

How to calibrate the touch screen

1、 Install Xinput

You need to install the LCD driver first before this Step,
follow the document <How to install the LCD driver (En).pdf>

```
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 the command of the touch calibration:

```
DISPLAY=:0.0 xinput_calibrator
```

The screen will pop up touch calibration display, and now use the touch pen click successively four calibration points to complete the calibration.

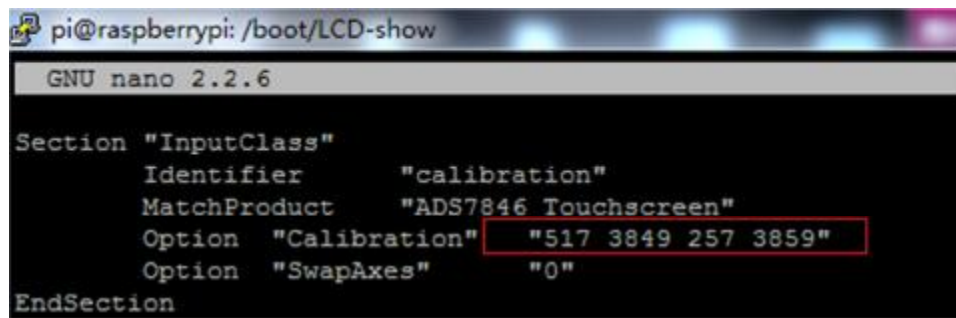
New touch parameters would be shown after the calibration, as follows:

```
pi@raspberrypi:~ $ 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=3853
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 the touch parameters after calibration and save

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

As following:



```
pi@raspberrypi: /boot/LCD-show
GNU nano 2.2.6

Section "InputClass"
    Identifier      "calibration"
    MatchProduct    "ADS7846 Touchscreen"
    Option "Calibration" "517 3849 257 3859"
    Option "SwapAxes"  "0"
EndSection
```

Note: Only the resistive touch screen needs to be calibrated, 7" and 10.1" capacitive touch screen do not need to do calibration as this page.