exo183CU3

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 exo183CU3

Resolution	5496 x 3672 px
Frame rate (max.)	17 fps
Chroma	color
Interface	USB3 Vision

Sensor

Sensor	IMX183CQJ
Manufacturer	Sony
Sensor type	Area CMOS
Shutter type	rolling shutter
Sensor size (h x v)	13.19 x 8.81 mm
Optical diagonal	15.86 mm
Sensor format	1 "
Pixel size (h x v)	2.4 x 2.4 µm

Camera

Exposure modes	MANUAL;AUTO
Trigger modes	INTERNAL;SOFTWARE;EXTERNAL
Exposure time (min)	120 µs
Exposure time (max)	1 sec
Pixel format / max	bayer8, bayer12packed / 12 bit
Gain modes / max	manual, auto / 27 dB
Internal memory	256 MB SDRAM, 32 MB Flash

Feature Set

Manual white balance	yes
Automatic white balance	yes
AOI	yes
LUT	yes
Readout control	yes
Binning	yes
Image flip	yes
Sequencer	yes

Housing

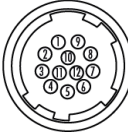|	
Lens mount	C-Mount
Dimensions (w x h x d)	50 x 50 x 34.1 mm
Weight	138 g
Operating temperature (housing)	-10 to 60 °C
Ambient humidity	10 to 90 % (non-condensing)
Protection class	IP40

I/O-Interfaces

Input up to 24V	2 x
Input OPTO	1 x
Output open drain	4 x
I/O RS-232	1 x
Power supply	10 to 25 V (DC)
Power consumption	4.5 W (dep. on operating mode)

Dimensions [mm]

front

back

cross section

right side

top

bottom
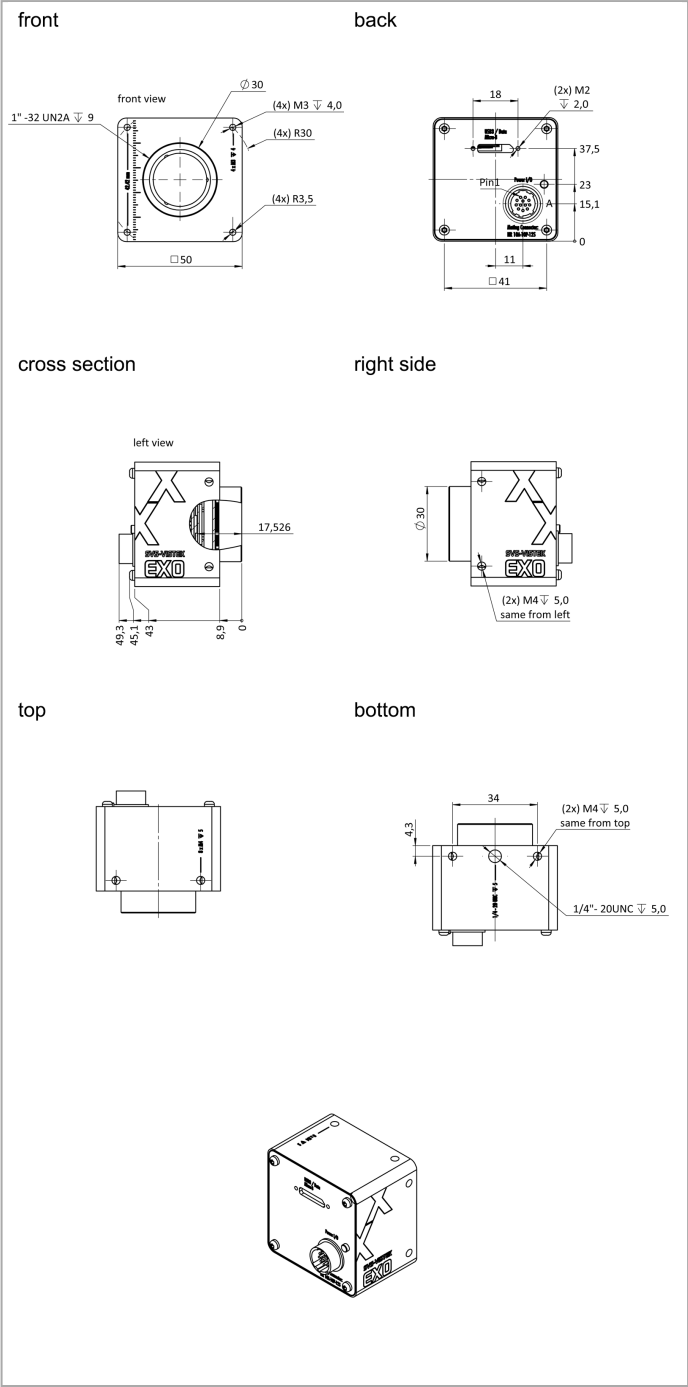
Pinout Mating Connector

Hirose 12 Pin

#	Signal	Description	#	Signal	Description
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)