

# 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 × 50 × 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,

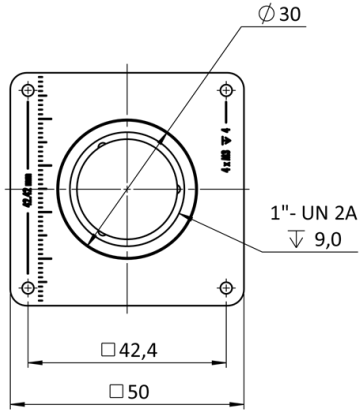


Quantum Efficiency

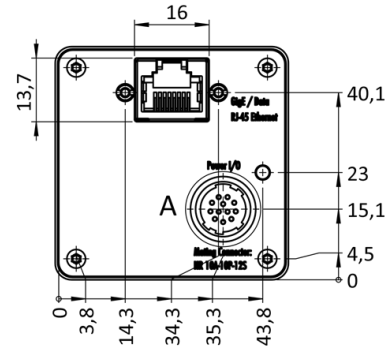


Technical Drawing

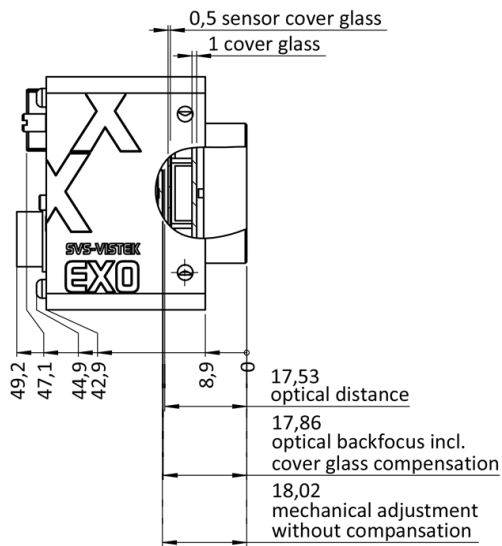
front



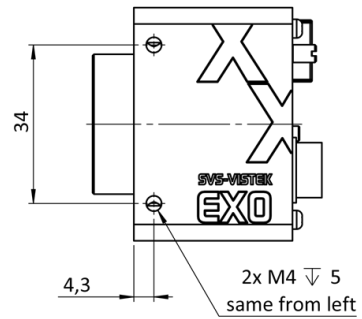
back



cross section

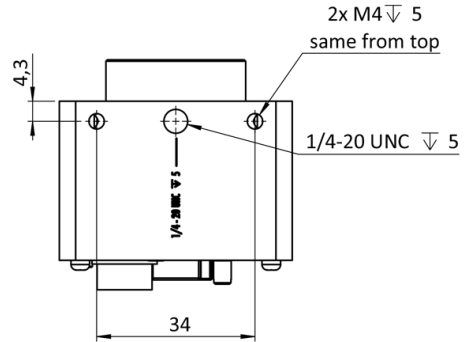
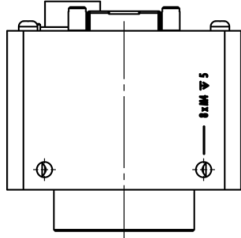


right side

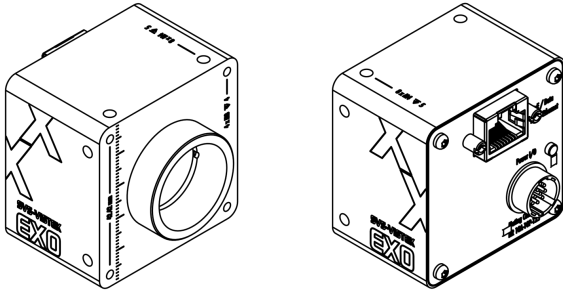


top

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)