

Allied Vision

FXO CoaXPress

fxo540MCX

□规	
型号	fxo540MCX
产品代码	F002084
产品系列	FXO CoaXPress
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	5,312 × 4,600 (24.40 MP)
传感器型号	Sony IMX540
传感器架构（材料）	cmos
快门类型	Global shutter (GS)
传感器尺寸	14.55 × 12.6 mm (19.25 mm, Type 1.2)
像素尺寸	2.74 µm × 2.74 µm

像素格式	
传感器位深度	12-bit, 8-bit
单色像素格式	mono12, mono8

成像性能	
动态范围	72 dB
信噪比	39.5 dB

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时序与增益	
最大帧率	30.4 fps
曝光时间	10 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: 8 W (typical)

工作条件	
工作温度	-10 °C to 65 °C (外壳)
Humidity	10 % to 90 % (non-condensing)

机械特性	
机身尺寸（L x W x H mm）	70 × 50 × 50
滤光片/保护玻璃	K9 - AR coating - 400-850nm
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

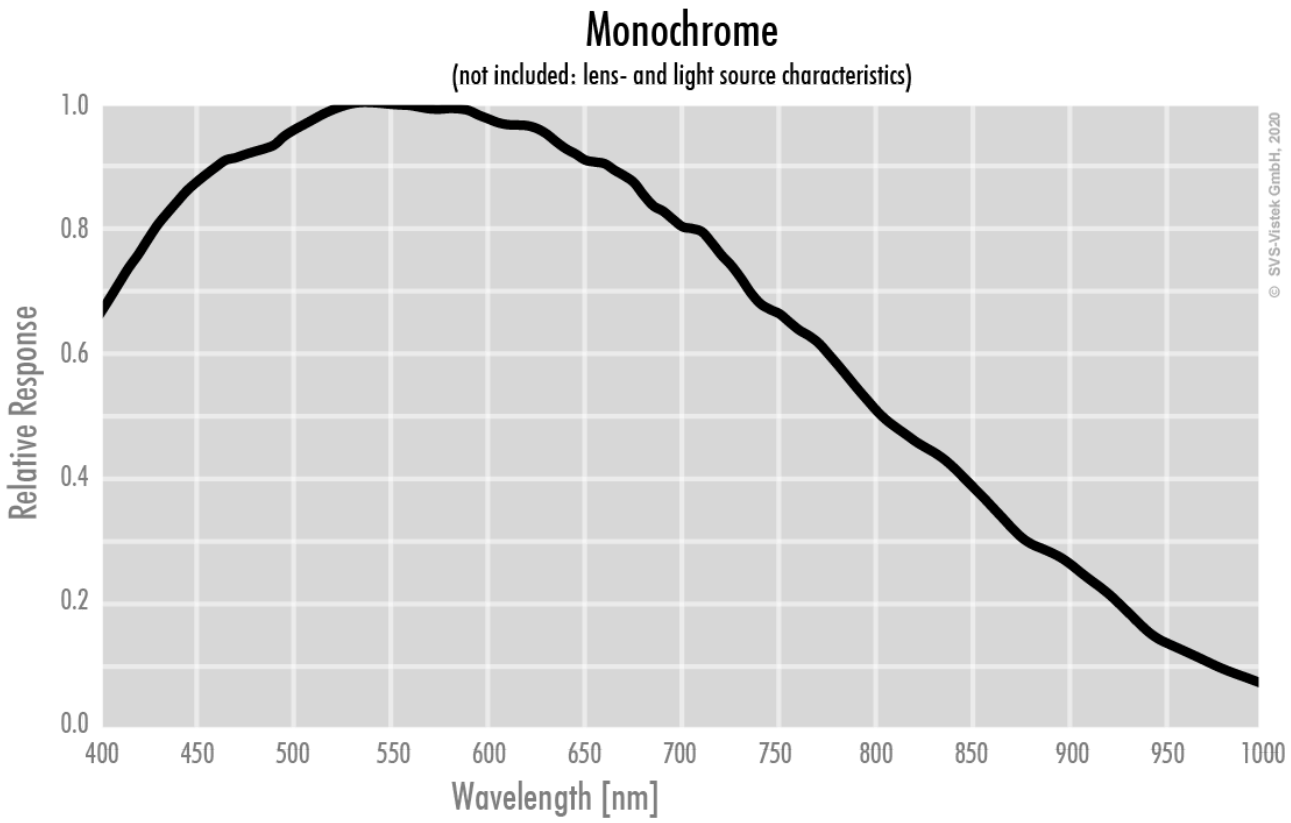
接口	
数字接口	cxp-12 with 1 connection
接口连接器	(micro-BNC)
视觉标准	CoaXPress 2.0

固件功能 - 图像控制	
曝光模式	auto, external, manual

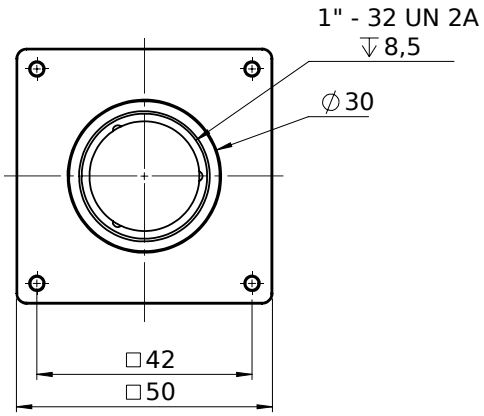
固件功能 – 图像控制	
增益模式	auto, manual
图像控制功能	dpc, ffc, lut, mirror-image, roi, shading-correction

