

exo174CU3

EXO USB3 Vision



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.

The SVCam EXO is one of the most flexible and scalable cameras for the industrial

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

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EXO Series exo174CU3

Resolution [MP]	2.3 MP	
Resolution (h x v)	1920 x 1200 px	
Frame rate (max.)	160 fps	
Chroma	color	
Interface	USB3 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

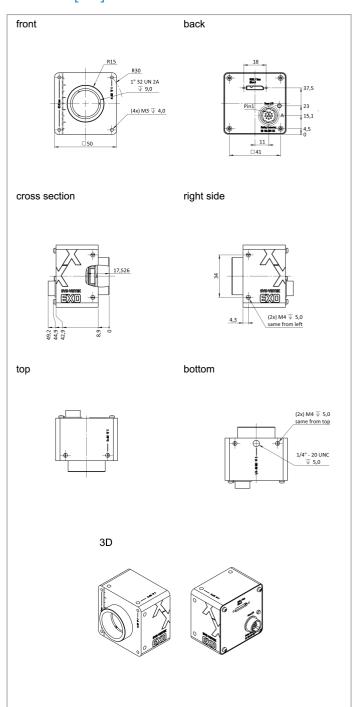
Manual white balance	yes	
Automatic white balance	yes	
AOI	yes	
LUT	yes	
Offset	yes	
Binning	yes	
Image flip	yes	
Shading correction	yes	
Defect pixel correction	yes	
Sequencer	yes	

Housing

Lens mount	C-Mount	
Dimensions (w x h x d)	50 x 50 x 42.7 mm	
Weight	140 g	
Operating temperature (housing)	-10 to 60 °C	
Ambient humidity	10 to 90 % (non-condensing)	
Protection class	IP40	

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Input up to 24V	2 x		
Input OPTO	1 x		

Dimensions [mm]

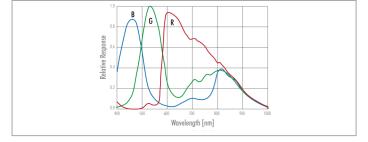


Pinout Mating Connector

Hirose 12 Pin	1	VIN —	(GND)	7	OUT 1	(open drain)
	2	${\tt 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	IN3-	(opto In —)
(\\ 000 })	5	IN 1	(0 - 24V)	11	OUT 3	(open drain)
	6	IN 2	(0-24V)	12	0 TUO	(open drain)

Spectral Response *

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)



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