3.5 Inch 480x320 TFT Display with Touch Screen for Raspberry Pi

From Elecrow

Contents

Description

It is the cutest, little display for the Raspberry Pi. It features a 3.5" display with 480x320 16-bit color pixels and a resistive touch overlay. It's designed to fit nicely not only to the Pi Model A or B but also works perfectly fine with the Model B+.

Model:RPA03510R (http://www.elecrow.com/35-inch-480x320-tft-display-with-touch-screen-for-raspberry-pi-p-1385.html)

Features

- 480x320 resolution
- Universal 3.5” Display for the Raspberry Pi
- Compatible with Raspberry Pi A, B, A+, B+, and Pi2 versions
- Powered not only from your computer, but also from your portable power
- Adapt for Raspbian system

Specifications

- LCD Type:TFT

- LCD Interface:SPI
- Touch Screen Type:Resistive
- Touch Screen Controller:XPT2046
- Colors:65536
- Backlight:LED
- Resolution:480*320 (Pixel)

Interface Function

PIN NO.	SYMBOL	DESCRIPTION
1, 17	3.3V	Power positive (3.3V power input)
2, 4	5V	Power positive (5V power input)
3, 5, 7, 8, 10, 11, 12, 13, 15, 16, 18, 24	NC	NC
6, 9, 14, 20, 25	GND	Ground
19	TP_SI	SPI data input of Touch Panel
21	TP_SO	SPI data output of Touch Panel
22	TP_IRQ	Touch Panel interrupt, low level while the Touch Panel detects touching
23	TP_SCK	SPI clock of Touch Panel
26	TP_CS	Touch Panel chip selection, low active

Usage

When users connect the Raspberry Pi to use, they need to configure the official system. Or you can also burn the configured system image directly.
Tips: Basic for Raspbian Jessie with **PIXEL** (2017-04-10-raspbian-jessie.img)

Step 1： Download the Raspbian IMG

https://www.raspberrypi.org/downloads/raspbian/

Step 2: Burn the system image

If you don't know how to do that,you can refer to the Raspberry Pi office tutorial (https://www.raspberrypi.org/documentation/installation/installing-images/README.md)

Step 3: Open terminal and Download the driver on RPI

Run:

```
git clone https://github.com/Elecrow-keen/Elecrow-LCD35.git
```

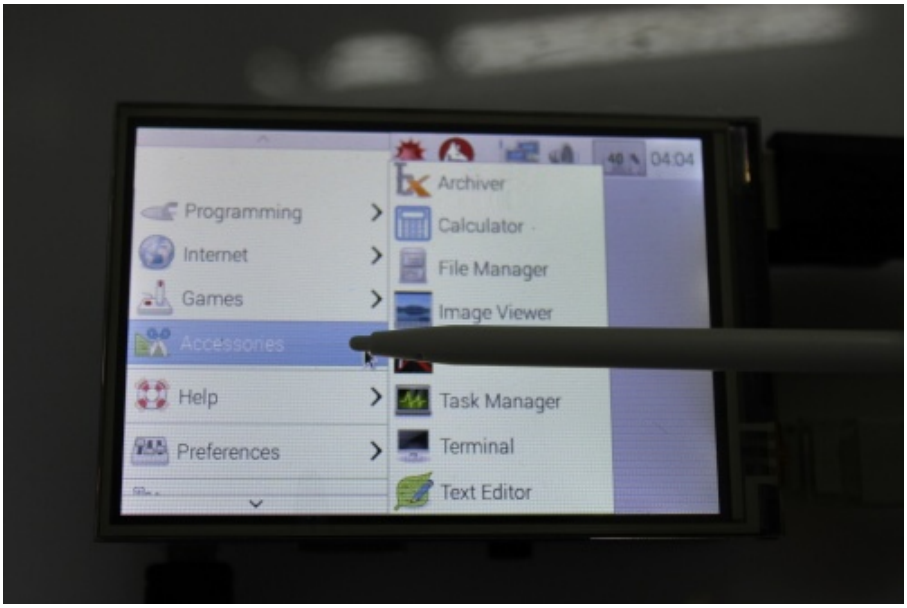
Step 4: Install driver

Run:

```
cd Elecrow-LCD35

sudo ./Elecrow-LCD35
```

Wait A Few Minutes, when the system reboot ok, you can see that.



Touch screen calibration

- This LCD can be calibrated using a program called xinput_calibrator
- Install it with the commands:

```
cd Elecrow-LCD35

sudo dpkg -i -B xinput-calibrator_0.7.5-1_armhf.deb
```

- Click the **Men** button on the task bar, choose **Preference** -> **Calibrate Touchscreen**.
- Finish the touch calibration following the prompts. Maybe rebooting is required to make calibration active.
- You can create a 99-calibration.conf file to save the touch parameters (not necessary if file exists).

```
/ect/X11/xorg.conf.d/99-calibration.conf
```

- Save the touch parameters (may differ depending on LCD) to 99-calibration.conf, as shown in the picture:

```
Section "InputClass"
        Identifier      "calibration"
        MatchProduct    "ADS7846 Touchscreen"
        Option  "Calibration"   "208 3905 288 3910"
        Option  "SwapAxes"      "0"
EndSection
```

Install Soft Keyboard

- Install the reference link： https://github.com/Elecrow-keen/Elecrow-LCD5/wiki/How-to-Install-Soft-Keyboard

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