



FXO 100GigE

fxo925M100GE-FF

Preliminary product information. Features and technical specifications are subject to change without notice.

General

Model	fxo925M100GE-FF
Product code	F002464
Product series	FXO 100GigE
Status	Prototype/engineering sample

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	350 nm to 1000 nm
Resolution	5,312 × 4,608 (24.50 MP)
Sensor model	Sony IMX925
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	14.55 × 12.63 mm (19.27 mm, Type 1.2)
Pixel size	2.74 μm × 2.74 μm

Pixel formats

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

Timing and gain

Max. frame rate	442.7 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,
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 (housing)	-10 °C to 60 °C
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Mechanical properties

Body dimensions (L x W x H in mm)	87 × 58 × 58
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	Flat Front
Weight	440 g

On-board memory and FPGA

Image buffer (RAM)	4032 MByte
Non-volatile memory (Flash)	32768 MByte

Interfaces

Digital interface	100gige
Interface connector	(QSFP28)
Vision standard	GigE Vision 3.0

FW features - image control

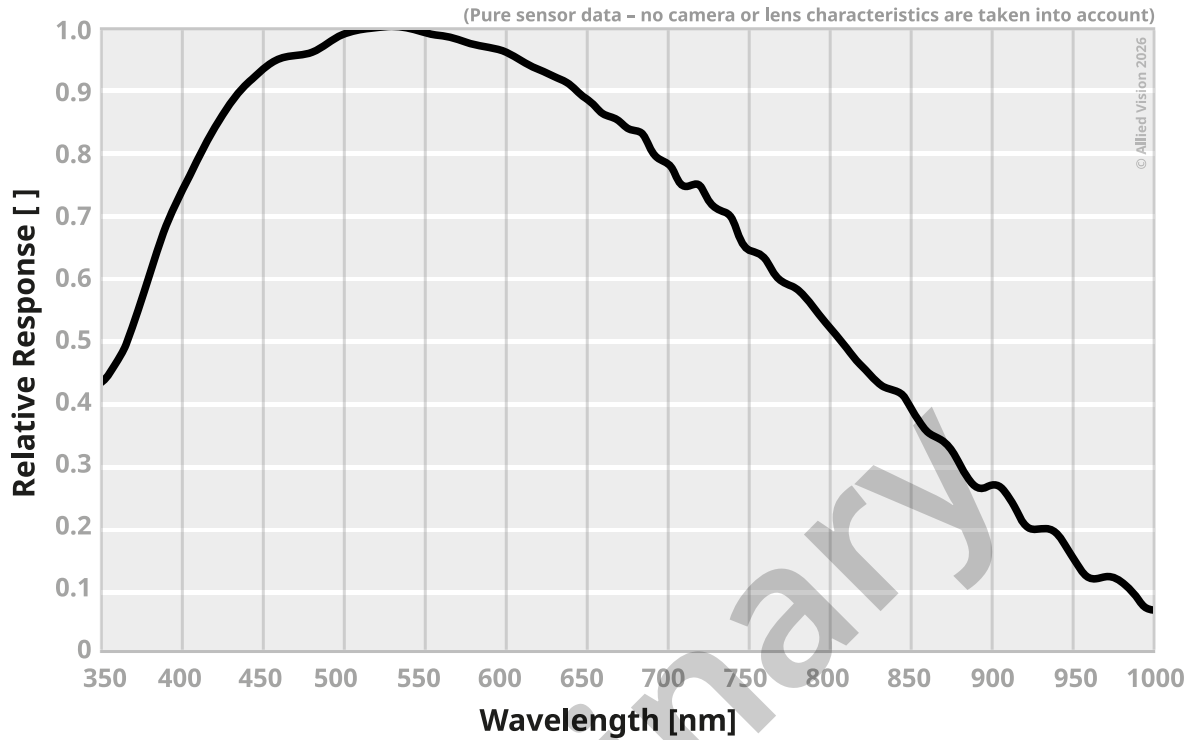
Exposure modes	manual, auto, external
Gain modes	auto, manual
Image control features	roi, lut, mirror-image, dpc, shading-correction, ffc, piv-mode

FW features - camera control

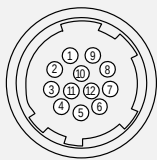
Camera control features	PTP, RDMA support, User Sets, PWM(4), Sequencer,
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preliminary

Quantum Efficiency



I/O pin assignment



1	V In- (GND)
2	V In+ (24 VDC)
3	In 4 (Rx D RS232)
4	Out 4 (Tx D 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)