

Allied Vision

FXO CoaXPress

fxo420CCX12-2C

规	
型号	fxo420CCX12-2C
产品代码	F002268
产品系列	FXO CoaXPress
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	3,216 × 2,208 (7.10 MP)
传感器型号	Sony IMX420
传感器架构（材料）	cmos
快门类型	Global shutter (GS)
传感器尺寸	14.47 × 9.94 mm (17.55 mm, Type 1.1)
像素尺寸	4.50 µm × 4.50 µm

像素格式	
传感器位深度	12-bit, 8-bit
RGB像素格式	bayer12, bayer8

时序与增益	
最大帧率	207 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 CoaXPress
功耗	External: 13 W (typical)

工作条件

工作温度	-10 °C to 60 °C (外壳)
Humidity	10 % to 90 % (non-condensing)

机械特性

机身尺寸（L x W x H mm）	73 × 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

非易失性存储器（闪存）	32 MByte

接口

数字接口	cxp-12 with 2 connections
接口连接器	(micro-BNC)
视觉标准	CoaXPress 2.0

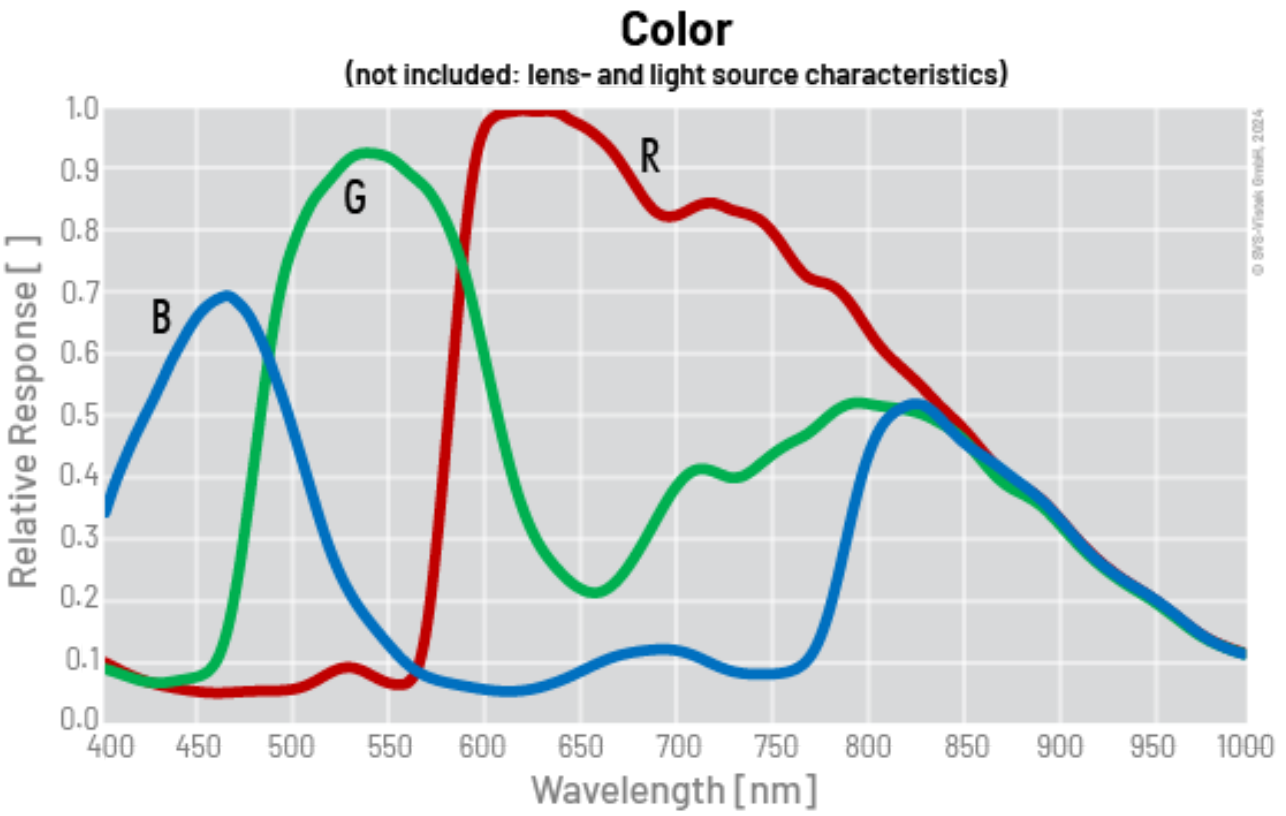
固件功能 - 图像控制

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

固件功能 – 相机控制

触发模式/同步	external, internal, software

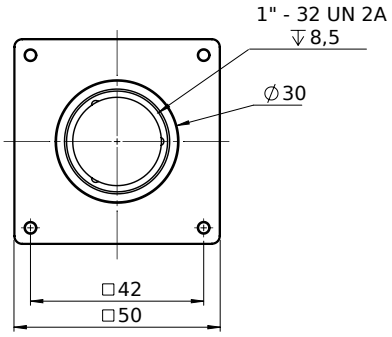
Quantum Efficiency

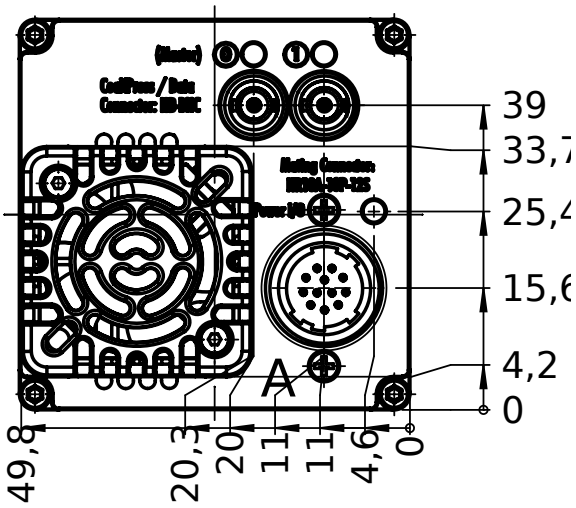


Technical Drawing

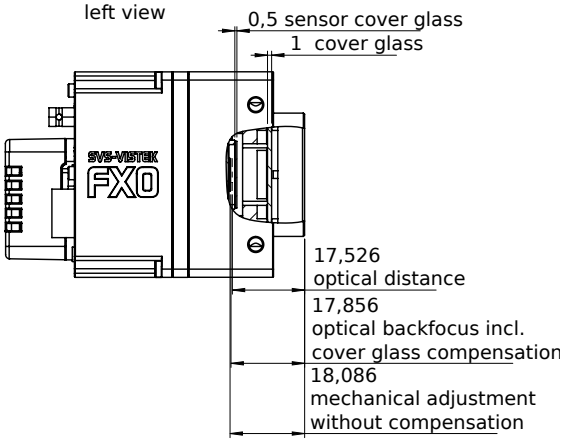
back view

front view

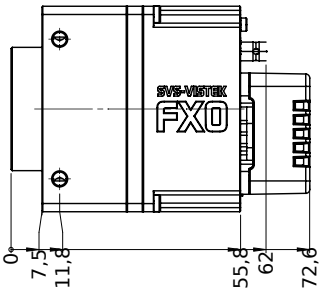




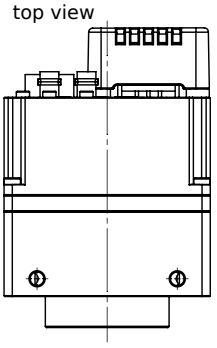
left view



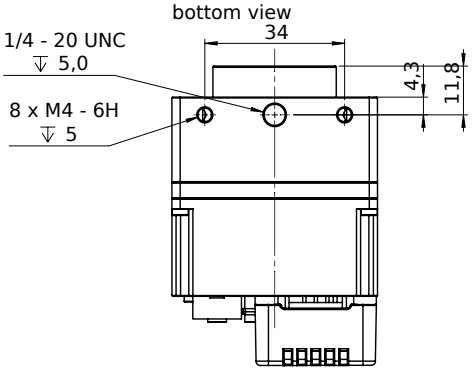
right view

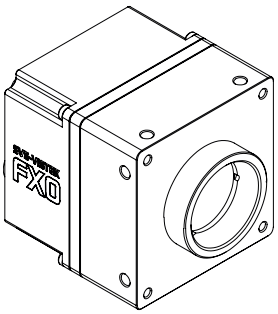


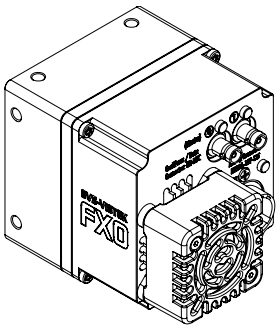
top view



bottom view

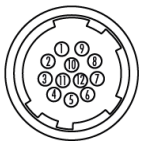






I/O pin assignment

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)