

exo253MU3

EXO USB3 Vision



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

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.

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EXO Series exo253MU3

Resolution [MP]	12.3 MP	
Resolution (h x v)	4096 x 3000 px	
Frame rate (max.)	30 fps	
Chroma	mono	
Interface	USB3 Vision	

Sensor

Sensor	IMX253LLR
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	14.13 x 10.35 mm
Optical diagonal	17.52 mm
Sensor format	1.1 "
Pixel size (h x v)	3.45 x 3.45 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	mono8, mono12packed / 12 bit
Gain modes / max	manual, auto / 48 dB
S/N ratio (max)	39.6 dB (dep. on environment)
Dynamic range (max)	72 dB (dep. on environment)
Internal memory	256 MB SDRAM, 32 MB Flash

Feature Set

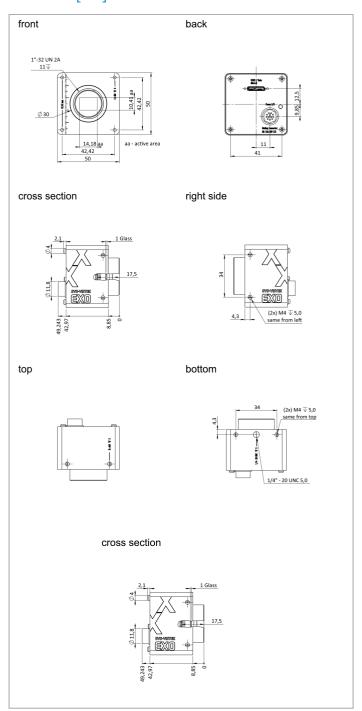
AOI	yes	
LUT	yes	
Offset	yes	
Binning	yes	
Image flip	yes	
Shading correction	yes	
Defect pixel correction	yes	
Sequencer	yes	

Housing

Lens mount	C-Mount	
Dimensions (w x h x d)	50 x 50 x 43 mm	
Weight	138 g	
Operating temperature (housing)	-10 to 60 °C	
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	

Dimensions [mm]

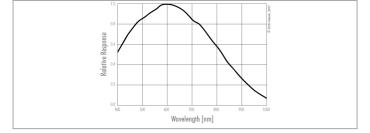


Pinout Mating Connector

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	0UT 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)

Spectral Response *

Power supply	10 to 25 V (DC)
Power consumption	4.5 W (dep. on operating mode)



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