Allied Vision

FXO 10GigE

fxo542CXGE

常规

型号	fxo542CXGE
产品代码	F002095
产品系列	FXO 10GigE
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	5,320 × 3,032 (16.10 MP)
传感器型号	Sony IMX542
传感器架构（材料）	cmos
快门类型	Global shutter (GS)
传感器尺寸	14.58 × 8.31 mm (16.78 mm, 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
RGB像素格式	bayer8, bayer12

成像性能

动态范围	72 dB
信噪比	39.16 dB

时序与增益

最大帧率	45.6 fps
曝光时间	21 µs to 60 s
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,
I/O接口	12-pin Hirose HR10A-10P-12S
电源供应	10 to 25VDC, Power over Ethernet
功耗	External: 9 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）	76 × 50 × 50
滤光片/保护玻璃	IR-Cut - 680nm
IP防护等级	IP30
镜头接口	C-Mount
重量	240 g

板载内存与FPGA

图像缓存（RAM）	896 MByte
非易失性存储器（闪存）	32 MByte

接口

数字接口	10gige
接口连接器	(RJ-45)
视觉标准	GigE Vision 2.0

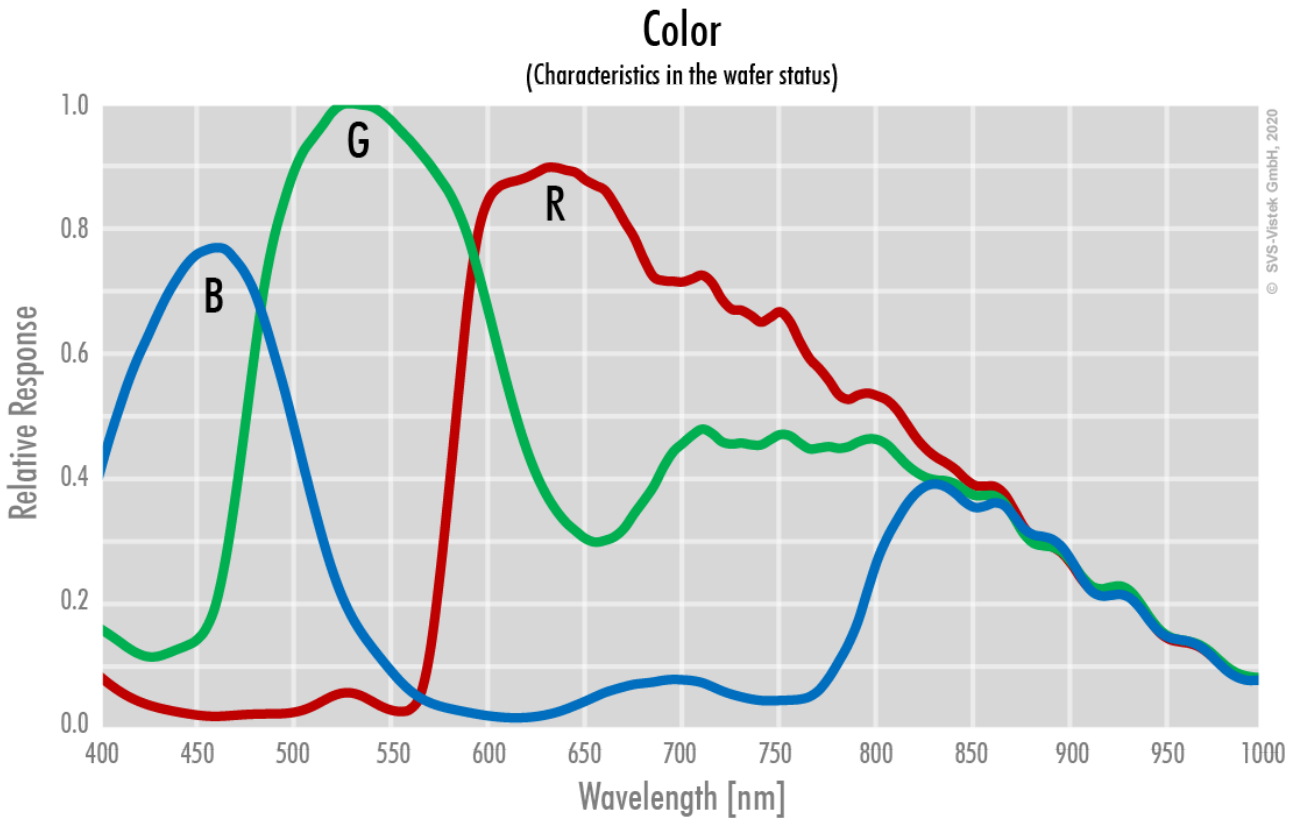
固件功能 - 图像控制

曝光模式	manual, auto, external
增益模式	auto, manual
白平衡模式	auto, manual
图像控制功能	roi, lut, color-transformation, mirror-image

