

How to - Ubuntu 12.04 Touchscreen calibration

Submitted by The Fan Club on 27 August 2011

This guide is based on the [Ubuntu Wiki - Multitouch](#) documentation and various community forum posts.

This guide is intended as a relatively easy step by step mostly graphical (GUI) guide to:

- Calibrate a touchscreen panel or monitor on Ubuntu 11.04 or later.

Requirements:

- Ubuntu 11.04 or later installed machine.
- Touchscreen panel or monitor. In this case a LG Flatron T1710 Monitor.



1. Install **uTouch** - Ubuntu Multitouch framework.

uTouch is installed by default in Ubuntu 11.04, if not installed on your system add it from the Software Center or with the following

- command.
- Open the Terminal Window and enter :

```
sudo apt-get install utouch
```

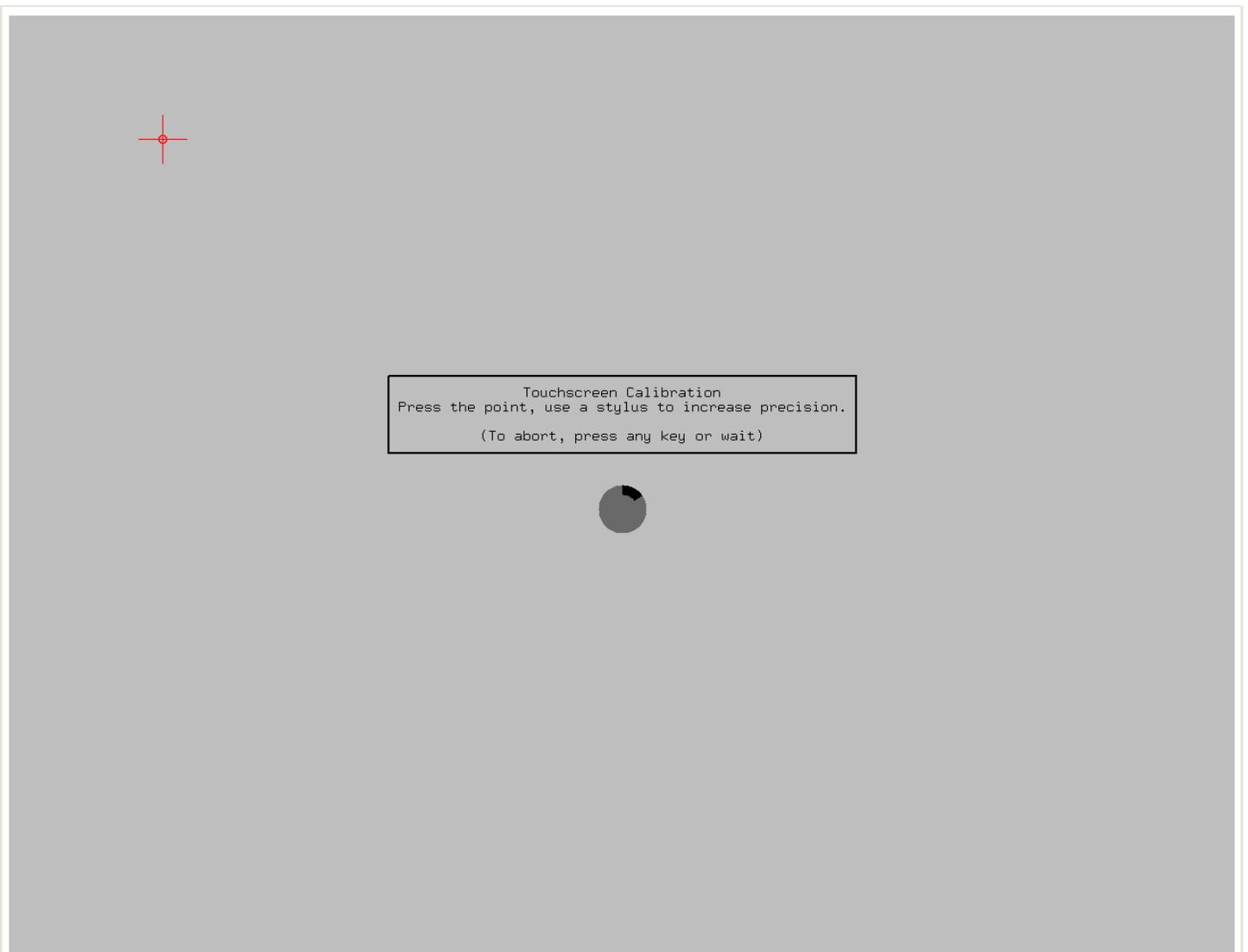
2. Install **xinput calibrator**.

