

fxo990MCX

SWIR



SenSWIR

The SWIR cameras based on the EXO and FXO series offer an extremely wide usable spectral range of 400-1700nm with the Sony SenSWIR sensor. Highly efficient thermal management of the housing is the basis of the outstanding dynamic range and homogeneity of the image. The integrated 4-channel strobe controller supports complex illumination and analysis scenarios.

Technical Highlights

- > Switchable active cooling (FXO only)
- > GenICam 3.0, GenTL
- > Integrated 4-channel LED strobe controller
- > I/O interface with 2xIN, 4xOUT, Opto and RS232
- > programmable timer, logic functions and sequencer
- > Two-Point NUC (Non Uniformity Correction)

ATTENTION: This product is subject to export control and requires written information on intended use and final destination!

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SWIR / UV / Polarized Series fxo990MCX

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	134 fps
Chroma	SWIR
Interface	1 CXP-12 Connections

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 μ m

Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	28 μ s
Exposure time (max)	0.5 sec
Pixel format / max	mono8, mono12 / 12 bit
Gain modes	manual, auto
Dynamic range (max)	57 dB (dep. on environment)
Internal memory	1024 MB SDRAM, 256 MB Flash

Feature Set

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

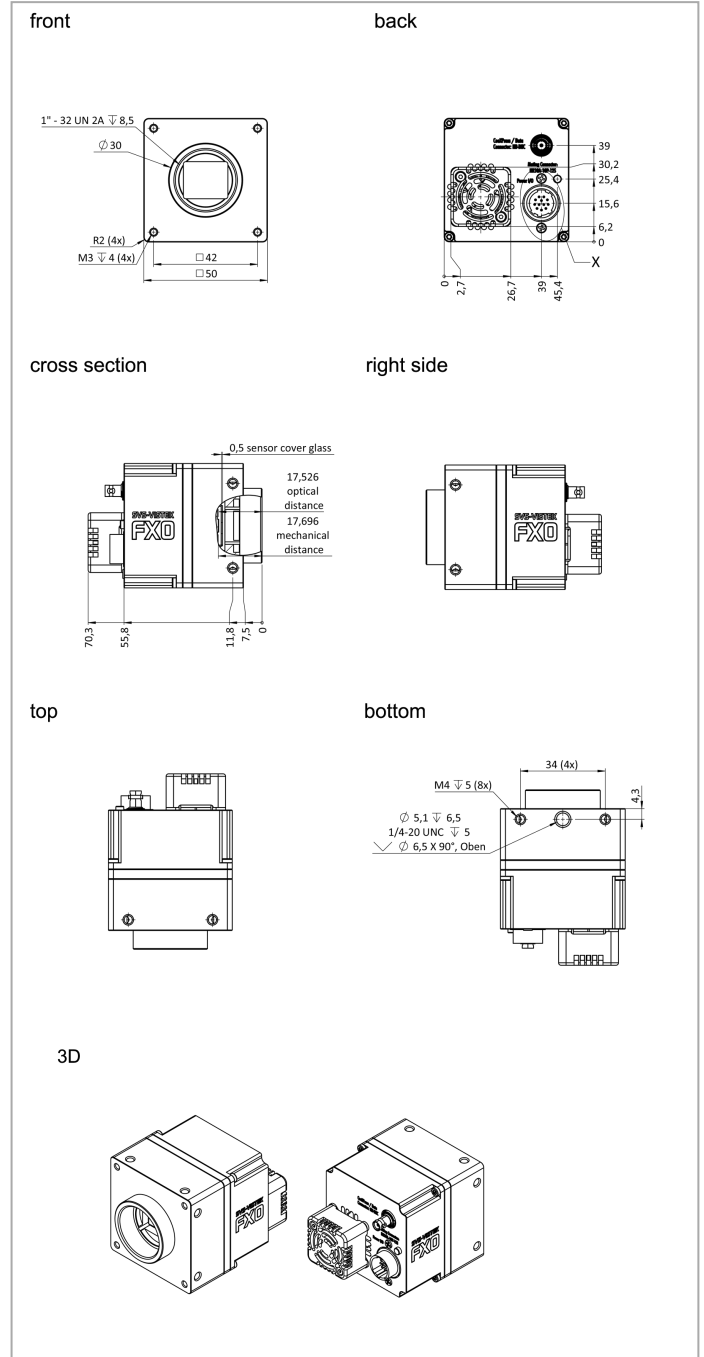
Housing

Lens mount	C-Mount
Dimensions (w x h x d)	50 x 50 x 70.1 mm
Weight	240 g
Operating temperature (housing)	-10 to 65 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP30

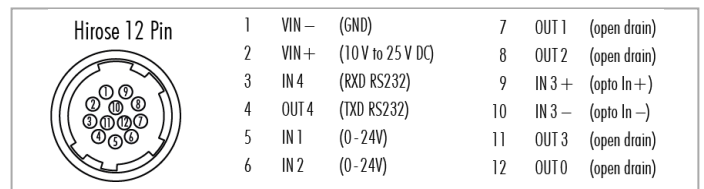
I/O-Interfaces

Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x

Dimensions [mm]

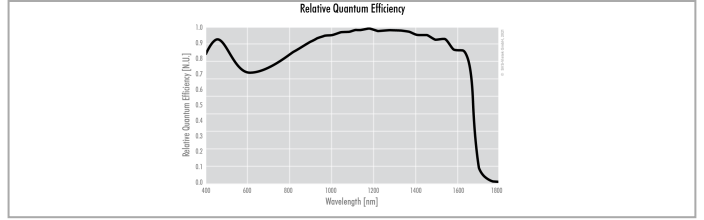


Pinout Mating Connector



Spectral Response *

Power supply	10 to 25 V (DC)
Power consumption	7 W (dep. on operating mode)



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