FXO Ultraviolet
fxo487MCX12-2C

General

Model:	fxo487MCX12-2C
Product code(s):	F002247
Product series:	FXO Ultraviolet
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono
Spectrum:	UV
Spectral range:	200 nm to 400 nm
Resolution:	2,848 × 2,848 (8.10 MP)
Sensor model:	Sony IMX487-AAMJ-C
Sensor architecture (material):	cmos
Shutter type(s):	global-shutter
Sensor size:	7.80 × 7.80 mm (11.04 mm, 11.1mm (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:	195 fps
Exposure time:	60 µs (max)
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,
Power supply:	10 to 25VDC
Power consumption:	External: 12 W (typical)

Operating conditions

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

Mechanical properties

Body dimensions (L x W x H in mm):	73 × 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 2 connections
Interface connector:	(micro-BNC)

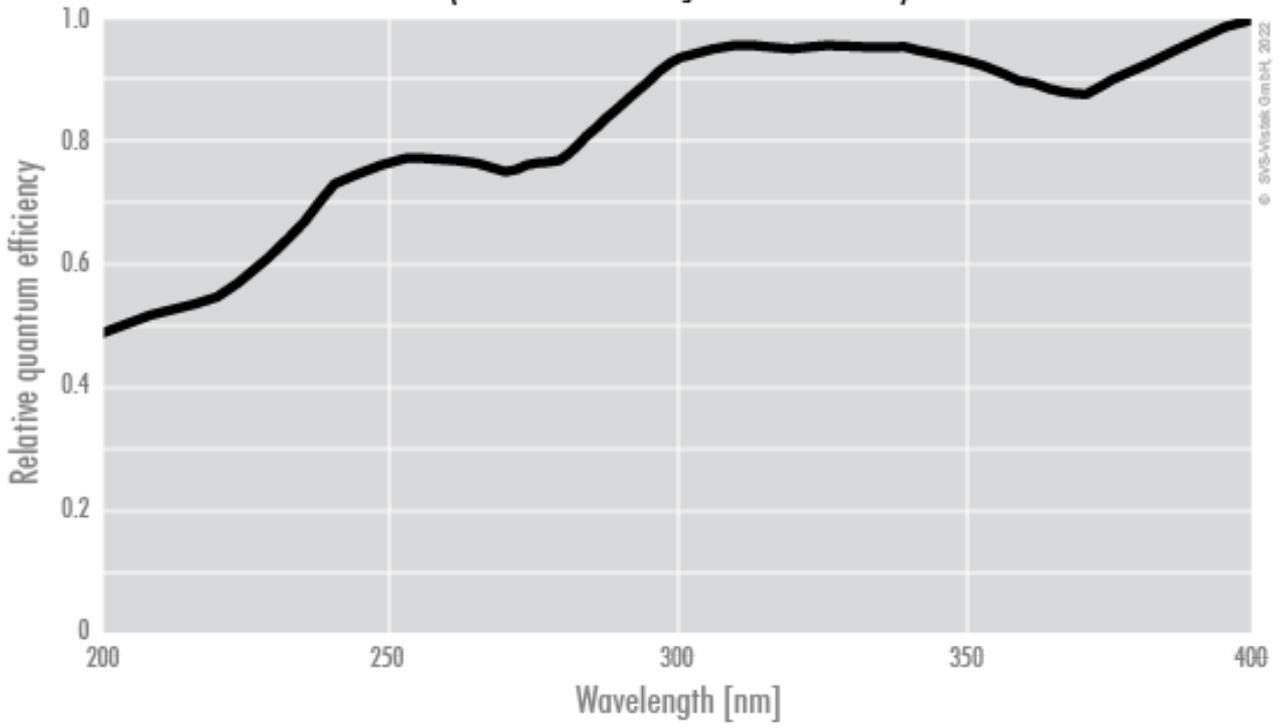## FW features - image control

Exposure modes:	Manual, Auto, External
Gain modes:	Auto, Manual
Image control features:	FW Features - Image Control

