

FXO CoaXPress

fxo531MCX12-2C



General

Model	fxo531MCX12-2C
Product code	F002249
Product series	FXO CoaXPress
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	4,512 × 4,512 (20.40 MP)
Sensor model	Sony IMX531
Sensor architecture (material)	cmos
Shutter type(s)	global-shutter
Sensor size	12.36 × 12.36 mm (17.48 mm, 17.5mm (Type 1.1))
Pixel size	2.74 μm × 2.74 μm

Pixel formats

Sensor bit depth	8-Bit,12-Bit
Monochrome pixel formats	mono8, mono12

Imaging performance

Dynamic range	72 dB
SNR	39 dB

Timing and gain

Max. frame rate	109.5 fps
Exposure time	21 μ s to 60 s
Gain	0.0 dB to 48.0 dB

I/Os and power

Non-isolated lines	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,
Specific non-isolated lines	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Opto-isolated lines	1 x Optical isolated input, 0 x Optical isolated input,
Power supply	10 to 25VDC, Power over CoaXPress
Power consumption	External: 14 W (typical)

Operating conditions

Operating temperature (housing)	-10 °C to 60 °C
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Mechanical properties

Body dimensions (L x W x H in mm)	73 x 50 x 50
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	C-Mount
Weight	240 g

On-board memory and FPGA

Non-volatile memory (Flash)	32 MByte
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Interfaces

Digital interface	cxp-12 with 2 connections
Interface connector	(micro-BNC)

FW features - image control

Exposure modes	Manual, Auto, External
Gain modes	Auto, Manual
Image control features	FW Features - Image Control

FW features - camera control

Trigger modes/sync INTERNAL,SOFTWARE,EXTERNAL

Camera control features PoCxP, User Sets, PWM(4), Sequencer,

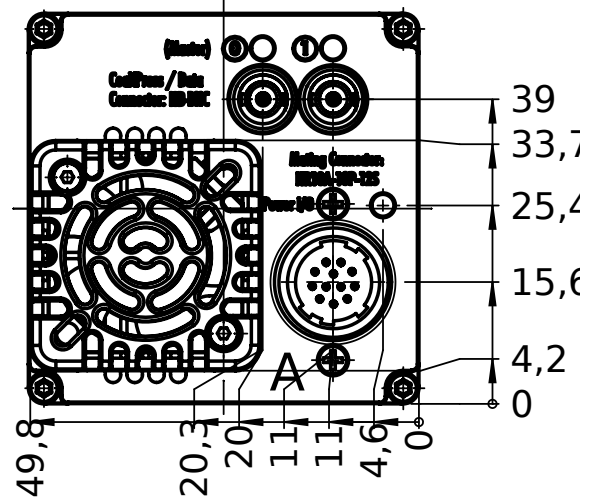
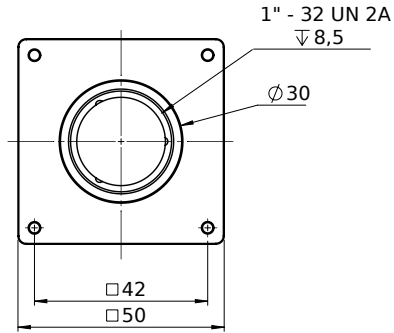
Quantum Efficiency



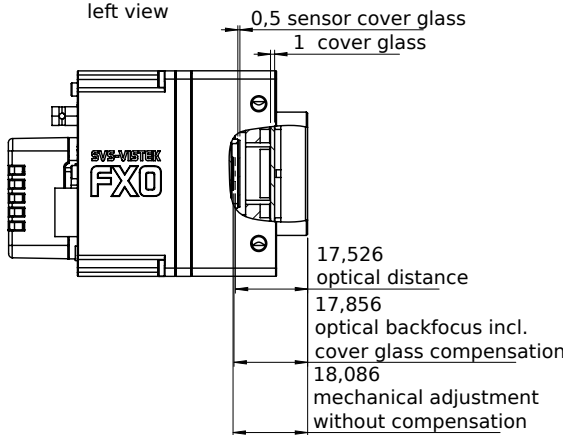
Technical Drawing

back view

front view



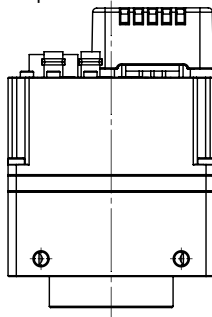
left view



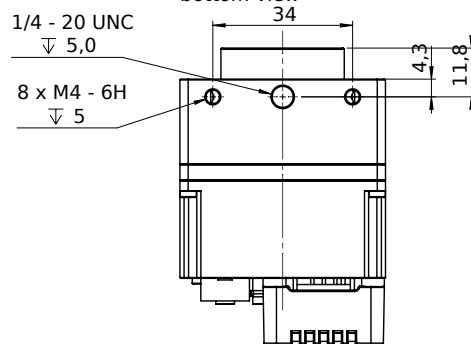
right view

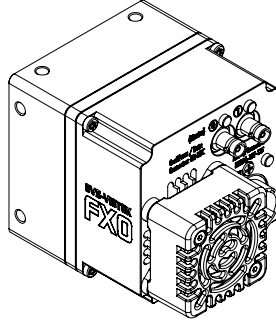
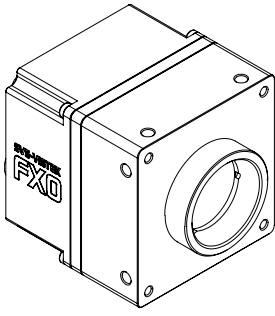


top view



bottom view





I/O pin assignment

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)