



常规

型号:	exo249MU3
产品代码:	F001680
产品系列:	EXO USB3
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:	1,920 × 1,200 (2.30 MP)
传感器型号:	Sony IMX249LLJ
传感器架构 (材料) :	cmos
快门类型:	global-shutter
传感器尺寸:	11.25 × 7.03 mm (13.27 mm, 13.4mm (Type 1/1.2))
像素尺寸:	5.86 μm × 5.86 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: 72 dB

信噪比: 44 dB

时序与增益

最大帧率: 41 fps

曝光时间: 60 μ s (max)

增益: 0.0 dB to 48.0 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: 4.5 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 x 50 x 50

滤光片/保护玻璃: K9 - AR coating - 400-850nm

IP防护等级: IP40

镜头接口: C-Mount

重量: 140 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, External

固件功能 - 图像控制

增益模式:	Auto, Manual
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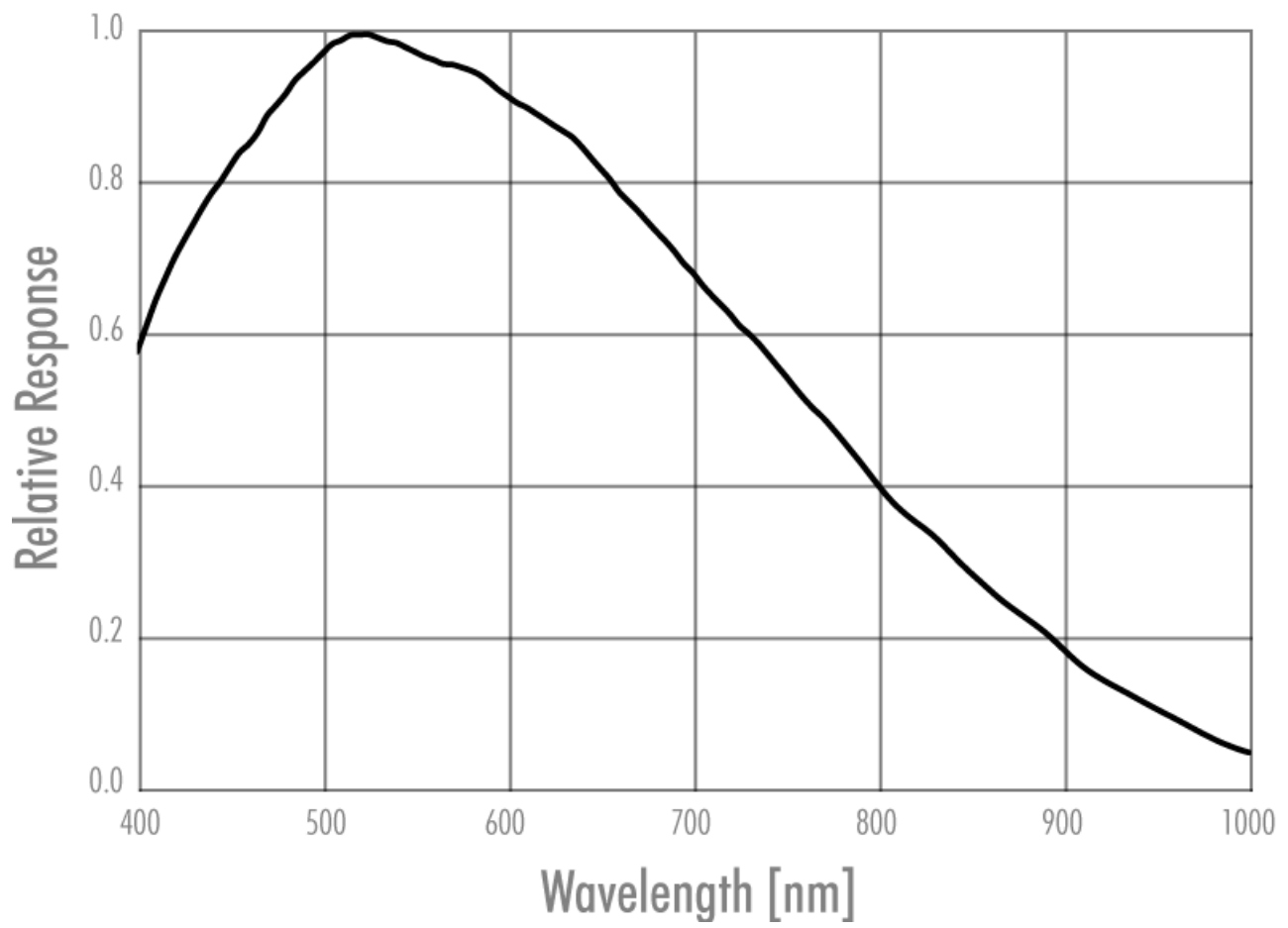
图像控制功能:	FW Features - Image Control
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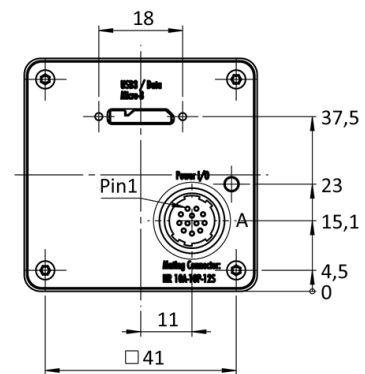
固件功能 - 相机控制

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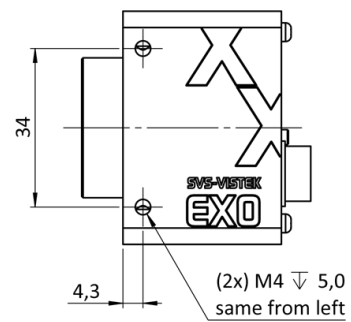
相机控制功能:	User Sets, PWM(4), Sequencer,
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Quantum Efficiency

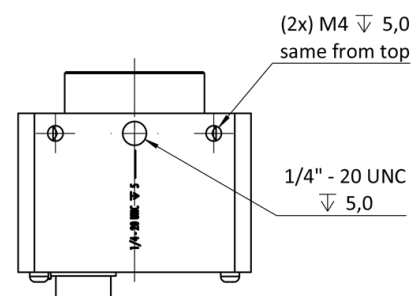


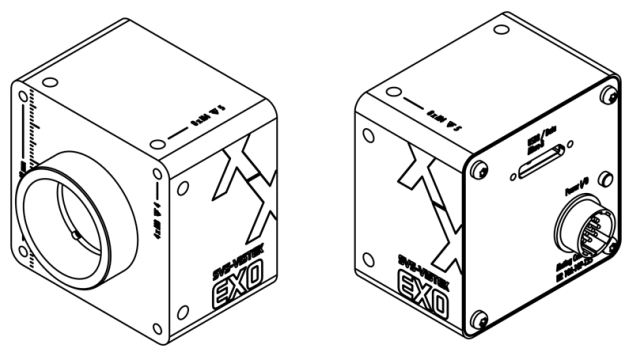


right side

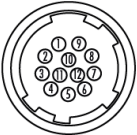


bottom





I/O pin assignment

	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)