



HR Camera Link

hr25MCL

一般

型號	hr25MCL
產品編號	F004051
產品系列	HR Camera Link
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	5,120 × 5,120 (25.00 MP)
感測器型號	ON Semi PYTHON 25K
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	23.04 × 23.04 mm (32.58 mm, Type APS-H)
像素大小	4.50 μm × 4.50 μm

像素格式

感測器位深	8-bit, 10-bit
單色像素格式	bayer8, bayer10

時序與增益

最大影格率	31.8 fps
曝光時間	21 μs to 60 s
增益	0.0 dB to 18.0 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: 10 W (typical)

操作條件

操作溫度 (機殼)	-10 °C to 65 °C
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機械特性

機殼尺寸 (長 x 寬 x 高 mm)	56 × 70 × 70
防護等級	IP40
鏡頭接口	M58x0.75
重量	420 g

板載記憶體與 FPGA

非揮發性記憶體 (Flash)	32 MByte
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介面

數位介面	camera link 80-bit
介面連接器	SDR

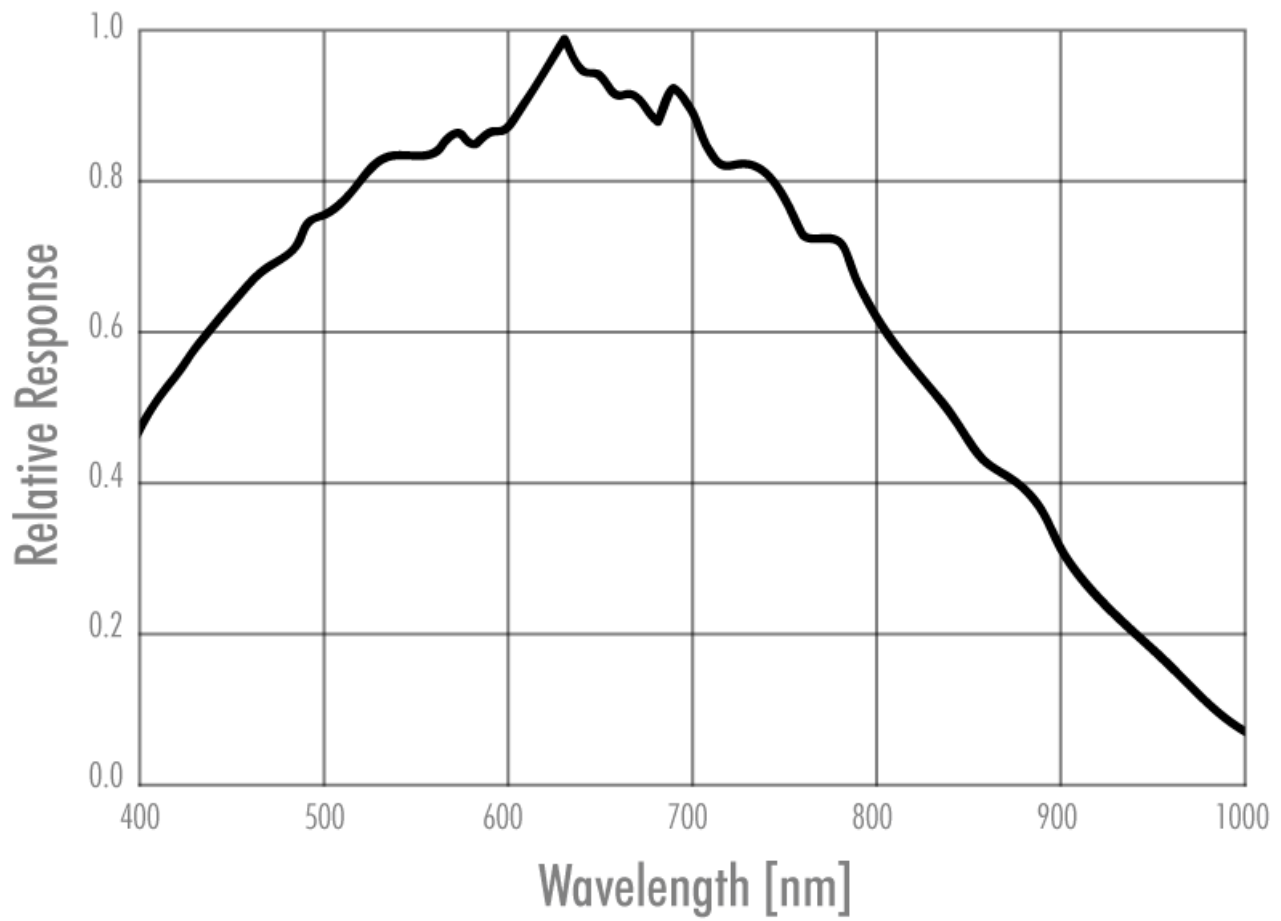
FW 功能 – 影像控制

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

FW 功能 – 相機控制

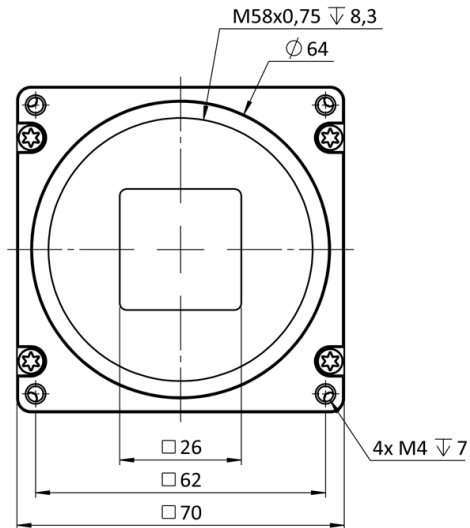
觸發模式/同步	internal, software, external
相機控制功能	User Sets, PWM(4), Sequencer,

量子效率

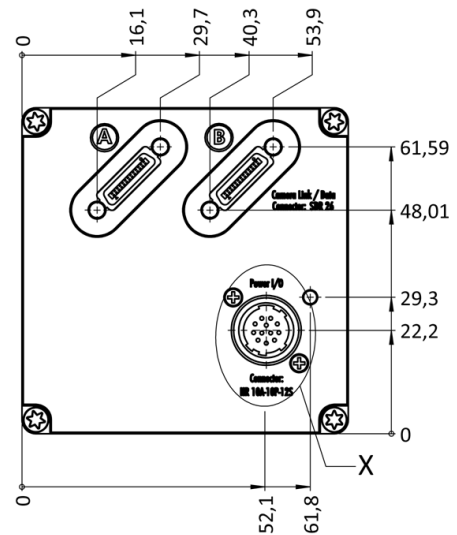


技術圖紙

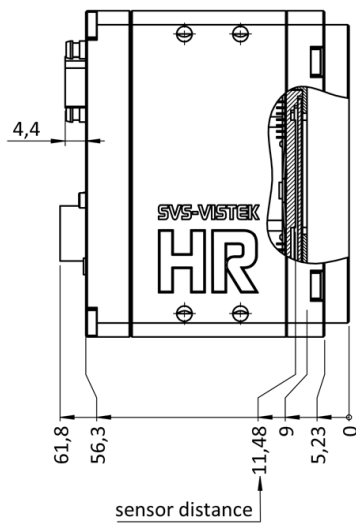
front view



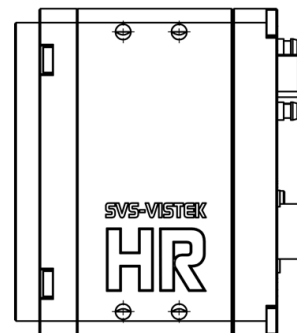
back view



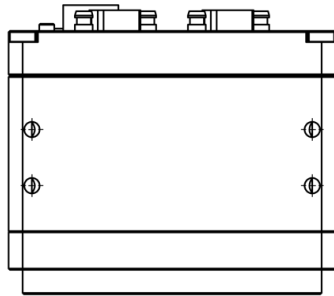
cross section



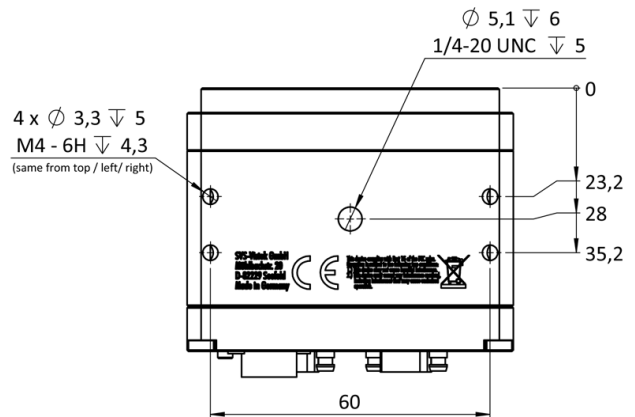
right view



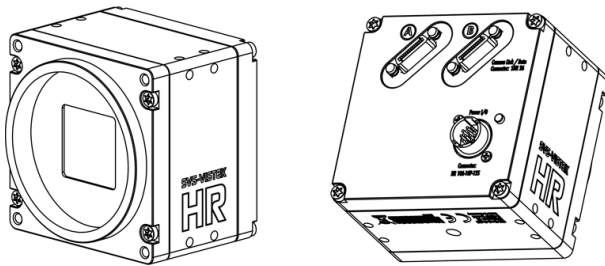
top view



bottom view



3D view



I/O 引脚分配



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)