Allied Vision

FXO SWIR

fxo993MCX

般	
型號	fxo993MCX
產品編號	F002322
產品系列	FXO SWIR
狀態	Available

感測器	
感測器類型	Area scan
色度	Mono
光譜	SWIR, Visible SWIR
光譜範圍	400 nm to 1700 nm
解析度	2,048 × 1,536 (3.10 MP)
感測器型號	Sony IMX993 | InGaAs
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	7.07 × 5.3 mm (8.83 mm, Type 1/1.8)
像素大小	3.45 µm × 3.45 µm

像素格式	
感測器位深	12-bit, 8-bit
單色像素格式	mono12, mono8

時序與增益	
最大影格率	173.4 fps
增益	0.0 dB to 42.0 dB

I/O 與電源	
非隔離線	0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 4 x Open drain output,
特定非隔離線	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
光隔離線	1 x Optical isolated input, 0 x Optical isolated input,

I/O 與電源

I/O 連接器	12-pin Hirose HR10A-10P-12S
電源供應	10 to 25VDC
功耗	External: 7 W (typical)

操作條件

操作溫度	-10 °C to 60 °C (機殼)
Humidity	10 % to 90 % (non-condensing)

機械特性

機殼尺寸 (長 x 寬 x 高 mm)	70 × 50 × 50
防護等級	IP30
鏡頭接口	C-Mount
重量	240 g

板載記憶體與 FPGA

非揮發性記憶體 (Flash)	32000 MByte

介面

