

# Alvium GM2

Alvium GM2-1236



Alvium GM2-1236 innovative GMSL2 camera with Sony IMX304 CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

## Allgemein

|               |                 |
|---------------|-----------------|
| Modell:       | Alvium GM2-1236 |
| Produktserie: | Alvium GM2      |
| Status:       | Available       |

## Sensor

|                               |                          |
|-------------------------------|--------------------------|
| Sensortyp:                    | Area scan                |
| Chroma:                       | Mono or Color            |
| Spektrum:                     | Visible                  |
| Spektralbereich:              | 300 nm to 1100 nm        |
| Auflösung:                    | 4,112 × 3,008 (12.40 MP) |
| Sensormodell:                 | Sony IMX304              |
| Sensorarchitektur (Material): | CMOS                     |
| Verschlusstyp(en):            | Global Shutter           |
| Sensorgröße:                  | 17.60 mm ø (Type 1.1)    |
| Pixelgröße:                   | 3.45 µm × 3.45 µm        |

## Pixelformate

|                          |                                                                             |
|--------------------------|-----------------------------------------------------------------------------|
| Sensor-Bittiefe:         | 12-bit                                                                      |
| Monochrome Pixelformate: | Mono8, Mono10, Mono10p, Mono12, Mono12p, RAW8, RAW10, RAW12, GREY, Y10, Y12 |
| YUV-Pixelformate:        | YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit, UYVY    |

## Pixelformate

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| RGB-Pixelformate:   | RGB8 (default), BGR8, RGB888 (default), RGB3           |
| Bayer-Pixelformate: | BayerGR8, BayerGR10, BayerGR10p, BayerGR12, BayerGR12p |

## Bildgebungsleistung

|                            |      |
|----------------------------|------|
| Quanteneffizienz @ 529 nm: | 64 % |
|----------------------------|------|

## I/Os und Stromversorgung

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| Nicht-isolierte Leitungen: | 2 programmable GPIOs                                           |
| I/O-Anschluss:             | Coax, STP                                                      |
| Stromversorgung:           | 5 VDC over MIPI CSI-2                                          |
| Stromverbrauch:            | Value for the integrated serializer adds to CSI-2 model value. |

## Betriebsbedingungen

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

## Mechanische Eigenschaften

|                                       |              |
|---------------------------------------|--------------|
| Gehäuseabmessungen (L x B x H in mm): | 41 × 29 × 29 |
| Objektivanschluss/-anschlüsse:        | C-Mount      |
| Gewicht:                              | 70 g         |

## Onboard-Speicher und FPGA

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

## Schnittstellen

|                         |                                           |
|-------------------------|-------------------------------------------|
| Digitale Schnittstelle: | GMSL2, based on MIPI CSI-2, up to 4 lanes |
|-------------------------|-------------------------------------------|



