

Allied Vision

HR Camera Link

hr49MCL

规	
型号	hr49MCL
产品代码	F004136
产品系列	HR Camera Link
状态	Available

传感器	
传感器类型	Area scan
色度	Mono
光谱	Visible
光谱范围	400 nm to 1000 nm
分辨率	7,008 × 7,000 (49.00 MP)
传感器型号	Gpixel GMAX3265-49
传感器架构（材料）	cmos
快门类型	Global shutter (GS)
传感器尺寸	22.43 × 22.4 mm (31.7 mm, Type 2.3)
像素尺寸	3.20 µm × 3.20 µm

像素格式	
传感器位深度	8-bit, 10-bit
单色像素格式	mono8, mono10

时序与增益	
最大帧率	17 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: 9 W (typical)

工作条件

工作温度	-10 °C to 45 °C (环境，无冷凝)

机械特性

机身尺寸（L x W x H mm）	76 × 70 × 70
IP防护等级	IP30
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

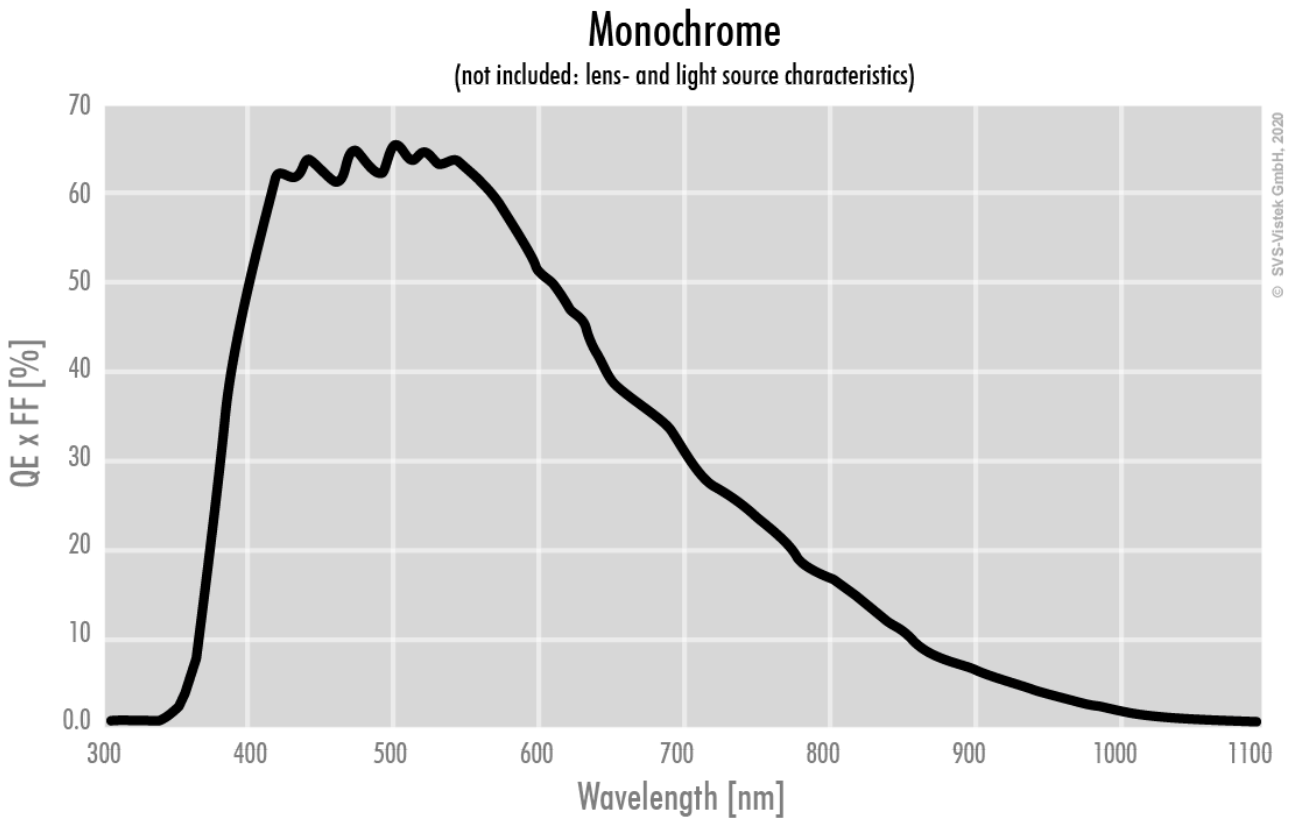
固件功能 - 图像控制

曝光模式	manual, auto, external
增益模式	auto, manual
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,

