

fxo541MXGE

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 mount
- > IO interface with 2xIN, 4xOUT, Opto and RS232
- > with SafeTrigger, programmable timers, logic functions (PLC) and sequencer

FXO Series

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Resolution [MP]	20.3 MP
Resolution (h x v)	4504 x 4504 px
Frame rate (max.)	35.7 fps
Chroma	mono
Interface	10GigE (RJ-45)

Sensor

Sensor	IMX541LLA
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	12.34 x 12.34 mm
Optical diagonal	17.45 mm
Sensor format	17.5mm (Type 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)	21 μs
Exposure time (max)	1 sec
Pixel format / max	mono8, mono12 / 12 bit
Gain modes	manual, auto
S/N ratio (max)	39.1 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
Data Storage	yes optional

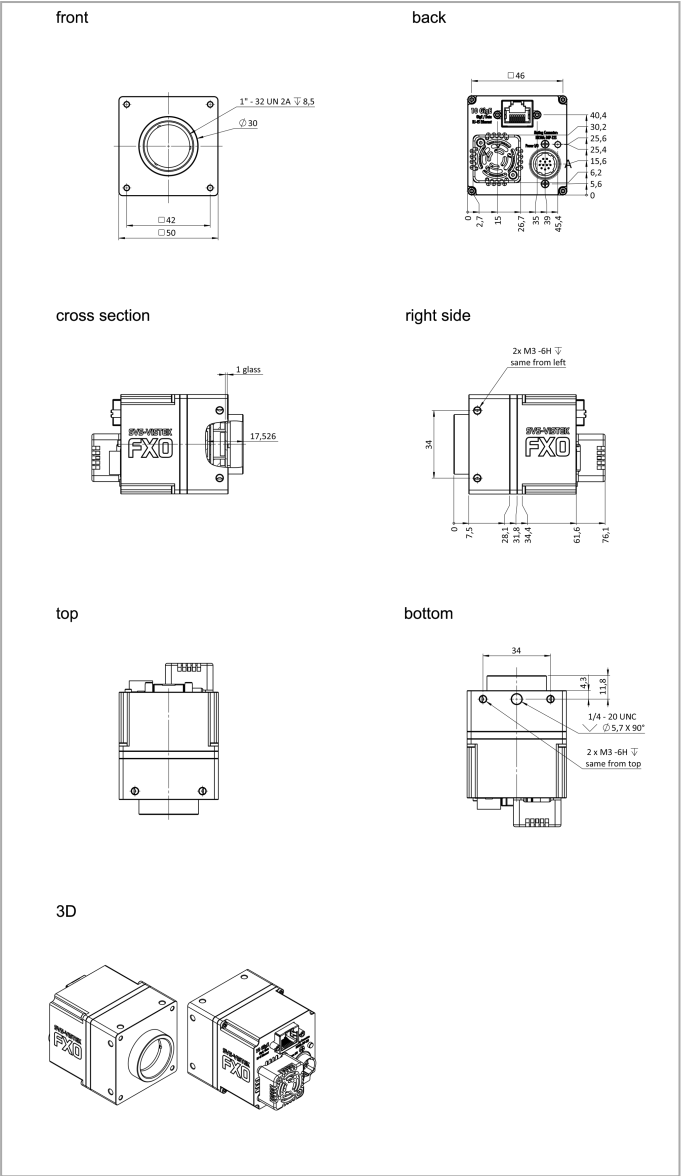
Housing

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
Filter-/Coverglass	K9 - AR coating - 400-850nm

I/O-Interfaces

Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)

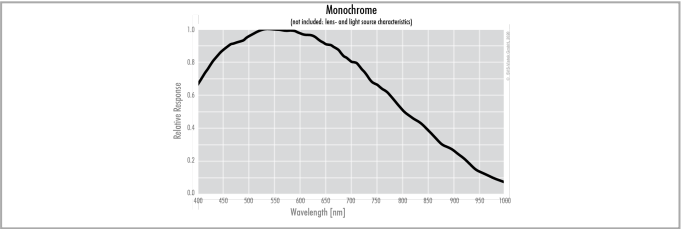
Dimensions [mm]



Pinout Mating Connector

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)

Spectral Response *



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

