Allied Vision

EXO SWIR

exo990MU3

常规

型号:	exo990MU3
产品代码:	F002237
产品系列:	EXO SWIR
状态:	Available

传感器

传感器类型:	Area scan
色度:	Mono
光谱:	eXtended SWIR
光谱范围:	400 nm to 1700 nm
分辨率:	1,280 × 1,024 (1.30 MP)
传感器型号:	Sony IMX990AABJ
传感器架构（材料）:	cmos
快门类型:	global-shutter
传感器尺寸:	6.40 × 5.12 mm (8.20 mm, 8.2mm (Type 1/2))
像素尺寸:	5.00 µm × 5.00 µm

像素格式

传感器位深度:	8-Bit,12-Bit,12-Bit
单色像素格式:	mono8, mono12packed

成像性能

动态范围:	57 dB

时序与增益

最大帧率:	125.4 fps
曝光时间:	1 µs (max)
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,
电源供应:	10 to 25VDC
功耗:	External: 4 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:	usb3.0
接口连接器:	(Micro-B)

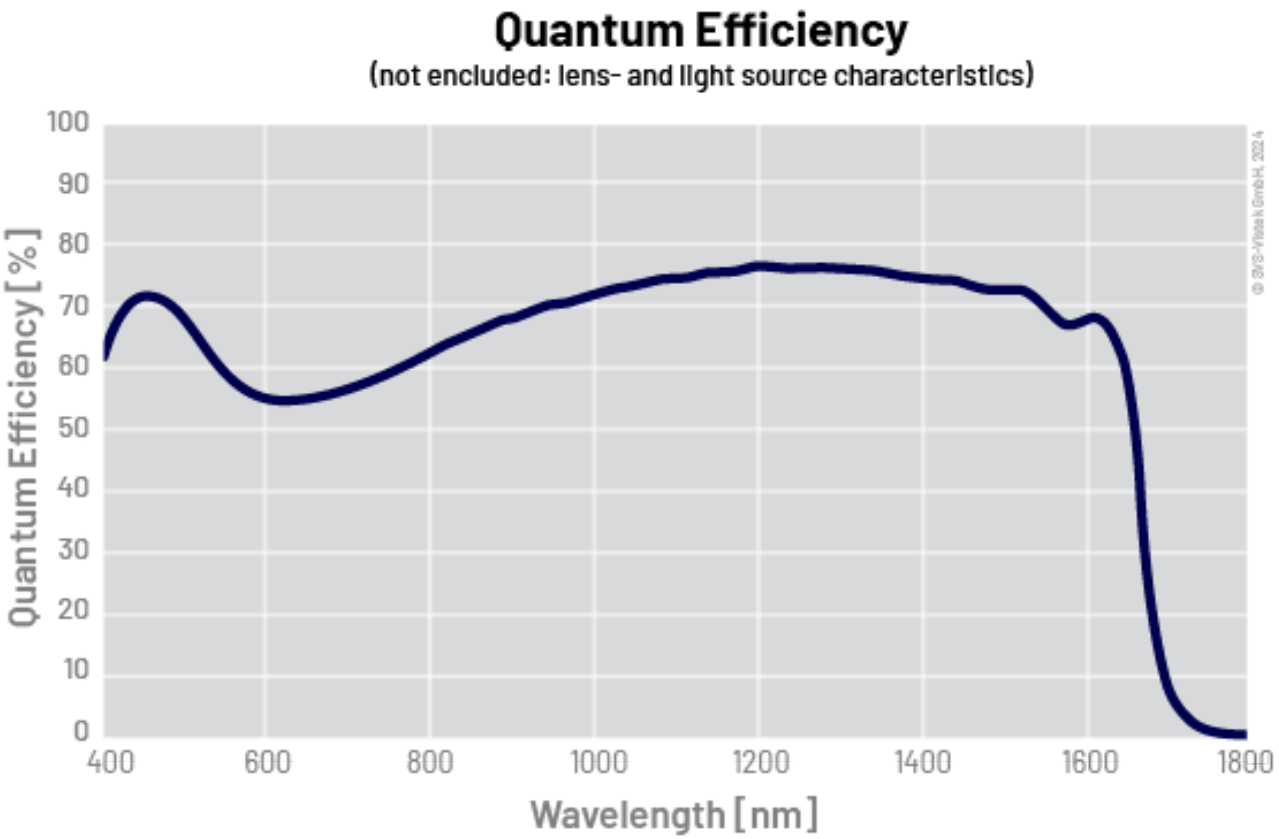
固件功能 - 图像控制

