

## 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/astra_body_tracker)

[https://github.com/shinselrobots/body\\_tracker\\_msgs](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

as

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

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### **3. Cannot build package 'astra\_body\_tracker'**

**catkin\_make:**

```
- body_tracker_msgs      OK
- ros_astra_camera      OK

- astra_body_tracker     ERROR
```

1. Solve errors one by one:

deprectated 'rebind':

- add\_compile\_options(-std=c++11)
- doesn't work.

2. Solution from [https://github.com/shinselrobots/astra\\_body\\_tracker/issues/4](https://github.com/shinselrobots/astra_body_tracker/issues/4):  
use older code:
- body\_tracker\_msgs; commit 104097b8a4
  - doesn't work.

**catkin build:**

- body_tracker_msgs	OK
- ros_astra_camera	OK
- astra_body_tracker	OK

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