Allied Vision

FXO CoaXPress

fxo420MCX12-2C

Allgemein

Modell	fxo420MCX12-2C
Produktcode	F002269
Produktserie	FXO CoaXPress
Status	Available

Sensor

Sensortyp	Area scan
Chroma	Mono
Spektrum	Visible
Spektralbereich	400 nm to 1000 nm
Auflösung	3,216 × 2,208 (7.10 MP)
Sensormodell	Sony IMX420
Sensorarchitektur (Material)	cmos
Verschlusstyp(en)	Global shutter (GS)
Sensorgröße	14.47 × 9.94 mm (17.55 mm, Type 1.1)
Pixelgröße	4.50 µm × 4.50 µm

Pixelformate

Sensor-Bittiefe	8-bit, 12-bit
Monochrome Pixelformate	mono8, mono12

Timing und Verstärkung

Max. Bildrate	207 fps
Belichtungszeit	21 µs to 60 s
Verstärkung	0.0 dB to 48.0 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/O-Anschluss	12-pin Hirose HR10A-10P-12S
Stromversorgung	10 to 25VDC, Power over CoaXPress
Stromverbrauch	External: 13 W (typical)

Betriebsbedingungen

Betriebstemperatur (Gehäuse)	-10 °C to 60 °C

Mechanische Eigenschaften

Gehäuseabmessungen (L x B x H in mm)	73 × 50 × 50
Filter-/Schutzglas	K9 - AR coating - 400-850nm
IP-Klasse	IP30
Objektivanschluss/-anschlüsse	C-Mount
Gewicht	240 g

Onboard-Speicher und FPGA

Nichtflüchtiger Speicher (Flash)	32 MByte

Schnittstellen

Digitale Schnittstelle	cxp-12 with 2 connections
Schnittstellenanschluss	(micro-BNC)
Vision-Standard	CoaXPress 2.0

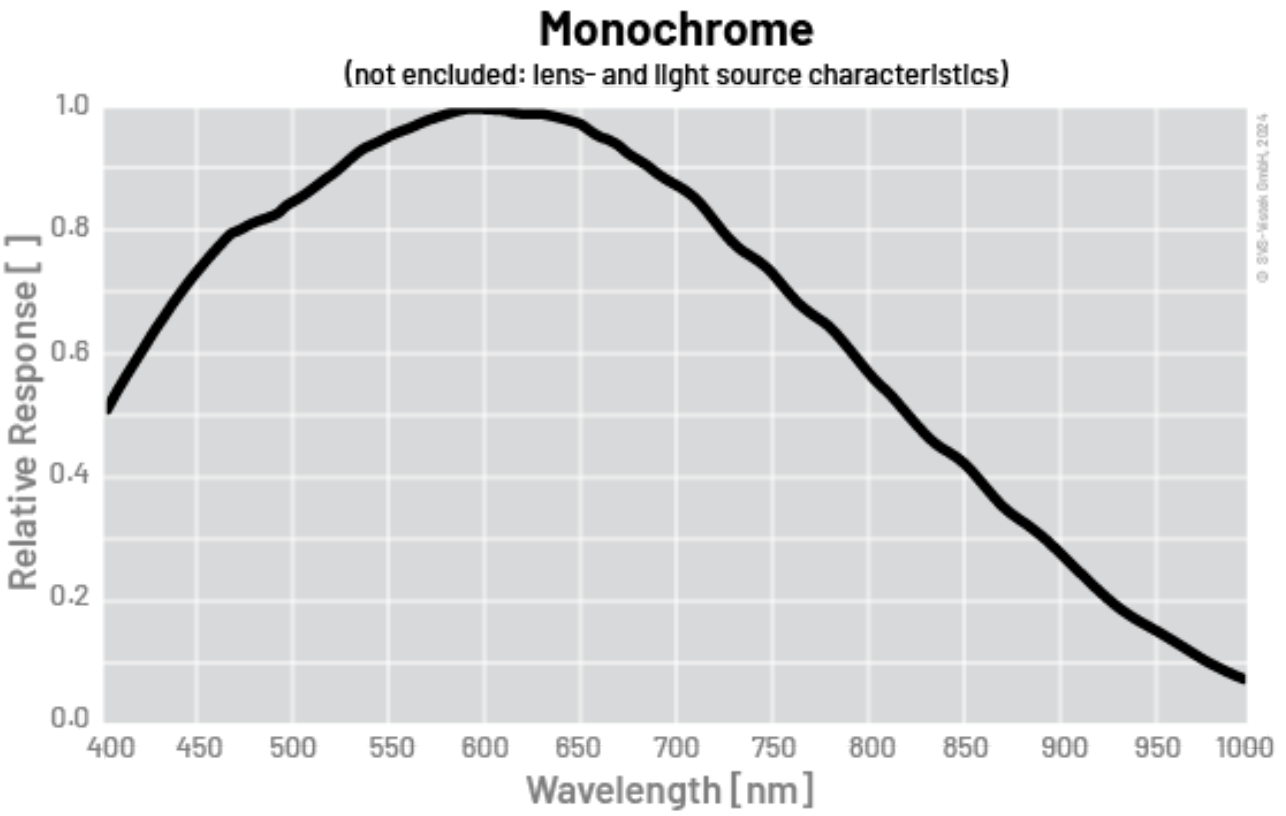
FW-Funktionen – Bildsteuerung

Belichtungsmodi	manual, auto, external
Verstärkungsmodi	auto, manual
Bildsteuerungsfunktionen	roi, lut, mirror-image, dpc, shading-correction, ffc

