

Allied Vision

FXO CoaXPress

fxo541CCX

一般	
型號	fxo541CCX
產品編號	F002087
產品系列	FXO CoaXPress
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	4,480 × 4,504 (20.20 MP)
感測器型號	Sony IMX541
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	12.28 × 12.34 mm (17.41 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
RGB 像素格式	bayer8, bayer12

影像性能	
動態範圍	72 dB
訊噪比	39.8 dB

時序與增益

最大影格率	35.7 fps
曝光時間	21 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, Power over CoaXPress
功耗	External: 8 W (typical)

操作條件

操作溫度 (機殼)	-10 °C to 65 °C

機械特性

機殼尺寸 (長 x 寬 x 高 mm)	70 × 50 × 50
濾光片/保護玻璃	IR-Cut - 680nm
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)	32 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	manual, auto, external
增益模式	auto, manual

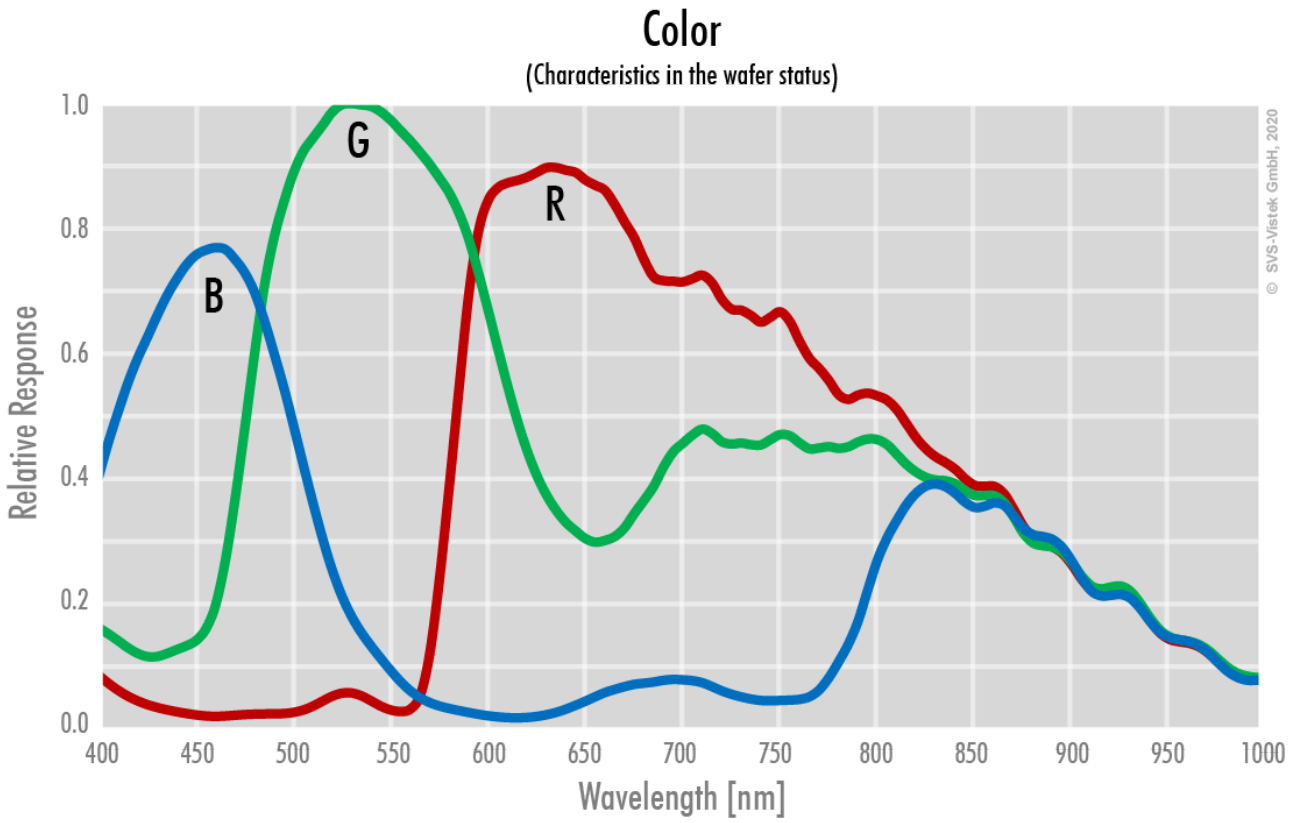
FW 功能 – 影像控制

白平衡模式	auto, manual
影像控制功能	roi, lut, mirror-image

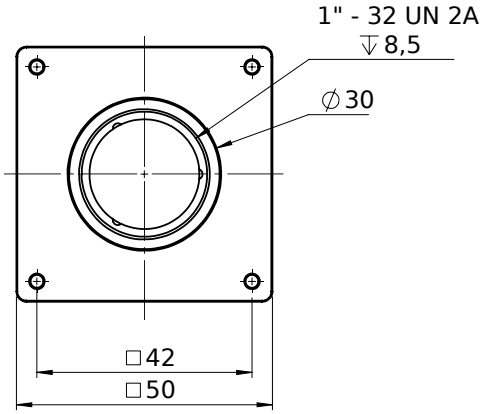
FW 功能 – 相機控制

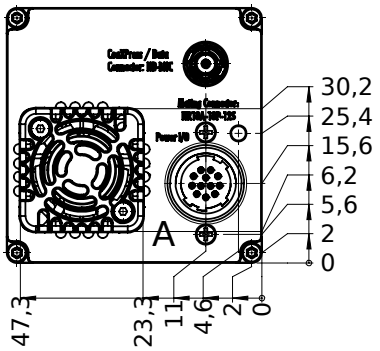
觸發模式/同步	internal, software, external
相機控制功能	PoCxP, User Sets, PWM(4), Sequencer,

