



常规

型号:	exo4000MU3
产品代码:	F001627
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:	2,048 × 2,048 (4.00 MP)
传感器型号:	CMOSIS CMV4000-3E5M1PP
传感器架构 (材料) :	cmos
快门类型:	global-shutter
传感器尺寸:	11.26 × 11.26 mm (15.93 mm, 15.9mm (1"))
像素尺寸:	5.50 μm × 5.50 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: 52 dB

信噪比: 38 dB

时序与增益

最大帧率: 74 fps

曝光时间: 10 μ s (max)

增益: 0.0 dB to 11.0 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)

机械特性

机身尺寸 (L x W x H mm) : 47 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: 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, External

增益模式: Auto, Manual

图像控制功能: FW Features - Image Control

固件功能 - 相机控制

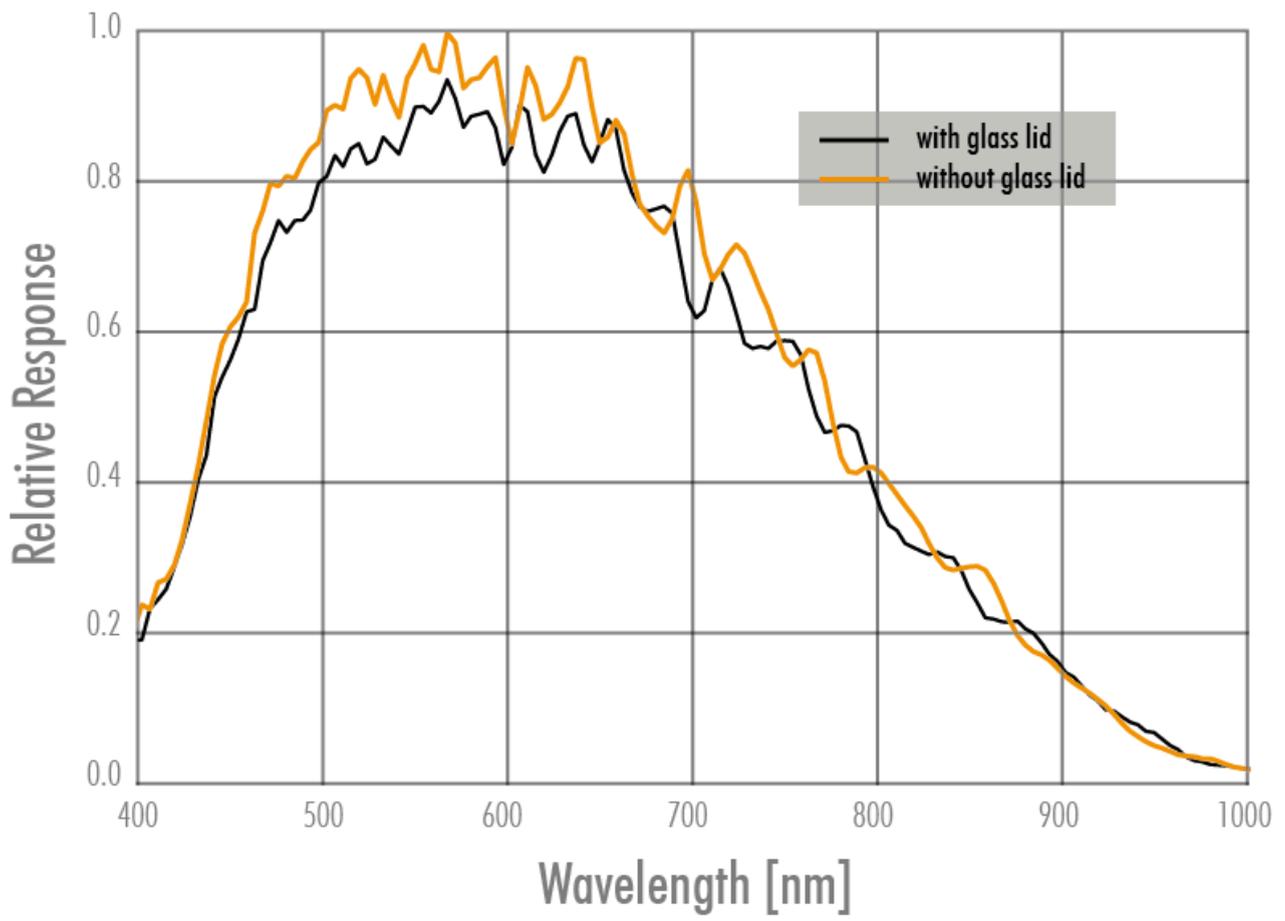
触发模式/同步:

INTERNAL, SOFTWARE, EXTERNAL

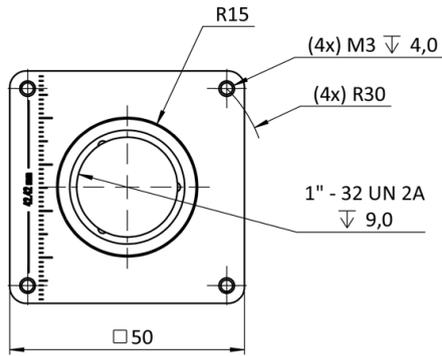
相机控制功能:

User Sets, PWM(4), Sequencer,

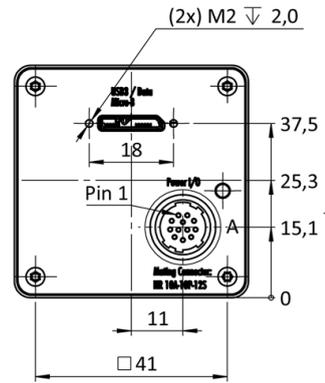
Quantum Efficiency



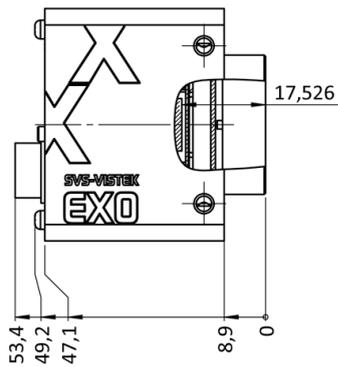
front



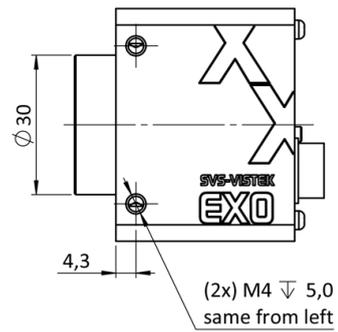
back



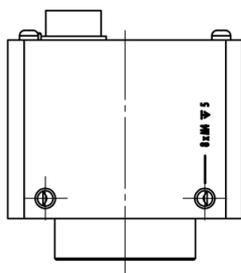
cross section



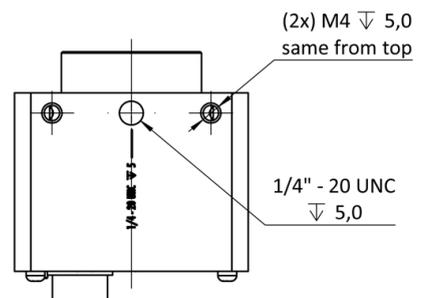
right side

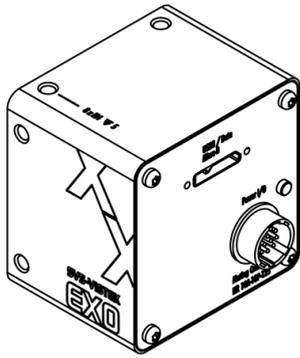


top



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)