Allied Vision

FXO Ultraviolet

fxo487MCX

General

Model	fxo487MCX
Product code	F002216
Product series	FXO Ultraviolet
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	UV
Spectral range	200 nm to 400 nm
Resolution	2,832 × 2,840 (8.00 MP)
Sensor model	Sony IMX487
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	7.76 × 7.78 mm (10.99 mm, Type 2/3)
Pixel size	2.74 µm × 2.74 µm

Pixel formats

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

Timing and gain

Max. frame rate	87 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, 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,

I/Os and power

Opto-isolated lines	1 x Optical isolated input, 0 x Optical isolated input,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	10 to 25VDC, Power over CoaXPress
Power consumption	External: 8 W (typical)

Operating conditions

Operating temperature (housing)	-10 °C to 65 °C

Mechanical properties

Body dimensions (L x W x H in mm)	70 × 50 × 50
Filter/protection glass	UV Fused Silica 185-800nm
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 1 connection
Interface connector	(micro-BNC)
Vision standard	CoaXPress 2.0

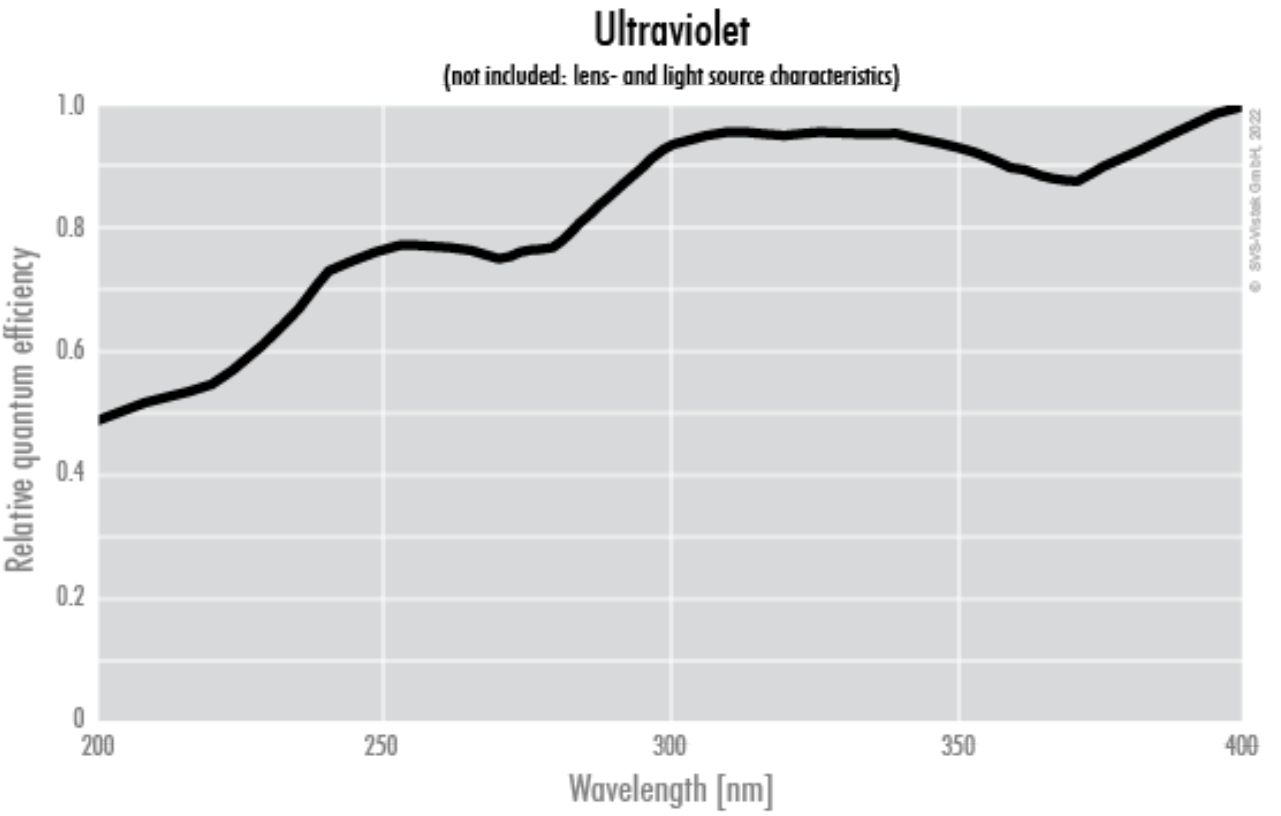
FW features - image control

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

FW features - camera control

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

Quantum Efficiency



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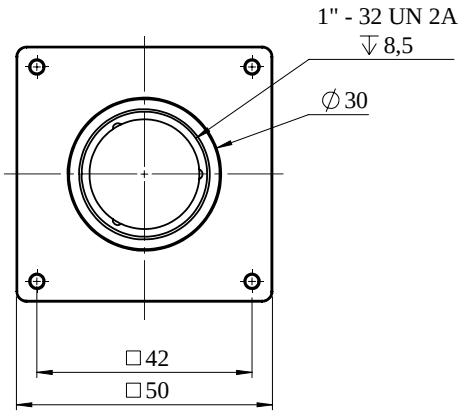
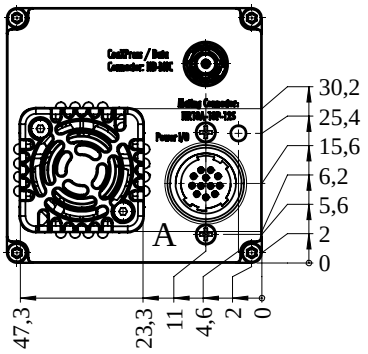
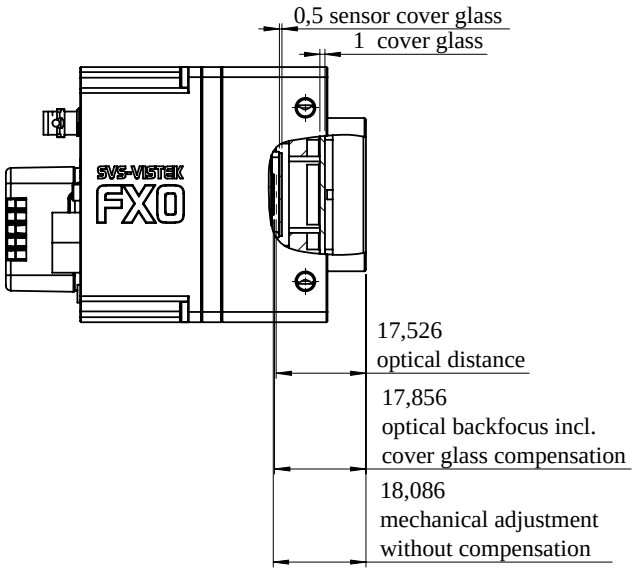
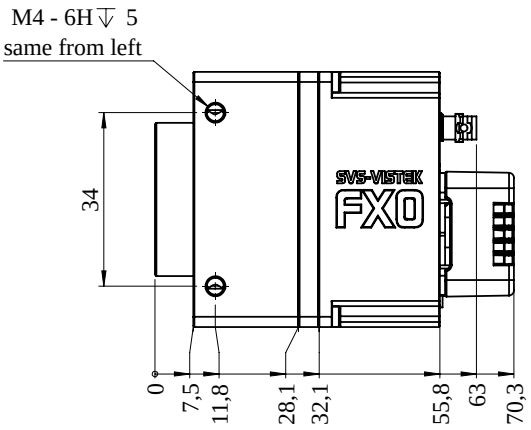
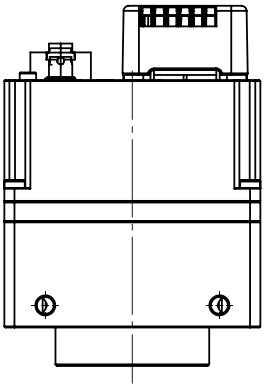
Technical Drawing

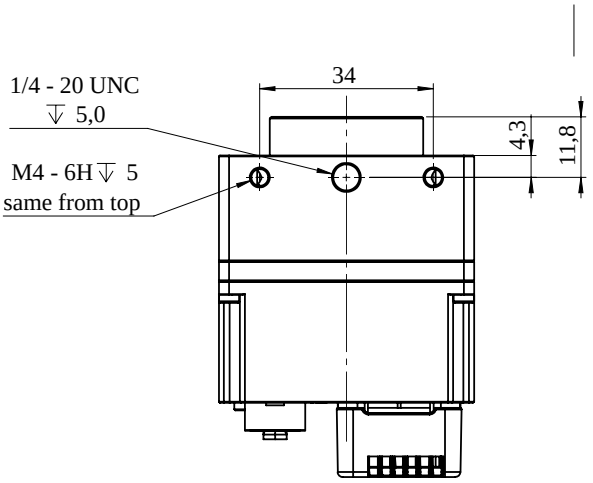


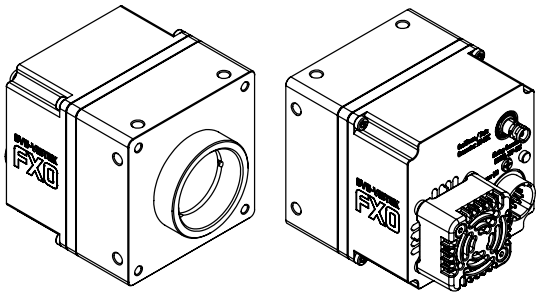






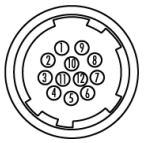






I/O pin assignment

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)