User Manual

for

3.5inch TFT LCD Module for Raspberry Pi



Feature:

- 320×480 resolution
- Resistive touch control
- Supports any revision of Raspberry Pi (directly-pluggable)
- Drivers provided (works with your own Raspbian/Ubuntu directly)
- Size perfectly fits the Pi
- High quality immersion gold surface plating
- Supports Raspbian system, enables your system to:
- Take photos by touching (up to 17 camera modes)
- Support software keyboard (system interaction without keyboard/mouse)

Parameters:

Parameters Name	Value
LCD Type	TFT
LCD Interface	SPI
Touch Screen Type	Resistive
Backlight	LED
Resolution	320*480 (Pixel)
Aspect Ratio	8:5

Pinout

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

How to begin

Hardware need:

- Raspberry Pi 1/2/3 main board*1
- Micro SD card more than 8GB(Image file about 7.5GB)*1
- Micro SD card Reader*1
- Micro USB Cable*1
- USB Keyboard*1
- 3.5inch LCD module includes touch pen*1

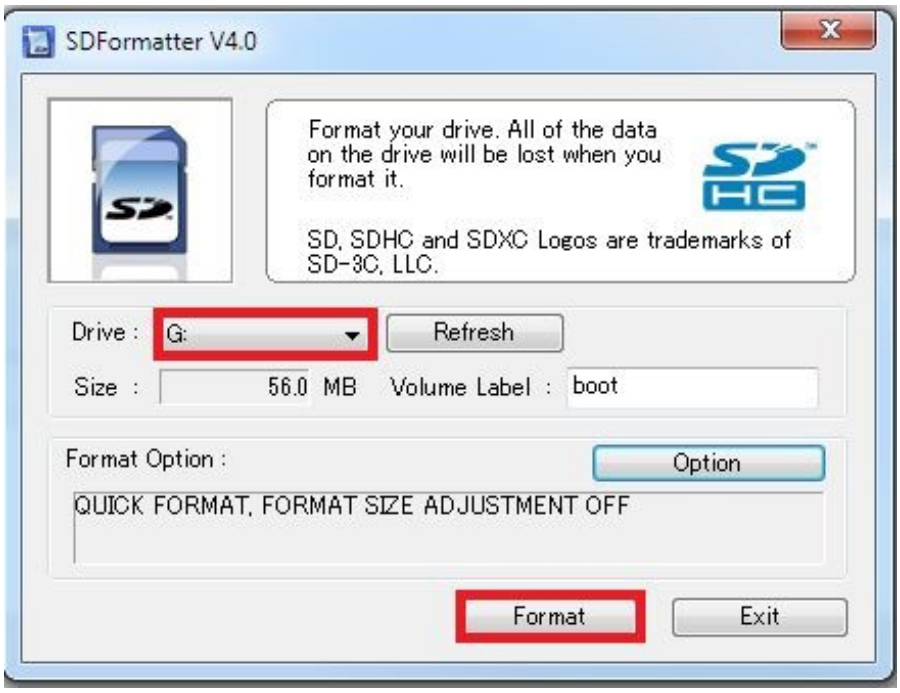
Software need:

- SD Formatter
- Win32DiskImager
- Raspberry Pi OS IMAGE
- LCD Driver(which is not needed in our supplied OS)



