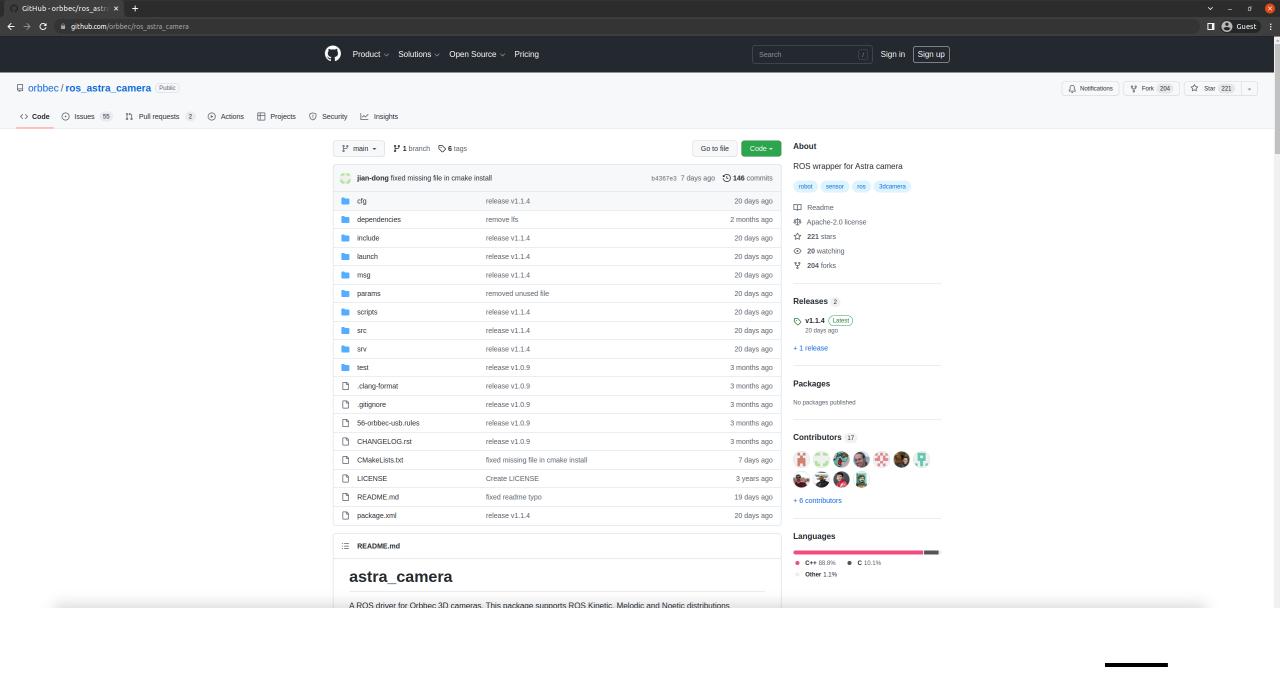


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깃허브 of `ros_astra_camera`

https://github.com/orbbec/ros_astra_camera



`ros_astra_camera`의 의존성 패키지 설치

Assuming you have sourced the ros environment, same below

sudo apt install libgflags-dev ros-\$ROS_DISTRO-image-geometry ros-\$ROS_DISTRO-camera-info-manager ros-\$ROS_DISTRO-image-transport ros-\$ROS_DISTRO-image-publisher libgoogle-glog-dev libusb-1.0-0-dev libeigen3-dev

ROS

Please refer directly to ROS wiki.

other dependencies

Install dependencies (be careful with your ROS distribution)

```
# Assuming you have sourced the ros environment, same below sudo apt install libgflags-dev ros-$ROS_DISTRO-image-geometry ros-$ROS_DISTRO-camera-info-manag ros-$ROS_DISTRO-image-transport ros-$ROS_DISTRO-image-publisher libgoogle-glog-dev libusb-1.0-0-
```

Install libuvc.

```
git clone https://github.com/libuvc/libuvc.git
cd libuvc
mkdir build && cd build
cmake .. && make -j4
```

