Allied Vision

# FXO SWIR

fxo992MCX

## Allgemein

| | |
|---|---|
| Modell | fxo992MCX |
| Produktcode | F002339 |
| Produktserie | FXO SWIR |
| Status | Available |

## Sensor

| | |
|---|---|
| Sensortyp | Area scan |
| Chroma | Mono |
| Spektrum | SWIR, Visible SWIR |
| Spektralbereich | 400 nm to 1700 nm |
| Auflösung | 2,560 × 2,048 (5.20 MP) |
| Sensormodell | Sony IMX992 \| InGaAs |
| Sensorarchitektur (Material) | cmos |
| Verschlusstyp(en) | Global shutter (GS) |
| Sensorgröße | 8.83 × 7.07 mm (11.31 mm, Type 1/1.4) |
| Pixelgröße | 3.45 µm × 3.45 µm |

## Pixelformate

| | |
|---|---|
| Sensor-Bittiefe | 10-bit, 12-bit, 8-bit |
| Monochrome Pixelformate | mono10, mono12, mono8 |

## Timing und Verstärkung

| | |
|---|---|
| Max. Bildrate | 132.6 fps |
| Verstärkung | 0.0 dB to 42.0 dB |

## I/Os und Stromversorgung

| | |
|---|---|
| Nicht-isolierte Leitungen | 0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 4 x Open drain output, |
| Spezifische nicht-isolierte Leitungen | 1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output, |
| Optisch isolierte Leitungen | 1 x Optical isolated input, 0 x Optical isolated input, |

## I/Os und Stromversorgung

| | |
|---|---|
| I/O-Anschluss | 12-pin Hirose HR10A-10P-12S |
| Stromversorgung | 10 to 25VDC |
| Stromverbrauch | External: 7 W (typical) |

## Betriebsbedingungen

| | |
|---|---|
| Betriebstemperatur | -10 °C to 60 °C (Gehäuse) |
| Humidity | 10 % to 90 % (non-condensing) |

## Mechanische Eigenschaften

| | |
|---|---|
| Gehäuseabmessungen (L x B x H in mm) | 70 × 50 × 50 |
| IP-Klasse | IP30 |
| Objektivanschluss/-anschlüsse | C-Mount |
| Gewicht | 240 g |

## Onboard-Speicher und FPGA

| | |
|---|---|
| Nichtflüchtiger Speicher (Flash) | 32000 MByte |

## Schnittstellen

| | |
|---|---|
| Digitale Schnittstelle | cxp-12 with 1 connection |
| Schnittstellenanschluss | (micro-BNC) |
| Vision-Standard | CoaXPress 2.0 |

