

# Alvium G5

Alvium G5-291



Alvium G5-291 innovative 5GBASE-T camera with Sony IMX421 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

## Allgemein

|               |               |
|---------------|---------------|
| Modell:       | Alvium G5-291 |
| Produktserie: | Alvium G5     |
| Status:       | Available     |

## Sensor

|                               |                         |
|-------------------------------|-------------------------|
| Sensortyp:                    | Area scan               |
| Chroma:                       | Mono or Color           |
| Spektrum:                     | Visible                 |
| Spektralbereich:              | 300 nm to 1100 nm       |
| Auflösung:                    | 1,944 × 1,472 (2.90 MP) |
| Sensormodell:                 | Sony IMX421             |
| Sensorarchitektur (Material): | CMOS                    |
| Verschlusstyp(en):            | Global Shutter          |
| Sensorgröße:                  | 12.75 mm Ø (Type 2/3)   |
| 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, Mono12Packed |
| YUV-Pixelformate:        | YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr  |

## Pixelformate

|                     |                                                                         |
|---------------------|-------------------------------------------------------------------------|
| RGB-Pixelformate:   | RGB8 (default), BGR8                                                    |
| Bayer-Pixelformate: | BayerRG8, BayerRG10, BayerRG10p, BayerRG12, BayerRG12p, BayerRG12Packed |

## Bildgebungsleistung

|                            |      |
|----------------------------|------|
| Quanteneffizienz @ 529 nm: | 73 % |
|----------------------------|------|

## Timing und Verstärkung

|                |     |
|----------------|-----|
| Max. Bildrate: | 166 |
|----------------|-----|

## I/Os und Stromversorgung

|                              |                                                                                  |
|------------------------------|----------------------------------------------------------------------------------|
| Nicht-isolierte Leitungen:   | 2 GPIOs (LVTTL)                                                                  |
| Optisch isolierte Leitungen: | 1 input, 1 output                                                                |
| Stromversorgung:             | 10.8 to 26.4 VDC AUX   IEEE 802.3af, Power Class 0 PoE                           |
| Stromverbrauch:              | External power: 6.6 W at 12 VDC (typical)   Power over Ethernet: 7.2 W (typical) |

## Betriebsbedingungen

|                               |                                     |
|-------------------------------|-------------------------------------|
| Betriebstemperatur (Gehäuse): | -20 °C to 60 °C housing temperature |
|-------------------------------|-------------------------------------|

## Mechanische Eigenschaften

|                                       |                   |
|---------------------------------------|-------------------|
| Gehäuseabmessungen (L x B x H in mm): | 60 × 29 × 29      |
| Objektivanschluss/-anschlüsse:        | C-Mount, CS-Mount |
| Gewicht:                              | 100 g             |

## Onboard-Speicher und FPGA

|                                   |            |
|-----------------------------------|------------|
| Bildpuffer (RAM):                 | 512 MByte  |
| Nichtflüchtiger Speicher (Flash): | 1024 KByte |

## Schnittstellen

|                         |                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------|
| Digitale Schnittstelle: | IEEE 802.3: 5GBASE-T or 2.5GBASE-T (NBASE-T) and 1000BASE-T, IEEE 802.3af Power Class 0 PoE |
|-------------------------|---------------------------------------------------------------------------------------------|

# Quanteneffizienz



