

Allied Vision

EXO USB3

exo901CU3

一般	
型號	exo901CU3
產品編號	F002369
產品系列	EXO USB3
狀態	Available

感測器	
感測器類型	Area scan
色度	Color
光譜	Visible
光譜範圍	400 nm to 1000 nm
解析度	8,016 × 2,048 (16.40 MP)
感測器型號	Sony IMX901
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	21.96 × 5.61 mm (22.67 mm, Type 1.4)
像素大小	2.74 µm × 2.74 µm

像素格式	
感測器位深	8-bit, 12-bit
RGB 像素格式	bayer8, bayer12packed

時序與增益	
最大影格率	15 fps
曝光時間	5 µs to 60 s
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
功耗	External: 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	None
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	usb3.0
介面連接器	(Micro-B)
視覺標準	USB3 Vision

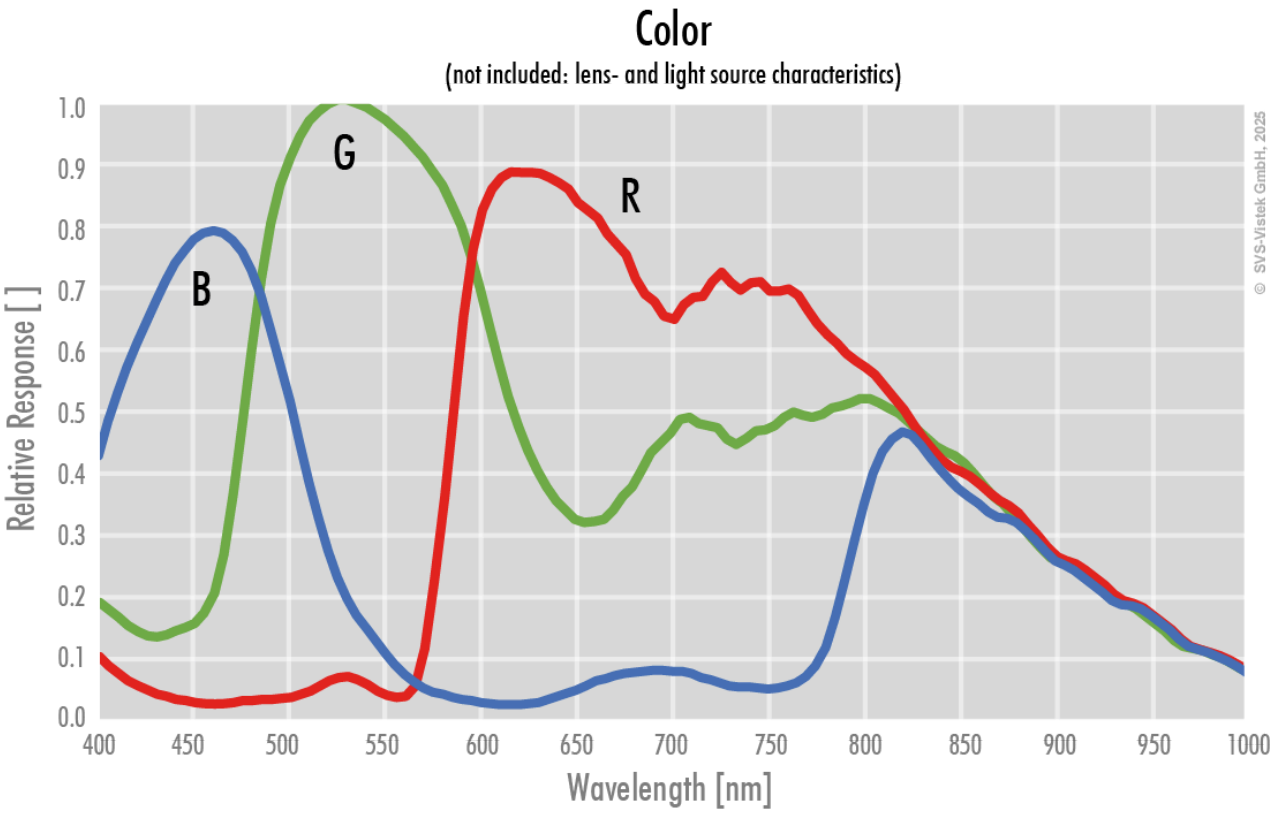
FW 功能 – 影像控制

曝光模式	manual, auto, external
增益模式	auto, manual
白平衡模式	auto, manual
影像控制功能	roi, lut, mirror-image, dpc, shading-correction

