Product series: | Alvium 1800 C |
| 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 |
| 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

| | |
|---------------------------|--|
| 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) |

Pixel formats

Bayer pixel formats: BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

Imaging performance

Quantum efficiency @ 529 nm: 64 %

Timing and gain

Max. frame rate: 262

Exposure time: 28 μ s to 10 s

Gain: 0.0 dB to 48.0 dB

I/Os and power

Non-isolated lines: 2 programmable GPIOs

Power supply: 5 VDC over MIPI CSI-2

Power consumption: Typical: 2.4 W

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm): 26 × 29 × 29

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

Weight: 40 g

On-board memory and FPGA

Image buffer (RAM): 256 KByte

Non-volatile memory (Flash): 1024 KByte

Interfaces

Digital interface: MIPI CSI-2, up to 4 lanes

Quantum Efficiency



