Camera Testing

This file contains instructions to test the camera.

Required Hardware:

1. USB Camera
2. USB extension cable

Required Package:

1. usb_cam: This package contain the basic driver of the USB camera
2. If package is not installed run the following command to install the package

```
>>  sudo apt-get install ros-kinetic-usb-cam
```

Testing instruction:

Please follow the given instruction to test the USB camera:

1. Connect the camera to PC/laptop using the USB extension cable.
2. Find the video device for the camera by typing the following command:

```
>>  ls /dev/video*
```

Figure 1: video device for camera

3. Navigate to the usb_cam package launch file and open the file in your favorite editor to edit the file.

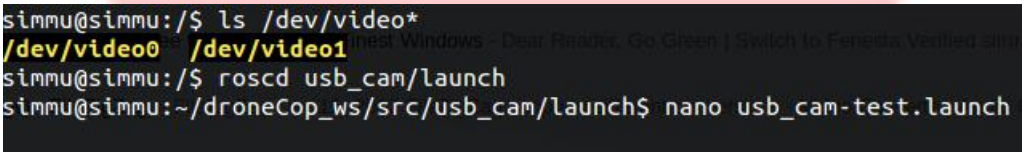

Figure 2: Opening the launch file in editor

4. Edit the launch file with the new video device you have received in step 2 (Figure 1).

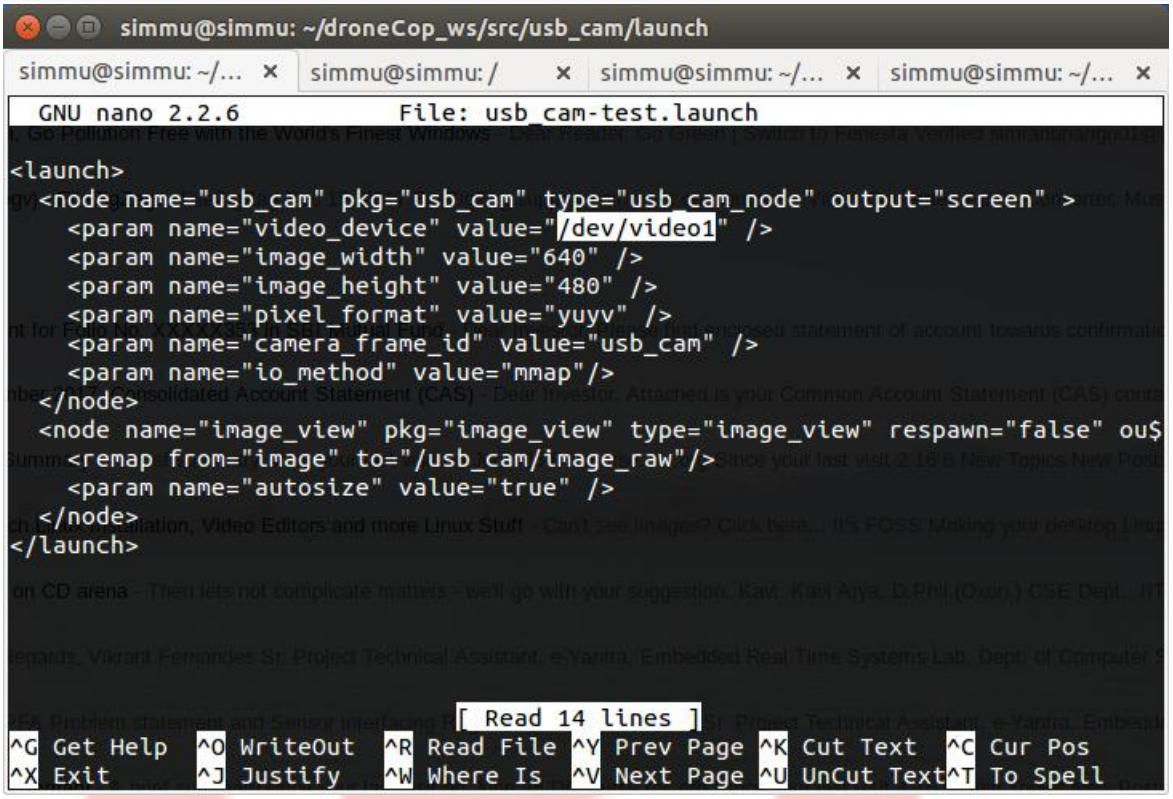

Figure 3: Editing the usb_cam-test.launch file

5. Source the ROS environment by executing the following command:

```
>> source /opt/ros/kinetic/setup.bash
```

6. Execute the launch file after editing and sourcing using the following command:

```
>> roslaunch usb_cam usb_cam-test.launch
```

The above command will launch a new window and show the output of the camera.

7. For more details about the package please visit the wiki page of usb_cam