

Allied Vision

HR CoaXPress

hr455CCX

规	
型号	hr455CCX
产品代码	F004097
产品系列	HR CoaXPress
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	9,568 × 6,380 (61.00 MP)
传感器型号	Sony IMX455
传感器架构（材料）	cmos
快门类型	Rolling shutter (RS)
传感器尺寸	35.98 × 23.99 mm (43.24 mm, Type 2.7)
像素尺寸	3.76 µm × 3.76 µm

像素格式	
传感器位深度	8-bit, 10-bit, 12-bit, 16-bit
RGB像素格式	bayer8, bayer10, bayer12, bayer16

成像性能	
动态范围	81.4 dB
信噪比	47 dB

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时序与增益	
最大帧率	18 fps
曝光时间	34 µs to 60 s
增益	0.0 dB to 36.0 dB

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, Power over CoaXPress
功耗	External: 14 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）	78 × 70 × 70
滤光片/保护玻璃	N-BK7 - AR coating
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）	160 MByte

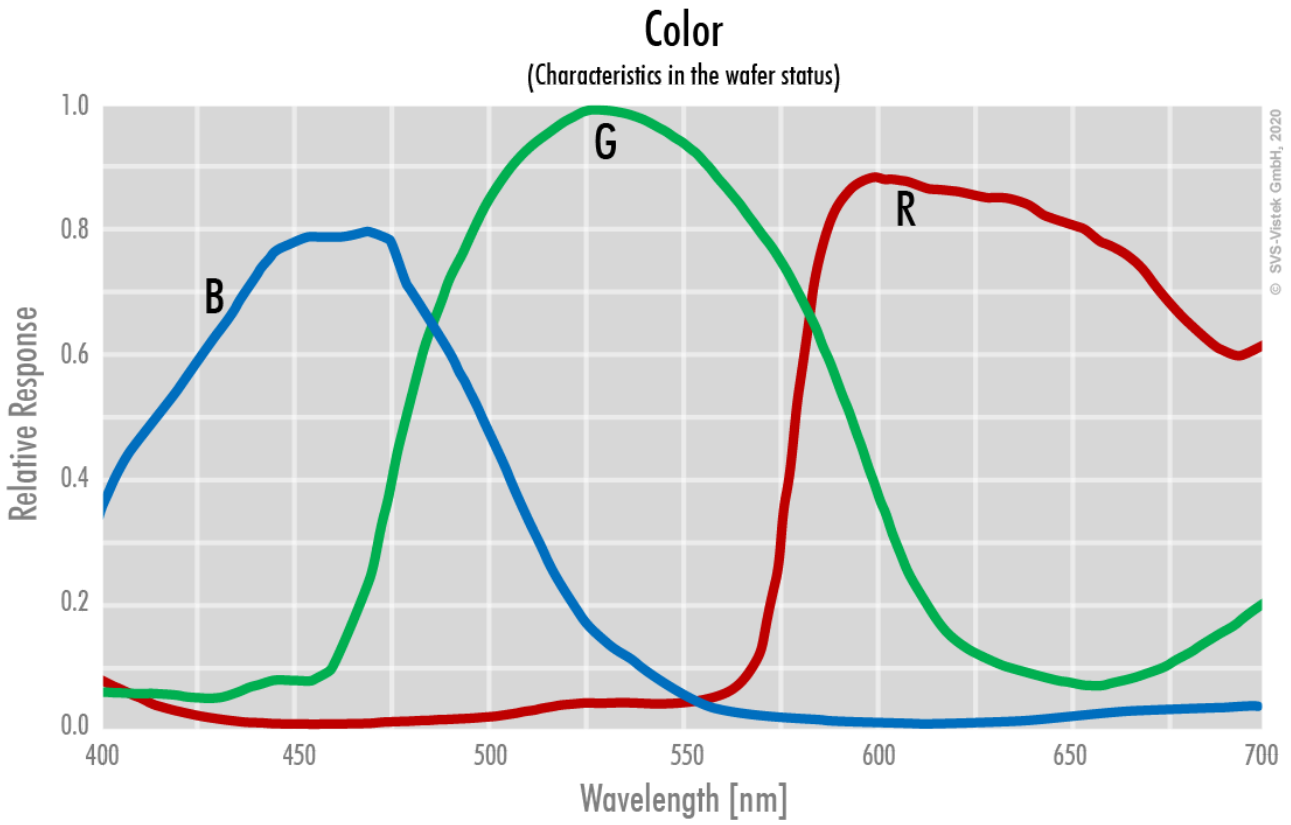
接口	
数字接口	cxp-6 with 4 connections
接口连接器	(Din1.0/2.3)
视觉标准	CoaXPress 1.0

固件功能 - 图像控制	
曝光模式	manual, auto
增益模式	auto, manual

固件功能 – 图像控制	
白平衡模式	auto, manual
图像控制功能	roi, 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	PoCxP, User Sets, PWM(4), Sequencer,

