How to Calibrate the Touch Screen

1、Install Xinput

```
cd /boot
cd LCD-show
sudo dpkg -i -B xinput-calibrator_0.7.5-1_armhf.deb
```

```
pi@raspberrypi:~ $ cd /boot
pi@raspberrypi:/boot $ cd LCD-show
pi@raspberrypi:/boot/LCD-show $ sudo dpkg -i -B xinput-calibrator_0.7.5-1_armhf.
deb
Selecting previously unselected package xinput-calibrator.
(Reading database ... 120289 files and directories currently installed.)
Preparing to unpack xinput-calibrator_0.7.5-1_armhf.deb ...
Unpacking xinput-calibrator (0.7.5-1) ...
Setting up xinput-calibrator (0.7.5-1) ...
Processing triggers for gnome-menus (3.13.3-6) ...
Processing triggers for desktop-file-utils (0.22-1) ...
Processing triggers for mime-support (3.58) ...
Processing triggers for man-db (2.7.0.2-5) ...
```

2、Execute touch calibration commands:

```
DISPLAY=:0.0 xinput_calibrator
```

Then the screen will pop up to touch the calibration interface, you should click one by one with the touch pen on the four calibration points to complete the calibration.

After the calibration is completed, the new touch parameters will be displayed, as pictured

```
pi@raspberrypi:/boot/LCD-show $ DISPLAY=:0.0 xinput_calibrator
Calibrating EVDEV driver for "ADS7846 Touchscreen" id=6
        current calibration values (from XInput): min_x=535, max_x=3860 and min_y=254, max_y=3883

Doing dynamic recalibration:
        Setting new calibration data: 517, 3849, 257, 3859


--> Making the calibration permanent <--
  copy the snippet below into '/etc/X11/xorg.conf.d/99-calibration.conf'
Section "InputClass"
        Identifier      "calibration"
        MatchProduct    "ADS7846 Touchscreen"
        Option  "Calibration"   "517 3849 257 3859"
EndSection
```

3、Modify and Save the calibration of Touch parameter

```
sudo nano /etc/X11/xorg.conf.d/99-calibration.conf
```

As pictured: