



# Alvium GM2

Alvium GM2-508

Alvium GM2-508 innovative GMSL2 camera with Sony IMX250 CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

## Allgemein

|              |                |
|--------------|----------------|
| Modell       | Alvium GM2-508 |
| Produktserie | Alvium GM2     |
| Status       | Available      |

## Sensor

|                              |                         |
|------------------------------|-------------------------|
| Sensortyp                    | Area scan               |
| Chroma                       | Mono or Color           |
| Spektrum                     | Visible                 |
| Spektralbereich              | 300 nm to 1100 nm       |
| Auflösung                    | 2,464 × 2,056 (5.10 MP) |
| Sensormodell                 | Sony IMX250             |
| Sensorarchitektur (Material) | CMOS                    |
| Verschlusstyp(en)            | Global Shutter          |
| Sensorgröße                  | 12.75 mm ø (Type 2/3)   |
| Pixelgröße                   | 3.45 µm × 3.45 µm       |

## Pixelformate

|                         |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|
| Sensor-Bittiefe         | 8-bit, 10-bit, 12-bit; Adaptive (10-bit, 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    |
| RGB-Pixelformate        | RGB8 (default), BGR8, RGB888 (default), RGB3                                |
| Bayer-Pixelformate      | BayerGR8, BayerGR10, BayerGR10p, BayerGR12, BayerGR12p                      |

## Bildgebungsleistung

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

## Timing und Verstärkung

|               |                                                   |
|---------------|---------------------------------------------------|
| Max. Bildrate | Mainly depends on hardware and register settings. |
|---------------|---------------------------------------------------|

## 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, CS-Mount |
| Gewicht                              | 70 g              |

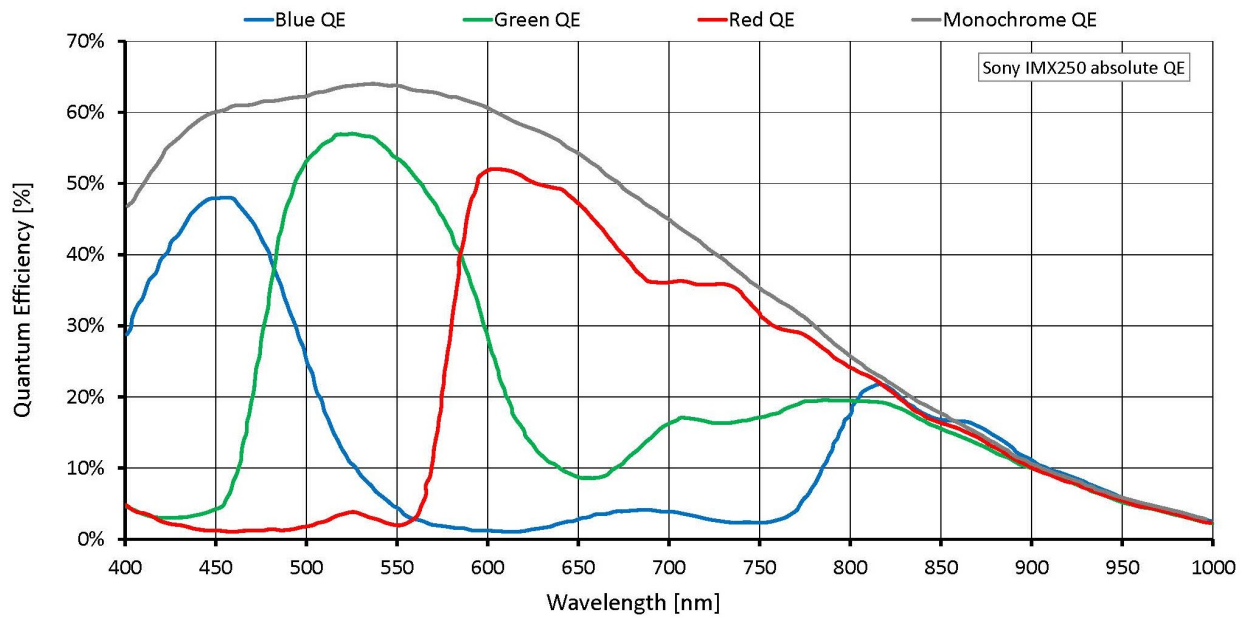
## Onboard-Speicher und FPGA

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

## Schnittstellen

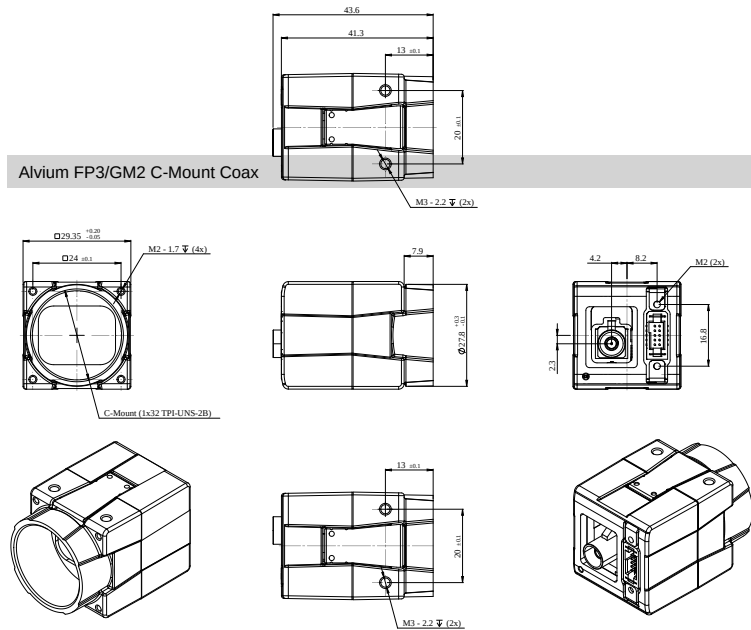
|                        |                                           |
|------------------------|-------------------------------------------|
| Digitale Schnittstelle | GMSL2, based on MIPI CSI-2, up to 4 lanes |
|------------------------|-------------------------------------------|

## Quanteneffizienz



# Technische Zeichnung

Alvium FP3/GM2 C-Mount Coax



Alvium FP3/GM2 C-Mount STP

