



FXO 10GigE

fxo531MXGE

General

Model	fxo531MXGE
Product code	F002445
Product series	FXO 10GigE
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	4,512 × 4,512 (20.40 MP)
Sensor model	Sony IMX531
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	12.36 × 12.36 mm (17.48 mm, 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

Timing and gain

Max. frame rate	58.8 fps
Exposure time	5 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,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	10 to 25VDC
Power consumption	External: 12 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)
Vision standard	GigE Vision 2.0, 3.0

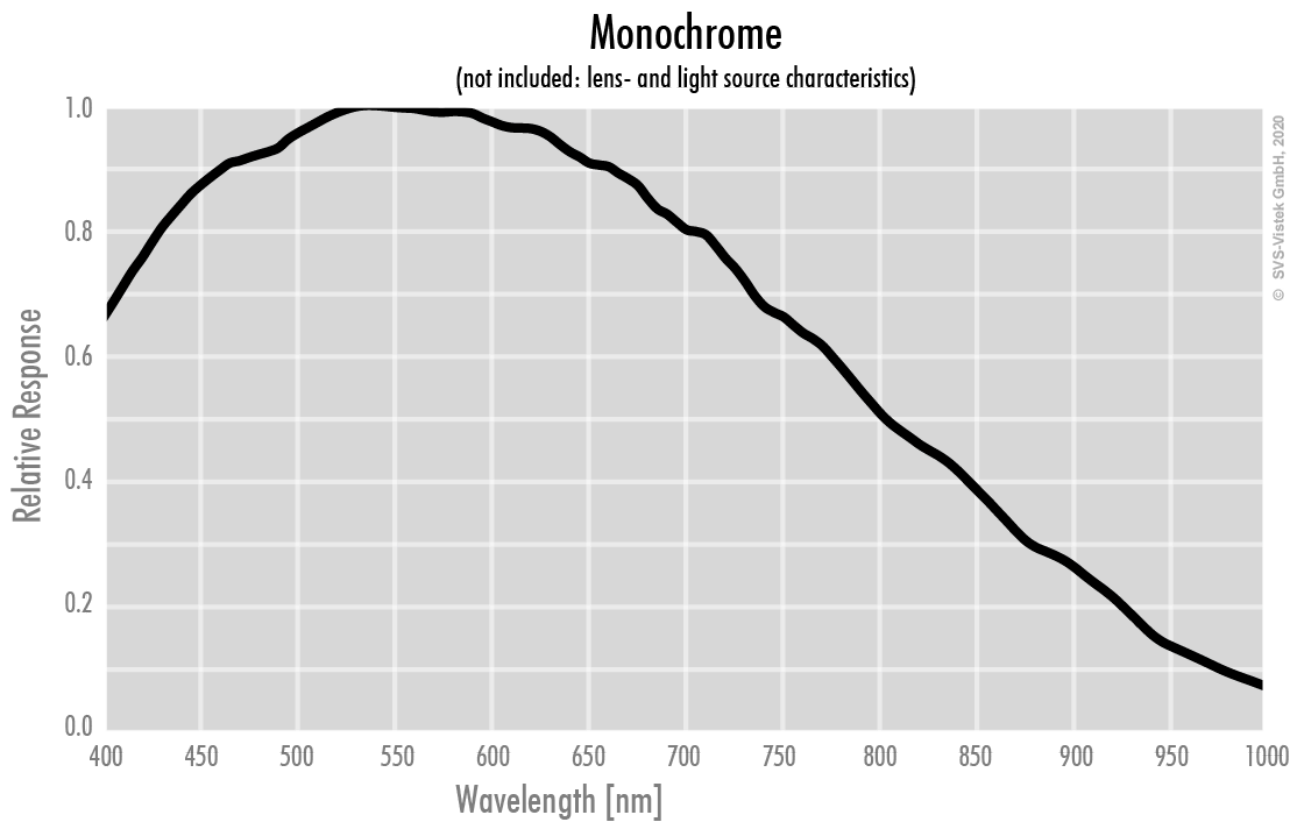
FW features - image control

Exposure modes	manual, auto, external
Gain modes	auto, manual
White balance modes	auto, manual
Image control features	roi, lut, mirror-image, dpc, shading-correction, ffc

