Touch Screen Calibration Tutorial

How to calibrate a touch screen on Raspberry Pi?

1. Download Raspbian image and burn your TF card with win32_imager or other tools.
2. Login your Raspberry Pi and connect your Pi to Internet.
3. Execute the following command to update your system:

   ```
   sudo apt-get update
   ```

4. Install the packages to calibrate your touch screen

   ```
   sudo apt-get -y install xinput libx11-dev libxext-dev x11proto-input-dev evtest dh-autoreconf
   libts-bin
   ```

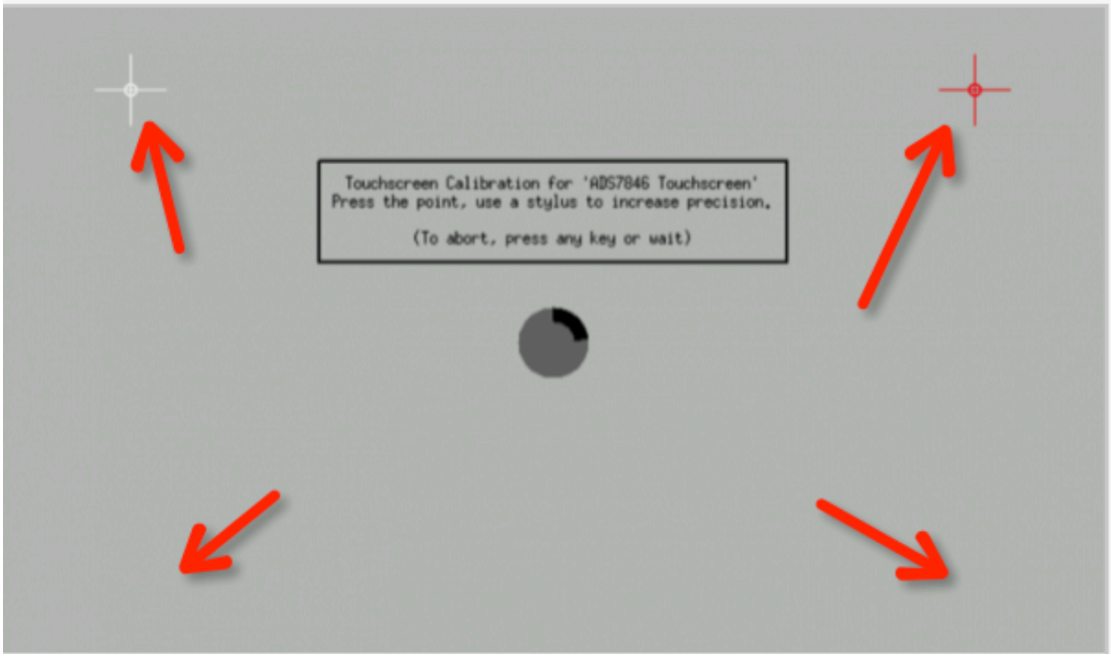
5. Download calibration tools from github by executing this command：

   ```
   cd ~
   git clone https://github.com/tias/xinput_calibrator
   cd ~/xinput_calibrator
   sudo ./autogen.sh
   sudo make
   sudo make install
   ```

6. Calibrating your touch screen:

   ```
   DISPLAY=:0.0 xinput_calibrator
   ```

7. Press the cross on the screen in 4 corners and save configuration.



8. Save the touch screen configuration to /etc/X11/xorg.conf.d/99-calibration.conf file:

```
DISPLAY=:0.0 xinput_calibrator
        Setting calibration data: 0, 2047, 0, 2047
Calibrating EVDEV driver for "eGalax Inc. USB TouchController" id=6
        current calibration values (from XInput): min_x=0, max_x=2047 and min_y=0, max_y=2047
INFO: width=1280, height=800

Doing dynamic recalibration:
        Setting calibration data: 1953, 60, 1816, 129
        --> Making the calibration permanent <--
  copy the snippet below into '/etc/X11/xorg.conf.d/99-calibration.conf' (/usr/share/X11/xorg.conf.d/ in some distro's)
Section "InputClass"
        Identifier      "calibration"
        MatchProduct    "eGalax Inc. USB TouchController"
        Option  "Calibration"   "1953 60 1816 129"
        Option  "SwapAxes"      "0"
EndSection
```

9. Create a new folder and save the parameters in the red box of the above picture to the file in /etc/X11/xorg.conf.d/99-calibration.conf

```
sudo    mkdir    -pv    /etc/X11/xorg.conf.d/
sudo    vim.tiny    /etc/X11/xorg.conf.d/99-calibration.conf
Section "InputClass"
        Identifier      "calibration"
        MatchProduct    "eGalax Inc. USB TouchController"
        Option  "Calibration"   "1953 60 1816 129"
        Option  "SwapAxex"      "0"
EndSection
```

PS: Fill in the value of Option Calibration according to your own calibrating result.

10. Reboot your Raspberry Pi and have fun with it.

For Technology Support:

http://wiki.52pi.com