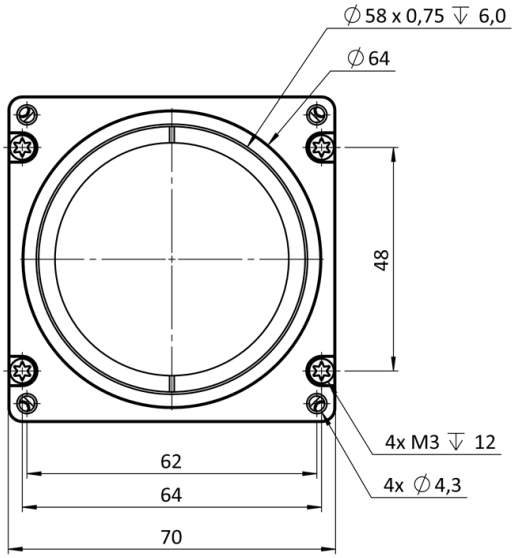
Quantum Efficiency



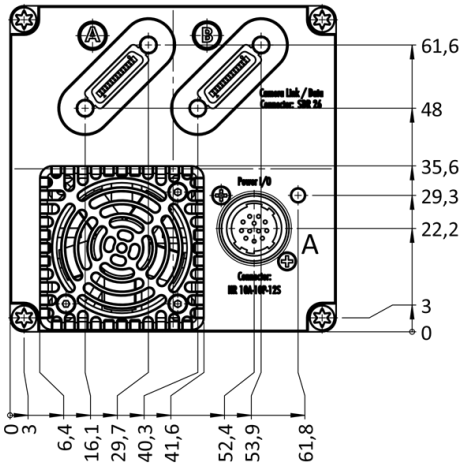
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Technical Drawing

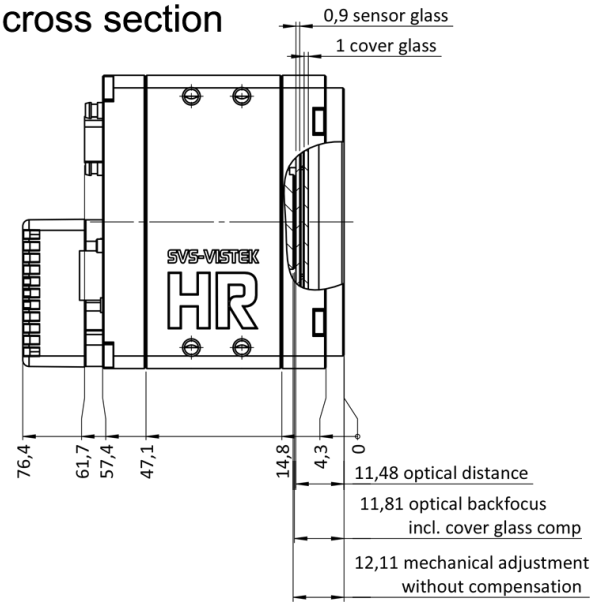
front



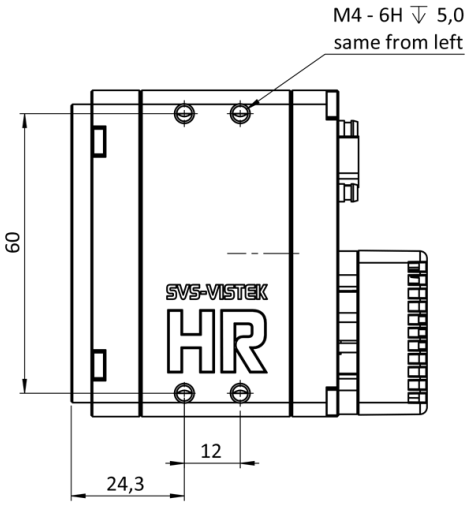
back



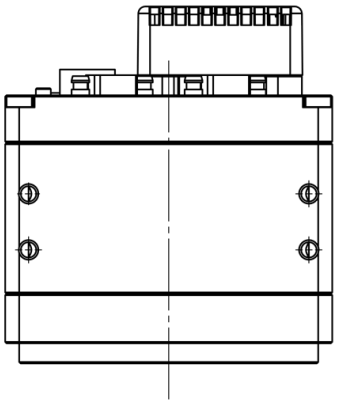
cross section



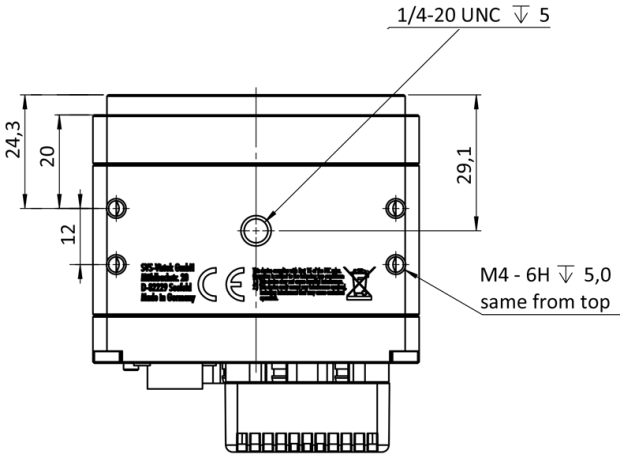
right side



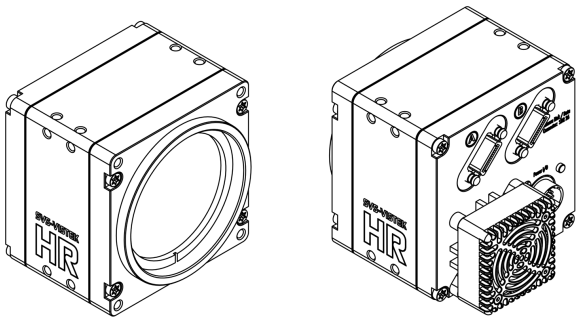
top



bottom

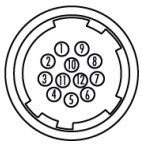


3D



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)