



# Alvium FP3

## Alvium FP3-030 VSWIR

Alvium FP3-030 VSWIR innovative FPD-Link III camera with Sony IMX991 SenSWIR InGaAs global shutter sensor provides industrial performance for cost effective embedded vision applications.

### General

|                 |                      |
|-----------------|----------------------|
| Model:          | Alvium FP3-030 VSWIR |
| Product series: | Alvium FP3           |
| Status:         | Available            |

### Sensor

|                                 |                      |
|---------------------------------|----------------------|
| Sensor type:                    | Area scan            |
| Spectrum:                       | SWIR, Visible SWIR   |
| Spectral range:                 | 400 nm to 1700 nm    |
| Resolution:                     | 656 × 520 (0.30 MP)  |
| Sensor model:                   | Sony IMX991   InGaAs |
| Sensor architecture (material): | InGaAs               |
| Shutter type(s):                | Global Shutter       |
| Sensor size:                    | 4.61 mm ø (Type 1/4) |
| Pixel size:                     | 5.00 µm × 5.00 µm    |

### Pixel formats

|                           |   |
|---------------------------|---|
| Monochrome pixel formats: | GREY, Mono8 (default), RAW10, RAW12, RAW8 (default), Y10, Y12 |
|---------------------------|---|

### Timing and gain

|                  |   |
|------------------|---|
| Max. frame rate: | Mainly depends on hardware and register settings. |
|------------------|---|

## Timing and gain

|                |                    |
|----------------|--------------------|
| Exposure time: | 15 $\mu$ s to 10 s |
| Gain:          | 0.0 dB to 42.0 dB  |

## I/Os and power

|                     |  |
|---------------------|--|
| Non-isolated lines: | 2 programmable GPIOs   |
| I/O connector:      | Coax, STP  |
| Power supply:       | 5 VDC over MIPI CSI-2  |
| Power consumption:  | Value for the integrated serializer adds to CSI-2 model value. |

## Operating conditions

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

## Mechanical properties

|                                    |                            |
|------------------------------------|----------------------------|
| Body dimensions (L x W x H in mm): | 41 × 29 × 29               |
| Lens mount(s):                     | C-Mount, CS-Mount, S-Mount |
| Weight:                            | 70 g                       |

## On-board memory and FPGA

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

## Interfaces

|                    |  |
|--------------------|--|
| Digital interface: | FPD-Link III, based on MIPI CSI-2, up to 4 lanes |
|--------------------|--|

# Quantum Efficiency



Alvium FP3/GM2 C-Mount Coax



Alvium FP3/GM2 C-Mount STP

