

# Alvium 1800 U

Alvium 1800 U-203



Alvium 1800 U-203 innovative USB camera with Sony IMX422 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

## Allgemein

|               |                   |
|---------------|-------------------|
| Modell:       | Alvium 1800 U-203 |
| Produktserie: | Alvium 1800 U     |
| Status:       | Available         |

## Sensor

|                               |                         |
|-------------------------------|-------------------------|
| Sensortyp:                    | Area scan               |
| Chroma:                       | Mono or Color           |
| Spektrum:                     | Visible                 |
| Spektralbereich:              | 300 nm to 1100 nm       |
| Auflösung:                    | 1,632 × 1,248 (2.00 MP) |
| Sensormodell:                 | Sony IMX422             |
| Sensorarchitektur (Material): | CMOS                    |
| Verschluss typ(en):           | Global Shutter          |
| Sensorgröße:                  | 9.33 mm ø (Type 1/1.7)  |
| Pixelgröße:                   | 4.50 µm × 4.50 µm       |

## Pixelformate

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| Sensor-Bittiefe:         | 8-bit, 10-bit, 12-bit; Adaptive (10-bit, 12-bit)     |
| Monochrome Pixelformate: | Mono8, Mono10, Mono10p, Mono12, Mono12p              |
| YUV-Pixelformate:        | YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr |

## Pixelformate

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| RGB-Pixelformate:   | RGB8 (default), BGR8                                   |
| Bayer-Pixelformate: | BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p |

## Timing und Verstärkung

|                |         |
|----------------|---------|
| Max. Bildrate: | 200 fps |
|----------------|---------|

## I/Os und Stromversorgung

|                            |                                                          |
|----------------------------|----------------------------------------------------------|
| Nicht-isolierte Leitungen: | 4 programmable GPIOs                                     |
| Stromversorgung:           | Power over USB 3.1 Gen 1   External power 5.0 V          |
| Stromverbrauch:            | USB power: 3.3 W (typical)   Ext. power: 3.3 W (typical) |

## Betriebsbedingungen

|                               |                           |
|-------------------------------|---------------------------|
| Betriebstemperatur (Gehäuse): | -20 °C to 65 °C (housing) |
|-------------------------------|---------------------------|

## Mechanische Eigenschaften

|                                       |                   |
|---------------------------------------|-------------------|
| Gehäuseabmessungen (L x B x H in mm): | 38 × 29 × 29      |
| Objektivanschluss/-anschlüsse:        | C-Mount, CS-Mount |
| Gewicht:                              | 65 g              |

## Onboard-Speicher und FPGA

|                                   |            |
|-----------------------------------|------------|
| Bildpuffer (RAM):                 | 256 KByte  |
| Nichtflüchtiger Speicher (Flash): | 1024 KByte |

## Schnittstellen

|                         |             |
|-------------------------|-------------|
| Digitale Schnittstelle: | usb3.0      |
| Vision-Standard:        | USB3 Vision |

# Quanteneffizienz



