

exo540CU3

EXO USB3 Vision



SVS-Vistek GmbH - Ferdinand-Porsche-Str. 3 - 82205 Gilching - Germany - Telephone +49 8105 3987-60 Information accurate as to: 13.07.2022, errors and omissions excepted. © 2022 - SVS-Vistek GmbH, all rights reserved. The SVCam EXO is one of the most flexible and scalable cameras for the industrial market segment. The USB3 Vision interface is easy to integrate in your system, with a data rate up to effective 360 MB/sec. The time to market for applications is shortened, saving cost even further. Power the camera via the interface and reduce cable complexity.

Technical Highlights

- > Up to 360 MB/s effective transfer rate
- > Leverages existing infrastructure for cables and connectors
- > Powers camera with up to 4.5 W
- > GenlCam compliant
- > Cost effective / Easy implementation and interfacing

EXO Series

S/N ratio (max)

Internal memory

Feature Set

AOI

LUT

Offset

Binning

Image flip

Sequencer

Housing

Weight

Lens mount

Shading correction

Defect pixel correction

Dimensions (w x h x d)

Ambient humidity

Protection class

I/O-Interfaces

Input OPTO

Operating temperature (housing)

Dynamic range (max)

Manual white balance

Automatic white balance

exo540CU3

Resolution [MP]	24.5 MP
Resolution (h x v)	5320 x 4600 px
Frame rate (max.)	15 fps
Chroma	color
Interface	USB3 Vision
Sensor	
Sensor	IMX540LQA
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	14.58 x 12.6 mm
Optical diagonal	19.27 mm
Sensor format	19.3mm (Type 1.2)
Pixel size (h x v)	2.74 x 2.74 µm
Camera	
Exposure modes	MANUAL;AUTO;EXTERNAL
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	28 µs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer12packed / 12 bit
Gain modes	manual, auto

39.2 dB (dep. on environment)

72 dB (dep. on environment)

yes

C-Mount

140 g

IP40

2 x

1 x

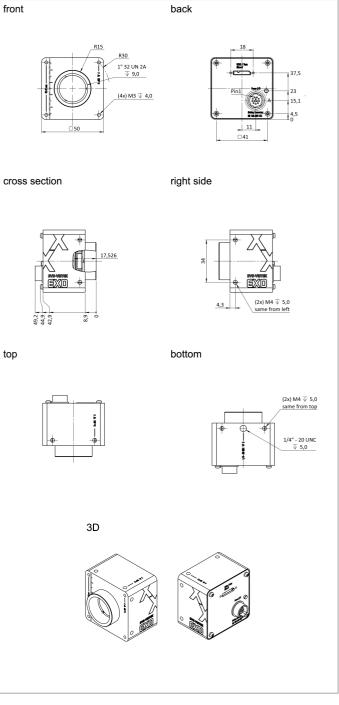
-10 to 65 °C

50 x 50 x 42.7 mm

10 to 90 % (non-condensing)

256 MB SDRAM, 32 MB Flash

Dimensions [mm]

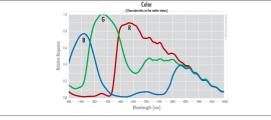


Pinout Mating Connector

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	IN3+	(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	OUTO	(open drain)
	6	IN 2	(0-24V)	12	OUTO	(open drain)

Spectral Response *

4 x
1 x
10 to 25 V (DC)
4 W (dep. on operating mode)



 * Sensor data — excludes camera cover- or IR-cut filter characteristics