## 32. View point cloud data

## 32.1. View depth point cloud

Terminal input,

```
roslaunch orbbec_camera orbbec_camera.launch
```

View topic data,

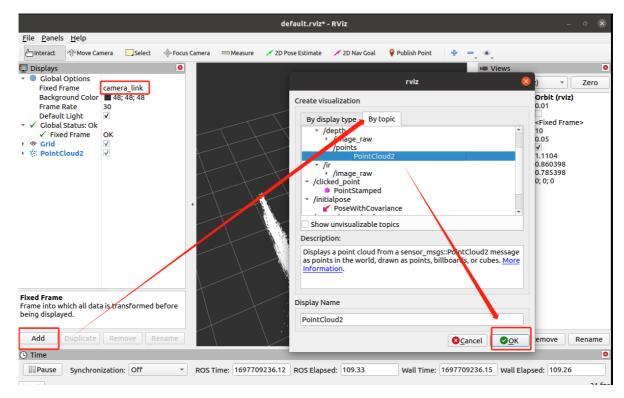
```
rostopic list
```

```
yahboom@yahboom-virtual-machine:~/Desktop$ rostopic list
/camera/color/camera_info
/camera/depth/camera_info
/camera/depth/image_raw
/camera/depth/points
/camera/ir/camera_info
/camera/ir/camera_info
/camera/ir/image_raw
/rosout
/rosout_agg
/tf
/tf_static
yahboom@yahboom-virtual-machine:~/Desktop$
```

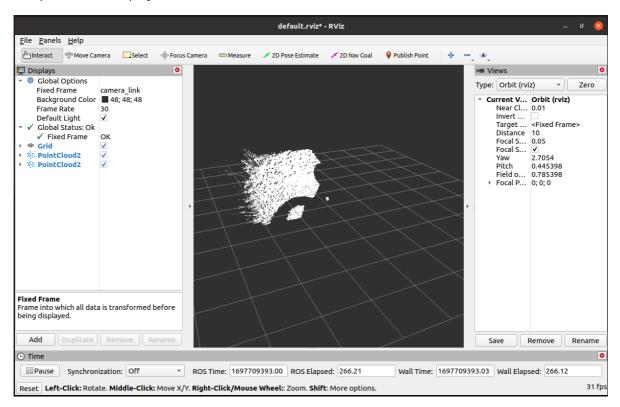
As shown in the picture above, the topic name of depth point cloud is: /camera/depth/points. Open rviz to view the point cloud.

```
rviz
```

After opening, set it as shown below, change Fixed Frame under Global Options to camera\_link, then click [Add], select [By topic], select /depth/points/PointCloud2, and click OK to complete the setting.



The point cloud displayed is as follows,



## 32.2. View color point cloud

Start camera

roslaunch orbbec\_camera orbbec\_camera.launch

View topics,

rostopic list

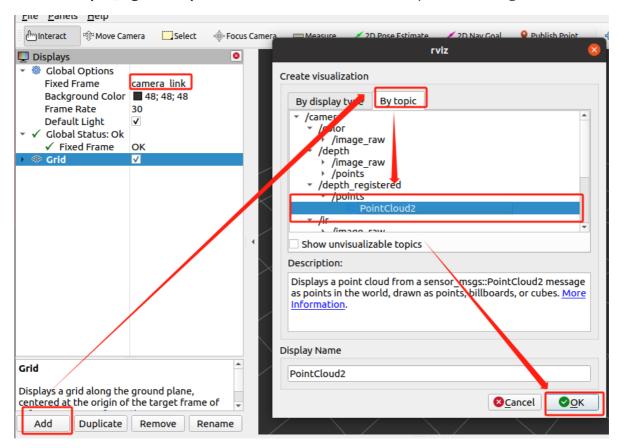
```
yahboom@yahboom-virtual-machine:~/Desktop$ rostopic list
/camera/color/camera_info
/camera/depth/camera_info
/camera/depth/image_raw
/camera/depth/points
/camera/depth_registered/points
/camera/depth_registered/points
/camera/ir/camera_info
/camera/ir/image_raw
/clicked_point
/initialpose
/move_base_simple/goal
/rosout
/rosout
/fosout_agg
/tf
```

The topic of color point cloud is /camera/depth\_registered/points, open rviz to view,

```
rviz
```

After opening rviz, do the same as above, change [Fixed Frame] under [Global Options] to camera\_link, then click [Add], select [By topic], here is

/camera/depth\_registered/points/PointCloud2, click OK to complete the setting.



The colored point cloud displayed is as follows,

