

Allied Vision

EXO GigE

exo546CGE

规	
型号	exo546CGE
产品代码	F002173
产品系列	EXO GigE
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	2,840 × 2,840 (8.10 MP)
传感器型号	Sony IMX546
传感器架构（材料）	cmos
快门类型	Global shutter (GS)
传感器尺寸	7.78 × 7.78 mm (11 mm, Type 2/3)
像素尺寸	2.74 µm × 2.74 µm

像素格式	
传感器位深度	8-bit, 12-bit
RGB像素格式	bayer8, bayer12packed

时序与增益	
最大帧率	15 fps
曝光时间	6 µs to 60 s
增益	0.0 dB to 48.0 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, Power over Ethernet
功耗	External: 4.5 W (typical)

工作条件

工作温度	-10 °C to 60 °C (外壳)

机械特性

机身尺寸（L x W x H mm）	43 × 50 × 50
滤光片/保护玻璃	IR-Cut - 680nm
IP防护等级	IP40
镜头接口	C-Mount
重量	143 g

板载内存与FPGA

图像缓存（RAM）	192 MByte
非易失性存储器（闪存）	32 MByte

接口

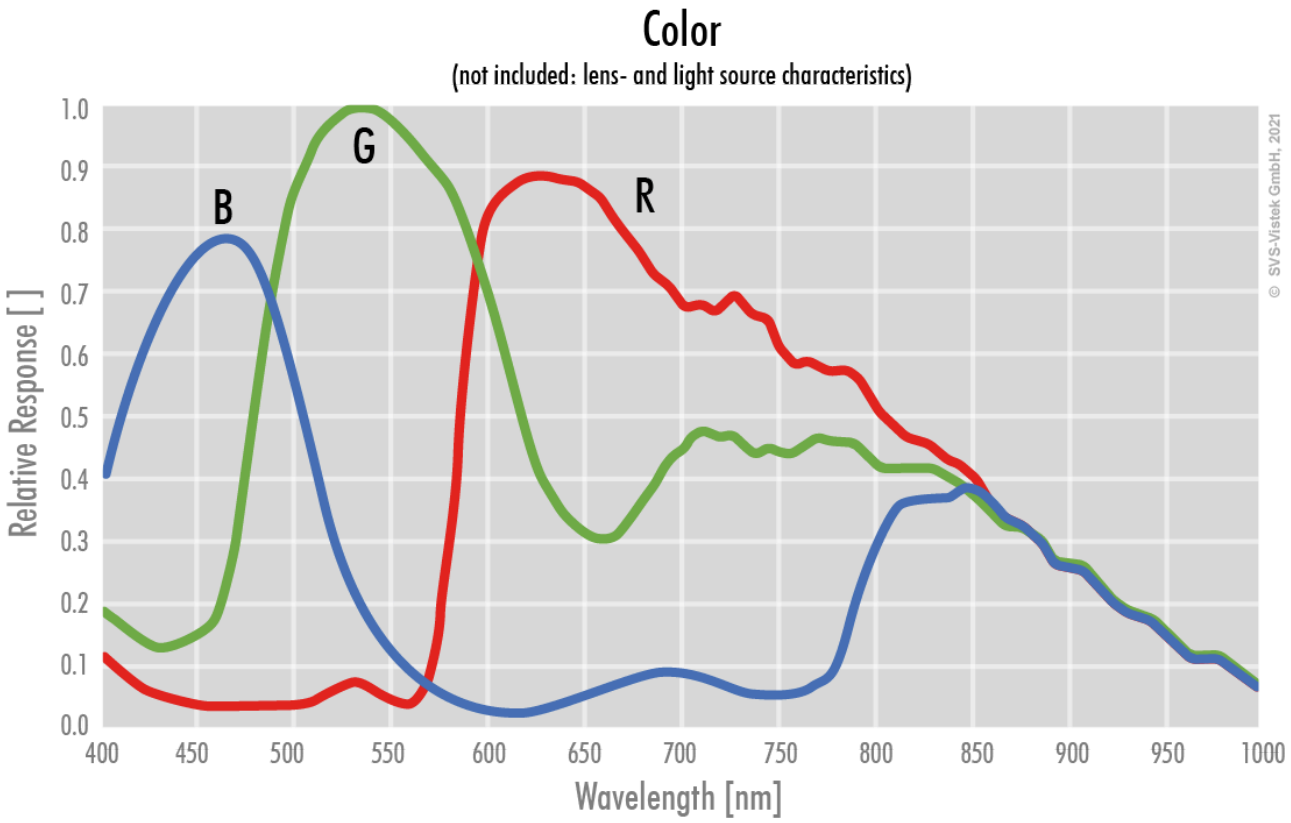
数字接口	gige
接口连接器	(RJ-45)
视觉标准	GigE Vision