- xinput calibrator is a easy GUI Touchscreen Calibration program for X.Org. Install it from the Ubuntu Software Center or using the command below.
- Open the Terminal Window and enter :

```
sudo apt-get install xinput-calibrator
```

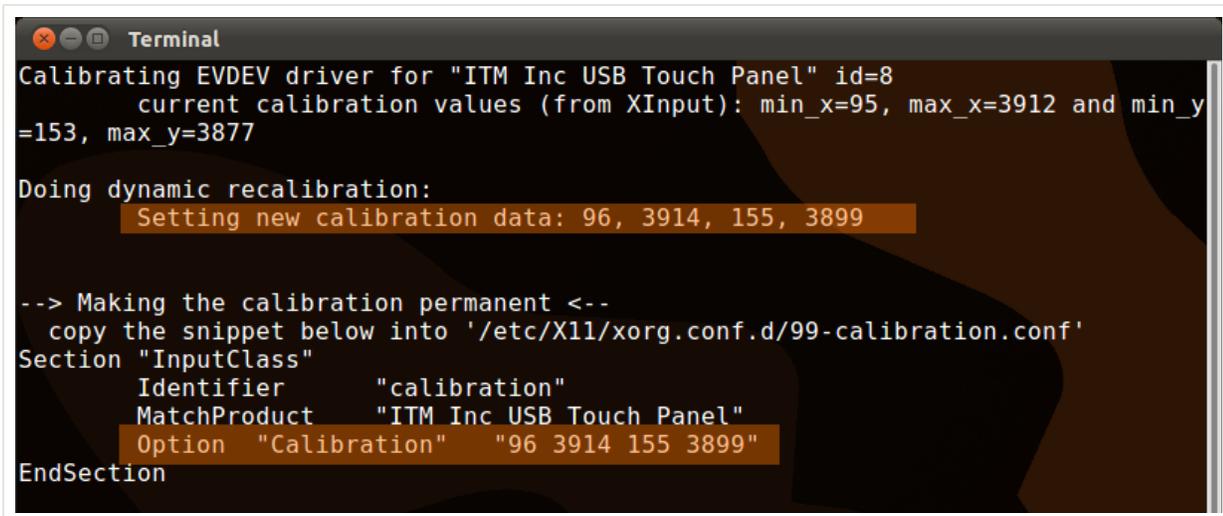
3. Use xinput calibrator to determine the x and y co-ordinates of your touchscreen.

- Now we use xinput calibrator to measure the **xMin**, **xMax**, **yMin** and **yMax** values of the touchscreen.
- Launch xinput calibrator (Called **Calibrate Touchscreen** in the ubuntu program menus)
- Use a stylus to tap the four registration point indicated in red on screen by the program.



4. Note the results from xinput calibrator.

- Make a note of the calibration data supplied by xinput calibrator, but ignore the instruction supplied regarding making the calibration permanent.



```
Terminal
Calibrating EVDEV driver for "ITM Inc USB Touch Panel" id=8
current calibration values (from XInput): min_x=95, max_x=3912 and min_y
=153, max_y=3877

Doing dynamic recalibration:
Setting new calibration data: 96, 3914, 155, 3899

--> Making the calibration permanent <--
copy the snippet below into '/etc/X11/xorg.conf.d/99-calibration.conf'
Section "InputClass"
    Identifier      "calibration"
    MatchProduct   "ITM Inc USB Touch Panel"
    Option "Calibration" "96 3914 155 3899"
EndSection
```

