

# exo428CGE

EXO GigE



#### Form follows requirements

With uniform size and standard interfaces comes simple interchangeability, allowing the system integrator to easily adapt a solution to varying conditions and requirements - with minimal design effort. SVS-Vistek meets precisely these needs. The EXO series is a perfect match with its uniform form factor and feature set, combined with industry standard interfaces. A solution for virtually every case, allowing smooth and effortless up- or downscaling. Once designed in, the implementations can be varied endlessly.

SVCam EXO series cameras with GigE Vision interface give your applications an extreme scalability. Quick and easy hardware interchangeability results in shorter design cycles and reduced development costs. Further value is added to your application by a virtually limitless feature set. As an example, the 41/0 LED driver with standardized software control.

### Technical Highlights

- > 10 interface with 2xIN, 4xOUT, Opto and RS232
- > integrated 4-channel power strobe controller for direct LED control
- > SafeTrigger, programmable timers, logic functions (PLC) and sequencer
- > progressive scan/global shutter sensors
- > POE (Power Over Ethernet) single-cable option
- > Burst mode, ROI, binning, lookup tables
- > SDK for Windows (32/64 bit), Linux
- > GenlCam standard with GenTL driver
- > up to 120 MB/s data rate, up to 100m cable length
- > broadcast-safe

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## EXO Series exo428CGE

Resolution [MP]	7.1 MP	
Resolution (h x v)	3208 x 2200 px	
Frame rate (max.)	17.4 fps	
Frame rate burst mode (max.)	27 fps	
Chroma	color	
Interface	GigE Vision	

#### Sensor

Sensor	IMX428LQR	
Manufacturer	Sony	
Sensor type	Area CMOS	
Shutter type	global shutter	
Sensor size (h x v)	14.44 x 9.9 mm	
Optical diagonal	17.5 mm	
Sensor format	1.1 "	
Pixel size (h x v)	4.5 x 4.5 µm	

#### Camera

Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	30 hz
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer12packed / 12 bit
Gain modes / max	manual, auto / 48 dB
Internal memory	256 MB SDRAM, 32 MB Flash

#### Feature Set

Manual white balance	yes	
Automatic white balance	yes	
AOI	yes	
LUT	yes	
Offset	yes	
Readout control	yes	
Binning	yes	
lmage flip	yes	
Shading correction	yes	
Defect pixel correction	yes	
Sequencer	yes	
POE	yes	
PTP	yes	

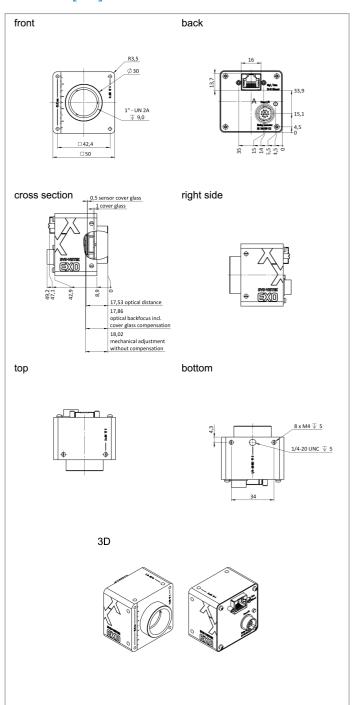
#### Housing

I/O-Interfaces

Lens mount	C-Mount		
Dimensions (w x h x d)	50 x 50 x 42.9 mm		
Weight	140 g		
Ambient temperature	-10 to 45 °C		
Ambient humidity	10 to 90 % (non-condensing)		
Protection class	IP40		

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## Dimensions [mm]

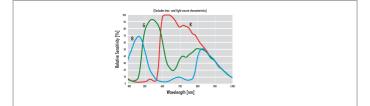


# **Pinout Mating Connector**

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

Spectral Response \*

Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	4.5 W (dep. on operating mode)



 $<sup>^{\</sup>star}$  Sensor data - excludes camera cover- or IR-cut filter characteristics