Allied Vision

EXO Tracer

exo387MU3TR

般	
型號	exo387MU3TR
產品編號	F001964
產品系列	EXO Tracer
狀態	Discontinued

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	5,456 × 3,076 (16.80 MP)
感測器型號	Sony IMX387
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	18.82 × 10.61 mm (21.61 mm, Type 4/3)
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	70.5 dB
訊噪比	39.9 dB

時序與增益	
最大影格率	22 fps
曝光時間	41 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
功耗	External: 8 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)	54 × 58 × 58
濾光片/保護玻璃	K9 - AR coating
防護等級	IP40
鏡頭接口	MFT
重量	320 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
影像控制功能	roi, lut, mirror-image, dpc, shading-correction

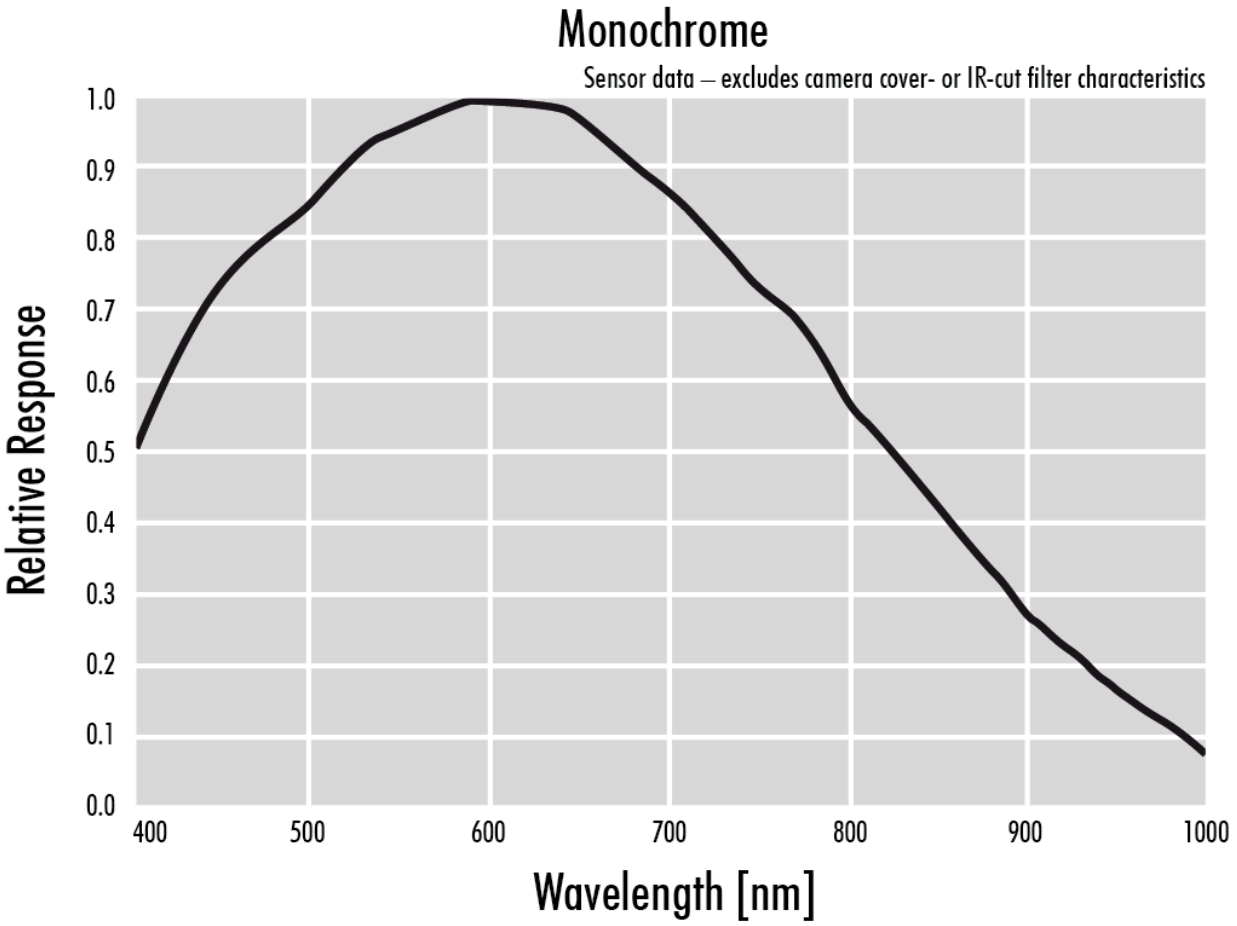
FW 功能 – 相機控制

觸發模式/同步	internal, software, external

FW 功能 – 相機控制

