Allied Vision



FXO CXP (4 Connections)

fxo936MCX12-4C

General

Model	fxo936MCX12-4C
Product code	F002436
Product series	FXO CXP (4 Connections)
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	4,128 × 3,008 (12.40 MP)
Sensor model	Sony IMX936
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	11.31 × 8.24 mm (14 mm, Type 1/1.1)
Pixel size	2.74 µm × 2.74 µm

Pixel formats

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

Timing and gain

Max. frame rate	339.6 fps
Exposure time	7 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, 0 x 24V input, 1 x Open drain output,
Specific non-isolated lines	0 x RS232 input, 0 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/O connector	4-pin molex 53398-0471
Power supply	Power over CoaXPress only
Power consumption	9 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)	34 × 50 × 50
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	C-Mount
Weight	130 g

On-board memory and FPGA

Non-volatile memory (Flash)	32 MByte

Interfaces

Digital interface	cxp-12 with 4 connections
Interface connector	(micro-BNC)
Vision standard	CoaXPress 2.0

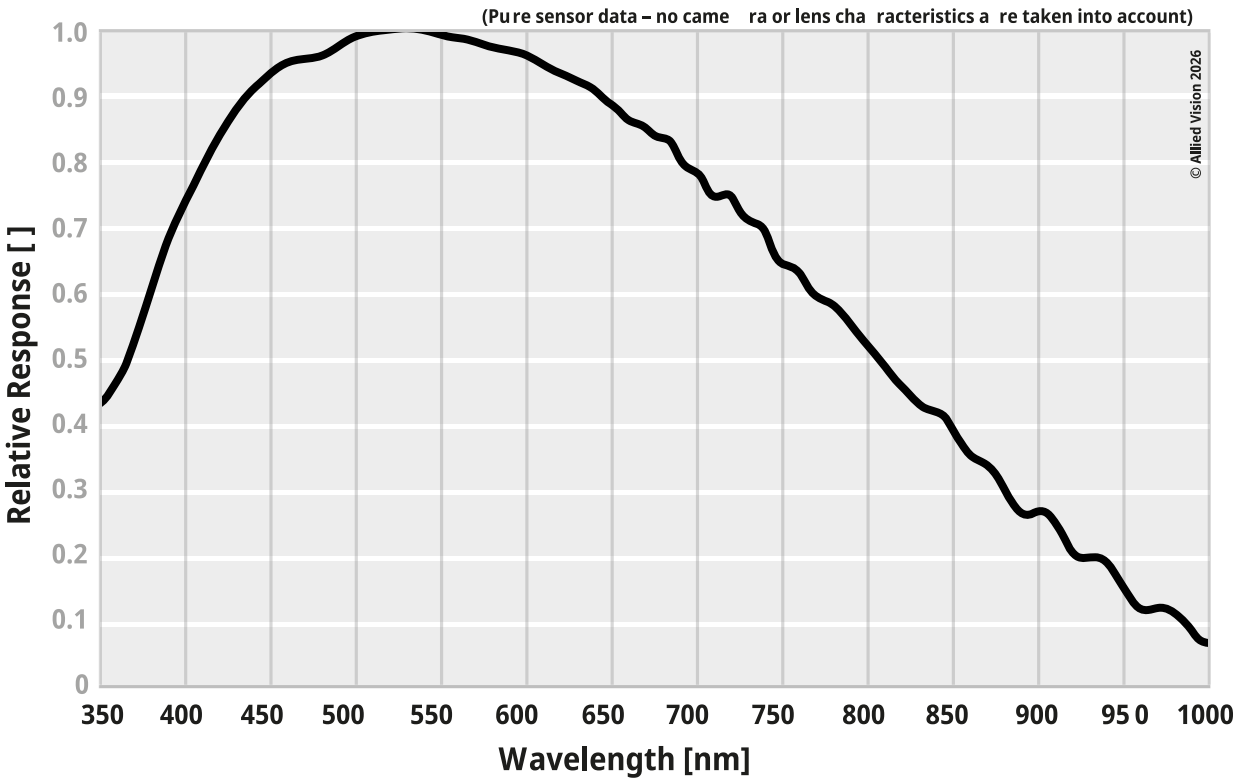
FW features - image control

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

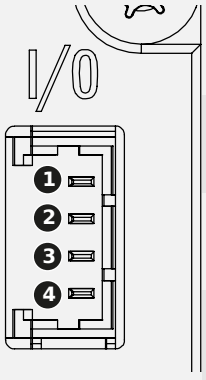
FW features - camera control

Trigger modes/sync	external, internal, software

Quantum Efficiency



I/O pin assignment

Position	Pin	Signal
	1	GND
	2	IO Out (open drain)
	3	IO In+ (opto In+)
	4	IO In- (opto In-)