



SWIR

fxo993MCX

基于 EXO 和 FXO 系列的 SWIR 摄像机采用索尼 SenSWIR 传感器，可提供 400-1700nm 的极宽可用光谱范围。高效的外壳热管理是实现出色的动态范围和图像均匀性的基础。集成的 4 通道频闪控制器支持复杂的照明和分析方案。

技术亮点

- 可切换主动冷却（仅限 FXO）
- GenICam 3.0、GenTL
- 集成 4 通道 LED 频闪控制器
- 带 2xIN、4xOUT、Opto 和 RS232 的输入/输出接口
- 可编程定时器、逻辑功能和定序器

注意：本产品受出口管制，需要提供有关预期用途和最终目的地的书面信息！

**LED**
4 INTEGRATED
LED-CONTROLLERS**SEQ**
INTEGRATED
SEQUENCER**STT**
SAFE TRIGGER
TECHNOLOGY**PLC**
PROGRAMMABLE
LOGIC CONTROL

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-AABJ
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
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, 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

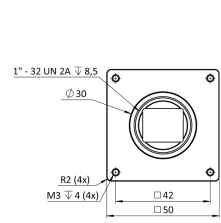
Housing

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 60 °C
Protection class	IP30

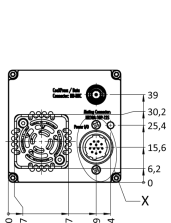
I/O-Interfaces

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	7 W (dep. on operating mode)

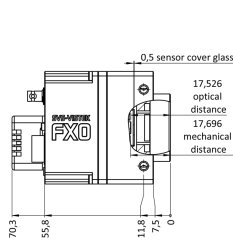
front



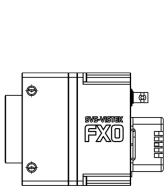
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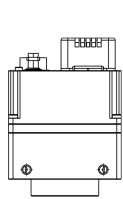
cross section



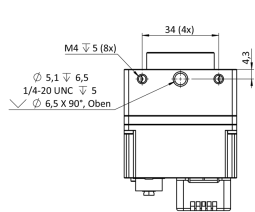
right side



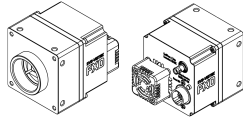
top



bottom



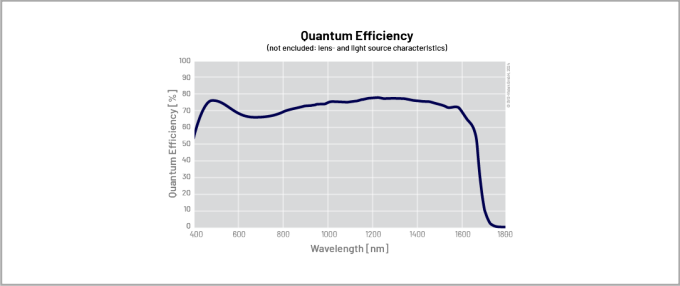
3D



Pinout Mating Connector

Hirose 12 Pin	1 VIN - (GND)	7 OUT1 (open drain)
	2 VIN + (10 V to 25 V DC)	8 OUT2 (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 *



* 传感器数据 - 不包括相机遮光或红外截止滤光片特性

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