

SWIR

fxo992MXGE-T

The SWIR cameras based on the EX0 and FX0 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 (FX0 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!



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Specifications

Resolution [MP]	5.2 MP
Resolution (h x v)	2560 x 2048 px
Frame rate(max.)	132.6 fps
Chroma	SWIR
Interface	10GigE (RJ-45)

Sensor

Sensor	IMX992-AABA (TEC)
Manufacturer	Sony
Sensor type	Area SWIR CMOS
Shutter type	global shutter
Sensor size (h x v)	8.83 x 7.07 mm
Optical diagonal	11.31 mm
Sensor format	11.4mm (Type 1/1.4)
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, mono10, mono12 / 12 bit
Gain modes	manual, auto
Internal memory	1024 MB SDRAM, 32 MB Flash

Feature Set

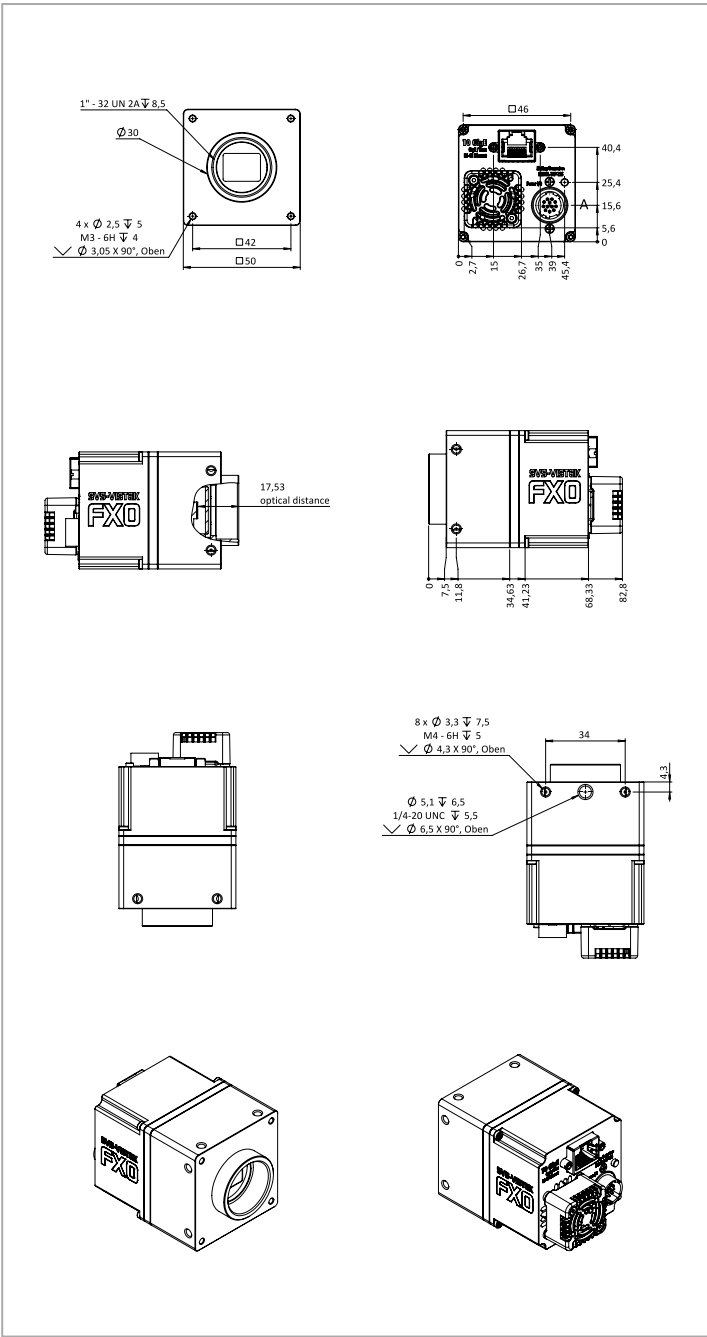
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Two-Point NUC	yes
Defect pixel correction	yes
Sequencer	yes

Housing

Lens mount	C-Mount
Dimensions (w x h x d)	50 x 50 x 82.1 mm
Weight	240 g
Operating temperature (housing)	-10 to 60 °C
Protection class	IP30

I/O-Interfaces

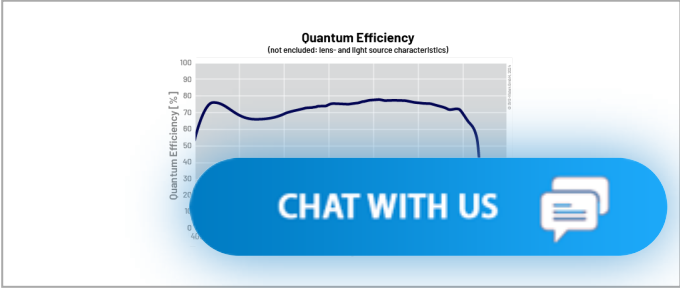
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	13 W (dep. on operating mode)



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

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