Allied Vision

# Alvium C

## Alvium 1500 C-501 NIR



Alvium 1500 C-501 NIR innovative MIPI CSI-2 camera with ON Semi AR0522 CMOS rolling shutter sensor provides industrial performance for cost effective embedded applications.

## Allgemein

| | |
|---|---|
| Modell | Alvium 1500 C-501 NIR |
| Produktserie | Alvium C |
| Status | Available |

## Sensor

| | |
|---|---|
| Sensortyp | Area scan |
| Chroma | Color, Mono |
| Spektrum | Visible NIR |
| Spektralbereich | 300 nm to 1100 nm |
| Auflösung | 2,592 × 1,944 (5.00 MP) |
| Sensormodell | ON Semi AR0522 |
| Sensorarchitektur (Material) | cmos |
| Verschlusstyp(en) | Rolling shutter (RS) |
| Sensorgröße | 5.7 × 4.3 mm (7.1 mm, Type 1/2.5) |
| Pixelgröße | 2.20 µm × 2.20 µm |

## Pixelformate

| | |
|---|---|
| Sensor-Bittiefe | 10-bit |
| Monochrome Pixelformate | GREY, RAW10, RAW12, RAW8, Y10, Y12 |
| YUV-Pixelformate | UYVY, YUV422 8-bit |
| RGB-Pixelformate | RGB3, RGB888 (default) |

## Bildgebungsleistung

| | |
|---|---|
| Quanteneffizienz @ 529 nm | 84 % |

## Timing und Verstärkung

| | |
|---|---|
| Max. Bildrate | 68 fps |
| Belichtungszeit | 8 µs to 480.00 ms |
| Verstärkung | 0.0 dB to 24.1 dB |

## I/Os und Stromversorgung

| | |
|---|---|
| Nicht-isolierte Leitungen | 2 programmable GPIOs |
| Stromversorgung | 5 VDC over MIPI CSI-2 |
| Stromverbrauch | Typical: 1.9 W |

## Betriebsbedingungen

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

## Mechanische Eigenschaften

| | |
|---|---|
| Gehäuseabmessungen (L x B x H in mm) | 26 × 29 × 29 |
| Objektivanschluss/-anschlüsse | C-Mount, CS-Mount, S-Mount |
| Gewicht | 40 g |

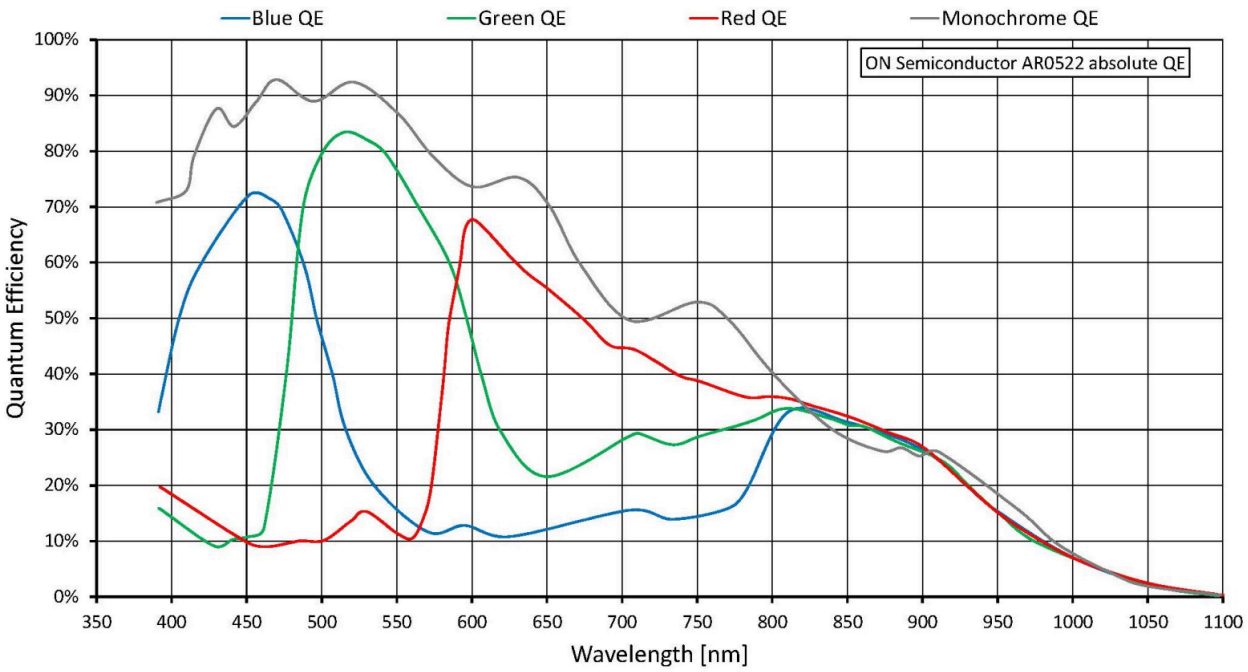
## Onboard-Speicher und FPGA

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

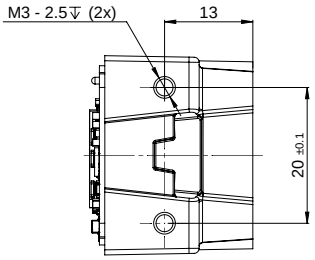
## Schnittstellen

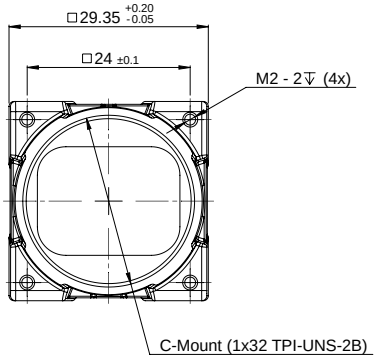
| | |
|---|---|
| Digitale Schnittstelle | MIPI CSI-2, up to 4 lanes |

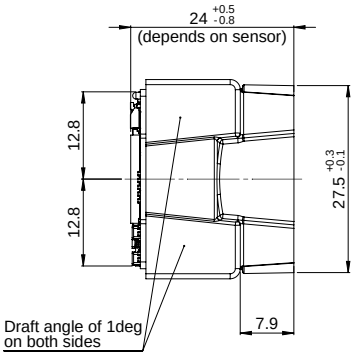
## Quanteneffizienz

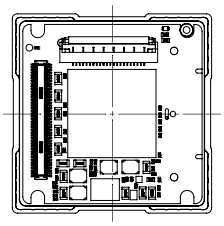


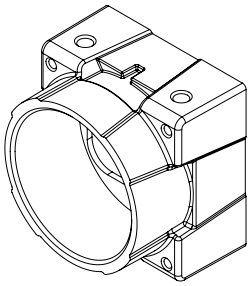
# Technische Zeichnung

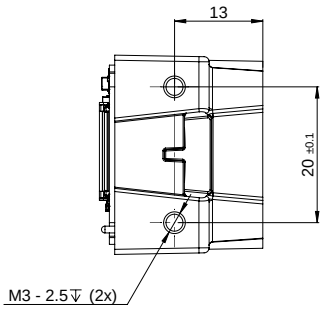


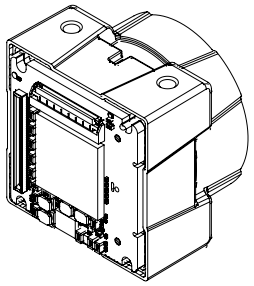







Allied Vision