fxo990MCX *(preliminary)*

FXO CXP SWIR

The FXO (SWIR) offers the new Sony SenSWIR technology sensor with a high-performance interface. The FXO SWIR is supported by the High Speed CoaXPress (CXP) interface with 12.5 Gbps and an excellent temperature management.

Technical Highlights

- Thermally optimized aluminum unibody housing
- extremely low Jitter
- CoaXPress-12 interface, single line, PoCXP
- integrated 4-channel LED strobe controller
- ROI, binning, lookup tables
- I/O interface with 2xIN, 4xOUT, Opto and RS232 with SafeTrigger, programmable timers, logic functions (PLC) and sequencer
- Two-Point NUC (Non Uniformity Correction)

preliminary

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SWIR Series fxo990MCX *(preliminary)*

Please note: *This product is preliminary.*

Technical specifications might change.

Resolution	1280 x 1024 px
Frame rate (max.)	134 fps
Chroma	SWIR
Interface	CXP-12 1 Lane

Sensor

Sensor	IMX990AABJ
Manufacturer	Sony
Sensor type	Area SWIR CMOS
Shutter type	global shutter
Sensor size (h x v)	6.4 x 5.12 mm
Optical diagonal	8.2 mm
Sensor format	8.2mm (Typ 1/2)
Pixel size (h x v)	5 x 5 µm

Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	28 µs
Exposure time (max)	0.5 sec
Pixel format / max	8 bit,12bit / 12 bit
Gain modes	manual, auto
Dynamic range (max)	57 dB (dep. on environment)
Internal memory	1024 MB SDRAM

Feature Set

Manual white balance	yes
Automatic white balance	yes
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Two-Point NUC	yes
Defect pixel correction	yes
Sequencer	yes
Dynamic HotPixel Correction	yes

Housing

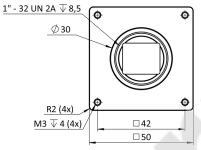
Lens mount	C-Mount
Dimensions (w x h x d)	50 x 50 x 75 mm
Weight	240 g
Operating temperature (housing)	-10 to 60 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP30

I/O-Interfaces

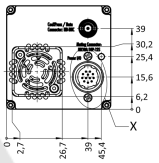
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	7 W (dep. on operating mode)

Dimensions [mm]

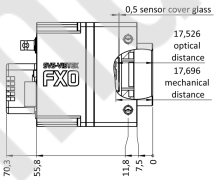
front



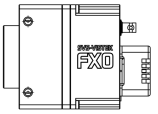
back



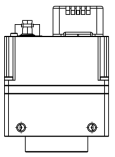
cross section



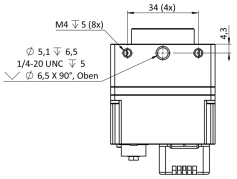
right side



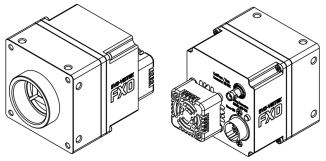
top



bottom

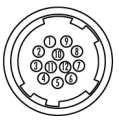


3D



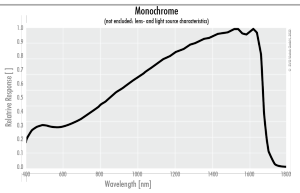
Pinout Mating Connector

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)

Spectral Response *



* Sensor data – excludes camera cover- or IR-cut filter characteristics

preliminary