

fxo545MXGE

FXO 10GigE



With the modern Sony Pregius S sensor, the FXO 10GigE offers outstanding image quality together with an economical high-performance interface. Distances up to 100m are supported. The control is transparent to GigE Vision.

The solid, CNC-milled housing offers excellent temperature management gives excellent image homogeneity.

The large image memory supports the rapid triggering of image sequences regardless of the network load.

Technical Highlights

- > Excellent homogeneity across the entire image
- > Thermally optimized, milled aluminum housing
- > 10GigE Interface with PoE single cable option
- > Integrated 4-channel LED strobe controller
- > ROI, lookup tables
- > Binning with frame rate boost
- > C/CS mount and M42
- > 10 interface with 2xIN, 4xOUT, Opto and RS232
- > with SafeTrigger, programmable timers, logic functions (PLC) and sequencer

SVS-Vistek GmbH - Ferdinand-Porsche-Str. 3 - 82205 Gilching - Germany - Telephone +49 8105 3987-60 Information accurate as to: 14.07.2022, errors and omissions excepted.
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FXO Series fxo545MXGE

12.3 MP
4096 x 3000 px
61 fps
mono
10GigE

Sensor

Sensor	IMX545LLA	
Manufacturer	Sony	
Sensor type	Area CMOS	
Shutter type	global shutter	
Sensor size (h x v)	11.22 x 8.22 mm	
Optical diagonal	13.91 mm	
Sensor format	14mm (Type 1/1.1)	
Pixel size (h x v)	2.74 x 2.74 µm	

Camera

Exposure modes	MANUAL;AUTO	
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL	
Exposure time (min)	19 µs	
Exposure time (max)	1 sec	
Pixel format / max	mono8, mono12 / 12 bit	
Gain modes	manual, auto	
S/N ratio (max)	39 dB (dep. on environment)	
Dynamic range (max)	72 dB (dep. on environment)	
Internal memory	1024 MB SDRAM, 256 MB Flash	

Feature Set

AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Shading correction	yes (external)
Defect pixel correction	yes
Sequencer	yes
POE	yes
PTP	yes

Housing

Input up to 24V

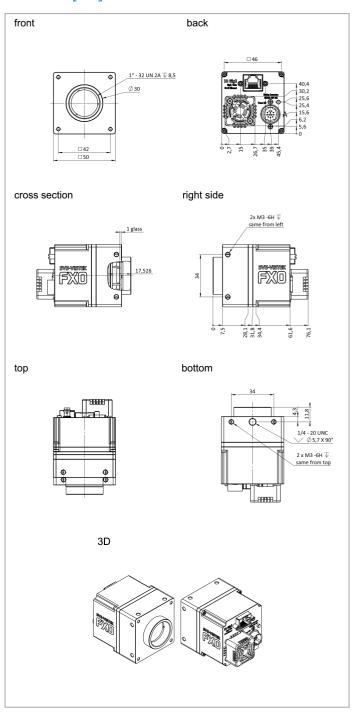
Input OPTO

Lens mount	C-Mount	
Dimensions (w x h x d)	50 x 50 x 76.1 mm	
Weight	240 g	
Operating temperature (housing)	-10 to 60 °C	
Ambient humidity	10 to 90 % (non-condensing)	
Protection class	IP30	

2 x

1 x

Dimensions [mm]

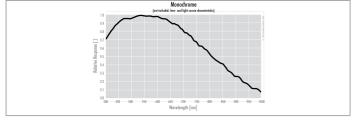


Pinout Mating Connector

Hirose 12 Pin	1 2 3 4	VIN – VIN + IN 4 OUT 4	(GND) (10 V to 25 V DC) (RXD RS232) (TXD RS232)	7 8 9 10	IN 3 —	(open drain) (open drain) (opto In +) (opto In -)
	5	IN 1	(0 - 24V)	11	OUT 3	(open drain)
	6	IN 2	(0-24V)	12	OUT 0	(open drain)

Spectral Response *

Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	12 W (dep. on operating mode)



 * Sensor data — excludes camera cover- or IR-cut filter characteristics