

# exo174CGE

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 exo174CGE

Resolution [MP]	2.3 MP	
Resolution (h x v)	1920 x 1200 px	
Frame rate (max.)	53.6 fps	
Frame rate burst mode (max.)	71.9 fps	
Chroma	color	
Interface	GigE Vision	

#### Sensor

Sensor	IMX174LQJ		
Manufacturer	Sony		
Sensor type	Area CMOS		
Shutter type	global shutter		
Sensor size (h x v)	11.25 x 7.03 mm		
Optical diagonal	13.27 mm		
Sensor format	1/1.2 "		
Pixel size (h x v)	5.86 x 5.86 µm		

#### Camera

Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	25 µs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer12packed / 12 bit
Gain modes / max	manual, auto / 18 dB
S/N ratio (max)	44 dB (dep. on environment)
Dynamic range (max)	72 dB (dep. on environment)
Internal memory	256 MB SDRAM, 32 MB Flash

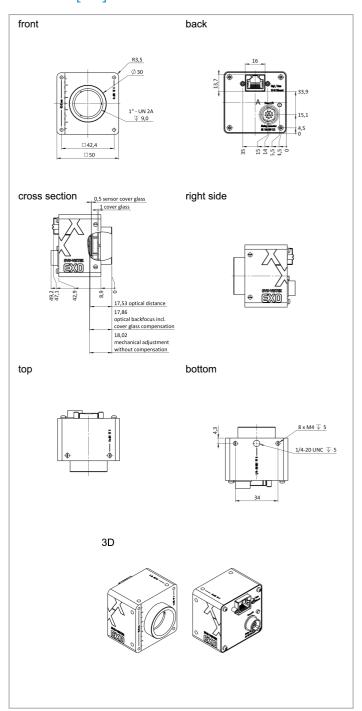
#### Feature Set

Feature Set		
Manual white balance	yes	
Automatic white balance	yes	
AOI	yes	
LUT	yes	
Offset	yes	
Readout control	yes	
Binning	yes	
Image flip	yes	
Shading correction	yes	
Defect pixel correction	yes	
Sequencer	yes	
POE	yes	
РТР	yes	
Color Transformation Control	yes	

## Housing

Lens mount	C-Mount	
Dimensions (w x h x d)	50 x 50 x 42.9 mm	
Weight	140 g	
Operating temperature (housing)	-10 to 60 °C	

# Dimensions [mm]

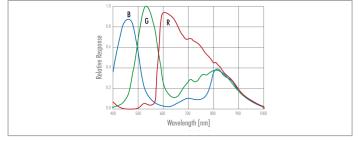


# **Pinout Mating Connector**

Hirose 12 Pin	1 2 3 4 5	VIN – VIN + IN 4 OUT 4 IN 1	(GND) (10 V to 25 V DC) (RXD RS232) (TXD RS232) (0-24V)	7 8 9 10		(open drain) (open drain) (opto In +) (opto In -) (open drain)
000	5 6	IN 1 IN 2	(0 - 24V) (0 - 24V)	11 12	OUT 3	(open drain) (open drain)

Spectral Response \*

Ambient humidity	10 to 90 % (non-condensing)		
Protection class	IP40		
I/O-Interfaces			
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)		



 $^\star$  Sensor data - excludes camera cover- or IR-cut filter characteristics