



常规

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|-------|-----------|
| 型号: | exo183CGE |
| 产品代码: | F002191 |
| 产品系列: | EXO GigE |
| 状态: | Available |

传感器

| | |
|--------------|--|
| 传感器类型: | Area scan |
| 色度: | Color |
| 光谱: | Visible |
| 光谱范围: | 400 nm to 1000 nm |
| 分辨率: | 5,496 × 3,672 (20.20 MP) |
| 传感器型号: | Sony IMX183CQJ |
| 传感器架构 (材料) : | cmos |
| 快门类型: | rolling-shutter |
| 传感器尺寸: | 13.19 × 8.81 mm (15.86 mm, 15.86mm (Type 1)) |
| 像素尺寸: | 2.40 μm × 2.40 μm |

像素格式

| | |
|----------|-----------------------|
| 传感器位深度: | 8-Bit,12-Bit,12-Bit |
| RGB像素格式: | bayer8, bayer12packed |

成像性能

动态范围: 71.5 dB

信噪比: 40 dB

时序与增益

最大帧率: 6 fps

最大帧率 (突发) : 16 fps

曝光时间: 60 μ s (max)

增益: 0.0 dB to 27.0 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: 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: IR-Cut - 680nm

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: gige

接口连接器: (RJ-45)

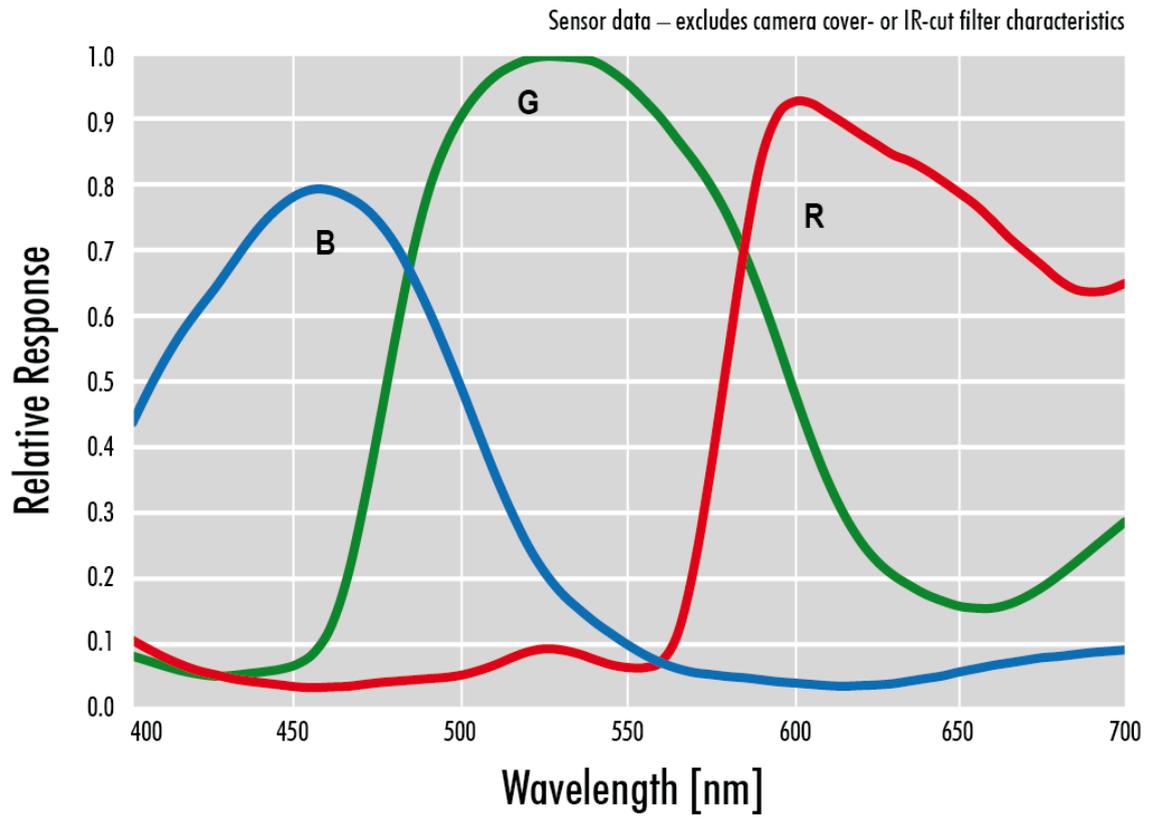
固件功能 - 图像控制

| | |
|---------|-----------------------------|
| 曝光模式: | Manual, Auto |
| 增益模式: | Auto, Manual |
| 白平衡模式: | auto, manual |
| 图像控制功能: | FW Features - Image Control |

