

Elecrow Limited

**Elecrow RR035 3.5 Inch 480x320 TFT Display
with Touch Screen for Raspberry Pi**

Product Data Sheet

Part Number:RPA03510R

Customer:_____

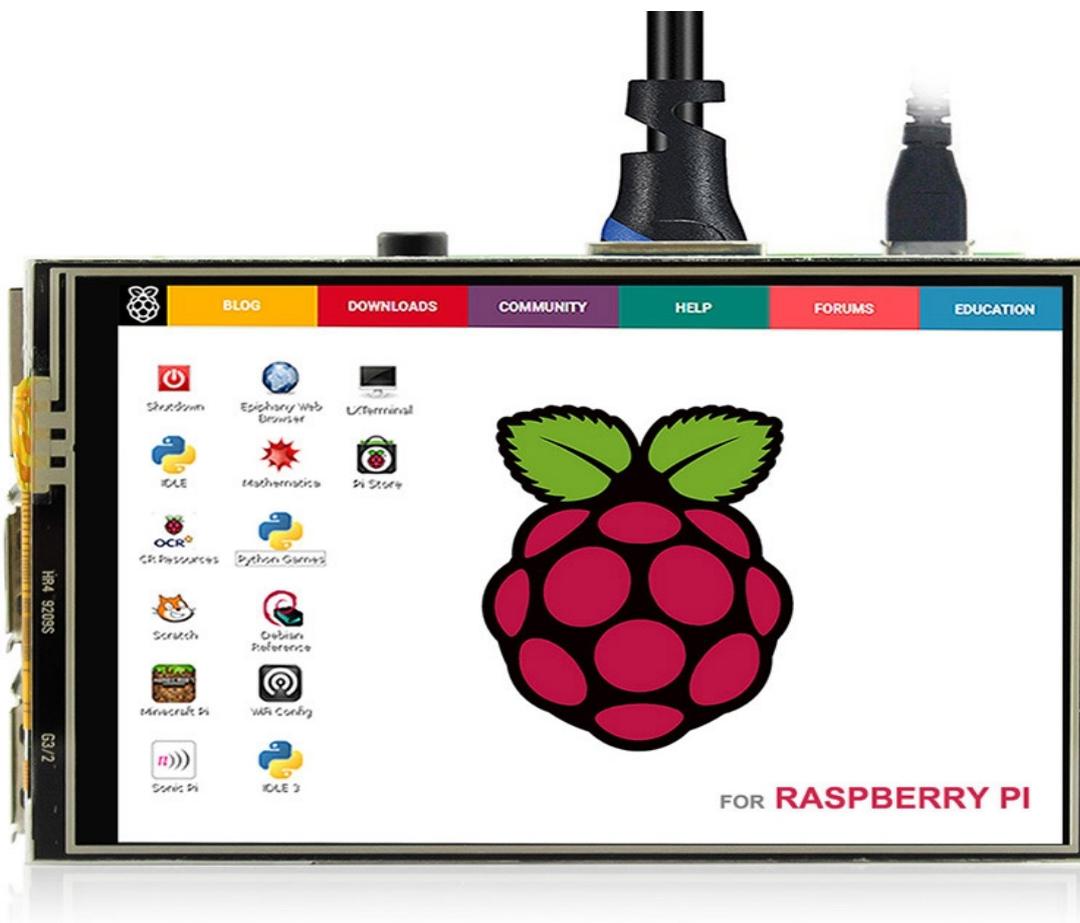
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1. Description

It is the cutest 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+/2B/3B/4B/5.



2. Features

- 480x320 resolution.
- Universal 3.5 " Display for the Raspberry Pi.
- Compatible with Raspberry Pi A,B,A+,B+,and Pi2/3/4/5 versions .
- Powered not only from your computer but also from your portable power.
- Adapt for Raspbian system.

3.Specifications

Model:RR035

Size:3.5inch

LCD Type: TFT

LCD Interface: SPI

Touch Screen Type: Resistive

Touch Screen Controller: XPT2046

Colors: 65536

Backlight: LED

USB cable for 5V/1A power

Resolution: 480*320(Pixel)

Backlight Lifespan : 100000h

Working temperature () :-20~70

Module PCB Size:85.0*55.0*6.3(mm)

4.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, 12, 13, 15, 16, 18, 24	NC	NC
11	Backlight Control	Control the backlight through pin 11
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

5.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)

Step1: Download the Raspbian IMG <https://www.raspberrypi.org/downloads/raspbian/>

Step2: Burn the system image. If you don't know how to do that, you can refer to the Raspberry Pi official tutorial?

Step3: Open terminal and download the driver on RPI.

Run:

```
sudo git clone https://github.com/goodtft/LCD-show.git
```

Step 4: Install driver

Run:

```
cd LCD-show/  
sudo chmod +x LCD35-  
show sudo ./LCD35-  
show
```

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>

