

EXO USB3

exo541MU3



常规

型号:	exo541MU3
产品代码:	F002076
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:	4,504 × 4,504 (20.30 MP)
传感器型号:	Sony IMX541LLA
传感器架构 (材料) :	cmos
快门类型:	global-shutter
传感器尺寸:	12.34 × 12.34 mm (17.45 mm, 17.5mm (Type 1.1))
像素尺寸:	2.74 µm × 2.74 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:	39.19 dB

时序与增益

最大帧率:	18.4 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 W (typical)

工作条件

工作温度（外壳:	-10 °C to 65 °C
----------	-----------------

机械特性

机身尺寸（L x W x H mm）:	43 × 50 × 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
-------	--------------

图像控制功能:	FW Features - Image Control
---------	-----------------------------

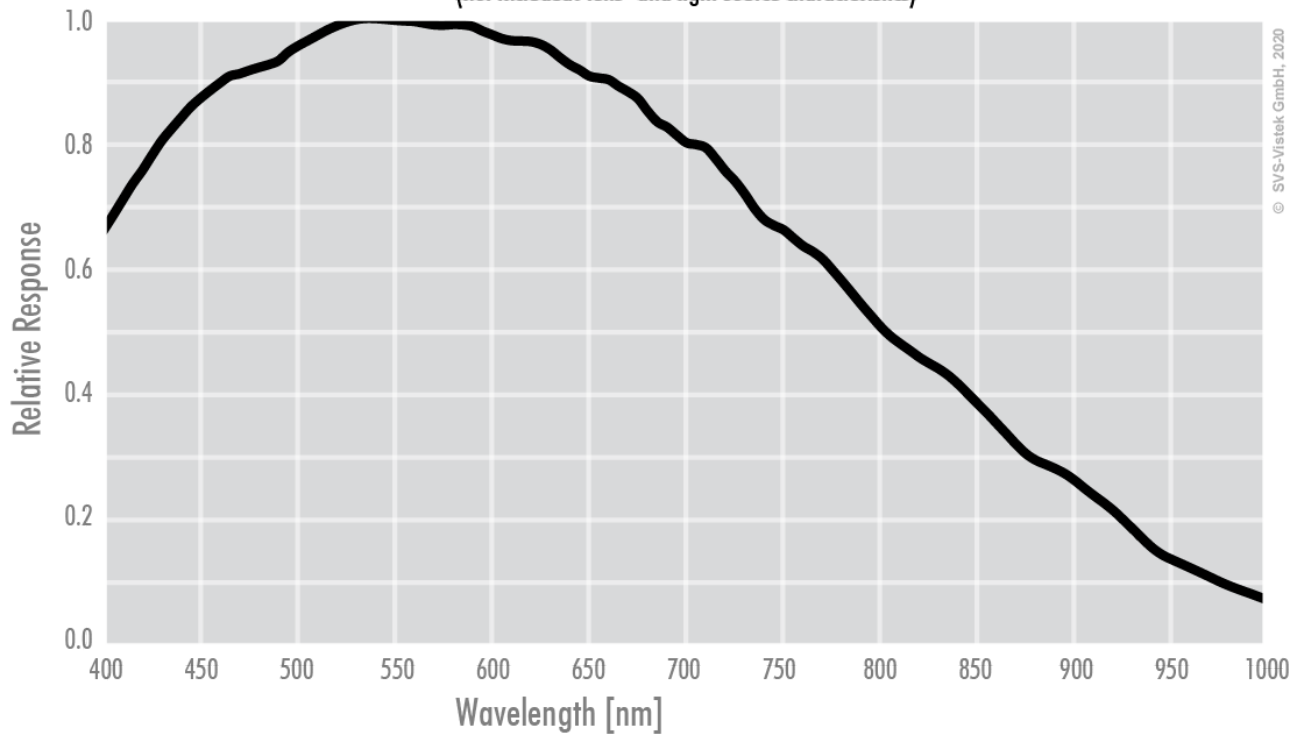
固件功能 - 相机控制

触发模式/同步:	INTERNAL, SOFTWARE, EXTERNAL
----------	------------------------------

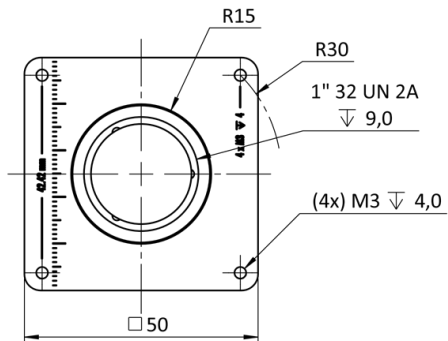
相机控制功能:	User Sets, PWM(4), Sequencer,
---------	-------------------------------

Monochrome

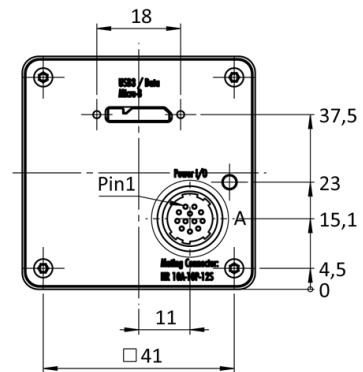
(not included: lens- and light source characteristics)



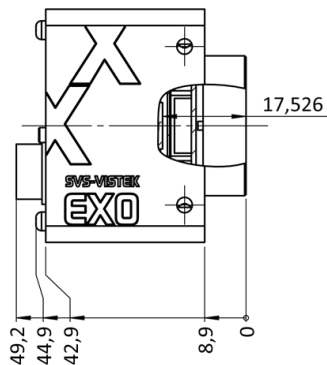
front



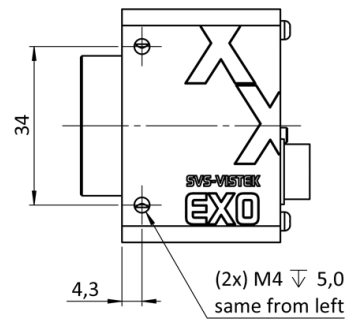
back



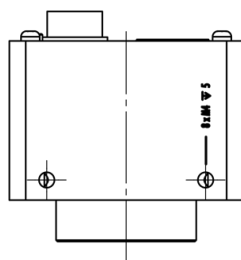
cross section



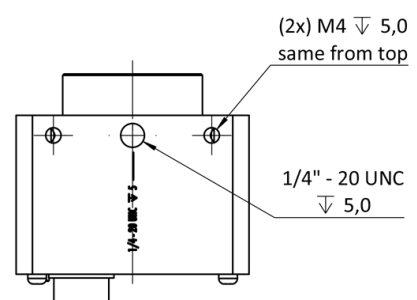
right side

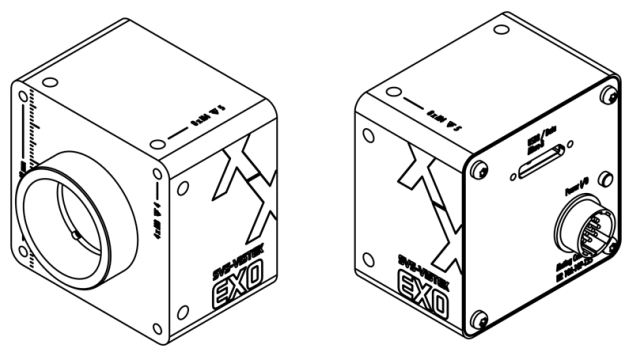


top

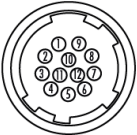


bottom





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)