

Astra SDK:

<https://orbbec3d.com/develop/>

Installed:

1. Astra_SDK

Basic run test:

```
~/Desktop/AstraSDK-v2.1.3-Ubuntu-x86_64/AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64/bin$ ./DepthReaderPoll
```

2. Orbbec_OpenNI

Basic run test:

```
~/Desktop/Linux/OpenNI-Linux-x64-2.3.0.66/Tools$ ./NiViewer
```

Both tests run with this warning:

Warning: USB events thread - failed to set priority. This might cause loss of data...

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Astra Body Tracker:

<https://3dclub.orbbec3d.com/t/ros-package-for-astra-sdk-body-tracking-available/1797>

https://github.com/shinselrobots/astra_body_tracker

https://github.com/shinselrobots/body_tracker_msgs

1. Can't run SimpleBodyViewer-SFML:

```
./bin/ColorizedBodyViewer-SFML: error while loading shared libraries:
libsfml-graphics.so.2.4: cannot open shared object file: No such file or
directory
```

<https://itsfoss.com/solve-open-shared-object-file-quick-tip/>

```
ladak@ladak-ThinkStation-P330:~/Desktop/AstraSDK-v2.1.3-Ubuntu-x86_64/AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64$ apt search libsfml-graphics
Sorting... Done
Full Text Search... Done
libsfml-graphics2.5/focal,now 2.5.1+dfsg-1build1 amd64 [installed,automatic]
  Simple and Fast Multimedia Library - Graphics part
```

-maybe I need the older version of SFML?

How to reinstall libsfml-dev (2.4 instead of 2.5) to Ubuntu 20.04:

- `sudo apt-get install libsfml-dev`
=> installed 2.5
- `sudo apt-get remove libsfml-dev`
- `sudo apt autoremove`

<https://askubuntu.com/questions/1365914/error-while-loading-shared-libraries-libsfml-system-so-2-4>

- `cd ~/Downloads`
- `wget -c http://archive.ubuntu.com/ubuntu/pool/universe/libs/libsfml/libsfml-audio2.4_2.4.2+dfsg-4_amd64.deb`
- `wget -c http://archive.ubuntu.com/ubuntu/pool/universe/libs/libsfml/libsfml-graphics2.4_2.4.2+dfsg-4_amd64.deb`
- `wget -c http://archive.ubuntu.com/ubuntu/pool/universe/libs/libsfml/libsfml-network2.4_2.4.2+dfsg-4_amd64.deb`
- `wget -c http://archive.ubuntu.com/ubuntu/pool/universe/libs/libsfml/libsfml-system2.4_2.4.2+dfsg-4_amd64.deb`
- `wget -c http://archive.ubuntu.com/ubuntu/pool/universe/libs/libsfml/libsfml-window2.4_2.4.2+dfsg-4_amd64.deb`
- `sudo apt-get install ./libsfml*.deb`

OK, now it's working -tested by SDK sample ./SimpleBodyViewer-SFML.

2. Missing license for Body Tracking – Issue #1

ERROR [astra] Body Tracking Error: 0x50000c39 Invalid Orbbec Body Tracking license. Please purchase Orbbec Body Tracking License.

- <https://3dclub.orbbec3d.com/t/body-tracking-not-free-after-january-31-2018/1273/17>
- <https://3dclub.orbbec3d.com/t/orbbec-2-0-9-body-tracking-sdk-expiration/2020>
- <https://3dclub.orbbec3d.com/t/no-response-on-body-tracking-license/1776/3>
- <https://3dclub.orbbec3d.com/t/regarding-to-body-tracking-license/2856>

[dshinsel, Jun '18](#)

Due to ambiguity of the license, I have moved my efforts to using the NuiTrack SDK. It seems to work at least as well as the Astra SDK. There is a license fee for NuiTrack, but it also works with other cameras, (I want to use Orbbec and Intel RealSense D435 cameras).

Unfortunately, this is not stated anywhere in the description for the Shinsel's Robots ROS package:

<https://3dclub.orbbec3d.com/t/ros-package-for-astra-sdk-body-tracking-available/1797>

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Astra Body Tracker – Installation & Setting:

```
# set variables for Orbbec Camera
```

```
export OPENNI2_INCLUDE=/home/ladak/Desktop/Linux/OpenNI-Linux-x64-2.3.0.66/Include
```

```
export OPENNI2_REDIST=/home/ladak/Desktop/Linux/OpenNI-Linux-x64-2.3.0.66/Redist
```

```
export ASTRA_SDK=/home/ladak/Desktop/AstraSDK-v2.1.3-Ubuntu-x86_64/AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64
```

```
export ASTRA_ROOT=/home/ladak/Desktop/AstraSDK-v2.1.3-Ubuntu-x86_64/AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64
```

```
export ASTRA_SDK_INCLUDE=/home/ladak/Desktop/AstraSDK-v2.1.3-Ubuntu-x86_64/AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64/include
```

```
export ASTRA_INCLUDE_DIR=/home/ladak/Desktop/AstraSDK-v2.1.3-Ubuntu-x86_64/AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64/include
```

```
export ASTRA_SDK_LIB=/home/ladak/Desktop/AstraSDK-v2.1.3-Ubuntu-x86_64/AstraSDK-v2.1.3-94bca0f52e-20210608T062039Z-Ubuntu18.04-x86_64/lib
```