

Installation Instructions

The Linux driver installations involves series of setup steps, which are outlined here with terminal commands.

Disclaimer: Some basic Linux programming skills are needed to install and use the TDD software.

All Linux commands suggested here for the installation procedure is one way to accomplish the task. There are other commands to perform the same actions in Linux.

Step 1: Download the .tar file and extract the folders. Once extracted there must be 2 main folders namely "Bin and Lib"

Step 2: Copy the executables for Touch Setup and Touch diagnostics from the bin folder to /usr/bin and copy LibPhantomIOLib42.so to /usr/lib

Step 3: In case the user does not have QT, please install QT using the command

Install qt: This command is only for Debian based systems

sudo apt-get install qt5-default

Step 4: Create 3DS directory to configure and save the configuration files needed to setup the Touch and Touch X devices

sudo mkdir /usr/share/3DSystems

Step 5: Set environment variable GTDD_HOME to map path of the configuration file directory created above. Add the following environment variable to the /etc/environment to make it permanent.

GTDD_HOME=/usr/share/3DSystems

echo \$GTDD_HOME

Logout and login again for the environmental variables to take effect use the command:

gnome-session-quit

Step 6: Create folder called "config" inside /usr/share/3DSystems.

```
sudo mkdir /usr/share/3DSystems/config
```

Step 7: Connect the Haptic Device (Touch or Touch X). Use the “ListUSBHapticDevices” script to find out which port the haptic device has been assigned.

```
>bash ListUSBHapticDevices
```

Set permission for each com port using the command

```
sudo chmod 777 /dev/ttyACM0 (ACM1, ACM2,ACM3 etc..)
```

Disclaimer: Every time user disconnects and re connects the USB device or the system to which the device is connected goes into hibernation or sleep mode, the user needs to set read/write/execute (Chmod 777) permissions to the COM port.

For LAN devices follow process below

Connect LAN device -> go to USB Ethernet connected in the homepage

-> Wired settings -> USB Ethernet -> Click on settings button

-> IPv4 -> select "Link-local only" -> Click Apply

Step 8: Once the Ports have appropriate permission or the LAN devices are linked locally, users can now successfully run the Touch Setup and Touch Diagnostic applications.


Note:


1. You might need to run Touch Diagnostic as superuser if Touch Setup works fine but Touch Diagnostic gives a communication error.


```
sudo Touch_Diagnostic
```

2. For Touch Setup and Touch Diagnostic operation, please refer to the Quick start guide or the Device user manual.

Touch Setup

 **Hardware**

 **Reset Angle**

 **About**

Device Name:

Device Model:

Interface:

Device Serial Num:

Device List:

Firmware Version:

Click on Apply then OK.