



FXO CoaXPress

fxo537MCX12-2C

General

Model	fxo537MCX12-2C
Product code	F002252
Product series	FXO CoaXPress
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	2,448 × 2,048 (5.00 MP)
Sensor model	Sony IMX537
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	6.71 × 5.61 mm (8.75 mm, 8.8mm (Type 1/1.8))
Pixel size	2.74 µm × 2.74 µm

Pixel formats

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

Imaging performance

Dynamic range	72 dB
SNR	39 dB

Timing and gain

Max. frame rate	262 fps
Exposure time	5 μ s 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, 4 x Open drain output,
Specific non-isolated lines	1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,
Opto-isolated lines	1 x Optical isolated input, 0 x Optical isolated input,
Power supply	10 to 25VDC, Power over CoaXPress
Power consumption	External: 13 W (typical)

Operating conditions

Operating temperature (housing)	-10 °C to 60 °C
---------------------------------	-----------------

Mechanical properties

Body dimensions (L x W x H in mm)	73 x 50 x 50
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP30
Lens mount(s)	C-Mount
Weight	240 g

On-board memory and FPGA

Non-volatile memory (Flash)	32 MByte
-----------------------------	----------

Interfaces

Digital interface	cxp-12 with 2 connections
Interface connector	(micro-BNC)

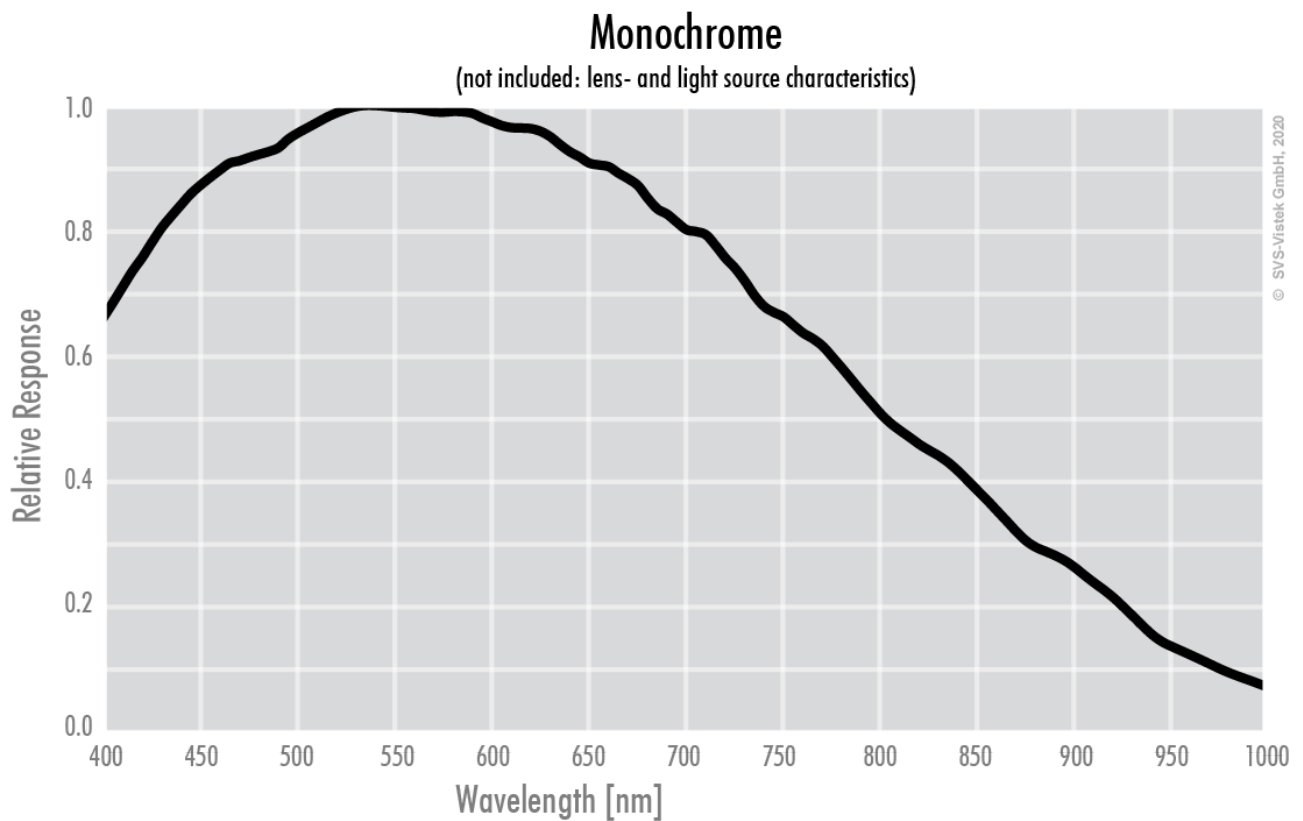
FW features - image control

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

FW features - camera control

Trigger modes/sync	internal, software, external
Camera control features	PoCxP, User Sets, PWM(4), Sequencer,

Quantum Efficiency



Technical Drawing

 Technical Drawing Front View

 Technical Drawing Left View

 Technical Drawing Top View

 Technical Drawing Cross Section

 Technical Drawing Back View

 Technical Drawing Right View

 Technical Drawing Bottom View

I/O pin assignment

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)