Allied Vision

FXO CXPoF

fxo926M100GE

General

Model	fxo926M100GE
Product code	F002400
Product series	FXO CXPoF
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	350 nm to 1000 nm
Resolution	4,096 × 3,008 (12.30 MP)
Sensor model	Sony IMX926
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	11.22 × 8.24 mm (13.92 mm, Type 1/1.1)
Pixel size	2.74 µm × 2.74 µm

Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-bit
Monochrome pixel formats	mono10, mono12, mono8

Timing and gain

Max. frame rate	660.8 fps
Exposure time	4 µs to 60 s
Gain	0.0 dB to 48.0 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, 2 x Open drain output,
Specific non-isolated lines	0 x RS232 input, 0 x RS232 output, 1 x RS422 input, 1 x RS422 output,

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I/Os and power

Opto-isolated lines	0 x Optical isolated input, 0 x Optical isolated input,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	24 to 25VDC
Power consumption	External: 28 W (typical)

Operating conditions

Operating temperature	-10 °C to 60 °C (housing)
Humidity	10 % to 90 % (non-condensing)

Mechanical properties

Body dimensions (L x W x H in mm)	101 × 58 × 58
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	C-Mount
Weight	450 g

On-board memory and FPGA

Non-volatile memory (Flash)	32768 MByte

Interfaces

Digital interface	cxpof-100g
Interface connector	(QSFP28)
Vision standard	CoaXPress 2.1

FW features - image control

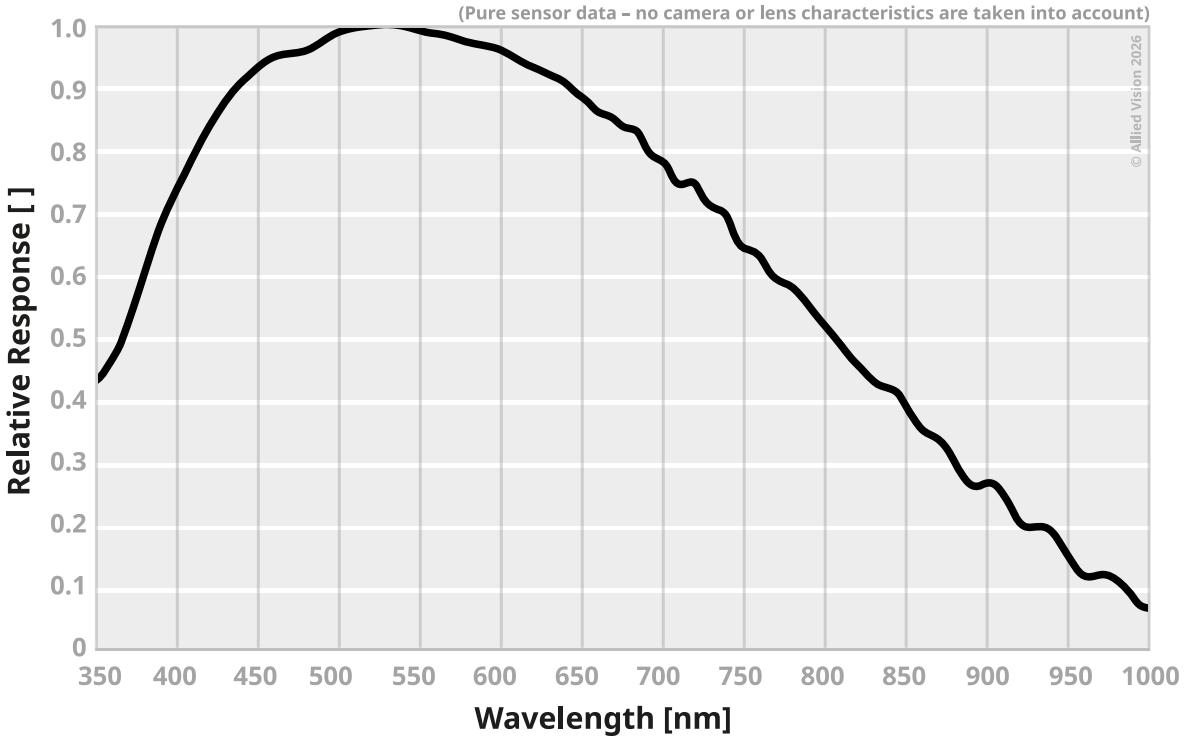
Exposure modes	auto, external, manual
Gain modes	auto, manual
Image control features	dpc, ffc, lut, mirror-image, piv-mode, roi, shading-correction

