



HR Camera Link

hr25CCL

一般

型號	hr25CCL
產品編號	F004052
產品系列	HR Camera Link
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	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
RGB 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

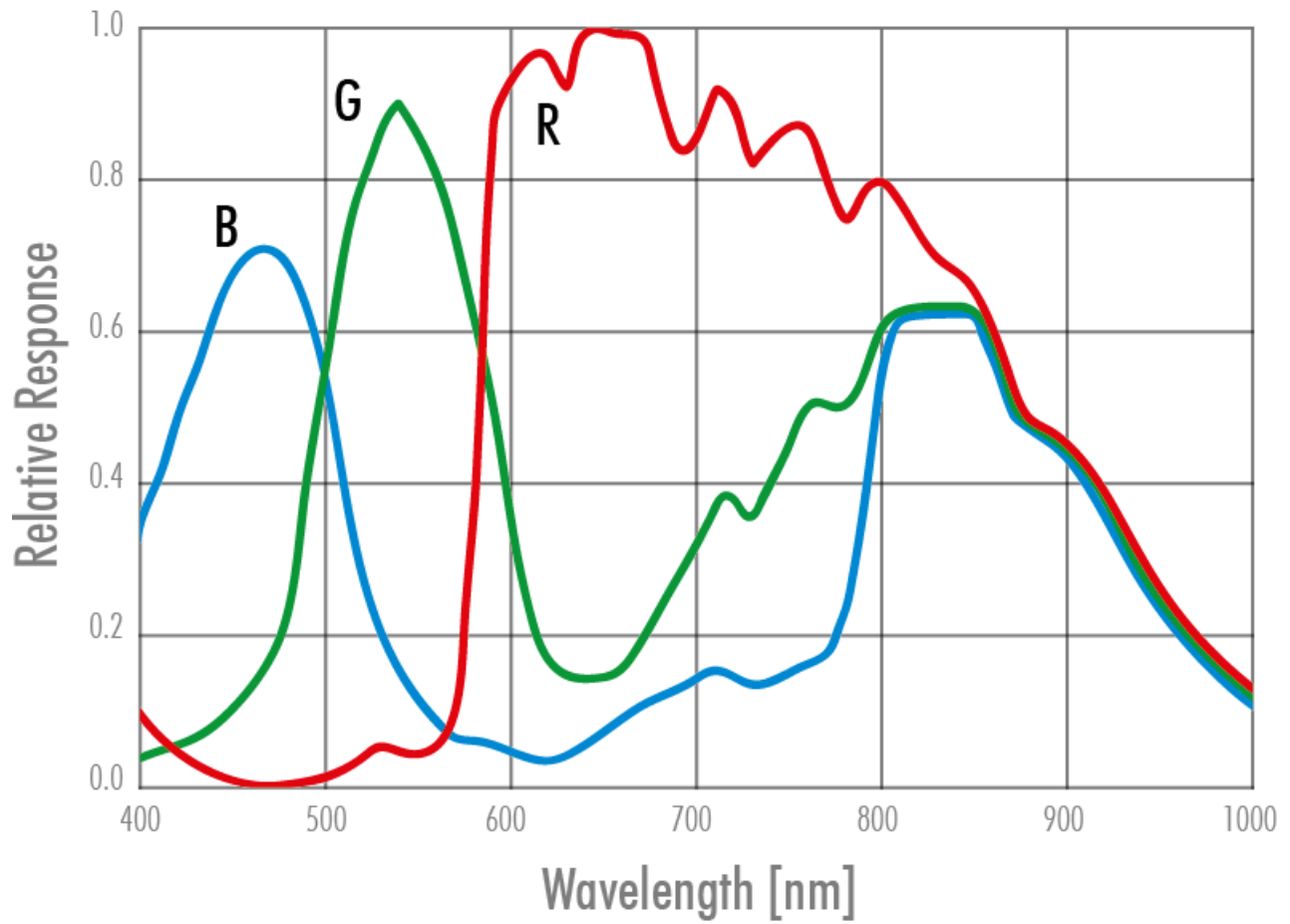
FW 功能 – 影像控制

曝光模式	manual, auto, external
增益模式	auto, manual
白平衡模式	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



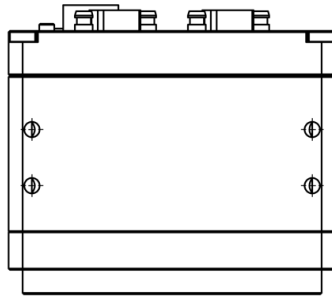
Technical drawing of the front view of a square plate. The plate has a square outer edge with a side length of 70 mm. The central square hole has a side length of 26 mm. The four circular holes at the corners have a diameter of 64 mm. The plate is made of M58x0,75 material with a thickness of 8,3 mm. The drawing includes dimension lines and labels for the material, thickness, and dimensions.

Labels and dimensions:

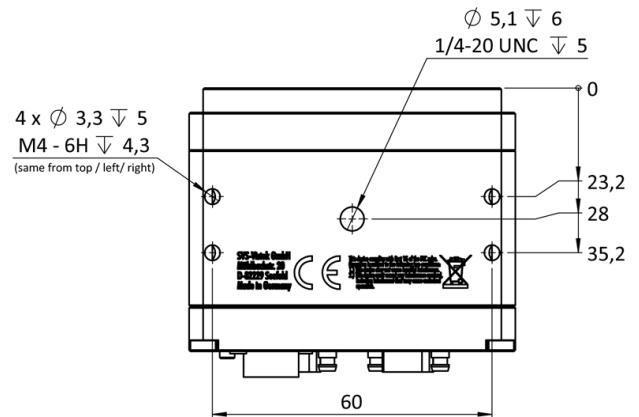
- Material and thickness: M58x0,75 ∇ 8,3
- Central square hole side length: 26
- Outer square side length: 70
- Inner square side length: 62
- Corner circular hole diameter: $\varnothing$ 64
- Corner fasteners: 4x M4 ∇ 7

Technical drawing of the SVS-VISTEK HR sensor unit. The drawing shows a top-down view of the rectangular unit with dimensions in millimeters. The overall width is 61,8 mm and the height is 56,3 mm. The sensor array is located on the right side, with a width of 11,48 mm and a height of 9 mm. The distance from the left edge to the start of the sensor array is 4,4 mm. The distance from the bottom edge to the start of the sensor array is 5,23 mm. The sensor array is labeled 'SVS-VISTEK HR'.

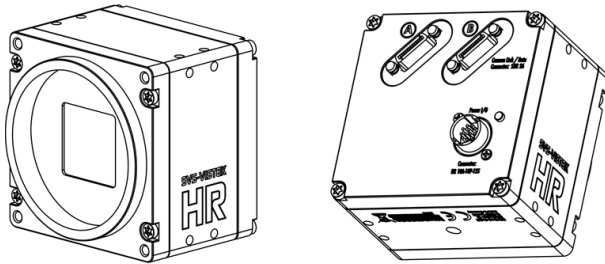
top view



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)