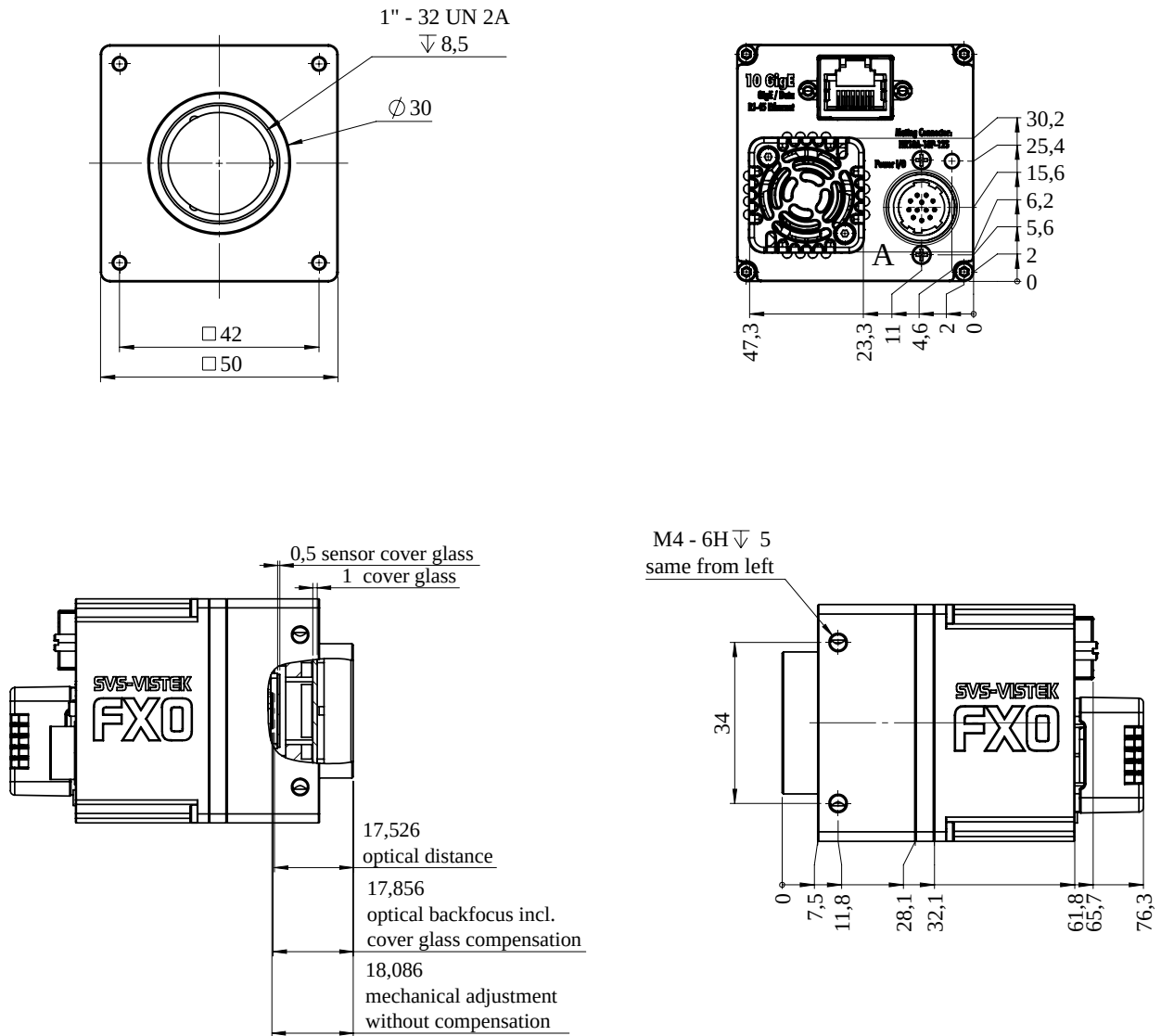
FW features - camera control

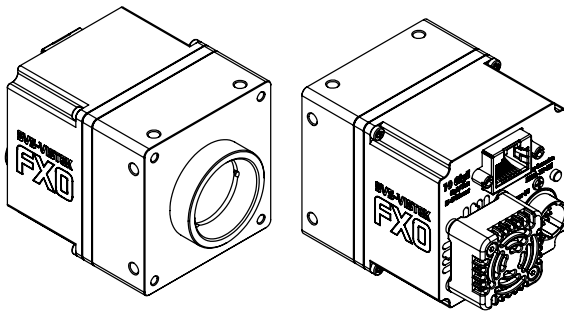
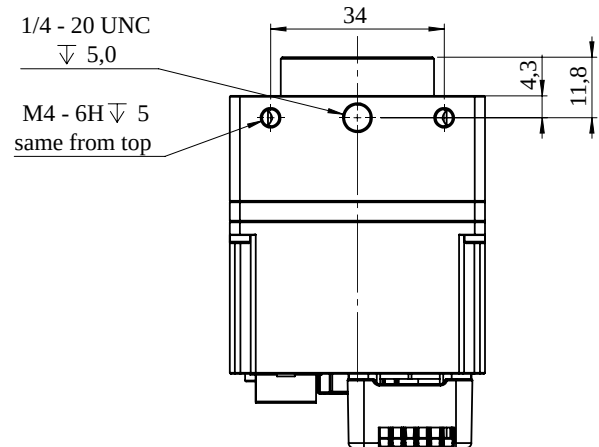
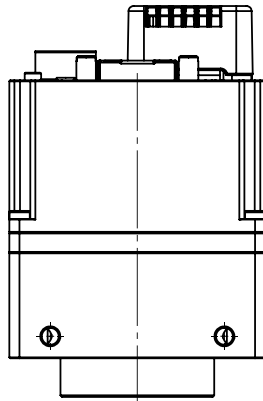
Trigger modes/sync	internal, software, external
Camera control features	PTP, RDMA support, User Sets, PWM(4), Sequencer,

Quantum Efficiency



Technical Drawing





I/O pin assignment



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)