Allied Vision

FXO 10GigE

fxo537MXGE

Preliminary product information. Features and technical specifications are subject to change without notice.

General

Model	fxo537MXGE
Product code	F002358
Product series	FXO 10GigE
Status	Prototype/engineering sample

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	2,448 × 2,048 (5.00 MP)
Sensor model	Sony IMX537
Sensor architecture (material)	cmos
Shutter type(s)	global-shutter
Sensor size	6.71 × 5.61 mm (8.75 mm, 8.8mm (Type 1/1.8))
Pixel size	2.74 µm × 2.74 µm

Pixel formats

Sensor bit depth	8-Bit,12-Bit
RGB pixel formats	bayer8, bayer12

Timing and gain

Max. frame rate	217.6 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,
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	IR-Cut 680
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)

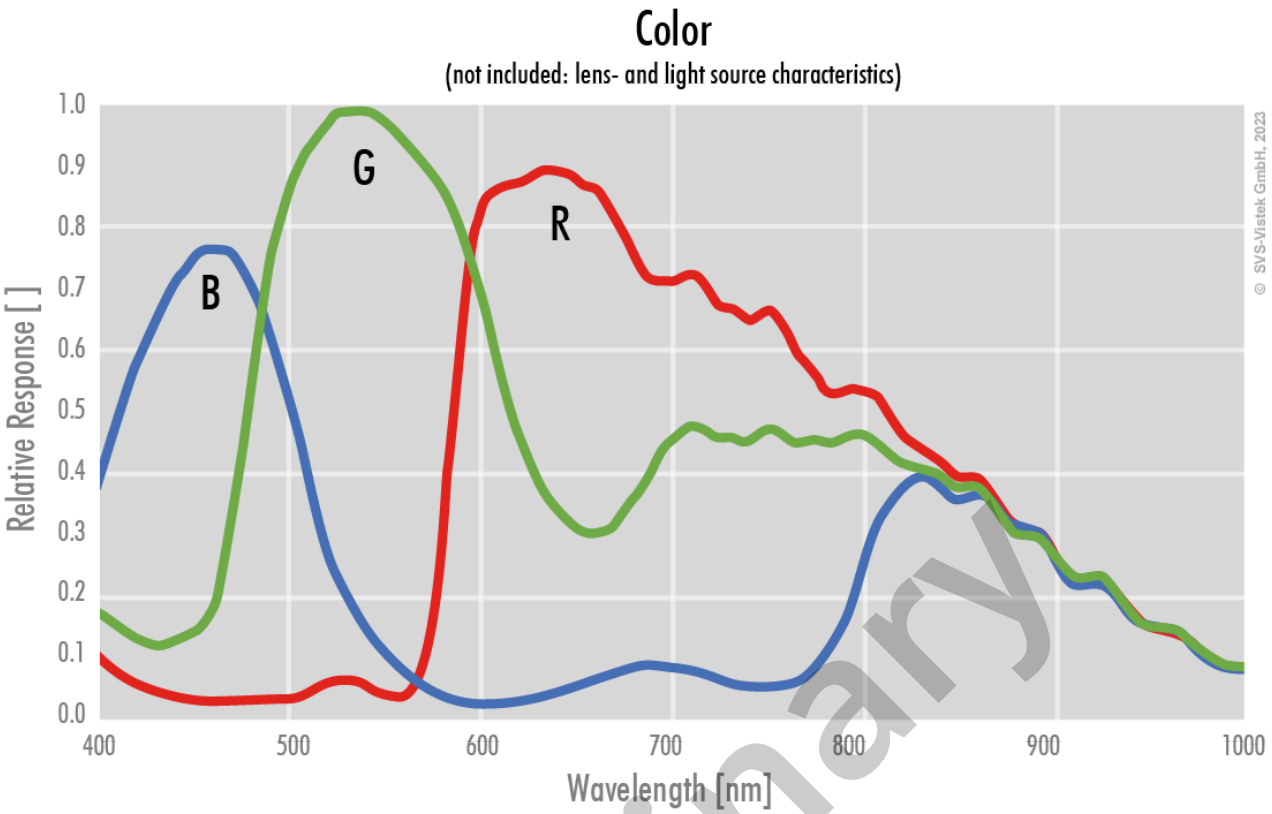
FW features - image control

Exposure modes	Manual, Auto, External
Gain modes	Auto, Manual
White balance modes	auto, manual
Image control features	FW Features - Image Control