曝光模式:	Manual, Auto
增益模式:	Auto, Manual
图像控制功能:	FW Features - Image Control

固件功能 - 相机控制

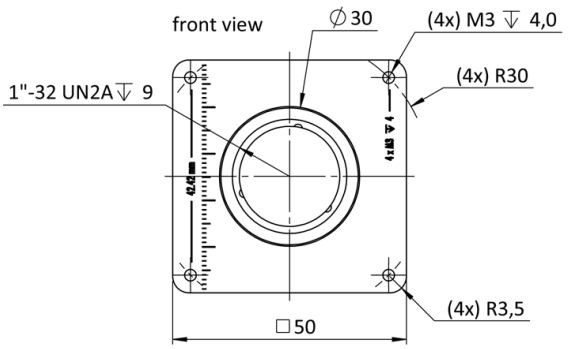
触发模式/同步:	INTERNAL,SOFTWARE,EXTERNAL
相机控制功能:	User Sets, PWM(4), Sequencer,

Quantum Efficiency

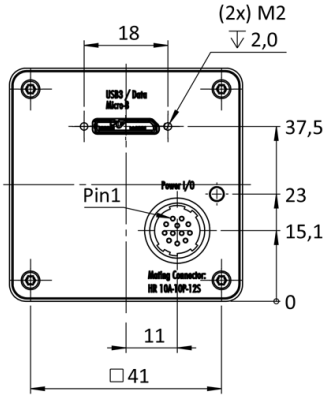


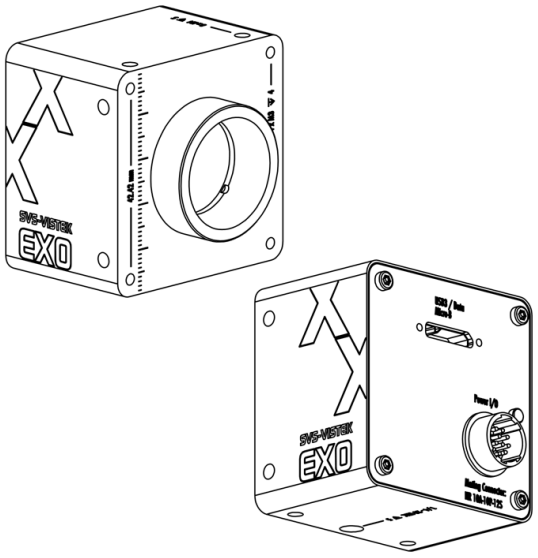
Technical Drawing

front

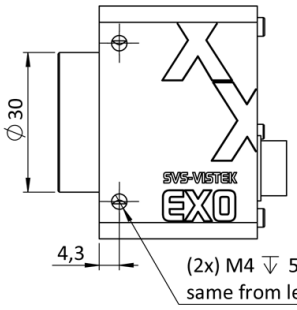


back

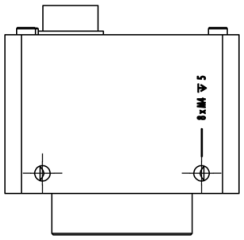




right side



top



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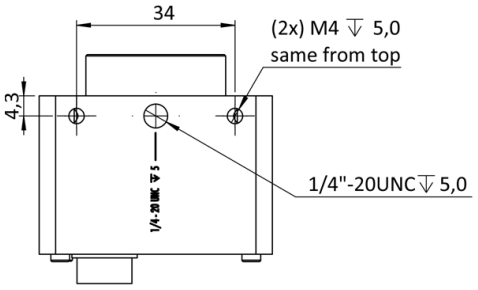
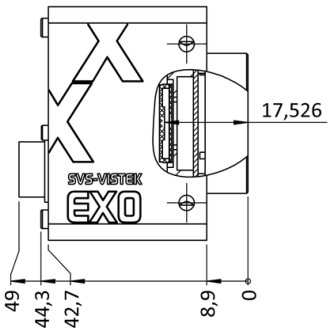
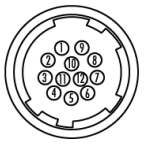


cross section



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)