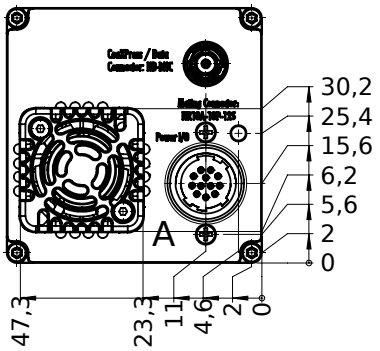
固件功能 – 相机控制	
触发模式/同步	external, internal, software

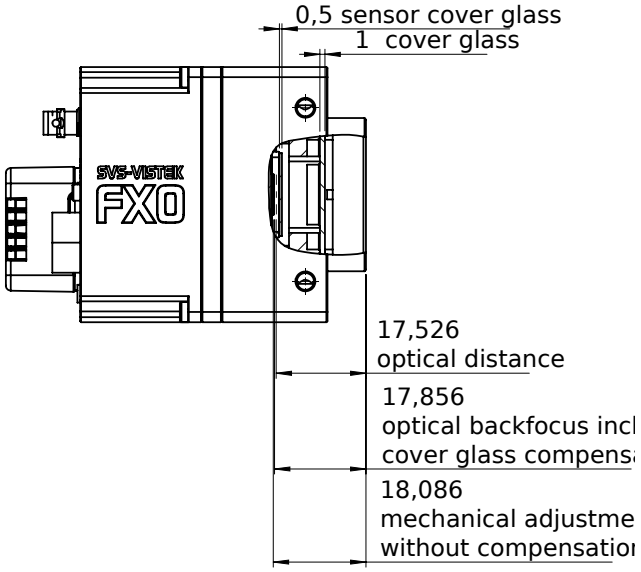
Quantum Efficiency

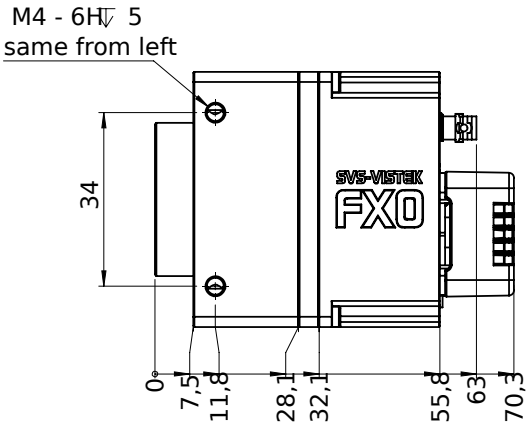


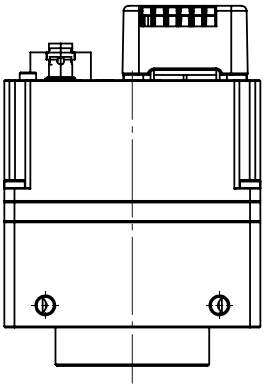
Technical Drawing

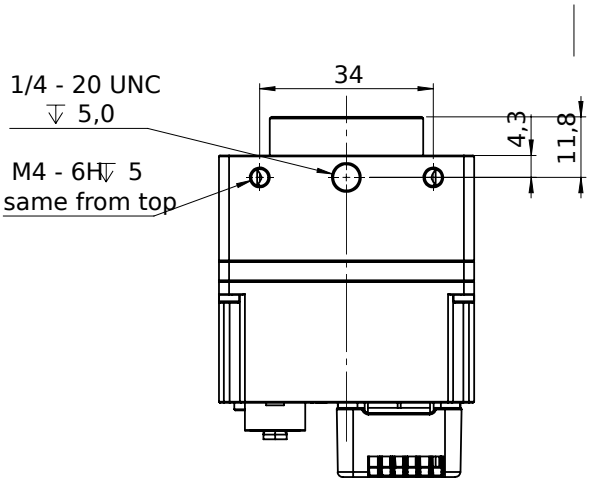


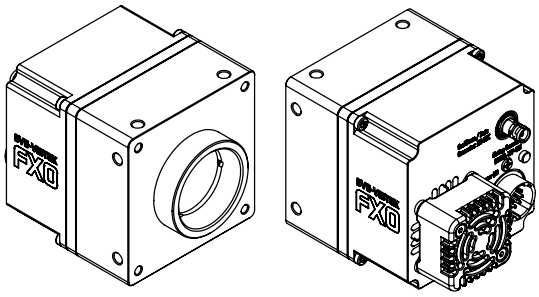






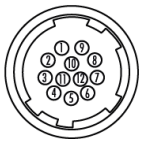






I/O pin assignment

Hirose 12 Pin



1	VIN –	(GND)
2	VIN +	(10 V to 25 V DC)
3	IN 4	(RXD RS232)
4	OUT 4	(TXD RS232)
5	IN 1	(0 - 24V)
6	IN 2	(0 - 24V)
7	OUT 1	(open drain)
8	OUT 2	(open drain)
9	IN 3 +	(opto In +)
10	IN 3 –	(opto In –)
11	OUT 3	(open drain)
12	OUT 0	(open drain)