`ros_astra_camera`의 rules file 등록

./scripts/create_udev_rules

\$ cd astra_camera/params

\$ vim camera_params_template.yaml

위 명령어를 통해 파라미터를 변경할 수 있음

enable_pointcloud_xyzrgb : false

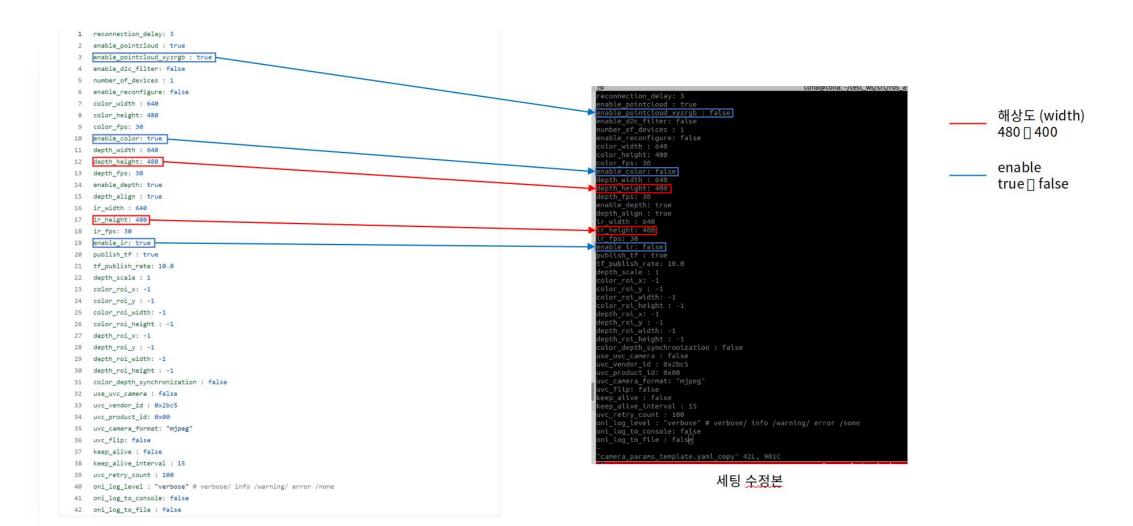
color_height: 400

depth_height: 400

ir_height: 400

enable_color: false

enable_ir: false



\$ cd ros_astra_camera

\$ cd launch

\$ vim stereo_s_u3.launch

위 명령어를 통해 파라미터를 변경할 수 있음

```
<launch>
 <!-- unique camera name-->
 <arg name="camera_name" default="camera" />
 <!-- Hardware depth registration -->
 <arg name="depth_registration" default="false" />
 <arg name="serial_number" default=""/>
 <group ns="$(arg camera_name)">
   <node name="camera" pkg="astra_camera" type="astra_camera_node" output="screen">
     <rosparam command="load" file="$(find astra_camera)/params/camera_params_template.yaml" />
     <param name="camera_name" value="$(arg camera_name)" />
     <param name="serial number" value="S(arg serial number)" />
     <param name="use_uvc_camera" value="false" />
     <param name="uvc_product_id" value="0x0511" />
     <remap from="/$(arg camera_name)/depth/color/points" to="/$(arg camera_name)/depth_registered/points"/>
   </node>
  </group>
  launch>
```

세팅 수정본

카메라 관련 토픽(Topic)

/camera/depth/camera_info
/camera/depth/image_raw
/camera/depth/points
/camera/extrinsic/depth_to_color
/camera/reset_device



`ros_astra_camera` 에러 처리

- ROS_MASTER_URI=http://192.168.2.2:11311/
- process[camera/camera-1]: started with pid [3100]

/home/cona/CoNA_Navi_d2l/install/lib/astra_camera/astra_camera_node: error while loading shared libraries: libglog.so.0: cannot open shared object file: No such file or directory

[error image 01]

og file: /home/cona/.ros/log/5786d79c-4ea7-11ed-b4d6-a342100c1b82/camera-cam ra-1*.log

all processes on machine have died, roslaunch will exit shutting down processing monitor...

... shutting down processing monitor complete

- [error_image_01]의 에러가 발생하는 경우,

- INDEX 2번의 dependency 파일 설치로 해결 가능

\$ sudo apt install libgoogle-glog-dev