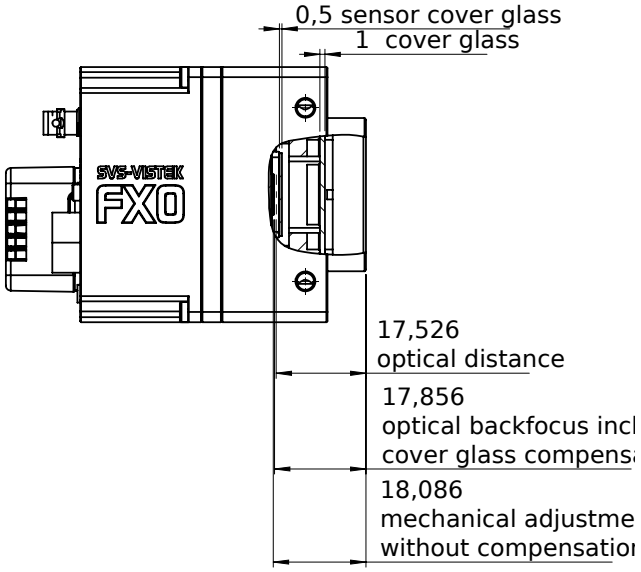
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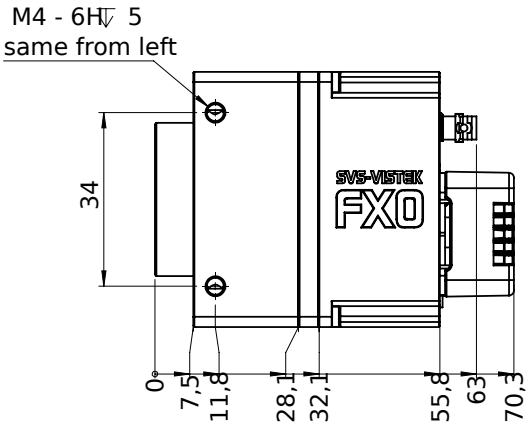

Color
(Characteristics in the wafer status)
Relative Response
1.0
0.8
0.6
0.4
0.2
0.0
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]
B
G
R
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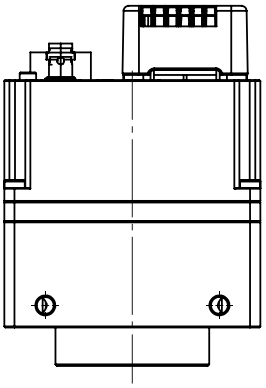
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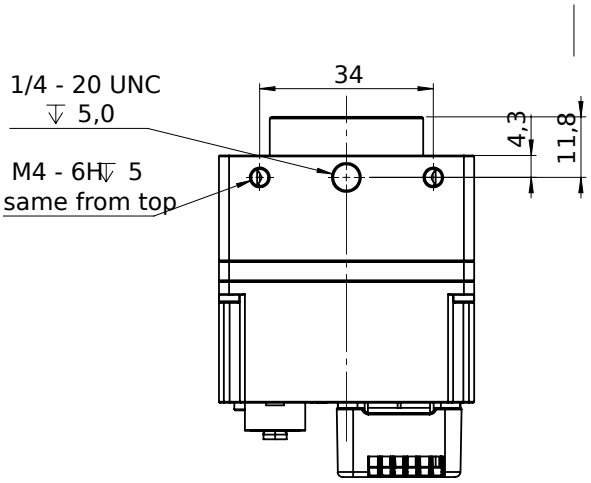

1" - 32 UN 2A
8,5
∅30
□42
□50

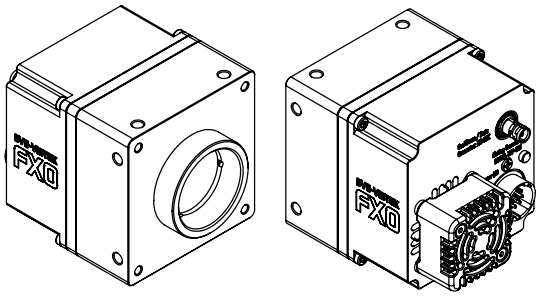

30,2
25,4
15,6
6,2
5,6
2
0
A
47,3
23,3
11
4,6
2
0


0,5 sensor cover glass
1 cover glass
SVS-VISTEK
FXO
17,526
optical distance
17,856
optical backfocus incl
cover glass compens
18,086
mechanical adjustme
without compensatio


M4 - 6H 5
same from left
34
SVS-VISTEK
FXO
0
7,5
11,8
28,1
32,1
55,8
63
70,3

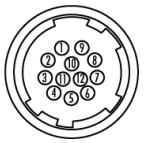






I/O □□□□

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)