

FXO SWIR

fxo993MXGE

General

Model	fxo993MXGE
Product code	F002318
Product series	FXO SWIR
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	eXtended SWIR
Spectral range	400 nm to 1700 nm
Resolution	2,048 × 1,536 (3.10 MP)
Sensor model	Sony IMX993 InGaAs
Sensor architecture (material)	cmos
Shutter type(s)	global-shutter
Sensor size	7.07 × 5.3 mm (8.83 mm, 8.9mm (Type 1/1.8))
Pixel size	3.45 μm × 3.45 μm

Pixel formats

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

Timing and gain

Max. frame rate	173.4 fps
Gain	0.0 dB to 42.0 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/Os and power

Power supply	10 to 25VDC
Power consumption	External: 9 W (typical)

Operating conditions

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

Body dimensions (L x W x H in mm)	76 × 50 × 50
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)	32000 MByte

Interfaces

Digital interface	10gige
Interface connector	(RJ-45)

FW features - image control

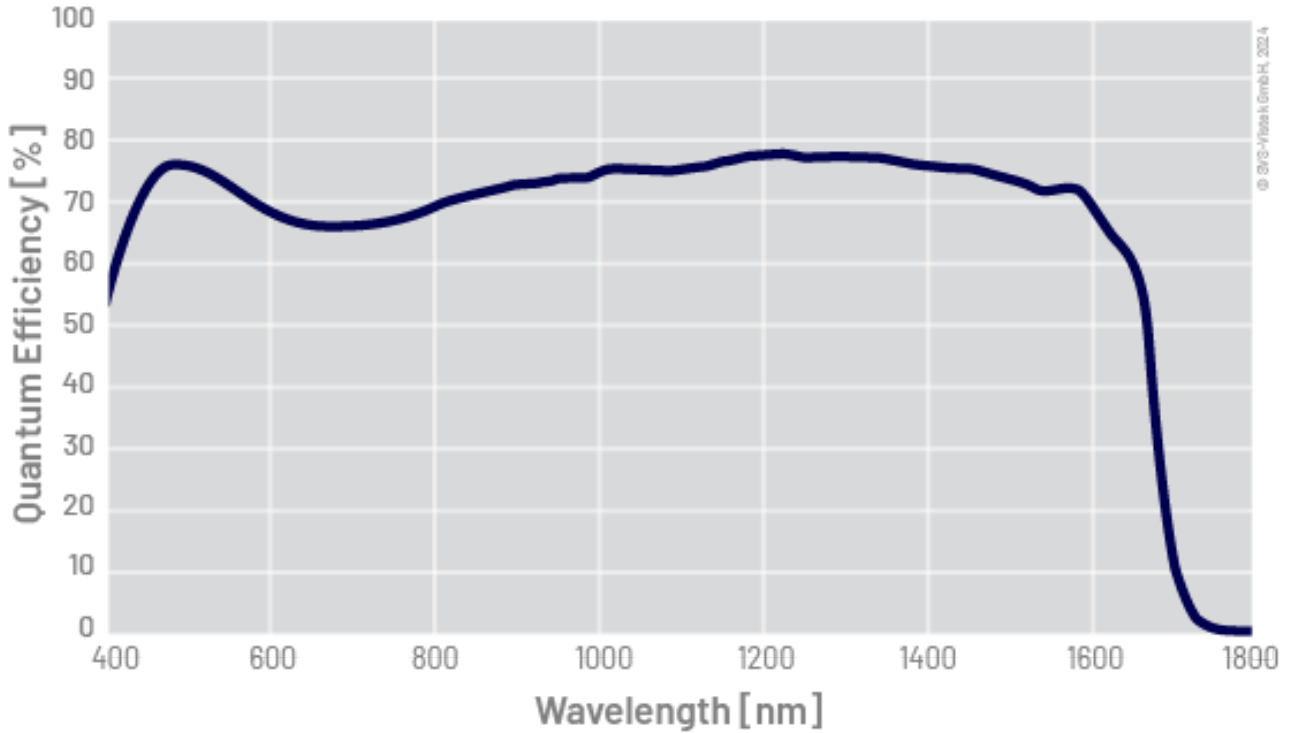
Exposure modes	Manual, Auto
Gain modes	Auto, Manual
Image control features	FW Features - Image Control

FW features - camera control

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

Quantum Efficiency

Quantum Efficiency
(not included: lens- and light source characteristics)



I/O pin assignment



1	VIN-	(GND)	7	OUT1	(open drain)
2	VIN+	(10V to 25V DC)	8	OUT2	(open drain)
3	IN4	(RXD RS232)	9	IN3+	(opto In+)
4	OUT4	(TXD RS232)	10	IN3-	(opto In-)
5	IN1	(0-24V)	11	OUT3	(open drain)
6	IN2	(0-24V)	12	OUT0	(open drain)