

General

Model	fxo993MXGE-T
Product code	F002319
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 TEC
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: 12 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)	82 × 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)

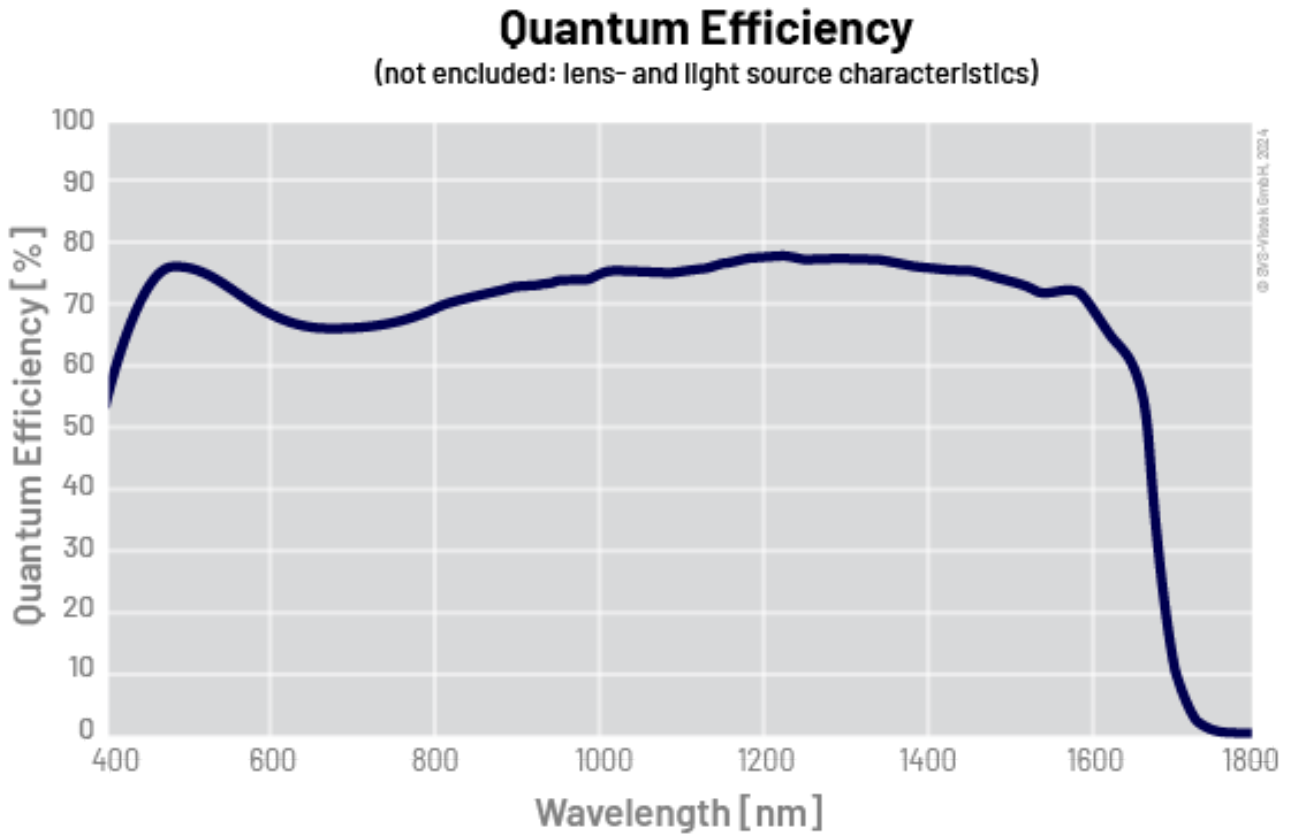
FW features - image control

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

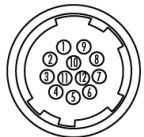
FW features - camera control

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

Quantum Efficiency



I/O pin assignment

 <p>Hirose 12 Pin</p>	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)