EXO Polarized

exo250ZGE

一般

型號	exo250ZGE
產品編號	F002196
產品系列	EXO Polarized
狀態	Available

感測器

感測器類型	Area scan
色度	Mono, Polarizer
光譜	Visible
光譜範圍	400 nm to 1000 nm
解析度	2,448 × 2,048 (5.00 MP)
感測器型號	Sony IMX250 Polarizer
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	8.45 × 7.07 mm (11.01 mm, Type 2/3)
像素大小	3.45 µm × 3.45 µm

像素格式

感測器位深	8-bit, 12-bit
單色像素格式	mono8, mono12packed

影像性能

動態範圍	72 dB
訊噪比	40 dB

時序與增益

最大影格率	24.5 fps
最大影格率 (Burst)	42.7 fps
曝光時間	20 µs to 60 s

時序與增益

增益	0.0 dB to 48.0 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: 4.5 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
濾光片/保護玻璃	K9 - AR coating - 400-850nm
防護等級	IP40
鏡頭接口	C-Mount
重量	140 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, external
增益模式	auto, manual

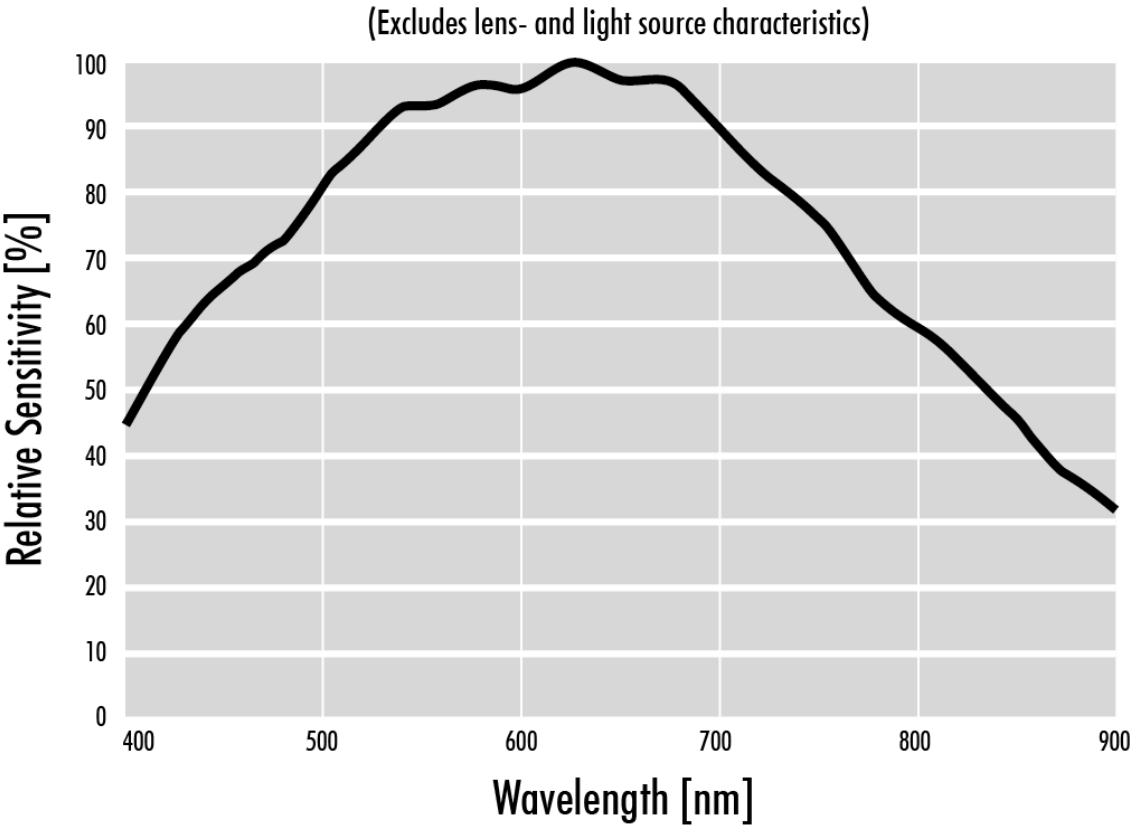
FW 功能 – 影像控制

影像控制功能	roi, lut, mirror-image, dpc, shading-correction, ffc

FW 功能 – 相機控制

觸發模式/同步	internal, software, external
相機控制功能	PTP, BurstMode, User Sets, POE, PWM(4), Sequencer,

