

EXO GigE

exo542MGE



General

Model	exo542MGE
Product code	F002168
Product series	EXO GigE
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	5,320 × 3,032 (16.10 MP)
Sensor model	Sony IMX542
Sensor architecture (material)	cmos
Shutter type(s)	global-shutter
Sensor size	14.58 × 8.31 mm (16.78 mm, 16.8mm (Type 1.1))
Pixel size	2.74 μm × 2.74 μm

Pixel formats

Sensor bit depth	8-Bit,12-Bit,12-Bit
Monochrome pixel formats	mono8, mono12packed

Timing and gain

Max. frame rate	7 fps
Exposure time	17 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,
Opto-isolated lines	1 x Optical isolated input, 0 x Optical isolated input,
Power supply	10 to 25VDC, Power over Ethernet
Power consumption	External: 4.5 W (typical)

Operating conditions

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

Body dimensions (L x W x H in mm)	43 x 50 x 50
Filter/protection glass	K9 - AR coating - 400-850nm
IP class	IP40
Lens mount(s)	C-Mount
Weight	143 g

On-board memory and FPGA

Image buffer (RAM)	192 MByte
Non-volatile memory (Flash)	32 MByte

Interfaces

Digital interface	gige
Interface connector	(RJ-45)

FW features - image control

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

FW features - camera control

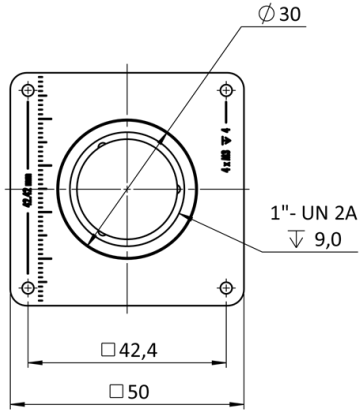
Trigger modes/sync	INTERNAL,SOFTWARE,EXTERNAL
Camera control features	PTP, User Sets, POE, PWM(4), Sequencer,

Quantum Efficiency

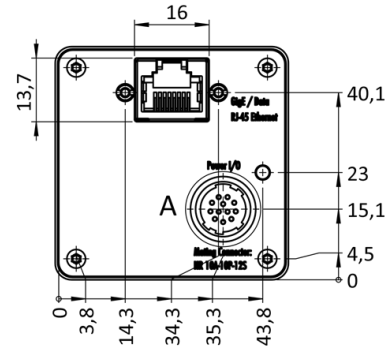


Technical Drawing

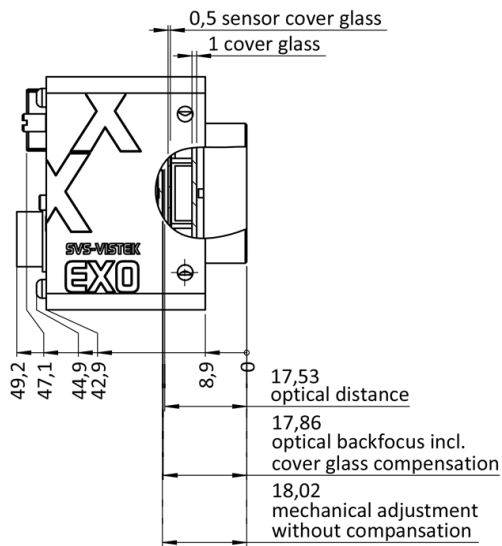
front



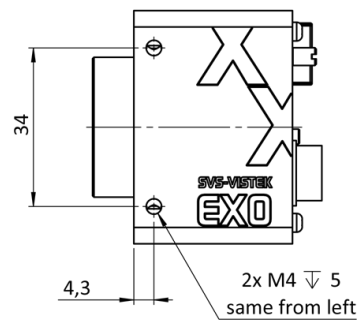
back



cross section

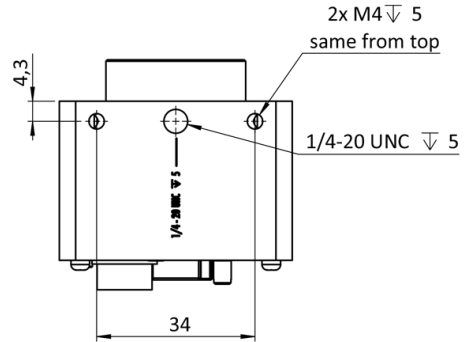
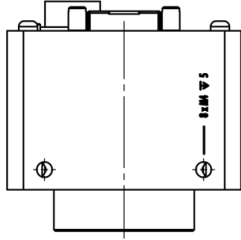


right side

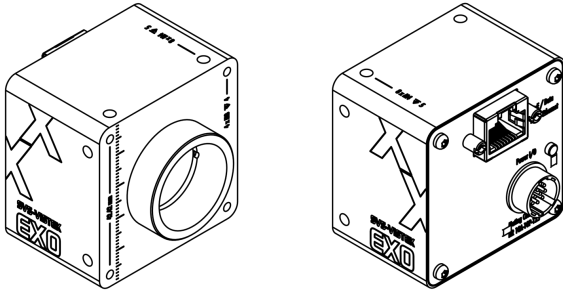


top

bottom



3D



I/O pin assignment



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)