FW-Funktionen – Kamerasteuerung

Triggermodi/Synchronisation	internal, software, external
Kamerasteuerungsfunktionen	PoCxP, User Sets, PWM(4), Sequencer,

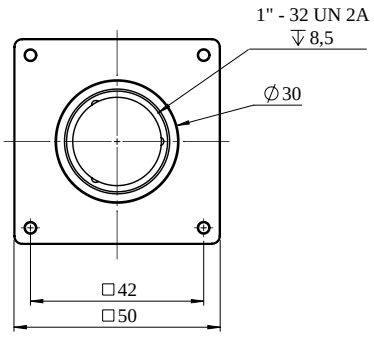
Quanteneffizienz

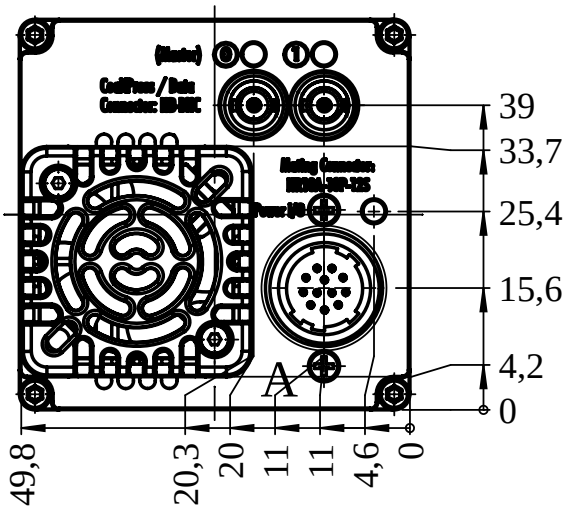


Technische Zeichnung

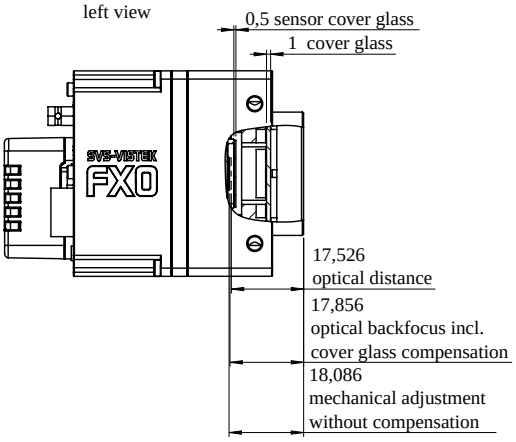
back view

front view

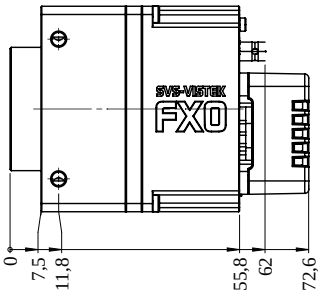




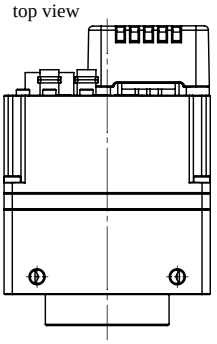
left view



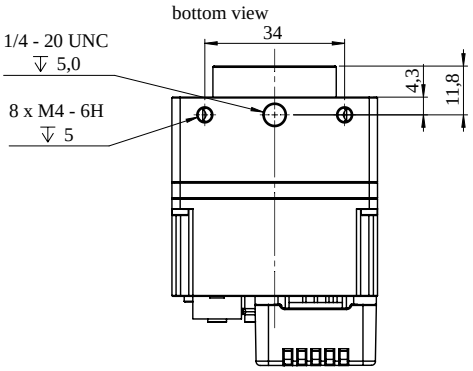
right view

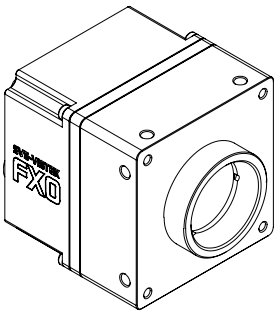


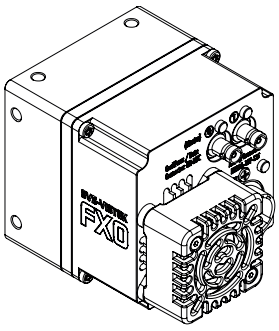
top view



bottom view

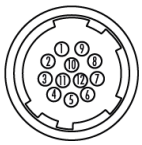






I/O-Pin-Belegung

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)