3.5 inch Resistive Touch Screen LCD



Specification:

Size: 3.5 inch

Resolution: 480*320

Display Port : SPI

Display Panel: TFT

Touch Screen Type: Resistive

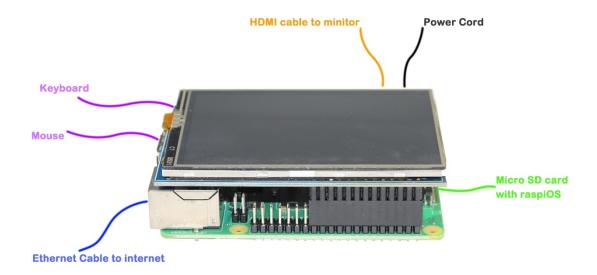
Touch Screen Controller: XPT2046

Application: all versions of Raspberry Pi, Ubuntu, Kali Linux

How to Use

Hardware Connection

- 1. Install 3.5 inch LCD into Raspberry Pi main board through the **JPIO** connector (**J8**).
- 2. Insert the micro SD card with raspiOS into the card slot.
- 3. Connect Raspberry Pi main board to the internet by ethernet cable.
- 4. Connect keyboad and mouse to the main board through USB port.
- 5. Connect the main board to a HDMI monitor through micro HDMI cable by port HDMI0.
- 6. Connect 5V3A power cord to Raspberry Pi type C power port.



Drive Installing

- 1. Power on raspberry Pi and boot into the RaspOS
- 2. Open the terminal Console
- 3. Download and install the driver using the commands below.

```
git clone https://github.com/goodtft/LCD-show.git chmod -R 755 LCD-show cd LCD-show sudo ./LCD35-show
```

Rotate display direction

Using the commands below to rotate 90 degrees, ('90 ' can be changed to 0, 90, 180 and 270, respectively representing rotation angles of 0 degrees, 90 degrees, 180 degrees, 270 degrees)

```
cd LCD-show/
sudo ./rotate.sh 90
```

Calibration

If you need to calibrate the LCD, follow the steps below:

1. Copy and install calibrator tool, commands are as below:

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

2. Install X service, commands are as below

sudo apt-get install xserver-xorg-input-evdev

sudo cp -rf /usr/share/X11/xorg.conf.d/10-evdev.conf /usr/share/X11/xorg.conf.d/45-evdev.conf

sudo reboot

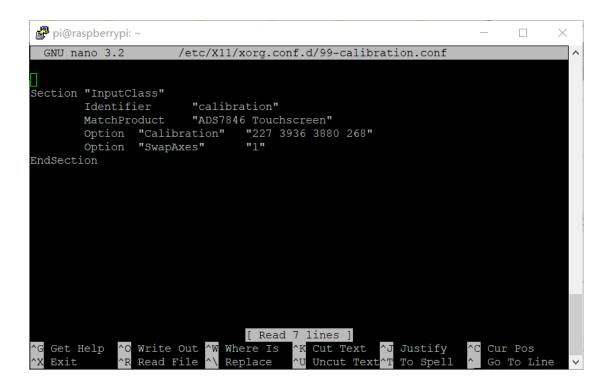
3. Running calibrator and finish calibration

DISPLAY=:0.0 xinput_calibrator

Or select Menu -> Preferences -> Calibrate Touchscreen.

After running these commands, there will be a prompt for four-point calibration shown in the LCD screen. Click the points one by one to finish the touch calibration. Then, the new calibration data will be displayed in the terminal, as shows below. Please get these data for future use.

4. Save modification



Press the keys Ctrl+X, and select the option Y to save the modification.

The modification will be valid after rebooting the system. Enter the following command for system reboot:

5. sudo reboot

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