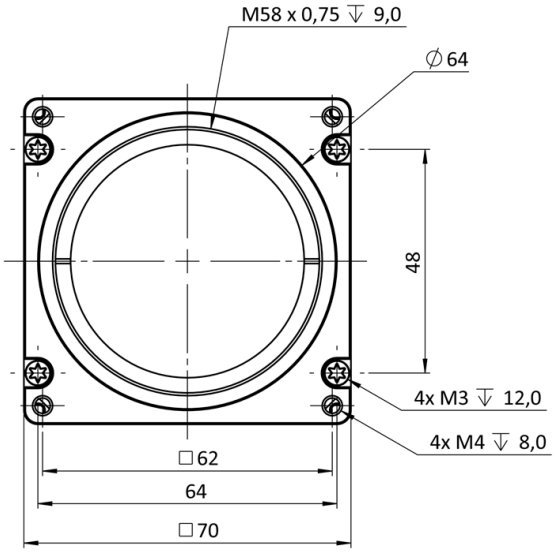
Quantum Efficiency



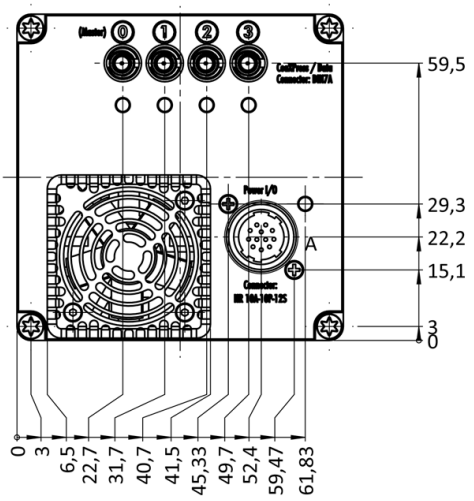
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Technical Drawing

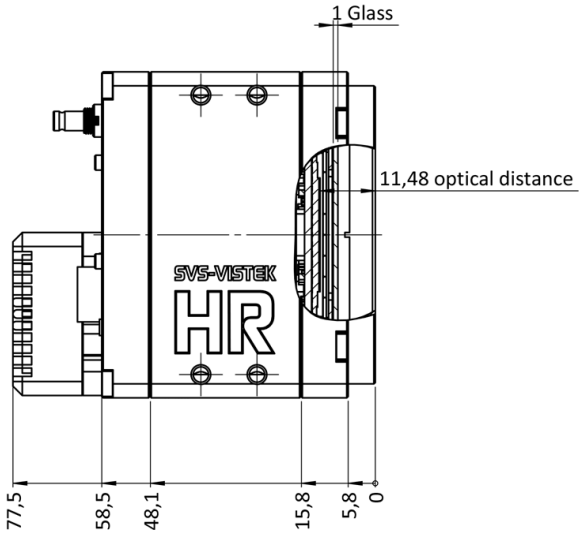
front



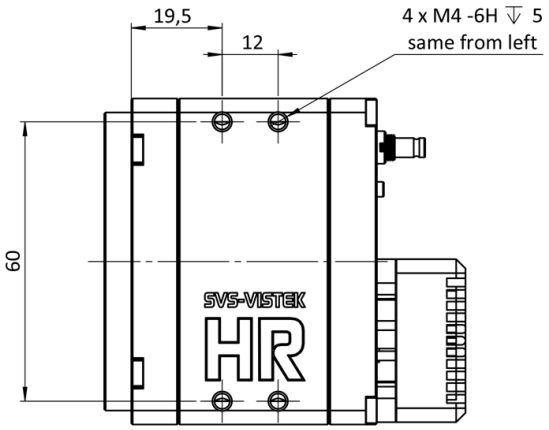
back



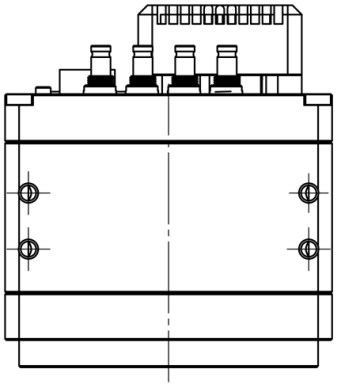
cross section



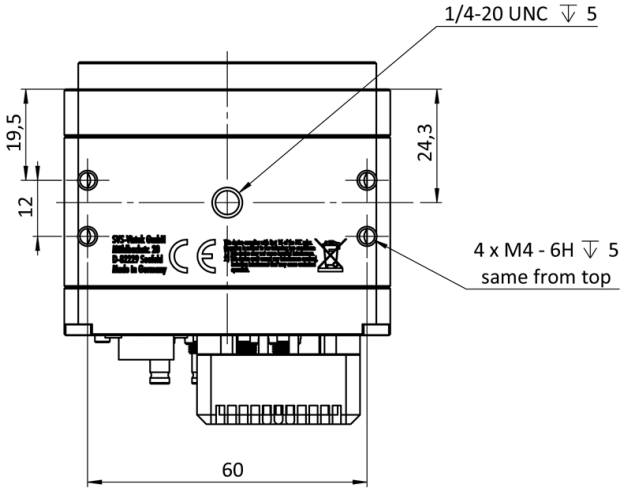
right side



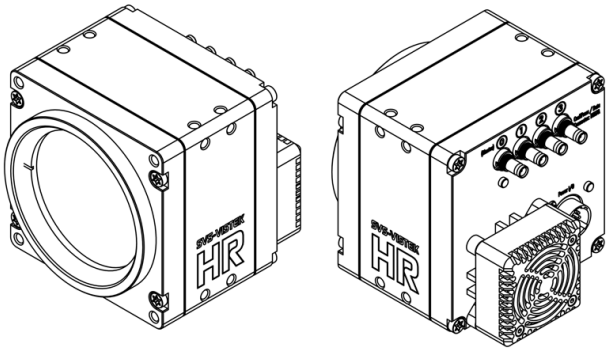
top



bottom

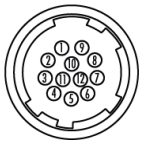


3D



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)