- Ubuntu 16.04.4 기준, System Update/Upgrde 금지
- sudo apt-get update
- 1. ROS & Realsense 설치, bash 설치기준

(<a href="http://www.kirobotics.com/w/index.php?title=Gogo:Proj\_DevelopementOfCoreTec">http://www.kirobotics.com/w/index.php?title=Gogo:Proj\_DevelopementOfCoreTec</a> hnology\_Software\_Install\_Manual)

realsense 동작확인

\$ roslaunch ~/catkin\_ws/install/share/realsense2\_camera/launch/rs\_rgbd.launch

\$ rosrun rqt\_image\_view rqt\_image\_view

/camera/color/image\_raw 선택 후 카메라 연결 확인

2. Software package and ROS wrappers of the Aruco Augmented Reality marker detector library.

(https://github.com/pal-robotics/aruco\_ros)

```
$ sudo apt-get install ros-kinetic-aruco-ros
```

아래 KI\_aruco\_ros.launch 로 저장

<launch>

```
<arg name="markerId" default="6"/>
```

<arg name="markerSize" default="0.04"/> <!-- in meter -->

<arg name="eye" default="left"/>

<arg name="marker\_frame" default="marker\_frame"/>

<arg name="ref\_frame" default=""/> <!-- leave empty and the pose will be published wrt param parent\_name -->

<arg name="corner\_refinement" default="LINES" /> <!-- NONE, HARRIS, LINES, SUBPIX -->

```
<node pkg="aruco_ros" type="single" name="aruco_single">
<remap from="/camera_info" to="/camera/color/camera_info" />
<remap from="/image" to="/camera/color/image_raw" />
<param name="io_method" value="mmap"/>
<param name="image_is_rectified" value="True"/>
<param name="marker_size" value="$(arg markerSize)"/>
<param name="marker_id" value="$(arg markerId)"/>
<param name="reference_frame" value="$(arg ref_frame)"/> <!-- frame in which the marker pose will be refered -->
<param name="camera_frame" value="base_link"/>
<param name="marker_frame" value="$(arg marker_frame)" />
<param name="marker_frame" value="$(arg corner_refinement)" />
</param name="corner_refinement" value="$(arg corner_refinement)" />
```

3. roslaunch Kl\_aruco\_ros.launch

rqt\_image\_view 에서 /aruco\_ros/result 선택 및 마커 인식 확인

