

Allied Vision

HR Camera Link

hr25CCL

□规	
型号	hr25CCL
产品代码	F004052
产品系列	HR Camera Link
状态	Available

传感器	
传感器类型	Area scan
色度	Color
光谱	Visible
光谱范围	400 nm to 1000 nm
分辨率	5,120 × 5,120 (25.00 MP)
传感器型号	ON Semi PYTHON 25K
传感器架构（材料）	cmos
快门类型	Global shutter (GS)
传感器尺寸	23.04 × 23.04 mm (32.58 mm, Type APS-H)
像素尺寸	4.50 µm × 4.50 µm

像素格式	
传感器位深度	8-bit, 10-bit
RGB像素格式	bayer8, bayer10

时序与增益	
最大帧率	31.8 fps
曝光时间	21 µs to 60 s
增益	0.0 dB to 18.0 dB

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I/O与电源

非电气隔离IO	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,
特定非电气隔离IO	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
光电隔离线路	1 x Optical isolated input, 0 x Optical isolated input,
I/O接口	12-pin Hirose HR10A-10P-12S
电源供应	10 to 25VDC
功耗	External: 10 W (typical)

工作条件

工作温度	-10 °C to 65 °C (外壳)

机械特性

机身尺寸（L x W x H mm）	56 × 70 × 70
IP防护等级	IP40
镜头接口	M58x0.75