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	roi, lut, color-transformation, 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	PTP, User Sets, POE, PWM(4), Sequencer,

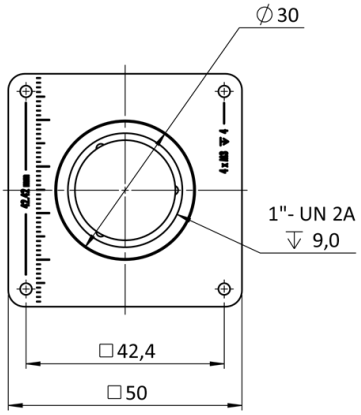
Quantum Efficiency



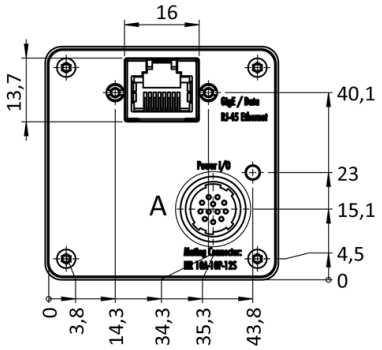
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Technical Drawing

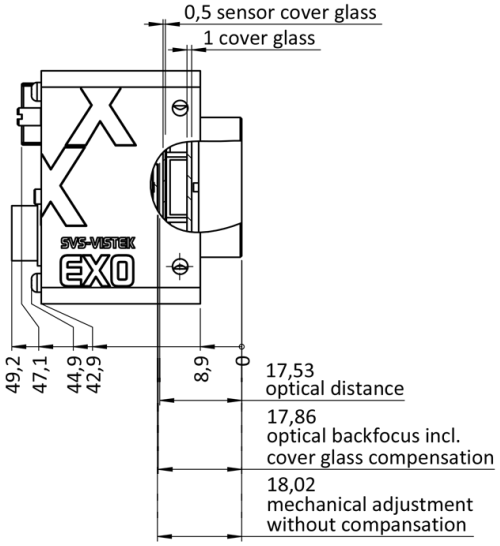
front



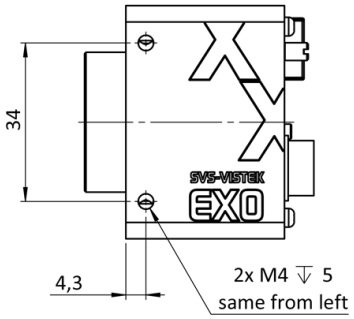
back



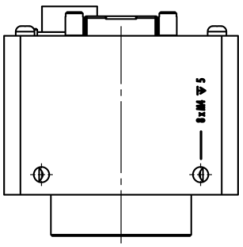
cross section



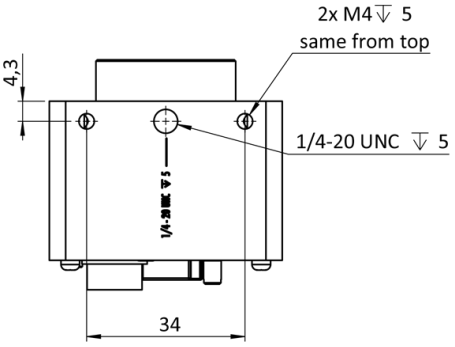
right side



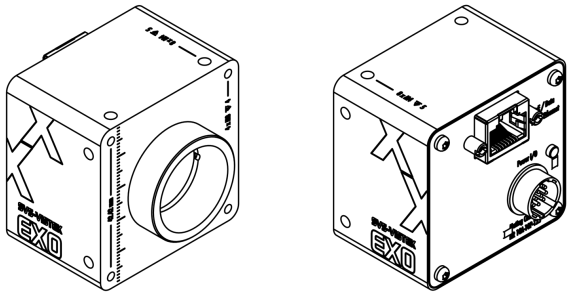
top



bottom

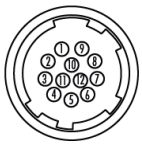


3D



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)