Allied Vision

EXO SWIR

exo991MGE

一般

型號	exo991MGE
產品編號	F002204
產品系列	EXO 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	640 × 512 (0.30 MP)
感測器型號	Sony IMX991 | InGaAs
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	3.2 × 2.56 mm (4.1 mm, Type 1/4)
像素大小	5.00 µm × 5.00 µm

像素格式

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

影像性能

動態範圍	57 dB

時序與增益

最大影格率	260 fps
曝光時間	21 µs to 500.00 ms
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 連接器	12-pin Hirose HR10A-10P-12S
電源供應	10 to 25VDC, Power over Ethernet
功耗	External: 3.5 W (typical)

操作條件

操作溫度 (機殼)	-10 °C to 60 °C

機械特性

機殼尺寸 (長 x 寬 x 高 mm)	43 × 50 × 50
防護等級	IP40
鏡頭接口	C-Mount
重量	138 g

板載記憶體與 FPGA

影像緩衝區 (RAM)	192 MByte
非揮發性記憶體 (Flash)	32 MByte

介面

數位介面	gige
介面連接器	(RJ-45)
視覺標準	GigE Vision

FW 功能 – 影像控制

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

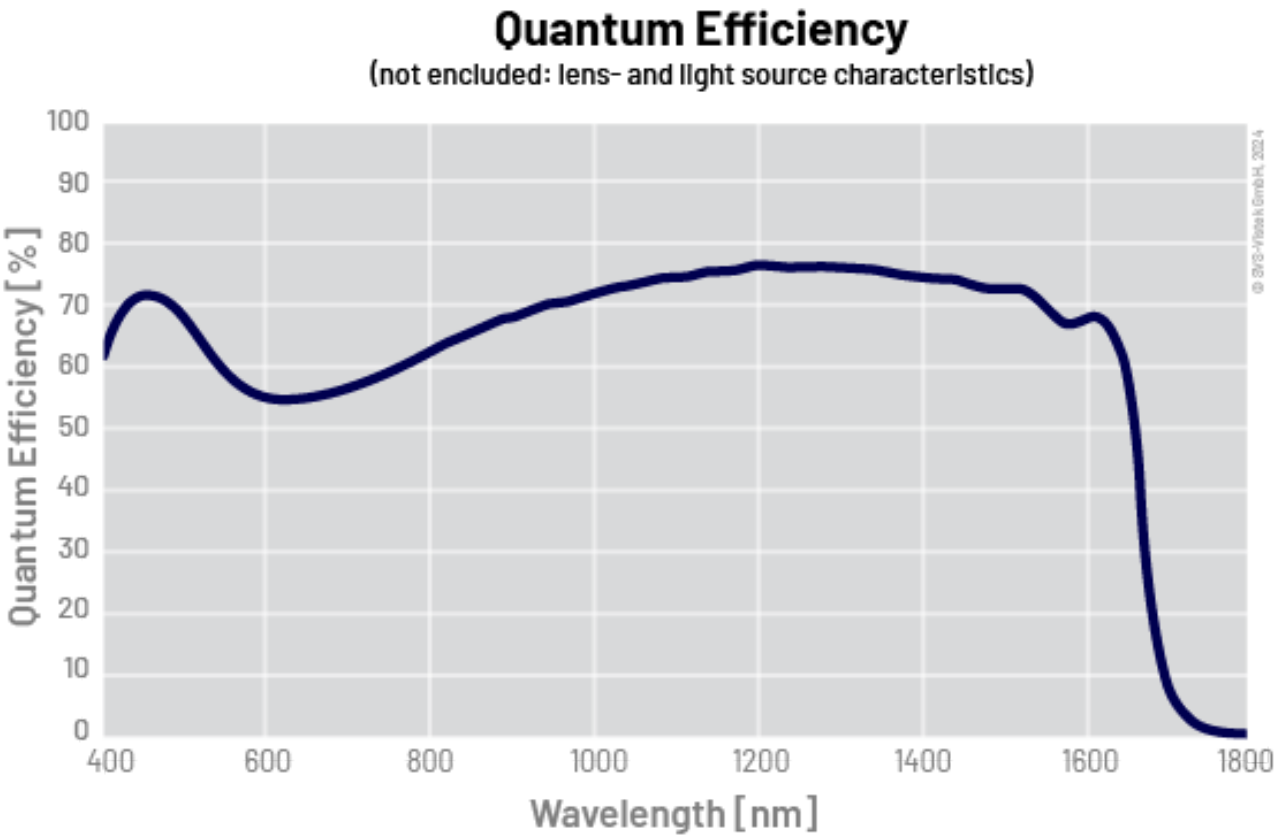
FW 功能 – 相機控制

觸發模式/同步	internal, software, external

FW 功能 – 相機控制

相機控制功能	User Sets, POE, PWM(4), Sequencer,

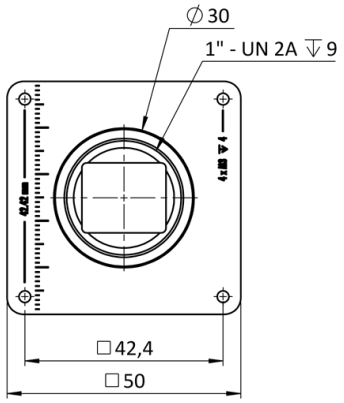
量子效率


Quantum Efficiency
(not encluded: 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]

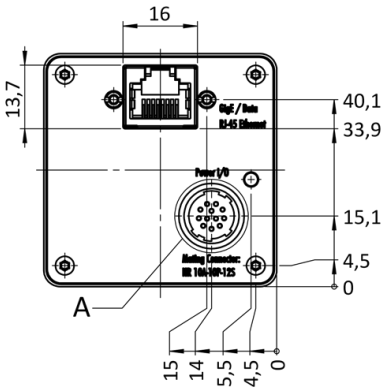
Allied Vision

技術圖紙

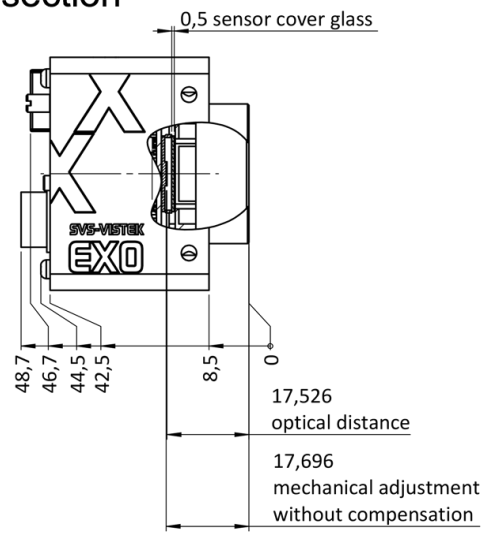
front



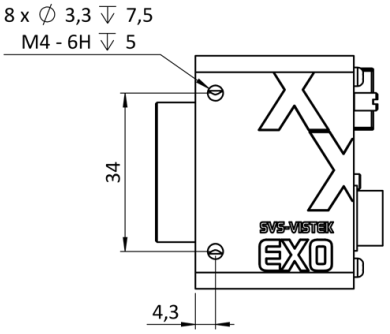
back



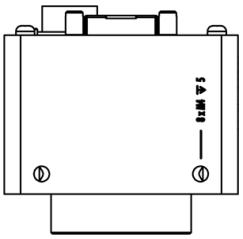
cross section



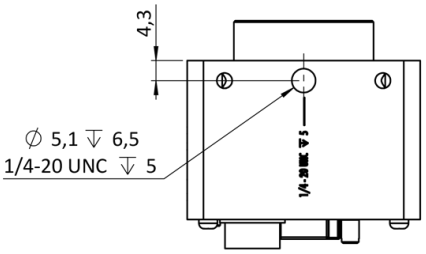
right side



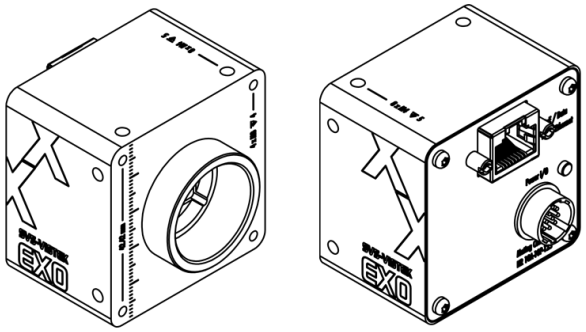
top



bottom



3D



I/O 引腳分配

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)