



EXO GigE

exo546CGE

General

Model	exo546CGE
Product code	F002173
Product series	EXO GigE
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	2,840 × 2,840 (8.10 MP)
Sensor model	Sony IMX546
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	7.78 × 7.78 mm (11 mm, 11.1mm (Type 2/3))
Pixel size	2.74 µm × 2.74 µm

Pixel formats

Sensor bit depth	8-bit, 12-bit
RGB pixel formats	bayer8, bayer12packed

Timing and gain

Max. frame rate	15 fps
Exposure time	6 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 60 °C
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Mechanical properties

Body dimensions (L x W x H in mm)	43 × 50 × 50
Filter/protection glass	IR-Cut 680
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
White balance modes	auto, manual
Image control features	roi, lut, color-transformation, mirror-image, dpc, shading-correction, ffc

FW features - camera control

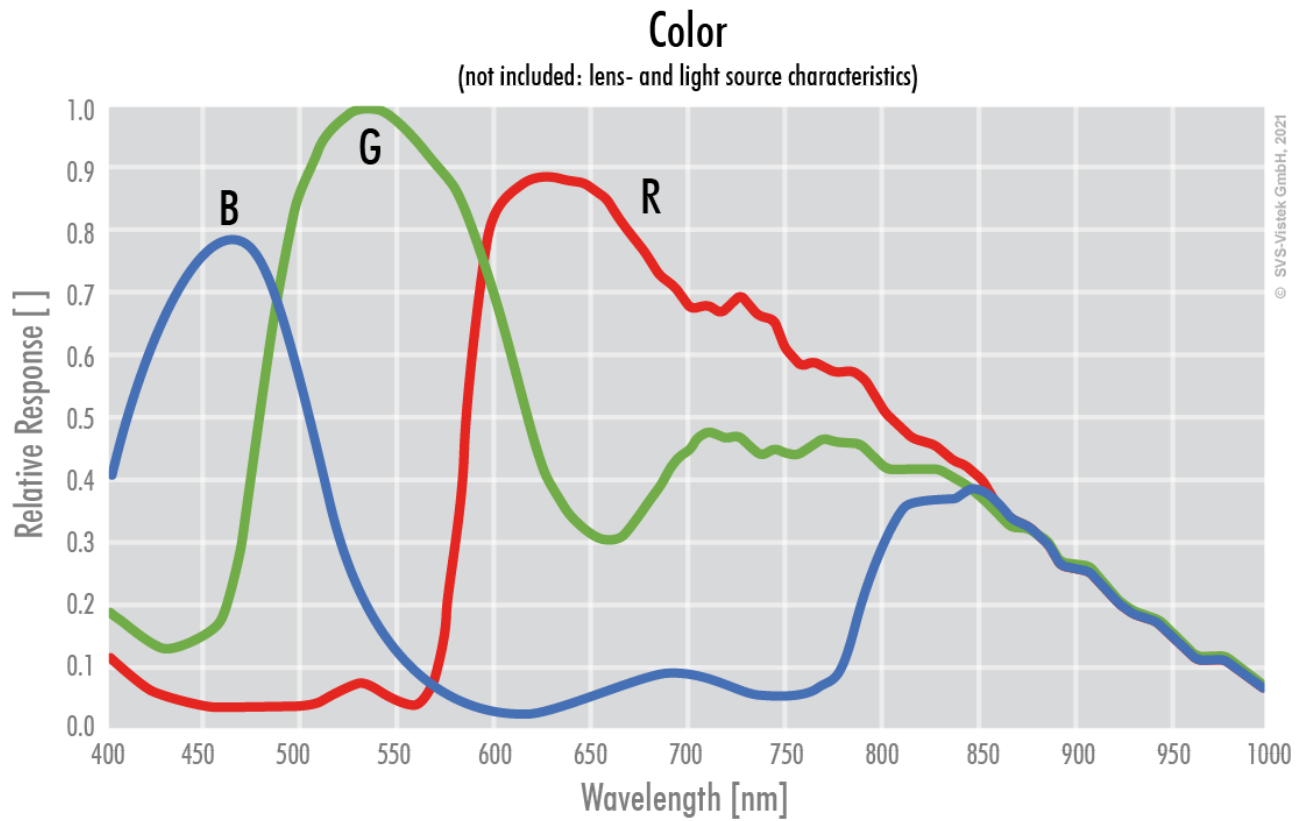
Trigger modes/sync	internal, software, external
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FW features - camera control