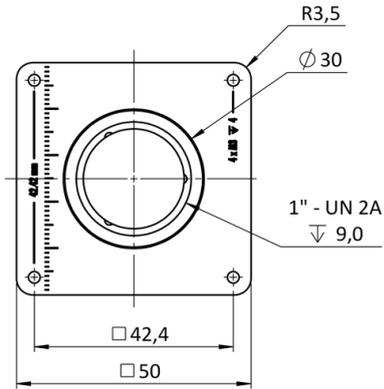
固件功能 - 相机控制

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

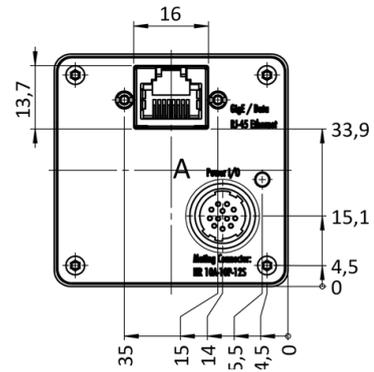
Quantum Efficiency



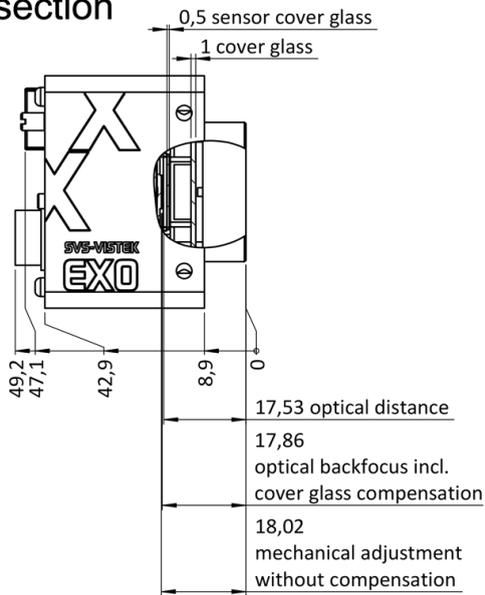
front



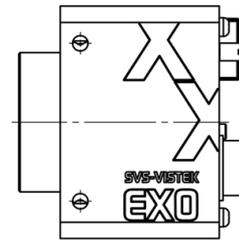
back



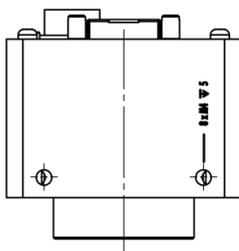
cross section



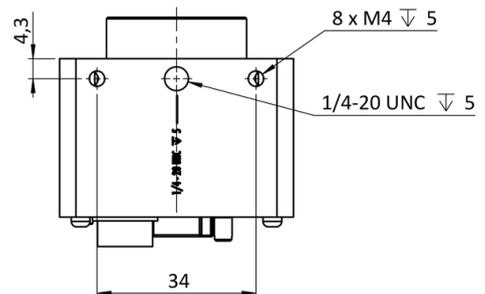
right side

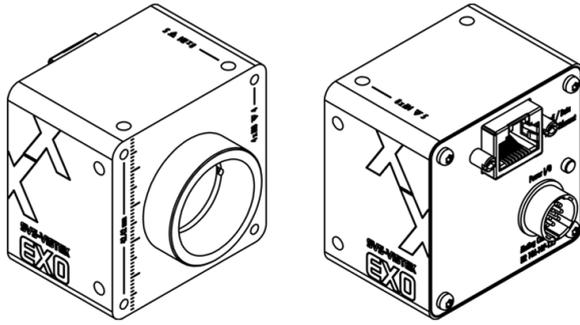


top



bottom





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) |