FW features - camera control

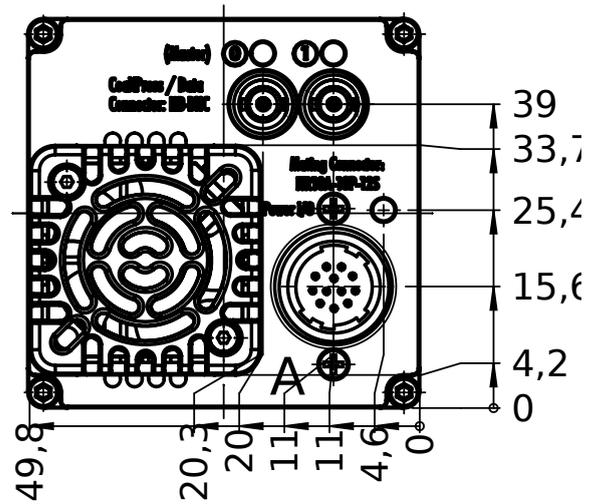|	
Trigger modes/sync:	INTERNAL,SOFTWARE,EXTERNAL
Camera control features:	PoCxP, User Sets, PWM(4), Sequencer,

Ultraviolet
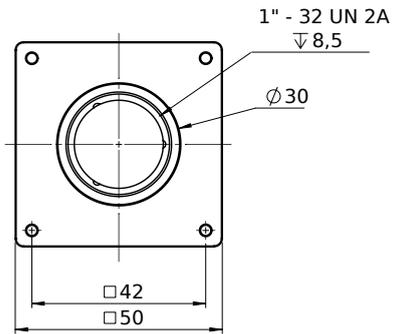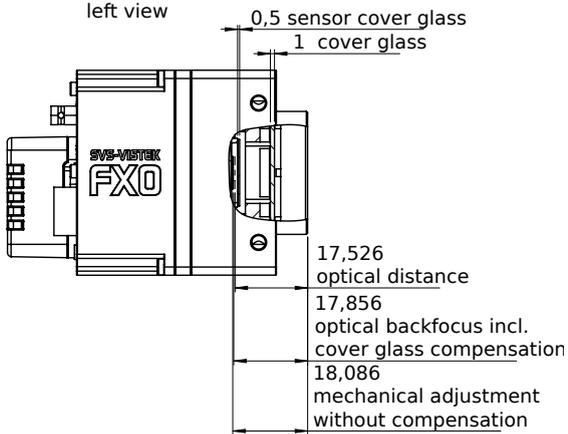
(not included: lens- and light source characteristics)

back view

front view

1" - 32 UN 2A
⊽ 8,5

∅ 30

□ 42
□ 50

39
33,7
25,4
15,6
4,2
0

49,8
20,3
20
11
11
4,6
0

left view

0,5 sensor cover glass
1 cover glass

SVS-VISTEK
FX0

17,526
optical distance
17,856
optical backfocus incl.
cover glass compensation
18,086
mechanical adjustment
without compensation

right view

SVS-VISTEK
FX0

0
7,5
11,8
55,8
62
72,6

top view

bottom view
34

1/4 - 20 UNC
⊽ 5,0

8 x M4 - 6H
⊽ 5

4,3
11,8
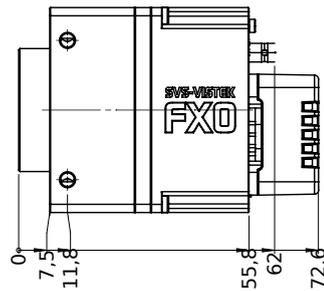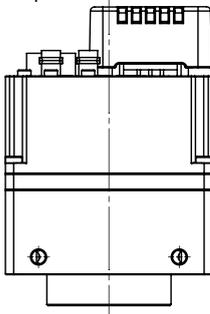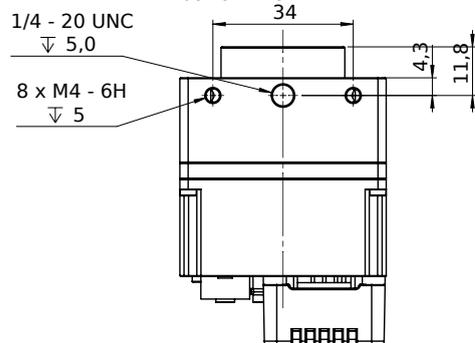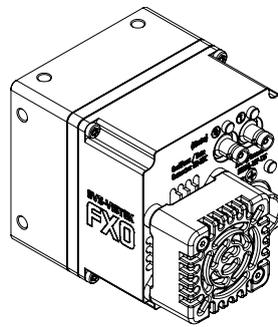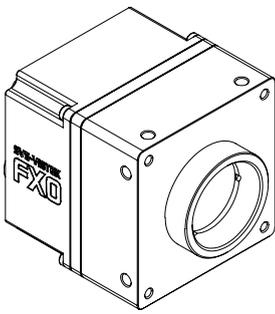
I/O pin assignment

Hirose 12 Pin

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