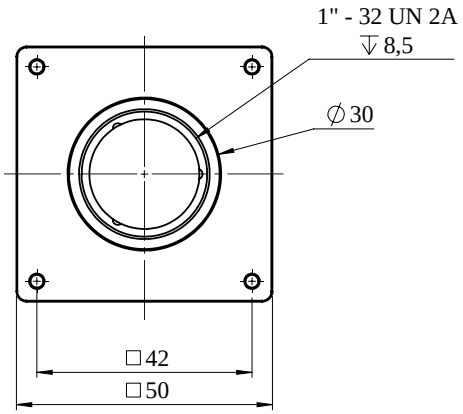
固件功能 - 相机控制

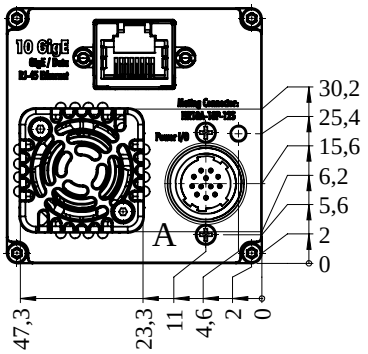
触发模式/同步	internal, software, external
相机控制功能	PTP, User Sets, POE, PWM(4), Sequencer,

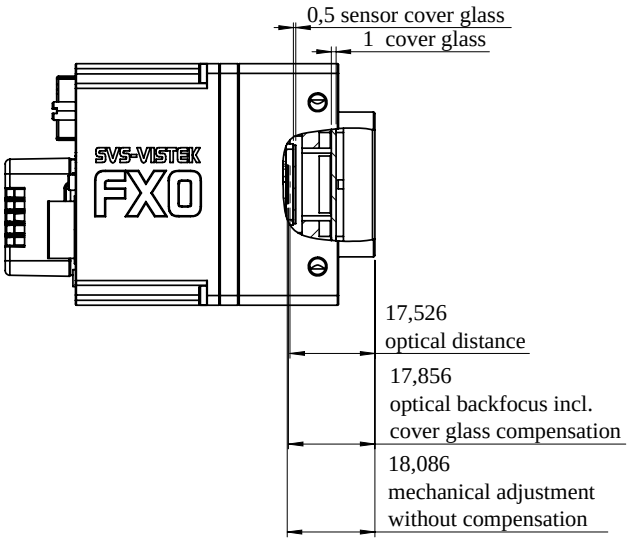
Quantum Efficiency

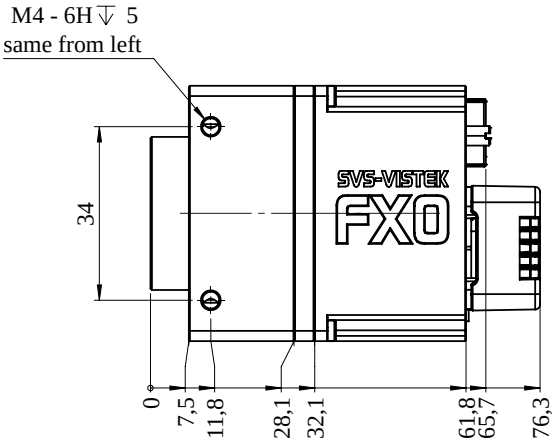


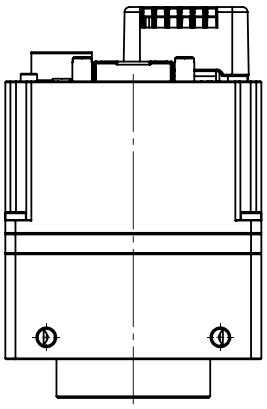
Technical Drawing

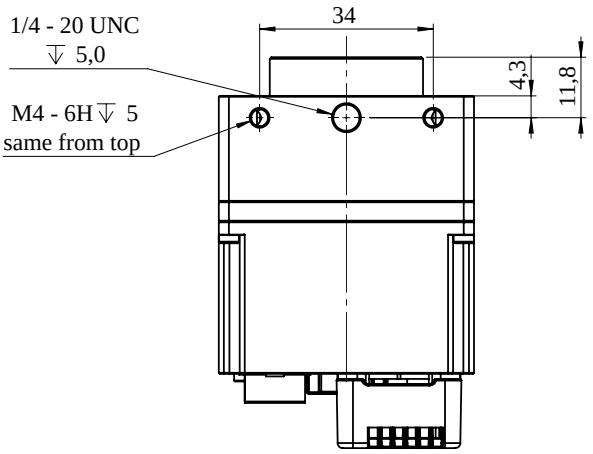


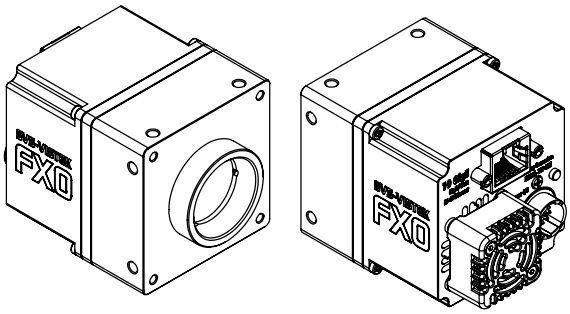






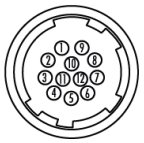






I/O pin assignment

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)