Allied Vision

EXO GigE

exo901MGE



General

Model	exo901MGE
Product code	F002366
Product series	EXO GigE
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	Visible
Spectral range	400 nm to 1000 nm
Resolution	8,016 × 2,048 (16.40 MP)
Sensor model	Sony IMX901
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	21.96 × 5.61 mm (22.67 mm, Type 1.4)
Pixel size	2.74 µm × 2.74 µm

Pixel formats

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

Timing and gain

Max. frame rate	7.5 fps
Max. frame rate burst	21.5 fps
Exposure time	24 µs to 60 s
Gain	0.0 dB to 48.0 dB

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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,
I/O connector	12-pin Hirose HR10A-10P-12S
Power supply	10 to 25VDC, Power over Ethernet
Power consumption	External: 5 W (typical)

Operating conditions

Operating temperature	-10 °C to 60 °C (housing)

Mechanical properties

Body dimensions (L x W x H in mm)	43 × 50 × 50
Filter/protection glass	None
IP class	IP40
Lens mount(s)	C-Mount
Weight	140 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)
Vision standard	GigE Vision

FW features - image control

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

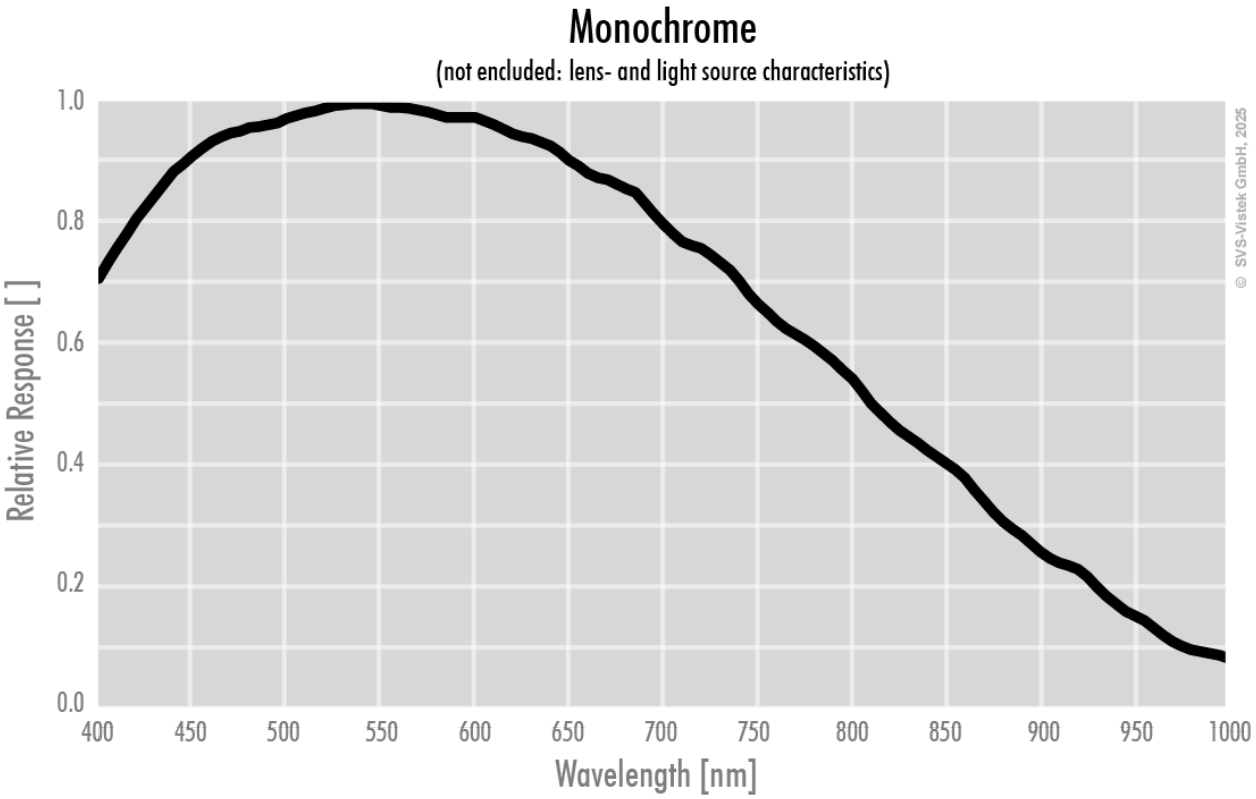
FW features - camera control

Trigger modes/sync	internal, software, external

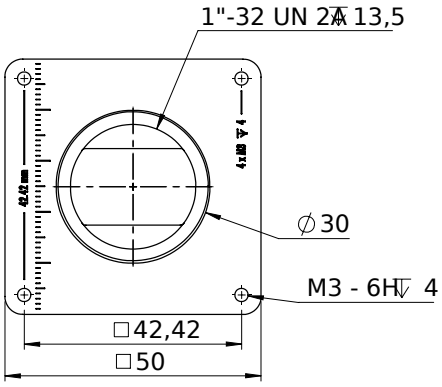
FW features - camera control

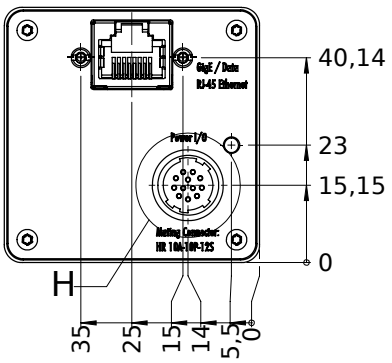
Camera control features	PTP, BurstMode, User Sets, POE, PWM(4), Sequencer,

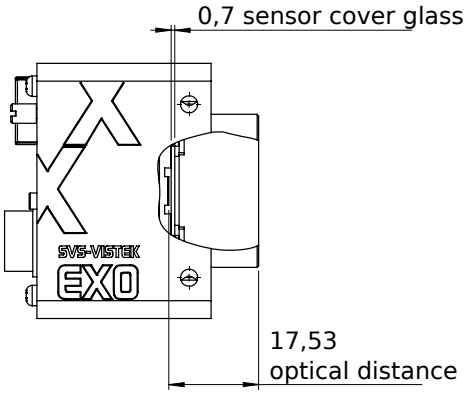
Quantum Efficiency

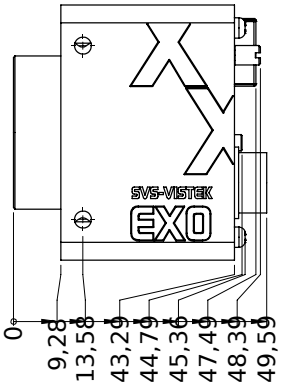


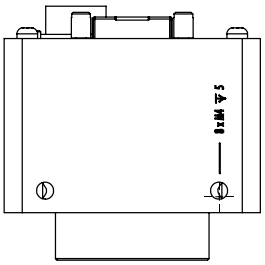
Technical Drawing

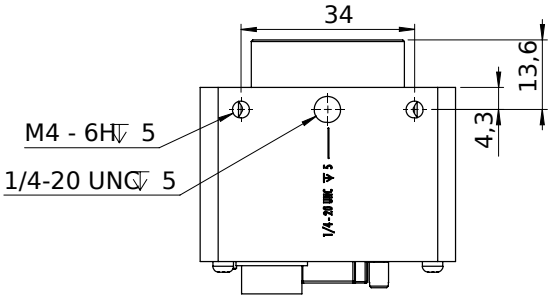


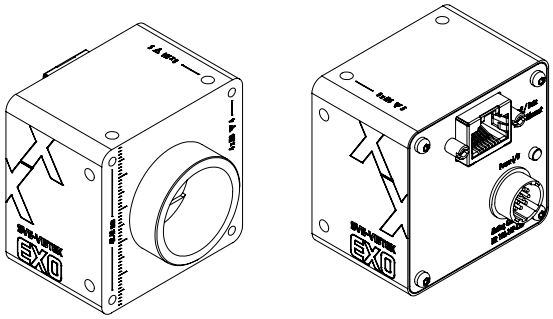






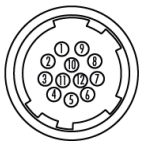






I/O pin assignment

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)