How to use Intel camera

Official website：https://www.intelrealsense.com/

Install：https://github.com/IntelRealSense/librealsense/blob/master/doc/installation.md

Wiki：http://wiki.ros.org/RealSense

realsense2_camera：http://wiki.ros.org/realsense2_camera

librealsense2：http://wiki.ros.org/librealsense2

librealsense：https://github.com/IntelRealSense/librealsense

realsense-ros：https://github.com/IntelRealSense/realsense-ros

1、SDK+ROS

Note: The version of librealsense is v2.48.0; the version of realsense_ros is 2.3.1.

Install dependent libraries

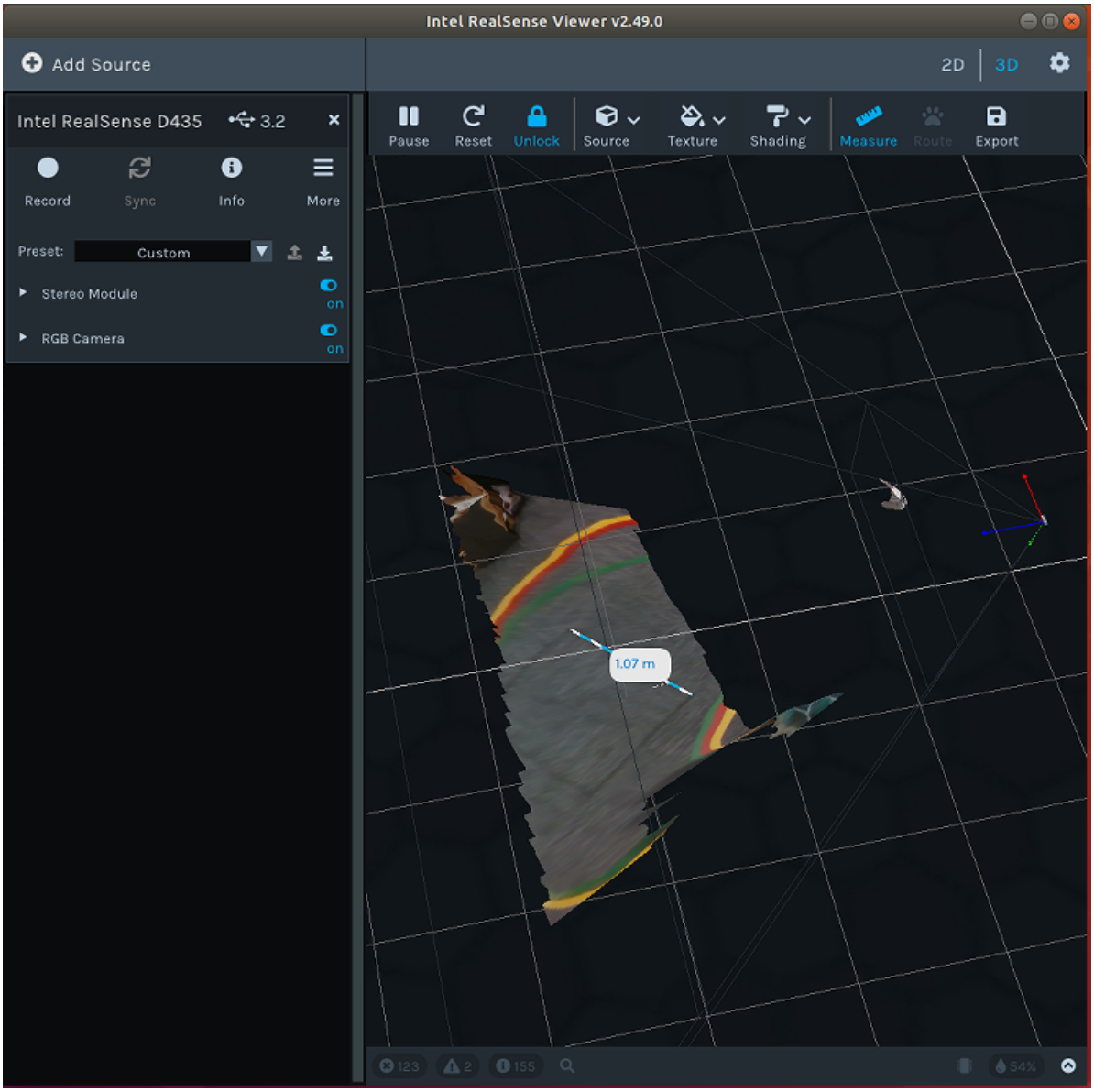
```
sudo apt install ros-melodic-ddynamic-reconfigure ros-melodic-realsense2-camera
ros-melodic-realsense2-description git libssl-dev libusb-1.0-0-dev pkg-config
libgtk-3-dev libglfw3-dev
```

Install Intel® RealSense™ SDK 2.0

```
mkdir -p librealsense
cd librealsense/
git clone -b v2.48.0 https://github.com/IntelRealSense/librealsense.git
cd librealsense
./scripts/setup_udev_rules.sh
mkdir build && cd build
cmake ..
make -j8
sudo make install
```

RealSense Viewer

```
realsense-viewer
```



The distance can be measured in 3D mode, as shown in the figure, which is very similar to the actual example.

Install Intel® RealSense™ ROS from source code

```
mkdir -p ~/realsense_ros/src
cd ~/realsense_ros/src/
git clone -b 2.3.1 https://github.com/IntelRealSense/realsense-ros.git
cd realsense-ros/realsense2_camera
git checkout `git tag | sort -V | grep -P "^\d+\.\d+\.\d+" | tail -1`
//编译
cd ~/realsense_ros
catkin_make
echo "source ~/realsense_w/devel/setup.bash" >> ~/.bashrc
source ~/.bashrc
```

Start up camera

```
roslaunch realsense2_camera rs_camera.launch
```

2、Web monitoring

Environment setup

```
sudo apt-get install ros-melodic-async-web-server-cpp ros-melodic-web-video-
server ros-melodic-usb-cam
```

Start up camera

```
roslaunch realsense2_camera rs_camera.launch
```

Start up web_video_server

```
rosrun web_video_server web_video_server
```

View video.

```
View on Local web browser
http://localhost:8080/
In the same local area network and viewed by other devices
http://192.168.2.103:8080/
(192.168.2.103 is the IP address of the main control board)
Note: It is recommended to use Google browser, other browsers may not be able to
open the image
```