

Allied Vision

EXO GigE

exo542MGE

一般	
型號	exo542MGE
產品編號	F002168
產品系列	EXO GigE
狀態	Available

感測器	
感測器類型	Area scan
色度	Mono
光譜	Visible
光譜範圍	400 nm to 1000 nm
解析度	5,320 × 3,032 (16.10 MP)
感測器型號	Sony IMX542
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	14.58 × 8.31 mm (16.78 mm, Type 1.1)
像素大小	2.74 µm × 2.74 µm

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

時序與增益	
最大影格率	7 fps
曝光時間	17 µs to 60 s
增益	0.0 dB to 48.0 dB

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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	-10 °C to 65 °C (機殼)

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	143 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
影像控制功能	roi, lut, mirror-image, dpc, shading-correction, ffc

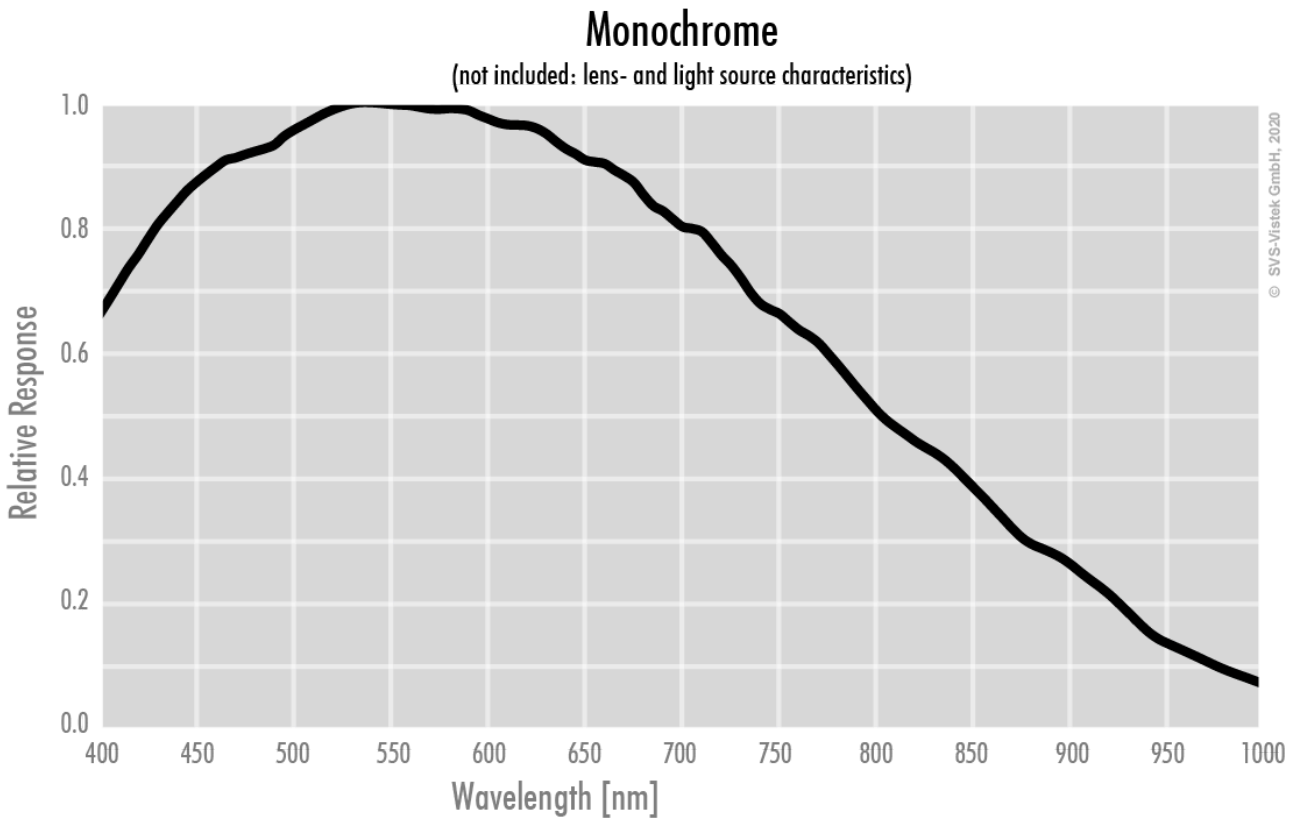
FW 功能 – 相機控制

觸發模式/同步	internal, software, external

FW 功能 – 相機控制

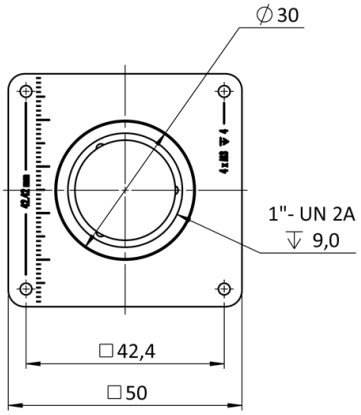
相機控制功能	PTP, User Sets, POE, PWM(4), Sequencer,

