Allied Vision

FXO SWIR

fxo993MXGE-T

General

Model	fxo993MXGE-T
Product code	F002319
Product series	FXO SWIR
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR, Visible 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 (GS)
Sensor size	7.07 × 5.3 mm (8.83 mm, 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

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)	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)
Vision standard	GigE Vision 2.0

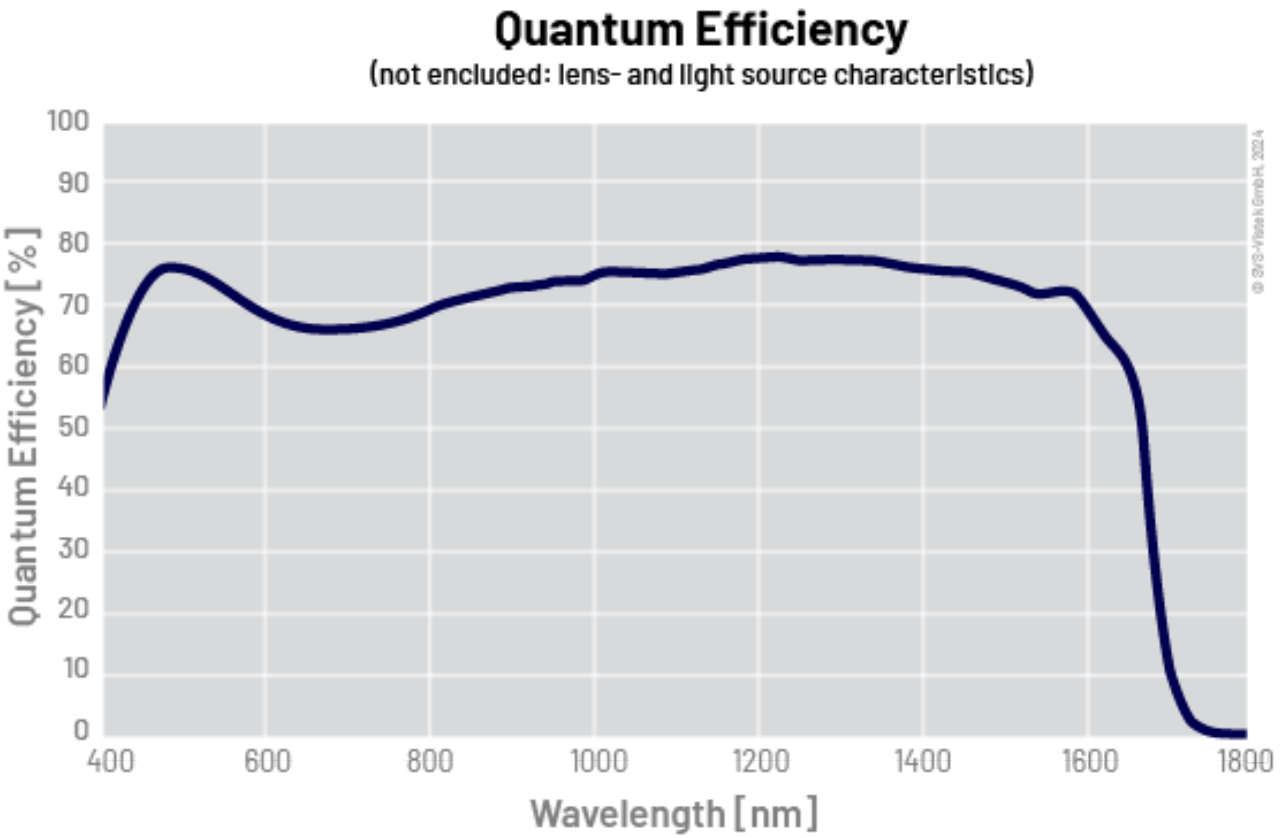
FW features - image control

Exposure modes	manual, auto
Gain modes	auto, manual
Image control features	roi, lut, mirror-image, dpc, nuc, ffc, dopo

FW features - camera control

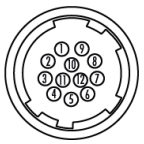
Trigger modes/sync	internal, software, external
Camera control features	User Sets, PWM(4), Sequencer,

Quantum Efficiency



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)