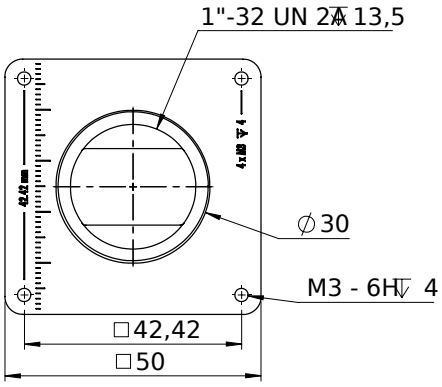
FW 功能 – 相機控制

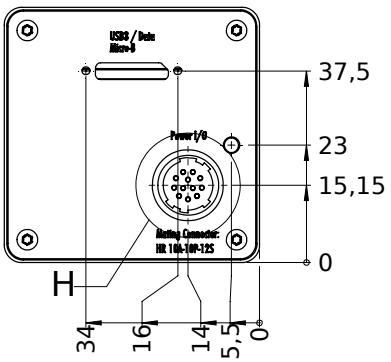
觸發模式/同步	internal, software, external
相機控制功能	User Sets, PWM(4), Sequencer,

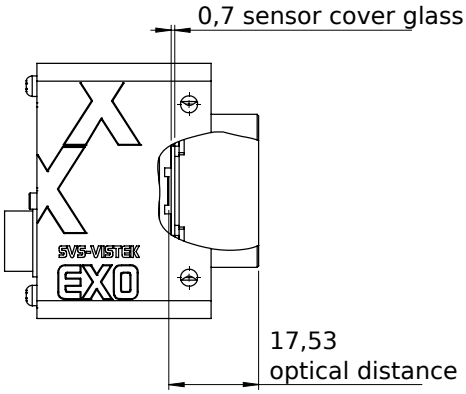
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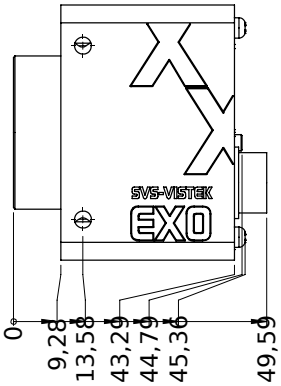

Color
(not included: lens- and light source characteristics)
Relative Response [ ]
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]
B
G
R
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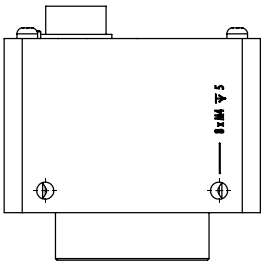
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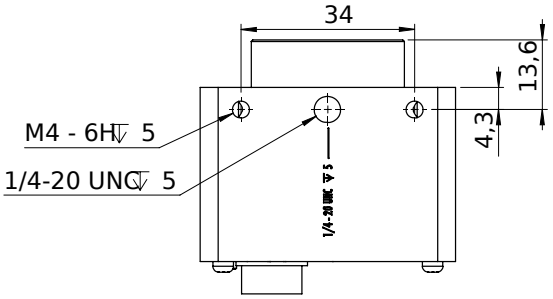

1"-32 UN 2A ↧13,5
∅30
M3 - 6H ↧ 4
□42,42
□50

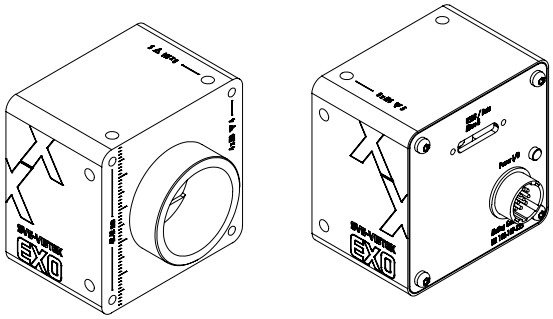

37,5
23
15,15
0
34
16
14
5,5
0


0,7 sensor cover glass
17,53
optical distance
SVS-VISTEK
EXO


SVS-VISTEK
EXO
0
9,28
13,58
43,29
44,79
45,36
49,59

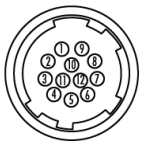






I/O □□□□

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)