



a TKH Vision brand

SWIR

fxo993MCX-T

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

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



Specifications

Resolution [MP]	3.1 MP
Resolution (h x v)	2048 x 1536 px
Frame rate(max.)	173.4 fps
Chroma	SWIR
Interface	CXP-12 with 1 Connection (micro-BNC)

Sensor

Sensor	IMX993-AABA (TEC)
Manufacturer	Sony
Sensor type	Area SWIR CMOS
Shutter type	global shutter
Sensor size (h x v)	7.07 x 5.3 mm
Optical diagonal	8.83 mm
Sensor format	8.9mm (Type 1/1.8)
Pixel size (h x v)	3.45 x 3.45 μm

Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Pixel format / max	mono8, mono12 / 12 bit
Gain modes	manual, auto
Internal memory	1024 MB SDRAM, 32 MB Flash

Feature Set

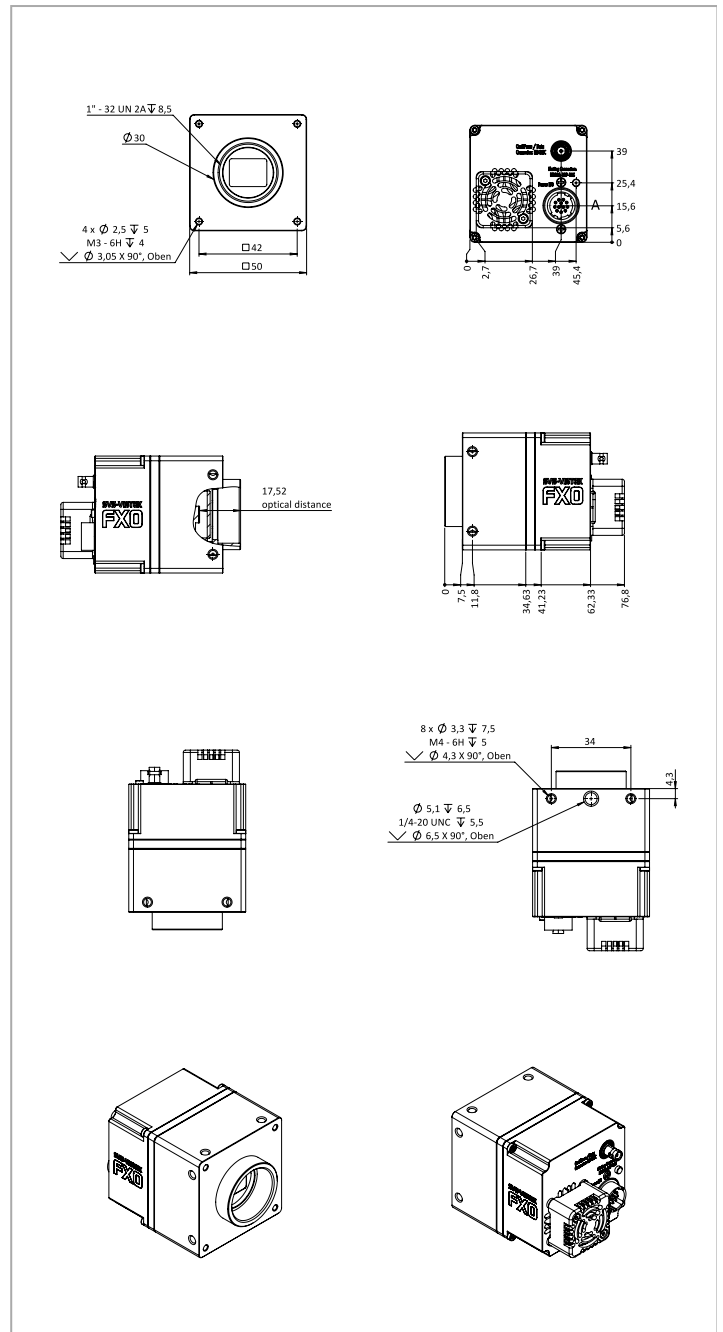
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Two-Point NUC	yes
Defect pixel correction	yes
Sequencer	yes

Housing

Lens mount	C-Mount
Dimensions (w x h x d)	50 x 50 x 76.1 mm
Weight	240 g
Operating temperature (housing)	-10 to 60 °C
Protection class	IP30

I/O-Interfaces

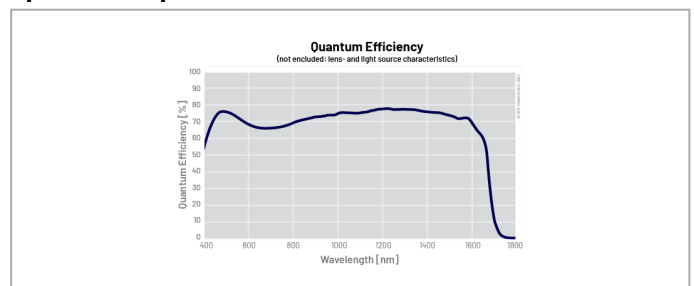
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	12 W (dep. on operating mode)



Pinout Mating Connector

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

Spectral Response *



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

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