Allied Vision

EXO SWIR

exo991MGE

常规

型号	exo991MGE
产品代码	F002204
产品系列	EXO SWIR
状态	Available

传感器

传感器类型	Area scan
色度	Mono
光谱	SWIR, Visible SWIR
光谱范围	400 nm to 1700 nm
分辨率	640 × 512 (0.30 MP)
传感器型号	Sony IMX991 | InGaAs
传感器架构（材料）	cmos
快门类型	Global shutter (GS)
传感器尺寸	3.2 × 2.56 mm (4.1 mm, Type 1/4)
像素尺寸	5.00 µm × 5.00 µm

像素格式

传感器位深度	8-bit, 12-bit
单色像素格式	mono8, mono12

成像性能

动态范围	57 dB

时序与增益

最大帧率	260 fps
曝光时间	21 µs to 500.00 ms
增益	0.0 dB to 42.0 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 Ethernet
功耗	External: 3.5 W (typical)

工作条件

工作温度（外壳	-10 °C to 60 °C

机械特性

机身尺寸（L x W x H mm）	43 × 50 × 50
IP防护等级	IP40
镜头接口	C-Mount
重量	138 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
增益模式	auto, manual
图像控制功能	roi, lut, mirror-image, dpc, nuc, ffc

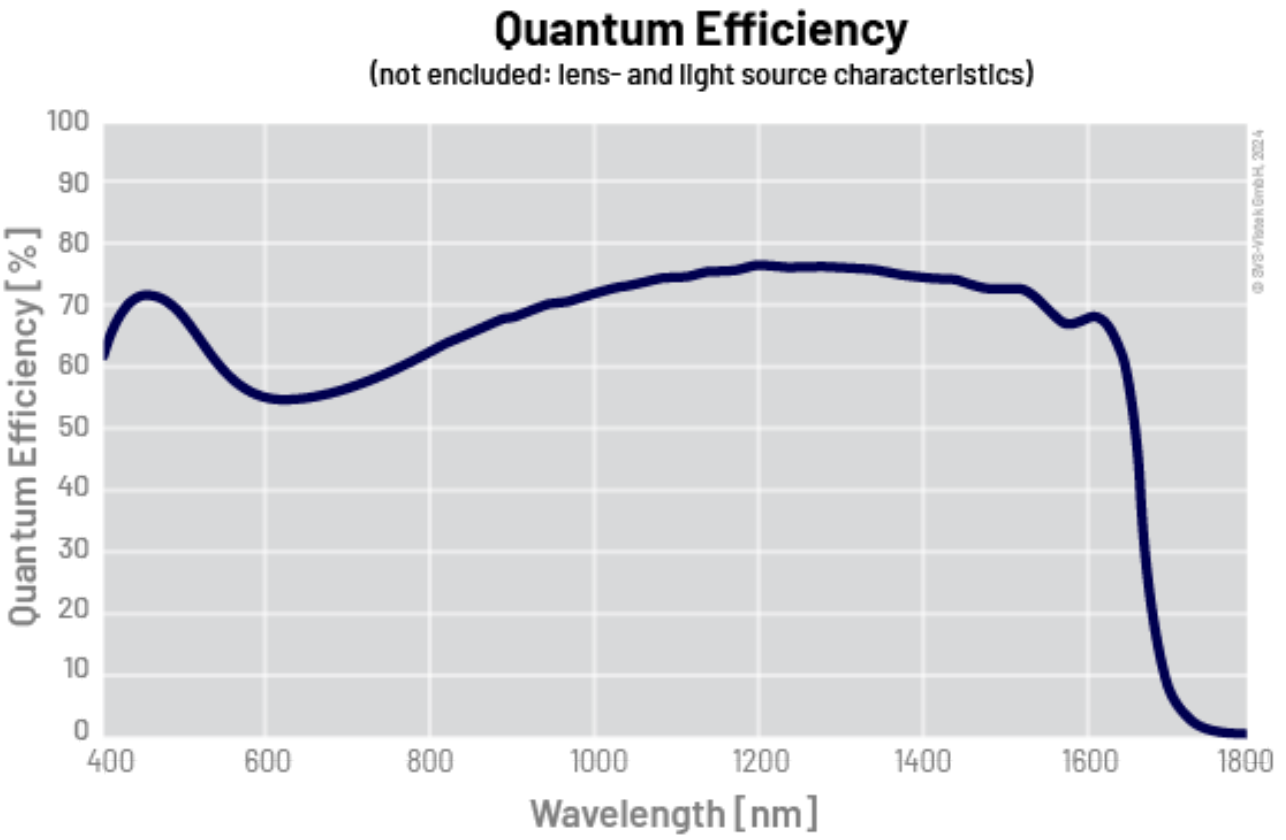
固件功能 - 相机控制

触发模式/同步	internal, software, external

固件功能 - 相机控制

相机控制功能	User Sets, POE, PWM(4), Sequencer,

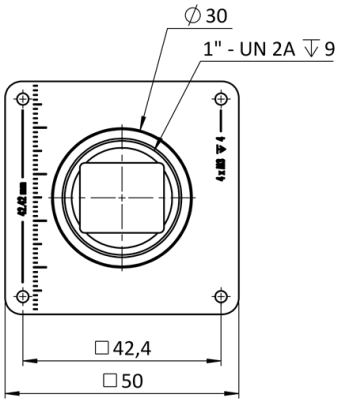
Quantum Efficiency



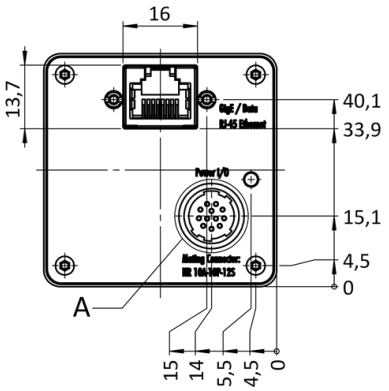
Allied Vision

Technical Drawing

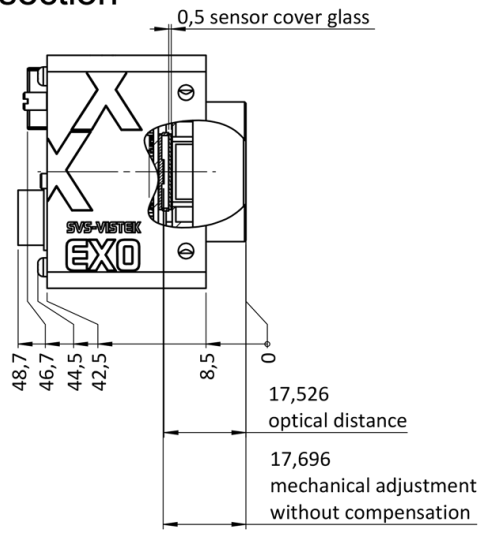
front



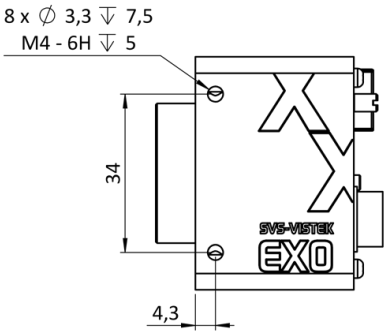
back



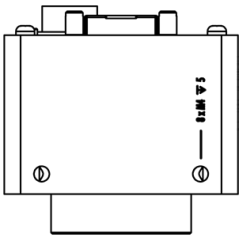
cross section



right side



top



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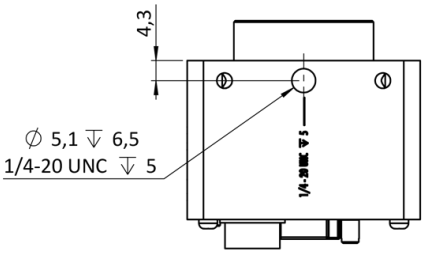
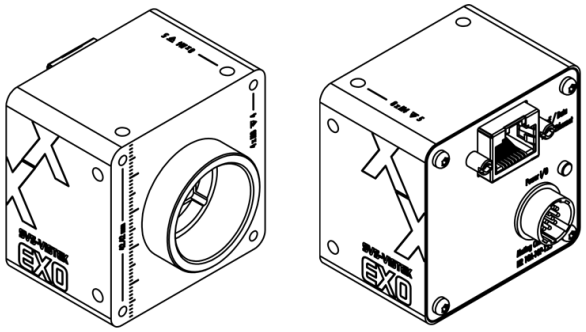
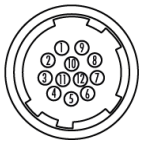


3D



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)