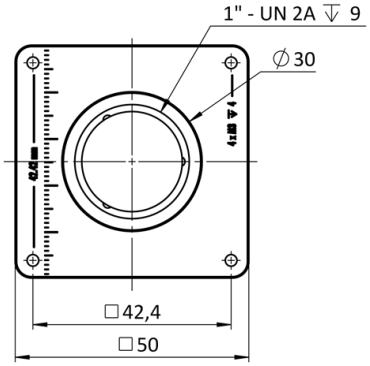
量子效率


(Excludes lens- and light source characteristics)
Relative Sensitivity [%]
100
90
80
70
60
50
40
30
20
10
0
400
500
600
700
800
900
Wavelength [nm]

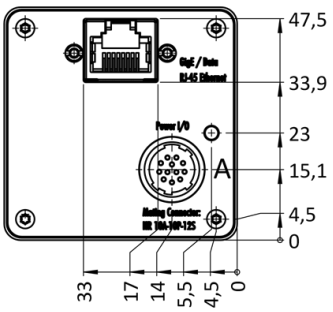
Allied Vision

技術圖紙

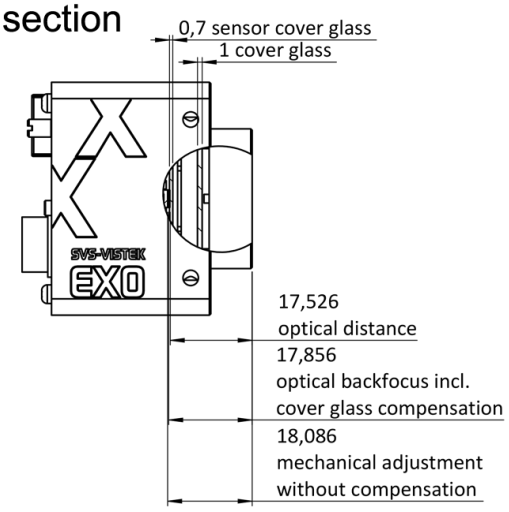
front



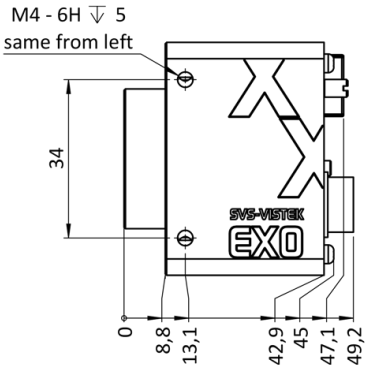
back



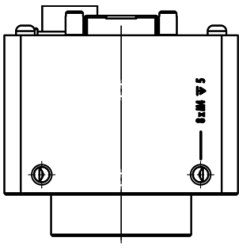
cross section



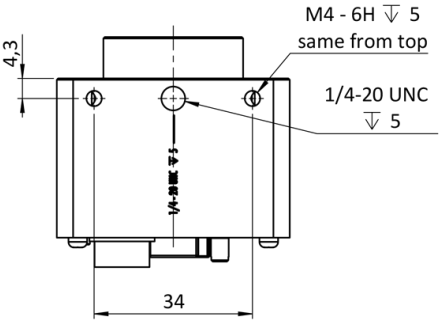
right side



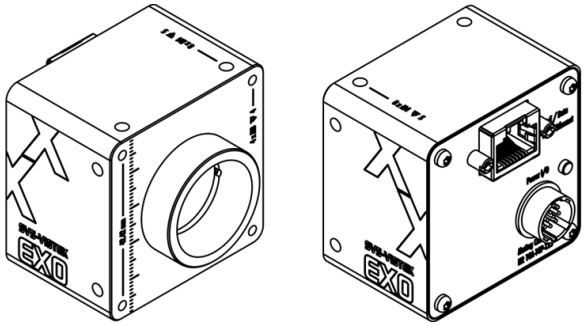
top



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)