

Features

- 320×480 resolution
- Resistive touch control
- Supports any revision of Raspberry Pi (directly-pluggable)
- Compatible with Raspberry Pi A, B, A+, B+, 2B, 3B, 3B+, 4B versions
- Drivers provided (works with your own Raspbian/Ubuntu directly)
- Size perfectly fits the Pi
- High quality immersion gold surface plating
- Supports Raspbian system, ubuntu system ,kali Linux system

Key Parameters

SKU	MPI3501
LCD Type	TFT
LCD Interface	SPI (Fmax:32MHz)
Touch Screen Type	Resistive
Touch Screen Controller	XPT2046
Colors	65536
Driver IC	ILI9486
Backlight	LED
Resolution	320*480 (Pixel)
Backlight Current	120ma
Power Dissipation	0.13A*5V
Operating Temp. (°C)	-20~60
Active Area	48.96x73.44 (mm)
Product Size	85.42*55.60 (mm)
Package Size	118*72*34 (mm)
Rough Weight (Package containing)	75 (g)

Interface

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, 12, 13, 15, 16	NC	NC
6, 9, 14, 20, 25	GND	Ground
11	TP_IRQ	Touch Panel interrupt, low level while the Touch Panel detects touching
18	LCD_RS	Instruction/Data Register selection
19	LCD_SI / TP_SI	SPI data input of LCD/Touch Panel
21	TP_SO	SPI data output of Touch Panel
22	RST	Reset
23	LCD_SCK / TP_SCK	SPI clock of LCD/Touch Panel
24	LCD_CS	LCD chip selection, low active
26	TP_CS	Touch Panel chip selection, low active

Driver Installation

This LCD Module need install driver first.

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](#)

Step 3: Open terminal (SSH) and install the driver on RaspberryPi

(tested on RaspberryPi 3B+, 3B, 2B, 2B+, 1B, ZERO)

Run:

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

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 LCD-show/

sudo dpkg -i -E 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:

How to rotate the display direction

This method only applies to the **Raspberry Pi** series of display screens, other display screens do not apply.

- **Method 1:** If the driver is not installed, execute the following command (Raspberry Pi needs to be connected to the Internet):

```
sudo rm -rf LCD-show
git clone https://github.com/goodtft/LCD-show.git
chmod -R 755 LCD-show
cd LCD-show/
sudo ./XXX-show 90
```

After execution, the driver will be installed. The system will automatically restart, and the display screen will rotate 90 degrees to display and touch normally.

(' **XXX-show** ' can be changed to the corresponding driver, and ' **90** ' can be changed to 0, 90, 180 and 270, respectively representing rotation angles of 0 degrees, 90 degrees, 180 degrees, 270 degrees)

- **Method 2:** If the driver is already installed, execute the following command:

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

After execution, the system will automatically restart, and the display screen will rotate 90 degrees to display and touch normally.

(' **90** ' can be changed to 0, 90, 180 and 270, respectively representing rotation angles of 0 degrees, 90 degrees, 180 degrees, 270 degrees)

If the **rotate.sh** prompt cannot be found, use **Method 1** to install the latest drivers