Camera control features

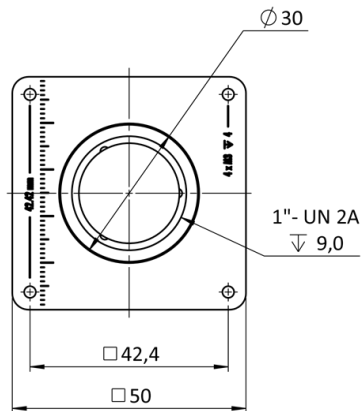
PTP, User Sets, POE, PWM(4), Sequencer,

Quantum Efficiency

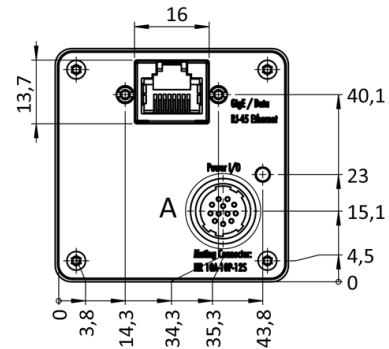


Technical Drawing

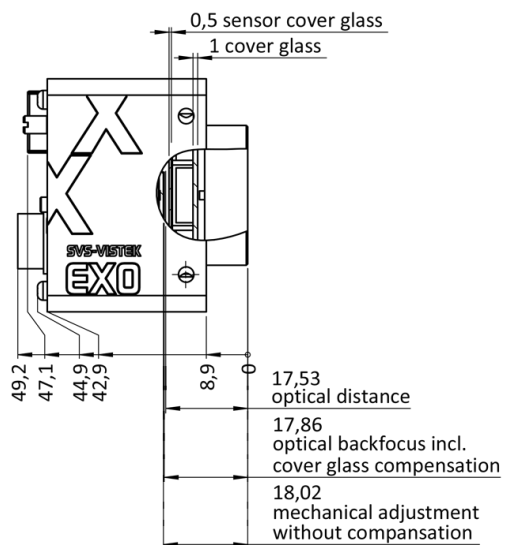
front



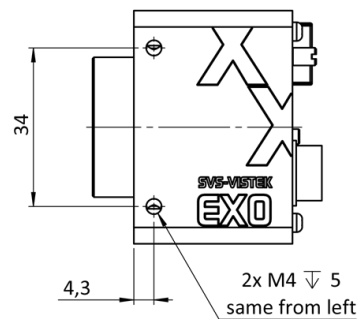
back



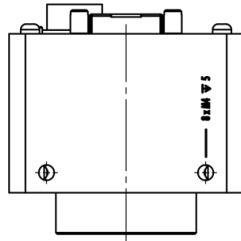
cross section



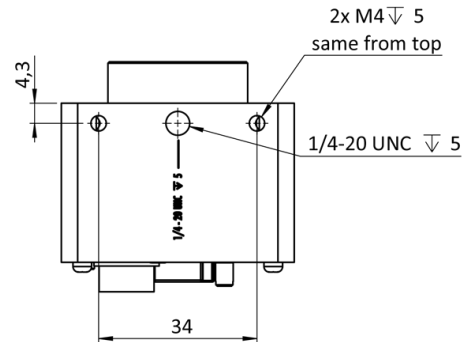
right side



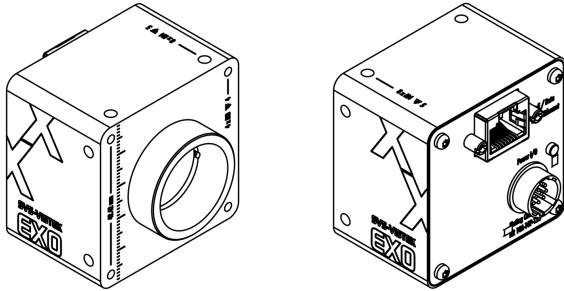
top



bottom



3D



I/O pin assignment



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)