

## FX0 CoaXPress

# fxo421CCX12-2C

The FX0 CoaXPress offers the modern Sony Pregius S sensor with a high-performance interface. This camera is characterized by excellent Jitter and latency behavior. The thin CoaXPress cable supports distances up to 25m.

The solid, CNC-milled housing offers an excellent temperature management and allows an operating temperature of up to 60°C for most sensors.

The fan can be fully deactivated via software and features a hermetic seal that isolates airflow from internal components, ensuring compatibility with critical cleanroom environments. Optional heatsinks help keep your camera in optimal operating conditions.



## Technical Highlights

- Thermally optimized aluminum housing
- extremely low Jitter
- CoaXPress-12 interface, PoCXP
- Integrated 4-channel LED strobe controller
- ROI, binning, lookup tables
- IO interface with 2xIN, 4xOUT, Opto and RS232 with SafeTrigger, programmable timers, logic functions (PLC) and sequencer



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## Specifications

Resolution [MP]	2.8 MP
Resolution (h x v)	1936 x 1464 px
Frame rate(max.)	4/3.5 fps
Chroma	color
Interface	CXP-12 with 2 Connections (micro-BNC)

## Sensor

Sensor	IMX421LQJ-C
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	8.71 x 6.59 mm
Optical diagonal	10.92 mm
Sensor format	11.0mm (Type 2/3)
Pixel size (h x v)	4,5 x 4,5 µm

## Camera

Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	7 µs
Exposure time (max)	60 sec (external ∞)
Pixel format / max	bayer8, bayer12 / 12 bit
Gain modes	manual, auto
Internal memory	1024 MB SDRAM, 32 MB Flash

## Feature Set

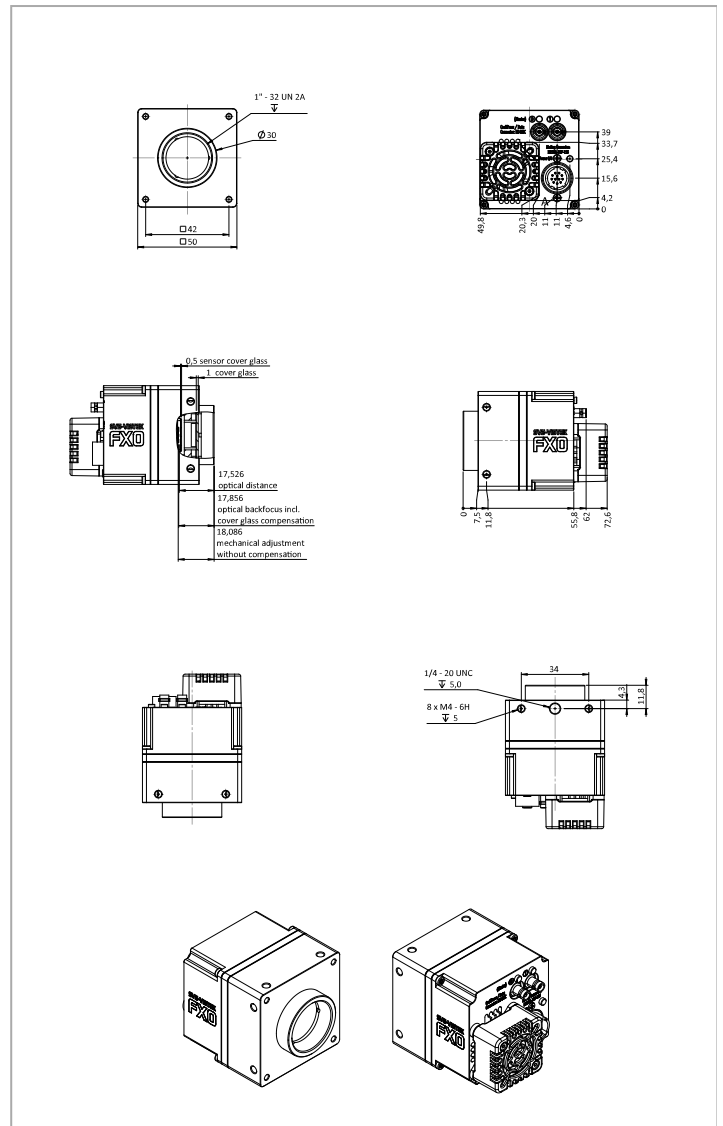
Manual white balance	yes
Automatic white balance	yes
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Sequencer	yes
PoCXP	yes

## Housing

Lens mount	C-Mount
Dimensions (w x h x d)	50 x 50 x 72.6 mm
Weight	240 g
Operating temperature (housing)	-10 to 60 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP30
Filter-/Coverglass	IR-Cut 680

## I/O-Interfaces

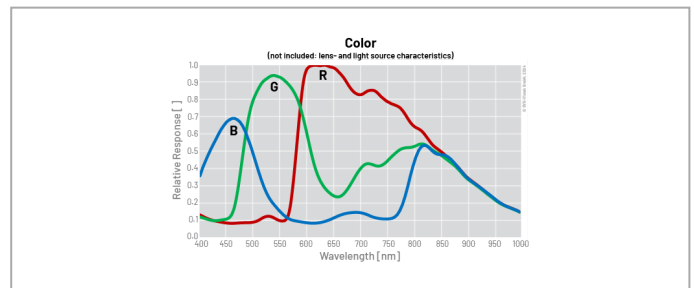
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	13 W (dep. on operating mode)



## Pinout Mating Connector

Hirose 12 Pin	1	2	3	4	5	6	7	8	9	10	11	12
	VIN -	VIN +	IN 4	OUT 4	IN 1	IN 2	OUT 1	OUT 2	IN 3 +	IN 3 -	OUT 3	OUT 0
	(GND)	(10 V to 25 V DC)	(RXD RS232)	(TXD RS232)	(0 - 24V)	(0 - 24V)	(open drain)	(open drain)	(opto In +)	(opto In -)	(open drain)	(open drain)

## Spectral Response \*



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

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