數位介面	cxp-12 with 1 connection
介面連接器	(micro-BNC)
視覺標準	CoaXPress 2.0

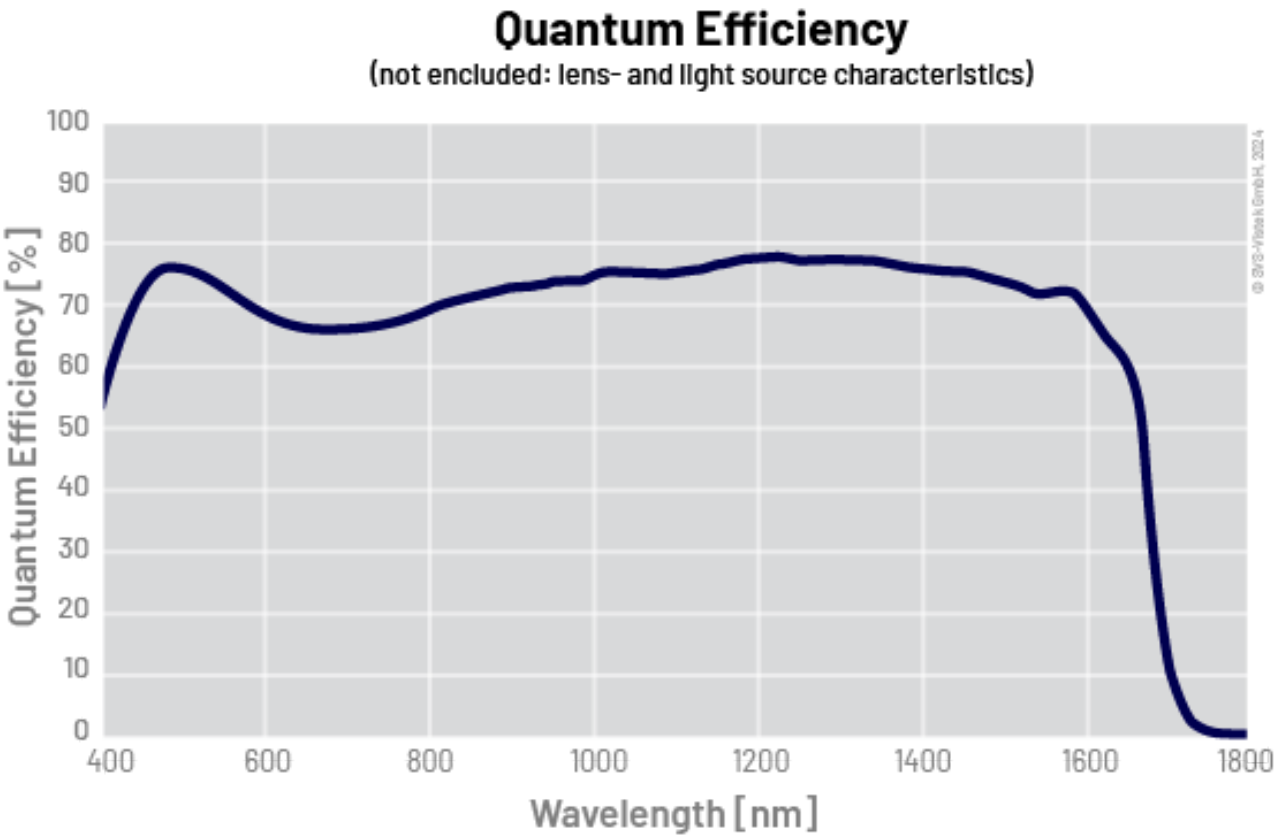
FW 功能 – 影像控制

曝光模式	auto, manual
增益模式	auto, manual
影像控制功能	dopo, dpc, ffc, lut, mirror-image, nuc, roi

FW 功能 – 相機控制

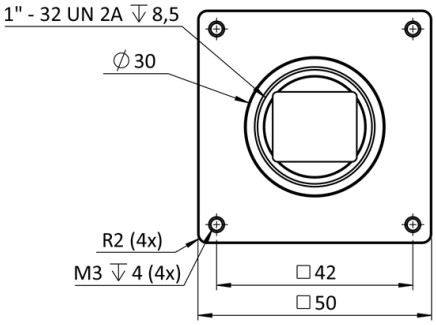
觸發模式/同步	external, internal, software

□□□□

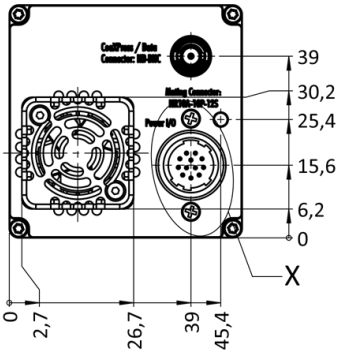

Quantum Efficiency
(not enclosed: lens- and light source characteristics)
Quantum Efficiency [%]
100
90
80
70
60
50
40
30
20
10
0
400
600
800
1000
1200
1400
1600
1800
Wavelength [nm]

□□□□

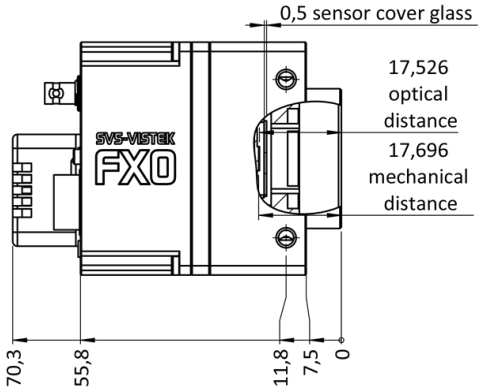
front



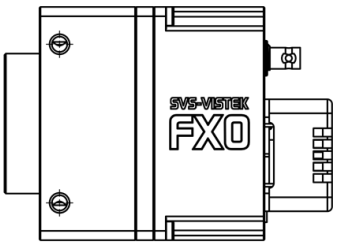
back



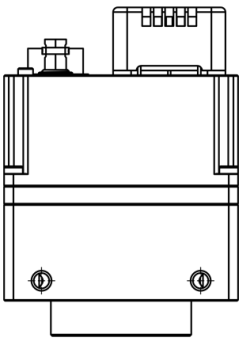
cross section



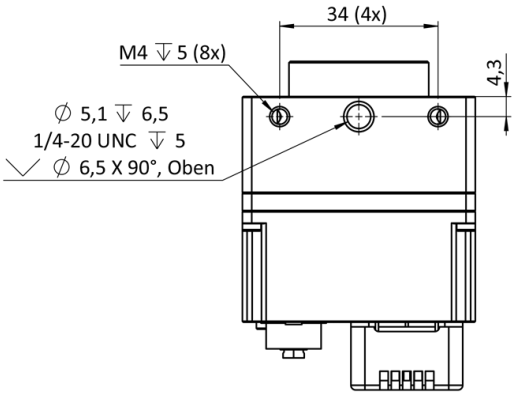
right side



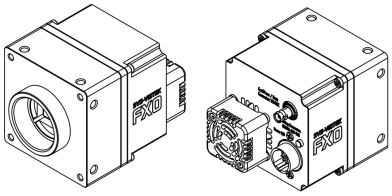
top



bottom

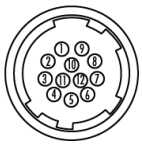


3D



I/O □□□□

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)