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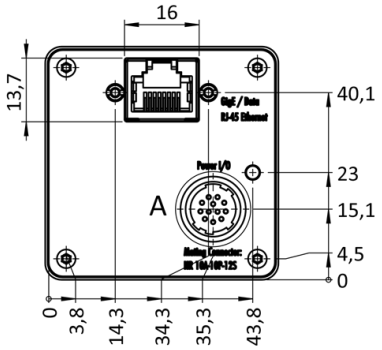

Monochrome
(not included: lens- and light source characteristics)
Relative Response
1.0
0.8
0.6
0.4
0.2
0.0
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]
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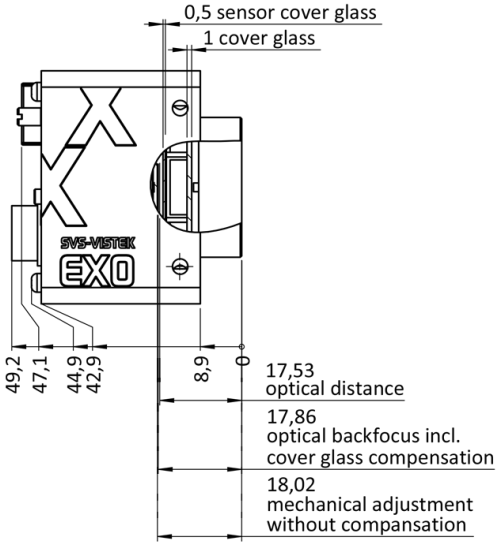
front



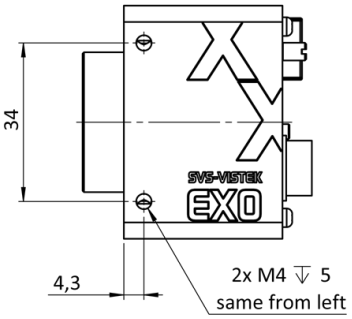
back



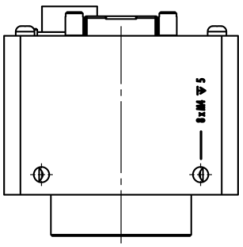
cross section



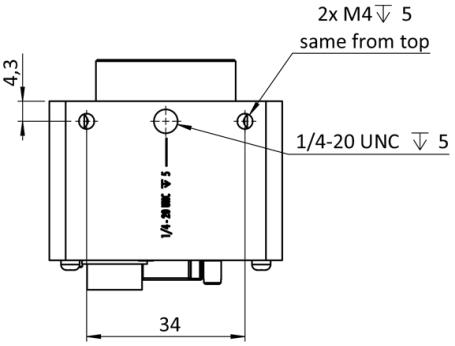
right side



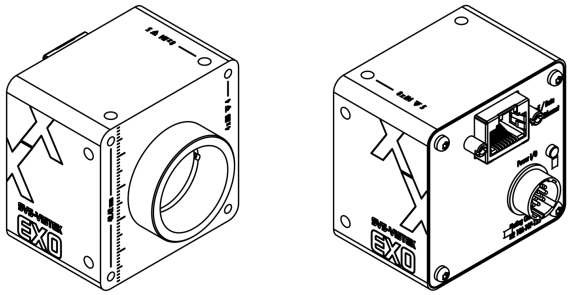
top



bottom

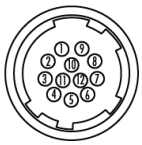


3D



I/O □□□□

Hirose 12 Pin



1	VIN –	(GND)
2	VIN +	(10 V to 25 V DC)
3	IN 4	(RXD RS232)
4	OUT 4	(TXD RS232)
5	IN 1	(0 - 24V)
6	IN 2	(0 - 24V)
7	OUT 1	(open drain)
8	OUT 2	(open drain)
9	IN 3 +	(opto In +)
10	IN 3 –	(opto In –)
11	OUT 3	(open drain)
12	OUT 0	(open drain)