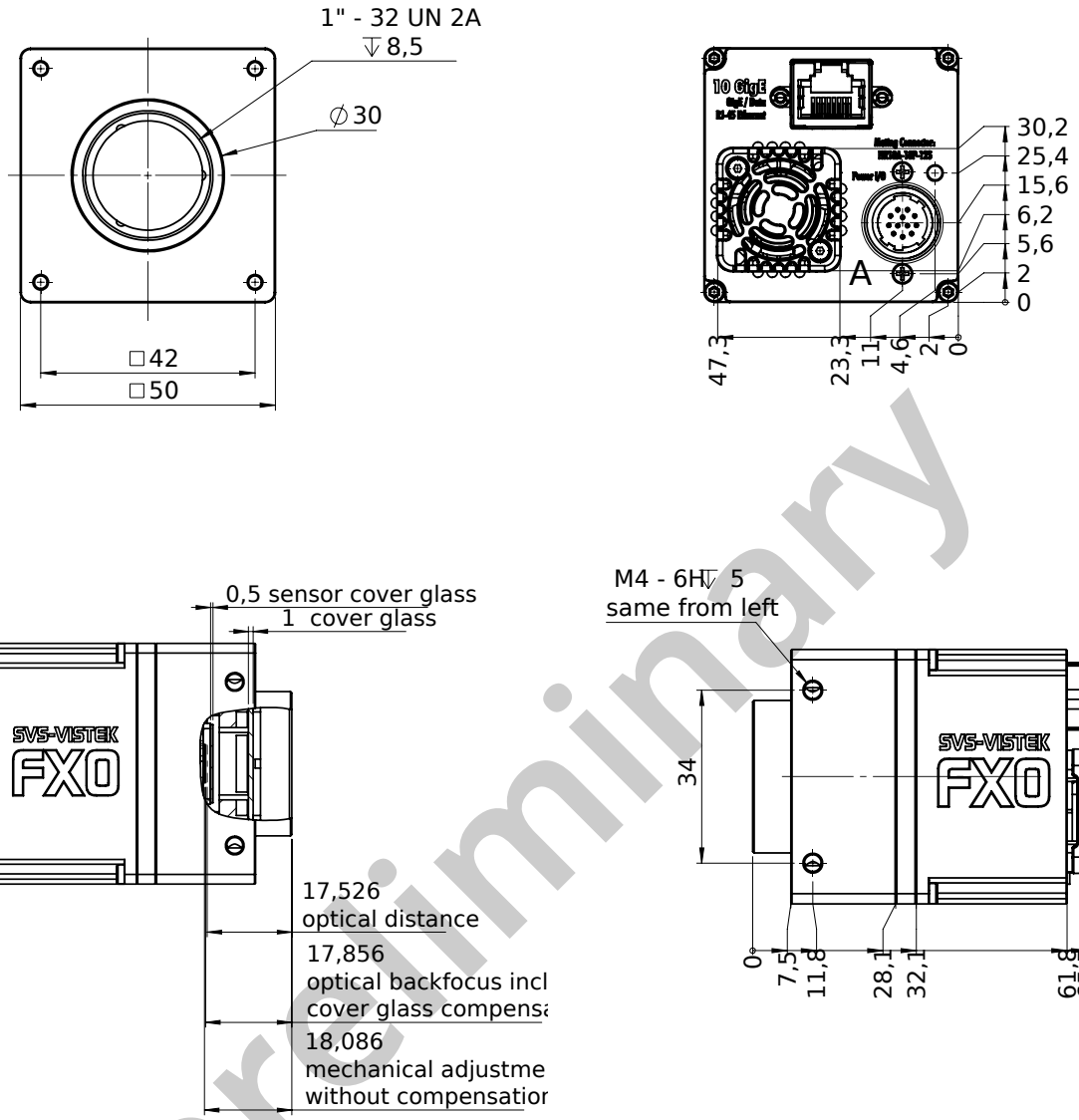
FW features - camera control

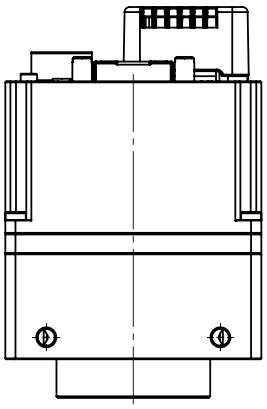
Trigger modes/sync	INTERNAL,SOFTWARE,EXTERNAL
Camera control features	PTP, RDMA support, User Sets, PWM(4), Sequencer,

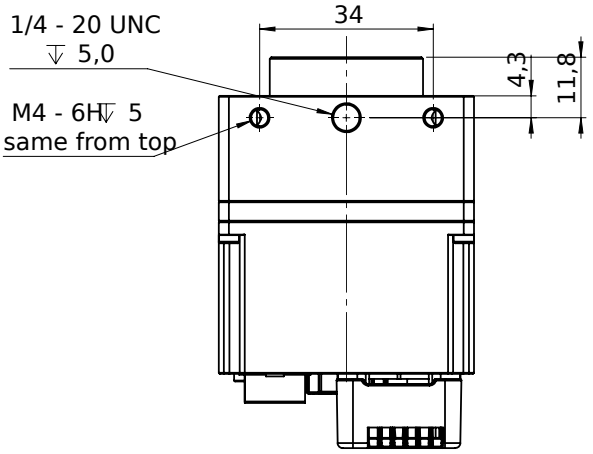
Quantum Efficiency

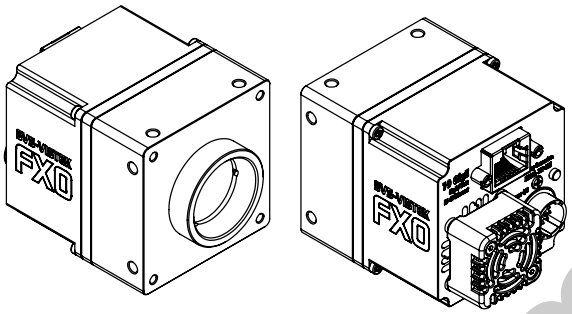


Technical Drawing



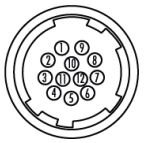






I/O pin assignment

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)