FW features - camera control

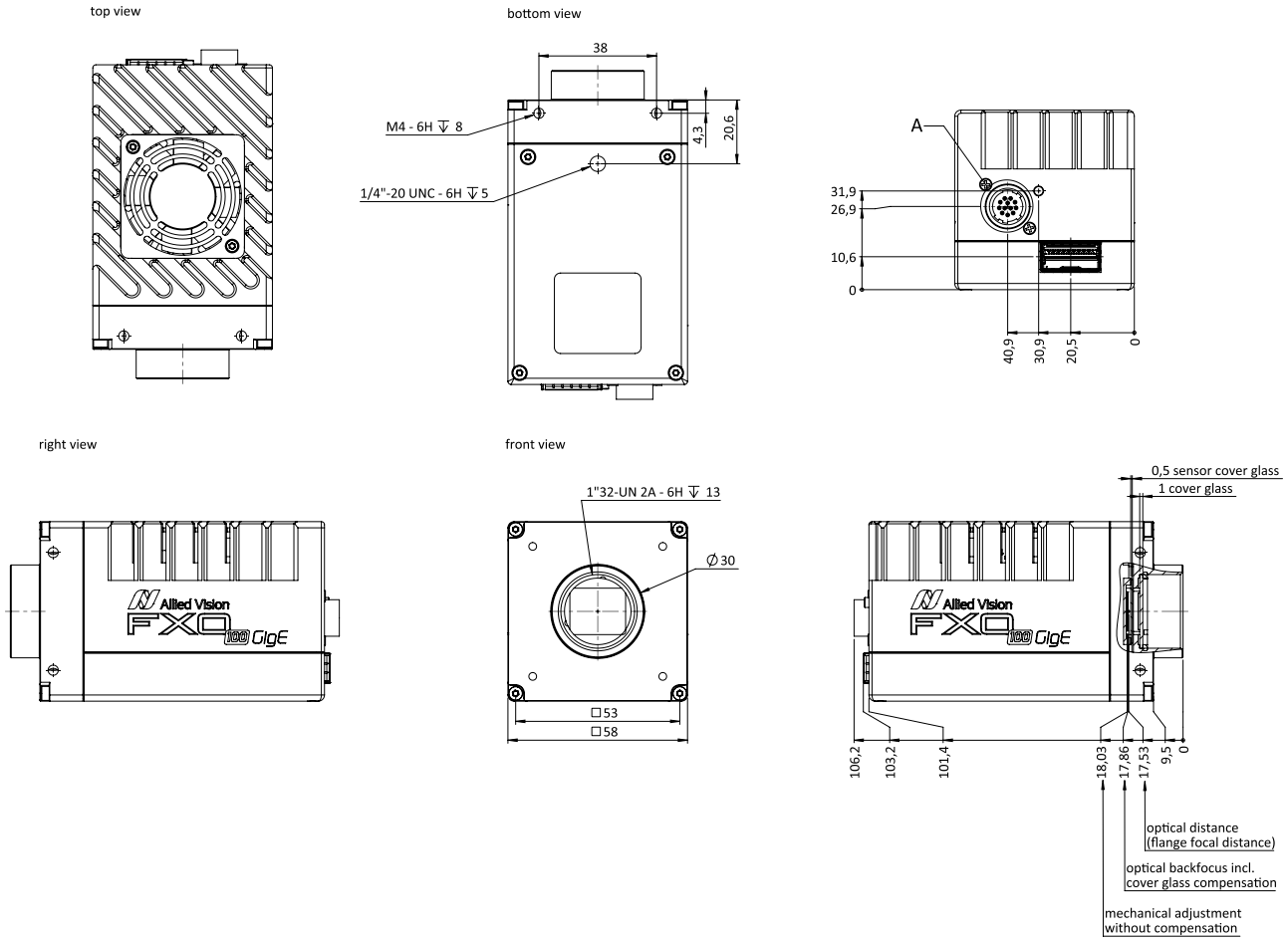
Trigger modes/sync	external, internal, software

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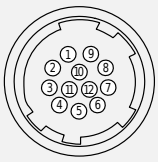
Quantum Efficiency



Technical Drawing



I/O pin assignment



1	VIn- (GND)
2	VIn+ (24 V DC)
3	In 4 (RxD RS232)
4	Out 4 (TxD RS232)
5	In 1 (0 ... 24 V)
6	In 2 (0 ... 24 V)
7	Out 1 (open drain)
8	Out 2 (open drain)
9	In 3+(opto In+)
10	In 3- (opto In-)
11	Out 3 (open drain)
12	Out 0 (open drain)