Allied Vision

FXO 10GigE

fxo541MXGE

General

Model	fxo541MXGE
Product code	F002092
Product series	FXO 10GigE
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	4,504 × 4,504 (20.30 MP)
Sensor model	Sony IMX541
Sensor architecture (material)	cmos
Shutter type(s)	global-shutter
Sensor size	12.34 × 12.34 mm (17.45 mm, 17.5mm (Type 1.1))
Pixel size	2.74 µm × 2.74 µm

Pixel formats

Sensor bit depth	8-Bit,12-Bit
Monochrome pixel formats	mono8, mono12

Imaging performance

Dynamic range	72 dB
SNR	39.13 dB

Timing and gain

Max. frame rate	35.7 fps
Exposure time	21 µs to 60 s
Gain	0.0 dB to 48.0 dB

I/Os and power

Non-isolated lines	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,
Specific non-isolated lines	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Opto-isolated lines	1 x Optical isolated input, 0 x Optical isolated input,
Power supply	10 to 25VDC, Power over Ethernet
Power consumption	External: 9 W (typical)

Operating conditions

Operating temperature (housing)	-10 °C to 60 °C

Mechanical properties

Body dimensions (L x W x H in mm)	76 × 50 × 50
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	C-Mount
Weight	240 g

On-board memory and FPGA

Image buffer (RAM)	896 MByte
Non-volatile memory (Flash)	32 MByte

Interfaces

Digital interface	10gige
Interface connector	(RJ-45)

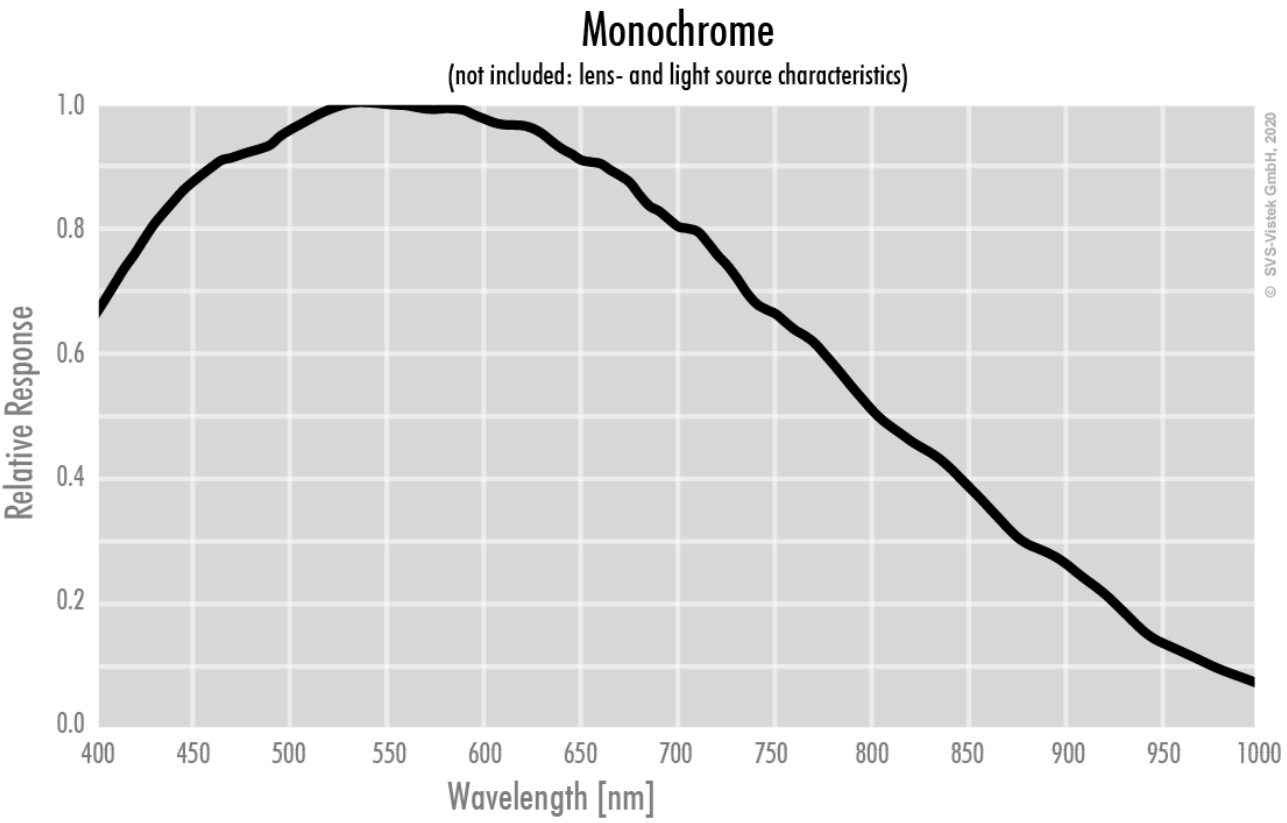
FW features - image control

Exposure modes	Manual, Auto, External
Gain modes	Auto, Manual
Image control features	FW Features - Image Control

FW features - camera control

Trigger modes/sync	INTERNAL,SOFTWARE,EXTERNAL
Camera control features	PTP, User Sets, POE, PWM(4), Sequencer,

