



a TKH Vision brand

Ultraviolet

fxo487MCX12-2C

Our ultraviolet cameras are based on the proven design of the FX0 series. The Sony Pregius UV image sensors are characterized by high resolution, dynamic range and sensitivity in the 200 - 400 nm range.

Signal voltages, temperature stability, I/O control, integrated strobe controller and firmware features are targeted at applications in demanding industrial automation.

Technical Highlights

- GenICam 3.0 Software Interface, GenTL
- LUT, Binning, ROI
- Electrical and optical inputs
- Up to 60°C operating temperature
- Industrial TTL-24V I/O interface with SafeTrigger, logic functions, programmable sequencers and timers, RS232 interface, integrated 4-channel strobe controller



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Specifications

Resolution [MP]	8.1 MP
Resolution (h x v)	2848 x 2848 px
Frame rate (max.)	195 fps
Chroma	UV
Interface	CXP-12 with 2 Connections (micro-BNC)

Sensor

Sensor	IMX487-AAMJ-C
Manufacturer	Sony
Sensor type	Area UV CMOS
Shutter type	global shutter
Sensor size (h x v)	7.8 x 7.8 mm
Optical diagonal	11.04 mm
Sensor format	11.1mm (Type 2/3)
Pixel size (h x v)	2.74 x 2.74 μm

Camera

Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	5 μs
Exposure time (max)	60 sec (external ∞)
Pixel format / max	mono8, mono12 / 12 bit
Gain modes	manual, auto
Internal memory	1024 MB SDRAM, 32 MB Flash

Feature Set

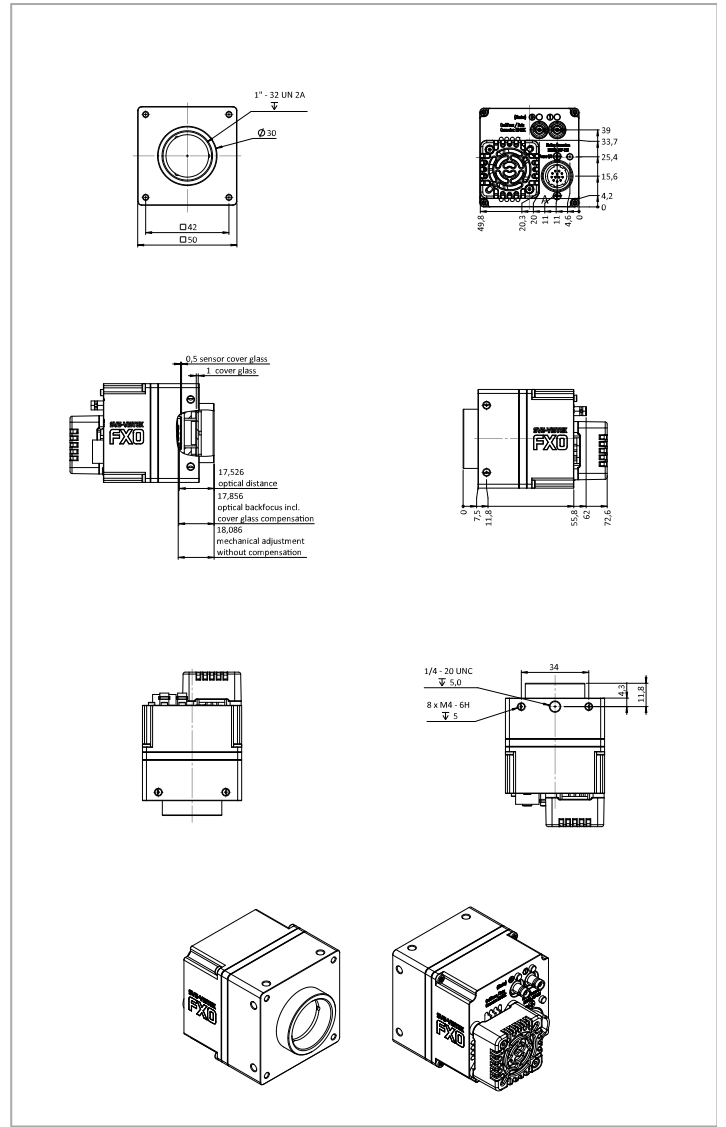
AOI	yes
LUT	yes
Offset	yes
Binning	yes
Image flip	yes
Shading correction	yes (external)
Defect pixel correction	yes
Sequencer	yes
PoCXP	yes

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 65 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP30
Filter-/Coverglass	UV Fused Silica 185-800nm

I/O-Interfaces

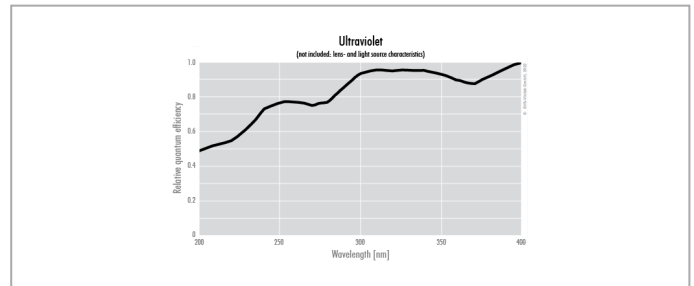
Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	12 W (dep. on operating mode)



Pinout Mating Connector

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)

Spectral Response *



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

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