

# Installing Kinect XBOX360 on Ubuntu 12.04 64 bit and ROS Hydro

---

## A. Check your device

Connect your kinect device and type in the terminal (I use the sign “\$” to distinguish between the note and what that is happening in the terminal):

```
$ lsusb
```

You should find some thing like this between the results:

```
$ Bus 003 Device 007: ID 045e:02ad Microsoft Corp. Xbox NUI Audio
```

```
$ Bus 003 Device 004: ID 045e:02b0 Microsoft Corp. Xbox NUI Motor
```

```
$ Bus 003 Device 008: ID 045e:02ae Microsoft Corp. Xbox NUI Camera
```

It seems working.

---

## B. Download necessary files

Now unplug your kinect and download this package [OpenNI NITE Installer-Linux64-0.27](#) [126 MB], it contains four folders:

1. NITE-Bin-Dev-Linux-x64-v1.5.2.21      which NITE is a middleware to enable skeleton tracking
2. OpenNI-Bin-Dev-Linux-x64-v1.5.4.0      which OpenNI is SDK provided by manufacturer of Kinect
3. Sensor-Bin-Linux-x64-v5.1.2.1      which Sensor is a binaries that allow to use Kinect as a hardware
4. kinect

We need three files to install kinect. Use files number 1, 2 and 3 (or instead of file number 3 download the sensor package from [\[link\]](#)). Create a folder named ‘kinect’ in your home folder. Rename those three folders to ‘nite’, ‘openni’ and ‘sensorkin’ and put them in the ‘kinect’ folder.

---

## C. Installation

Install all needed libraries and openJDK using following commands:

```
$ sudo apt-get install libusb-1.0-0-dev freeglut3-dev g++
```

```
$ sudo apt-get install openjdk-7-jdk openjdk-7-jre
```

Now you should install three packages previously put in the ‘kinect’ folder using following commands. Install openni:

```
$ cd ~/kinect/openni/
```

```
$ chmod a+x install.sh
```

```
$ sudo ./install.sh
```

Install sensorkin:

```
$ cd ~/kinect/sensorkin/Platform/Linux/CreateRedist/
```

```
$ chmod a+x RedistMaker
```

```
$ sudo ./RedistMaker
```

```
$ cd ../Redist/Sensor-Bin-Linux-x64-v5.1.2.1
```

```
$ sudo chmod a+x install.sh
```

```
$ sudo ./install.sh
```

Install nite:

```
$ cd ~/kinect/nite/
```

```
$ chmod a+x install.sh
```

```
$ sudo ./install.sh
```

It is almost Done!

I used these links [\[link\]](#) [\[link\]](#) [\[link\]](#) as references. More details are available there.

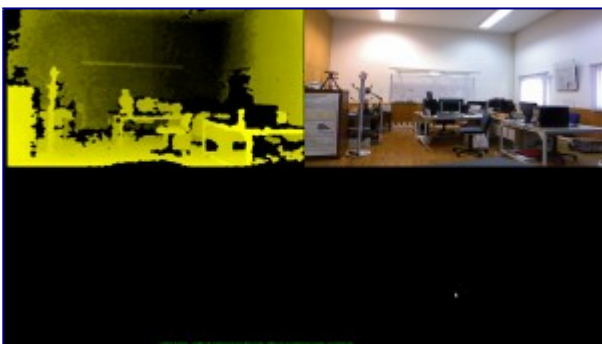
---

#### **D. Test**

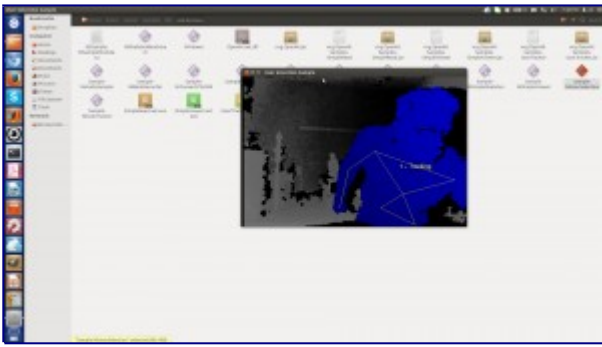
Go to the following address and run it.

/home/usr/kinect/opencv/Samples/Bin/x64-Release/NiViewer

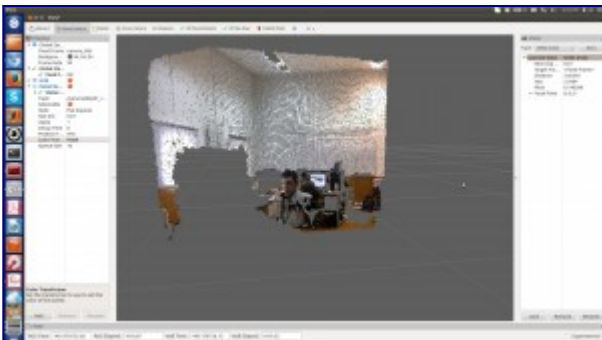
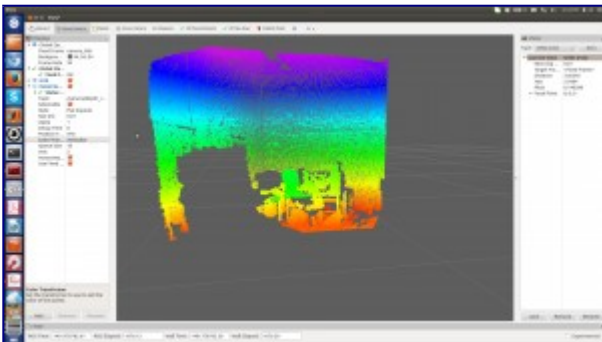
you should be able to see RGB and Depth images.



or 'Sample-NiUserSelection' to see skeleton



or 'Sample-PointViewer' at '/home/user/kinect/nite/Samples/Bin/x64-Release/Sample-PointViewer'  
Now you can go to this [\[link\]](#) [\[link\]](#) to discover kinect in ROS and see depthmap, point clouds, etc.  
You should be able to see some thing like this.



Also It is good to take a look at [\[link\]](#) and [\[link\]](#).  
[Mapping](#) on .