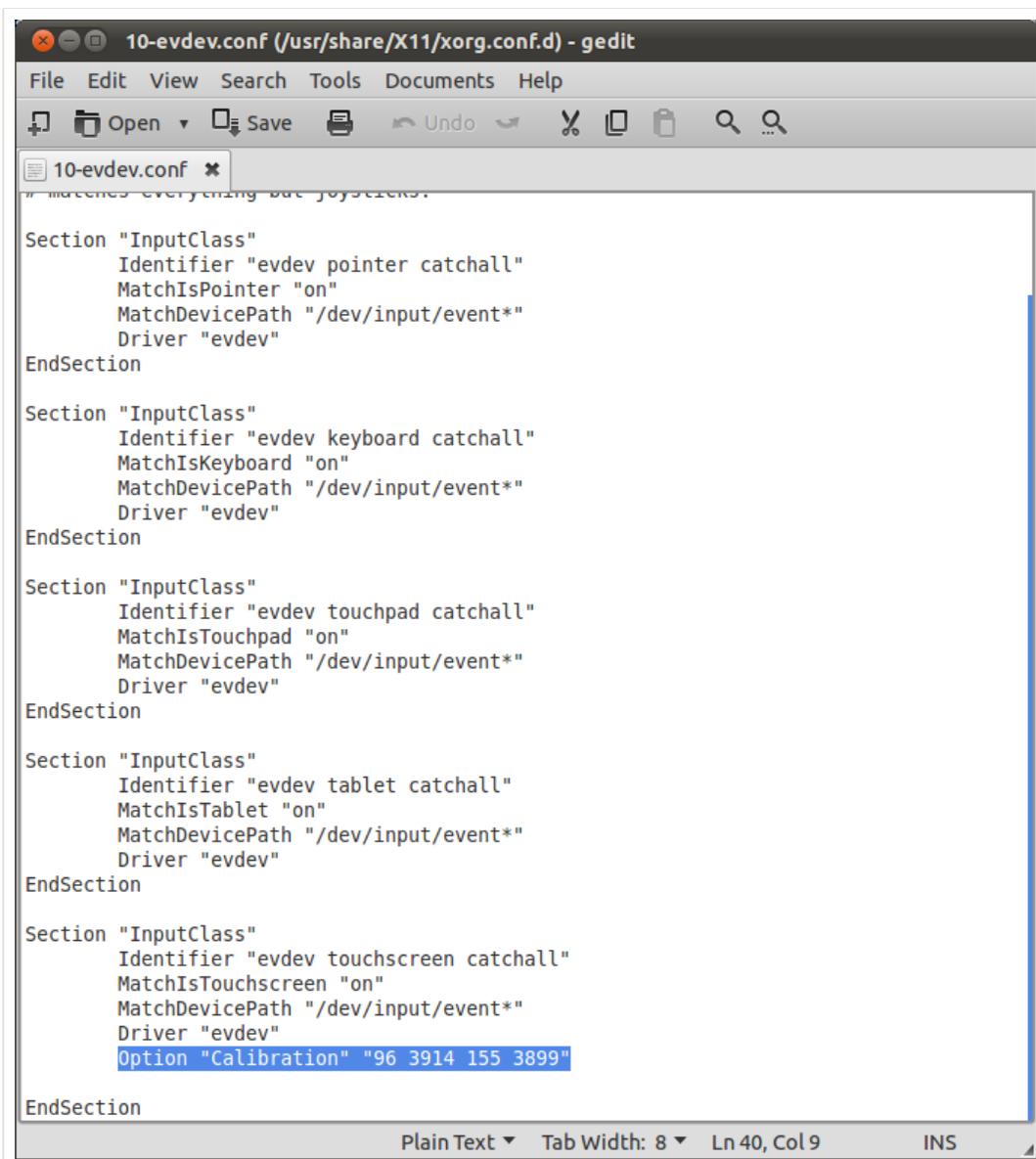
5. Update X11 evdev configuration.

- Once you have determined the x and y co-ordinate information, you need to add it to the X11 configuration files, for the **evdev** driver, the default installed driver used for handling Touchscreen input events.
- The X11 configuration for the Touchscreen can be found in the `/usr/share/X11/xorg.conf.d/10-evdev.conf` file.
- Edit the file, find the Touchscreen InputClass and add: **Option "Calibration" "xMin xMax yMin yMax"**
- Replace the **xMin**, **xMax**, **yMin** and **yMax** values with your values obtained in step 4.
- Open the Terminal Window and enter :

```
sudo gedit /usr/share/X11/xorg.conf.d/10-evdev.conf
```

- Then add calibration option settings obtained in Step 5 to the touchscreen InputClass section:

```
Option "Calibration" "96 3914 155 3899"
```



```
10-evdev.conf (/usr/share/X11/xorg.conf.d) - gedit
File Edit View Search Tools Documents Help
Open Save Undo Cut Paste Find
10-evdev.conf x
... matches everything but joysticks.

Section "InputClass"
    Identifier "evdev pointer catchall"
    MatchIsPointer "on"
    MatchDevicePath "/dev/input/event*"
    Driver "evdev"
EndSection

Section "InputClass"
    Identifier "evdev keyboard catchall"
    MatchIsKeyboard "on"
    MatchDevicePath "/dev/input/event*"
    Driver "evdev"
EndSection

Section "InputClass"
    Identifier "evdev touchpad catchall"
    MatchIsTouchpad "on"
    MatchDevicePath "/dev/input/event*"
    Driver "evdev"
EndSection

Section "InputClass"
    Identifier "evdev tablet catchall"
    MatchIsTablet "on"
    MatchDevicePath "/dev/input/event*"
    Driver "evdev"
EndSection

Section "InputClass"
    Identifier "evdev touchscreen catchall"
    MatchIsTouchscreen "on"
    MatchDevicePath "/dev/input/event*"
    Driver "evdev"
    Option "Calibration" "96 3914 155 3899"
EndSection

Plain Text Tab Width: 8 Ln 40, Col 9 INS
```

6. Logout to Restart X11.

- Finally to enable your calibration settings log out and back in again to restart X11.

Tags

[Ubuntu](#), [Ubuntu 11.04](#), [Touchscreen](#), [uTouch](#), [Ubuntu 12.04](#), [Ubuntu 11.10](#)