重量	420 g

板载内存与FPGA

非易失性存储器（闪存）	32 MByte

接口

数字接口	camera link 80-bit
接口连接器	SDR

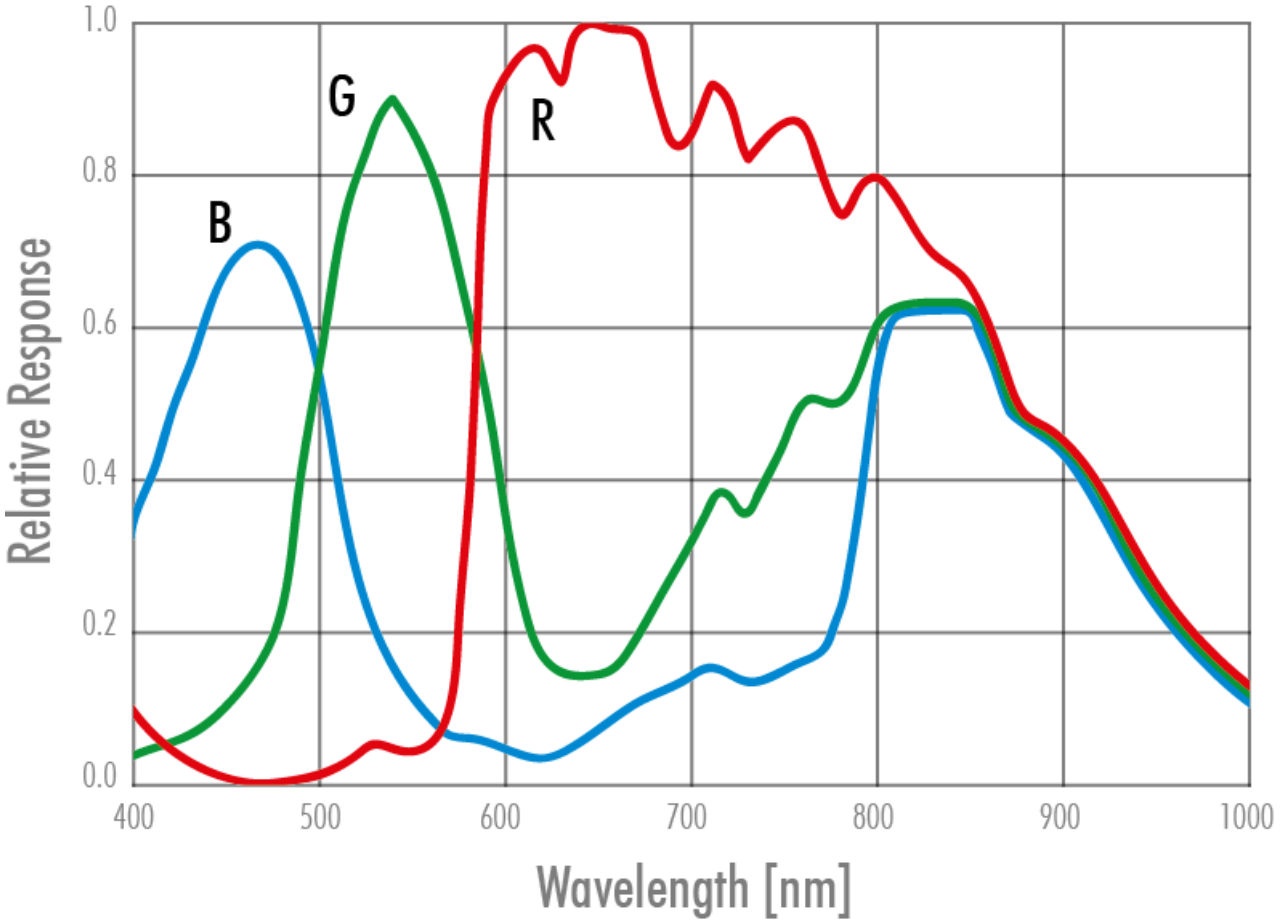
固件功能 - 图像控制

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

固件功能 - 相机控制

触发模式/同步	internal, software, external
相机控制功能	User Sets, PWM(4), Sequencer,

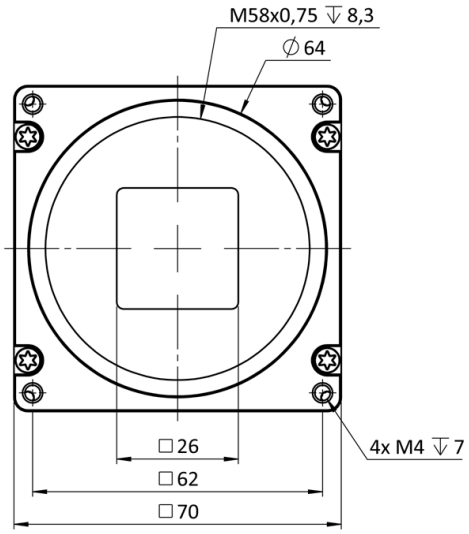
Quantum Efficiency



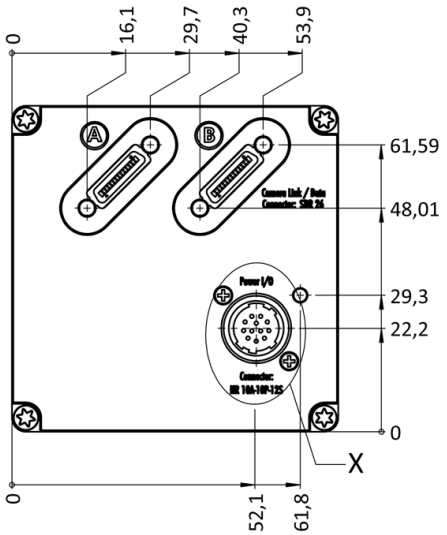
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Technical Drawing

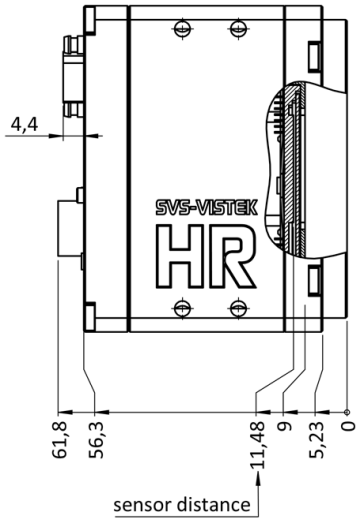
front view



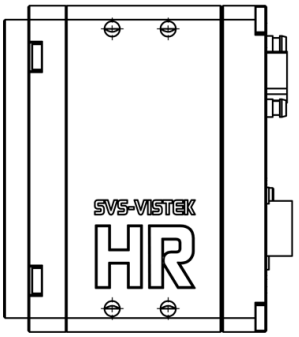
back view



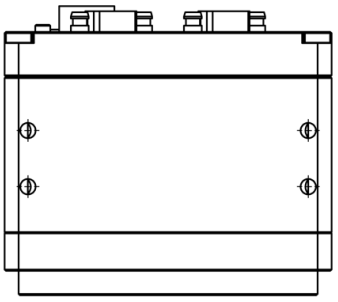
cross section



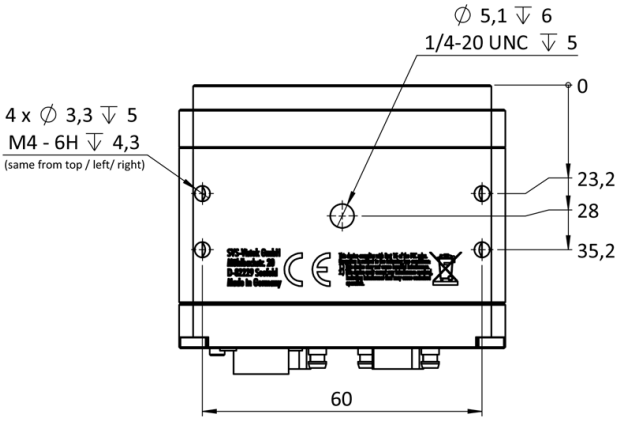
right view



top view

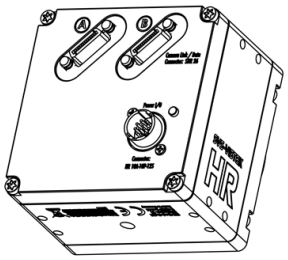


bottom view



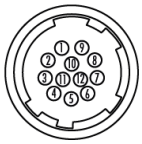
3D view





I/O pin assignment

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)