Quantum Efficiency



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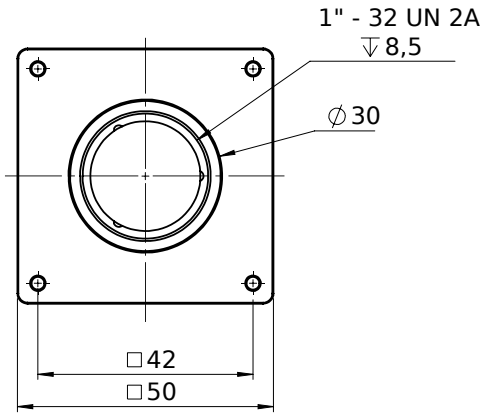
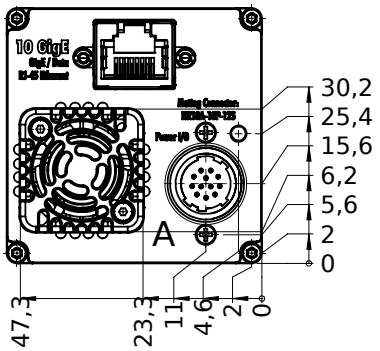
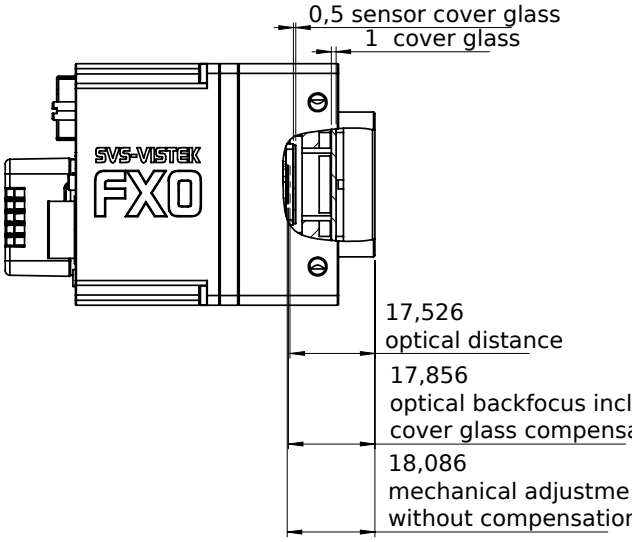
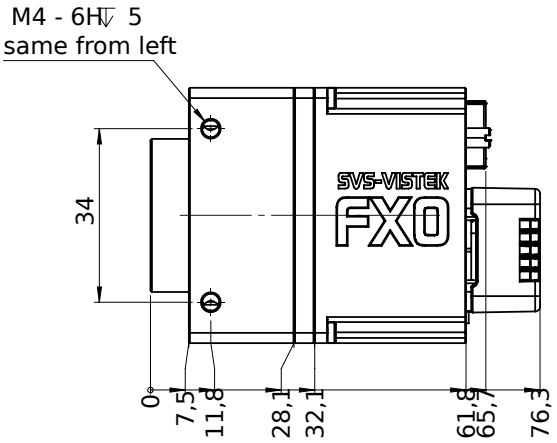
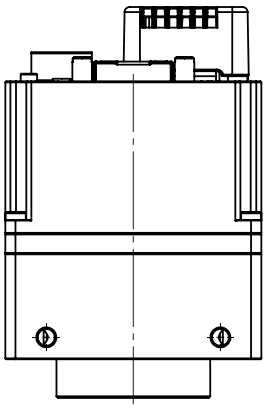
Technical Drawing

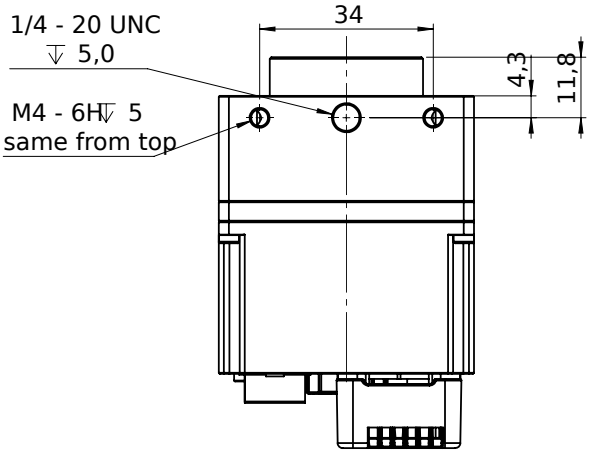


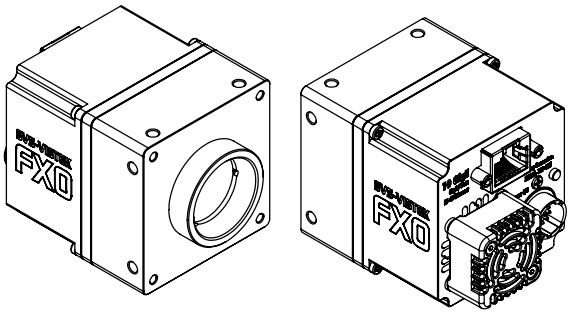






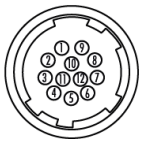






I/O pin assignment

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)