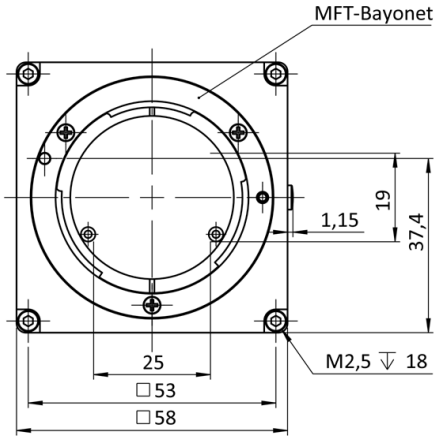
相機控制功能	User Sets, PWM(4), Sequencer,

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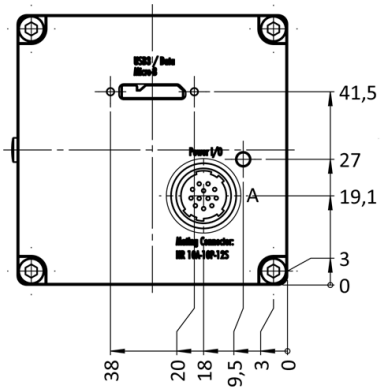

Monochrome
Sensor data – excludes camera cover- or IR-cut filter characteristics
Relative Response
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
400
500
600
700
800
900
1000
Wavelength [nm]

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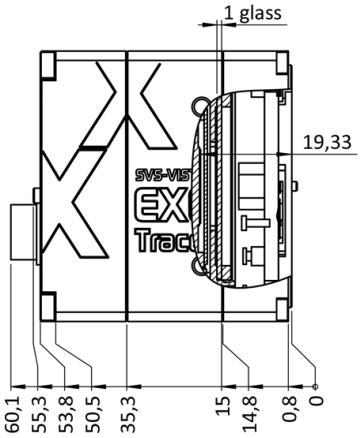
front



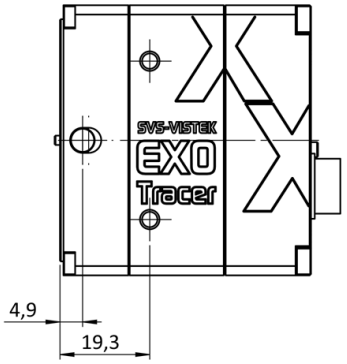
back



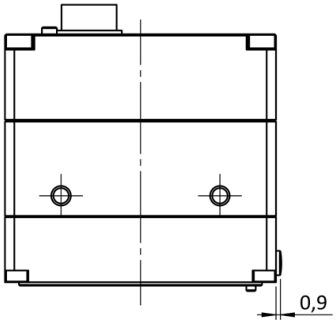
cross section



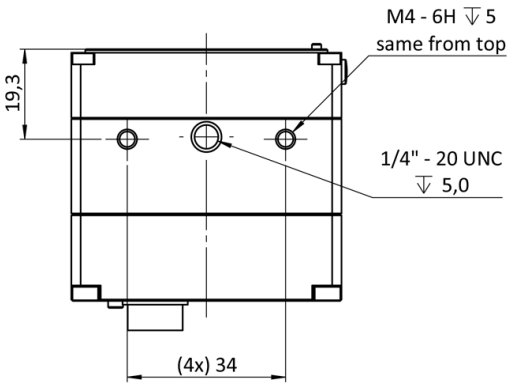
right side



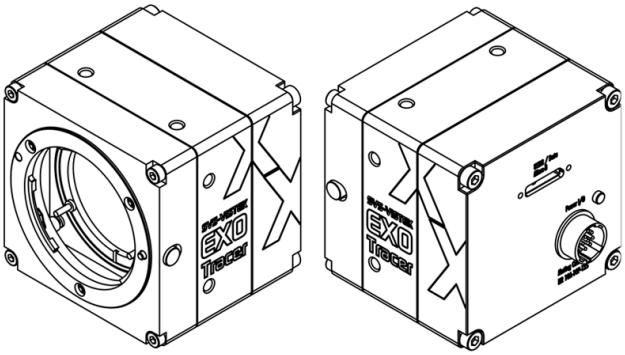
top



bottom

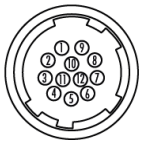


3D



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)