

oCamS-1CGN-U

ROS & oCamS ROS Package

Installation Guide

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1. Linux Installation

 Refer the following guide to install the Ubuntu 16.04 LTS version. https://tutorials.ubuntu.com/tutorial/tutorial-install-ubuntu-desktop? ga=2.268754162.2070293869.1505711601-305972367.1479833539

NOTE: This guide is for installing the Linux on a disk with a single partition. If the Windows OS needs to be installed seperately, the disk should be partitioned before. Many guides are available and can be found by using a keyword, "Windows Ubuntu Dual Booting".

2. ROS Installation

Refer the following guide to install the ROS Kinetic version.
 <u>http://wiki.ros.org/ROS/Tutorials/InstallingandConfiguringROSEnvironment</u>

3. oCamS ROS Package Installation

• Get the required libraries and install them by using the following command.

```
$ sudo apt-get install libv4l-dev libudev-dev ros-kinetic-rtabmap*Get
the source tree from the Github and install them.
$ cd YOUR_WORKING_DIRECTORY (ex. $ cd ~/catkin_ws/src/)
$ svn export
https://github.com/withrobot/oCamS/trunk/Software/oCamS_ROS_Package/o
cams_lcgn
```

• Build.

```
$ cd YOUR_CATKIN_WORKSPACE (ex. $ cd ~/catkin_ws/)
```

- \$ catkin make
- \$ source devel/setup.bash
- Set the virtual COM port to receive the IMU data.

\$ sudo vi /etc/udev/rules.d/99-ttyacms.rules
ATTRS{idVendor}=="04b4" ATTRS{idProduct}=="00f9", MODE="0666",
ENV{ID_MM_DEVICE_IGNORE}="1"
ATTRS{idVendor}=="04b4" ATTRS{idProduct}=="00f8", MODE="0666",
ENV{ID_MM_DEVICE_IGNORE}="1"
\$ sudo udevadm control -reload-rules

- Change the file access privilege.
 - \$ cd YOUR_CATKIN_WORKSPACE/src/ocams_lcgn/cfg
 - t = 1 \$ chmod +x ./*

4. Execution

• Use the following command to execute.

\$ roslaunch ocams_1cgn ocams_ros.launch