exo387CU3

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. EXO provides Plug-and-play capability for the whole range of 2.3 to 12 MP resolutions.
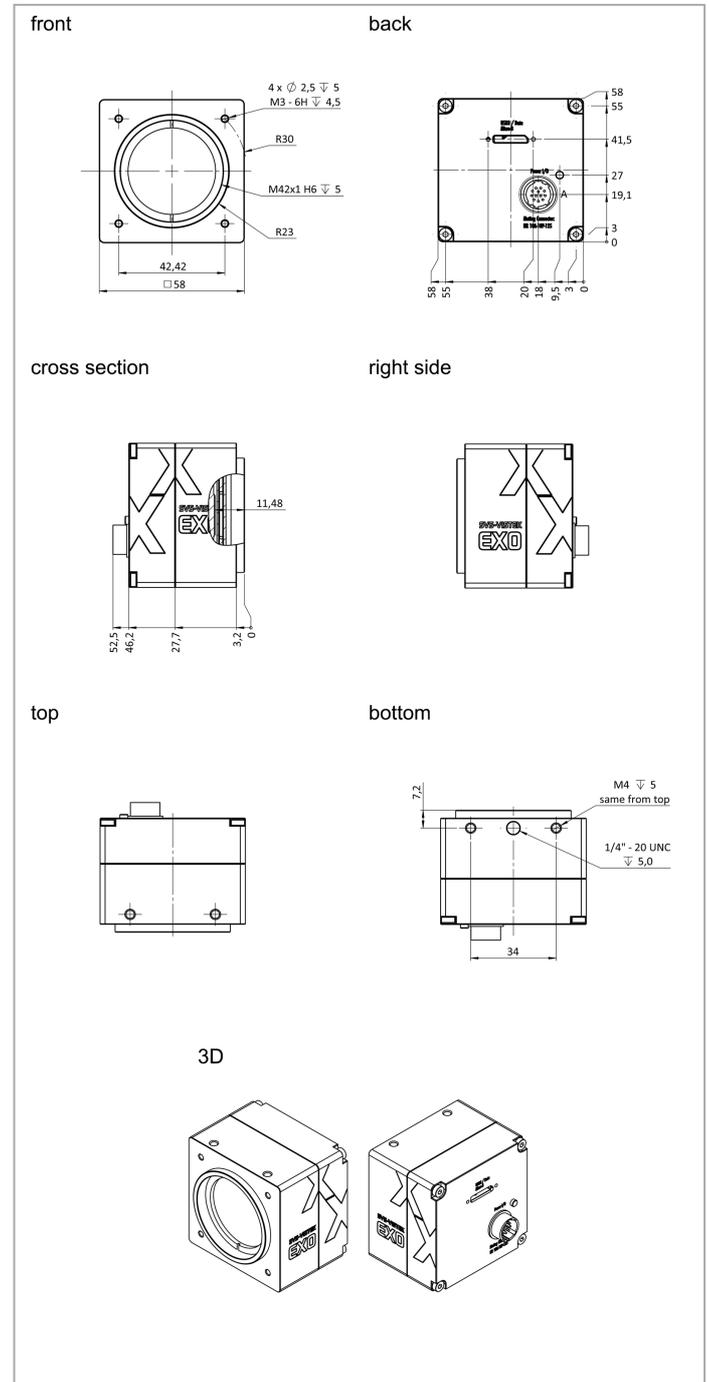
Technical Highlights

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

EXO Series   exo387CU3

Resolution	5456 x 3076 px
Frame rate (max.)	22 fps
Chroma	color
Interface	USB3 Vision

Sensor

Sensor	IMX387LQA
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	18.82 x 10.61 mm
Optical diagonal	21.61 mm
Sensor format	21.7mm (4/3)
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)	29 µs
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
Binning	yes
Image flip	yes
Sequencer	yes

Housing

Lens mount	M42
Dimensions (w x h x d)	58 x 58 x 46.2 mm
Weight	320 g
Operating temperature (housing)	-10 to 65 °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
Power supply	10 to 25 V (DC)
Power consumption	5.5 W (dep. on operating mode)

Dimensions [mm]

front   back

cross section   right side

top   bottom

3D

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	IN 3 +	(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	OUT 0	(open drain)

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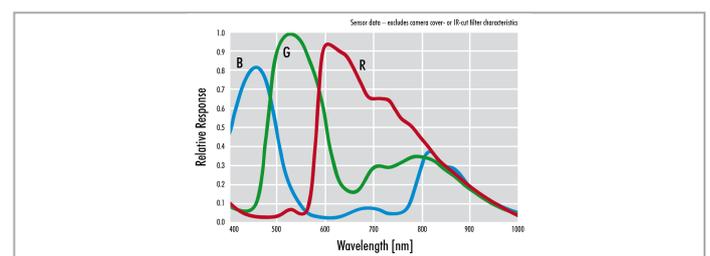
* Sensor data — excludes camera cover- or IR-cut filter characteristics