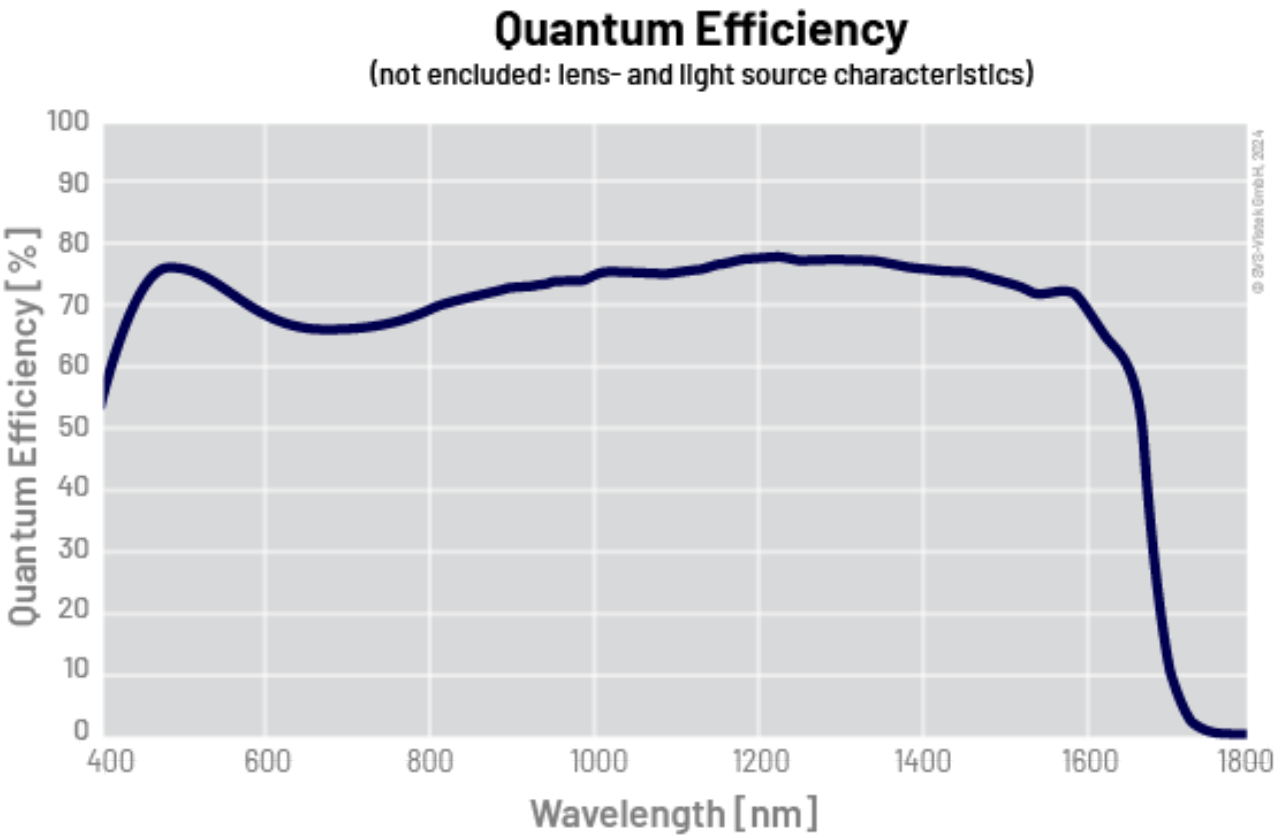
## FW-Funktionen – Bildsteuerung

| | |
|---|---|
| Belichtungsmodi | auto, manual |
| Verstärkungsmodi | auto, manual |
| Bildsteuerungsfunktionen | dopo, dpc, ffc, lut, mirror-image, nuc, roi |

## FW-Funktionen – Kamerasteuerung

| | |
|---|---|
| Triggermodi/Synchronisation | external, internal, software |

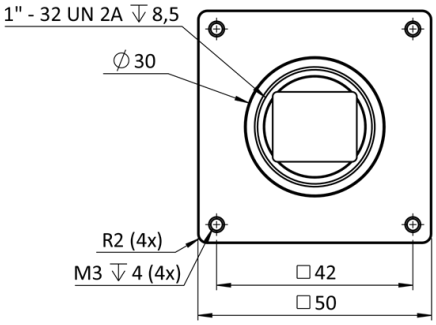
## Quanteneffizienz



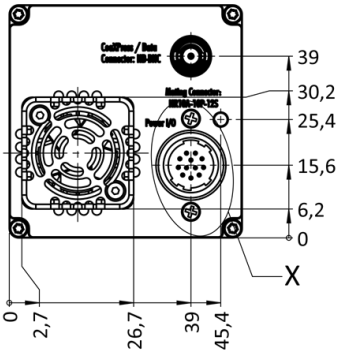
Allied Vision

## Technische Zeichnung

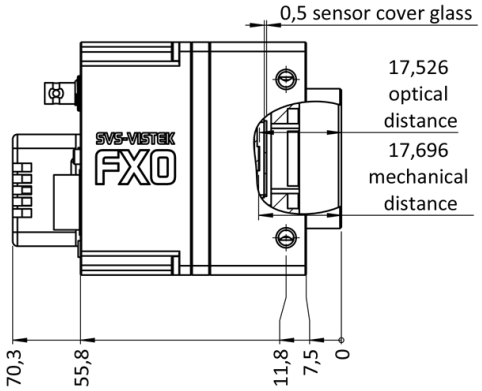
### front



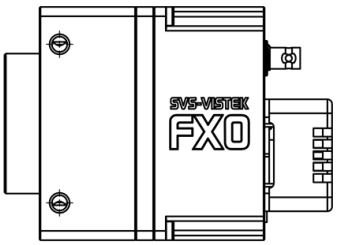

### back



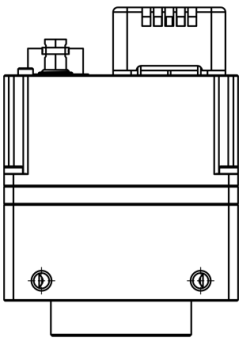

### cross section



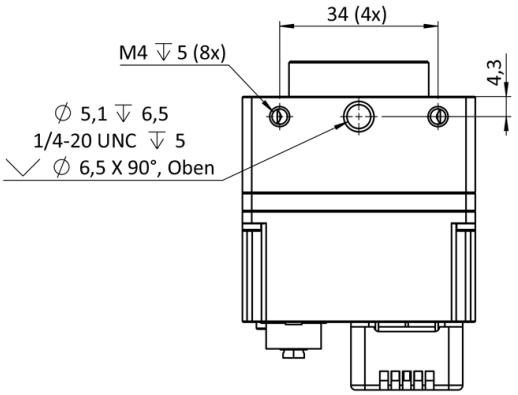

### right side



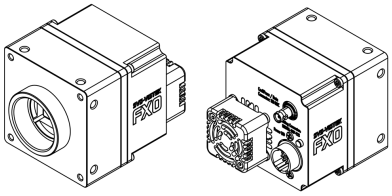
top



bottom

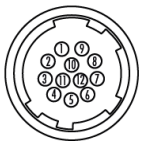



3D



## I/O-Pin-Belegung

Hirose 12 Pin



| | | | | | |
|---|---|---|---|---|---|
| 1 | VIN – | (GND) | 7 | OUT 1 | (open drain) |
| 2 | VIN + | (10 V to 25 V DC) | 8 | OUT 2 | (open drain) |
| 3 | IN 4 | (RXD RS232) | 9 | IN 3 + | (opto In +) |
| 4 | OUT 4 | (TXD RS232) | 10 | IN 3 – | (opto In –) |
| 5 | IN 1 | (0 - 24V) | 11 | OUT 3 | (open drain) |
| 6 | IN 2 | (0 - 24V) | 12 | OUT 0 | (open drain) |