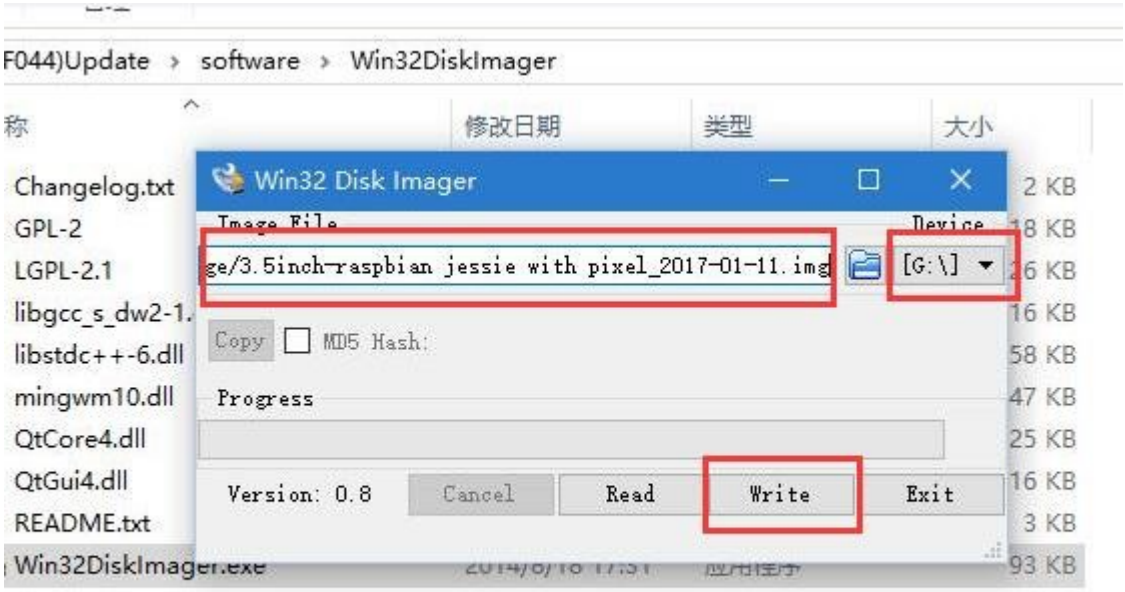
Step1: Format SD Card

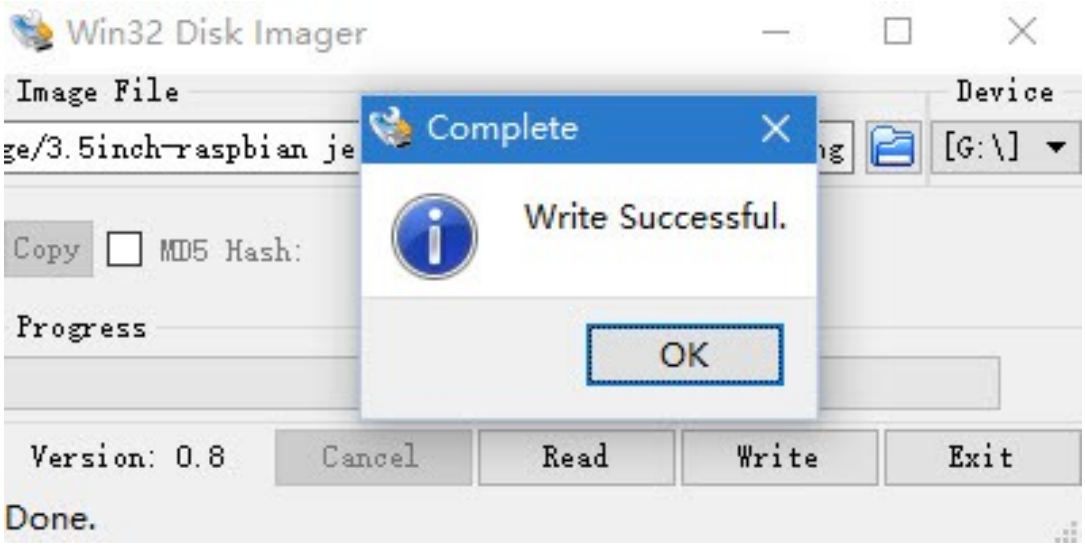
Open the software SD Formatter, select correct SD card disk, then click "Format"



Step2: Burn the Raspberry Pi OS image into the SD card.

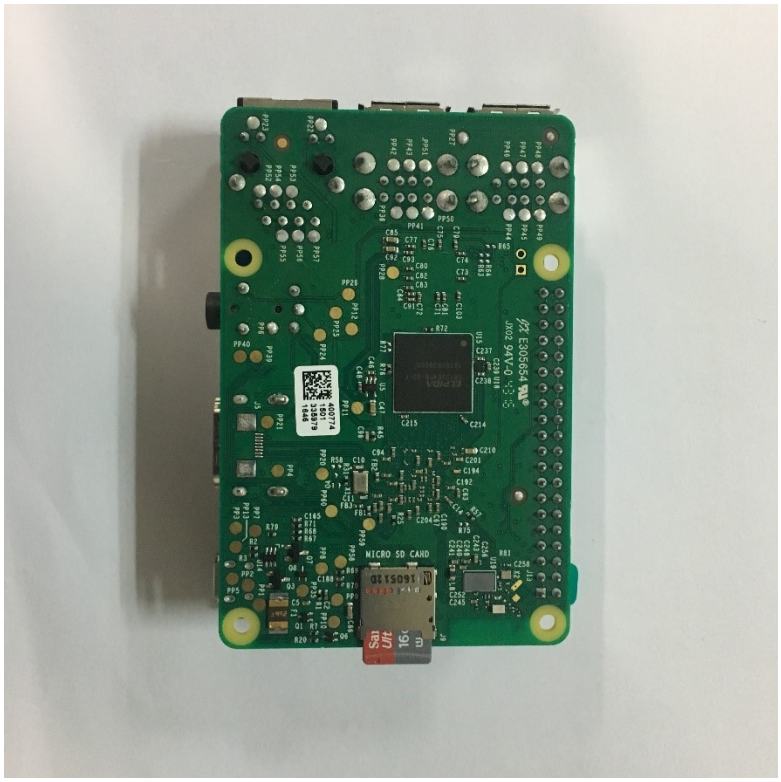
Open the software Win32diskimager, select the Image file and SD card device, then click write until the burn done. This process may take few minutes.



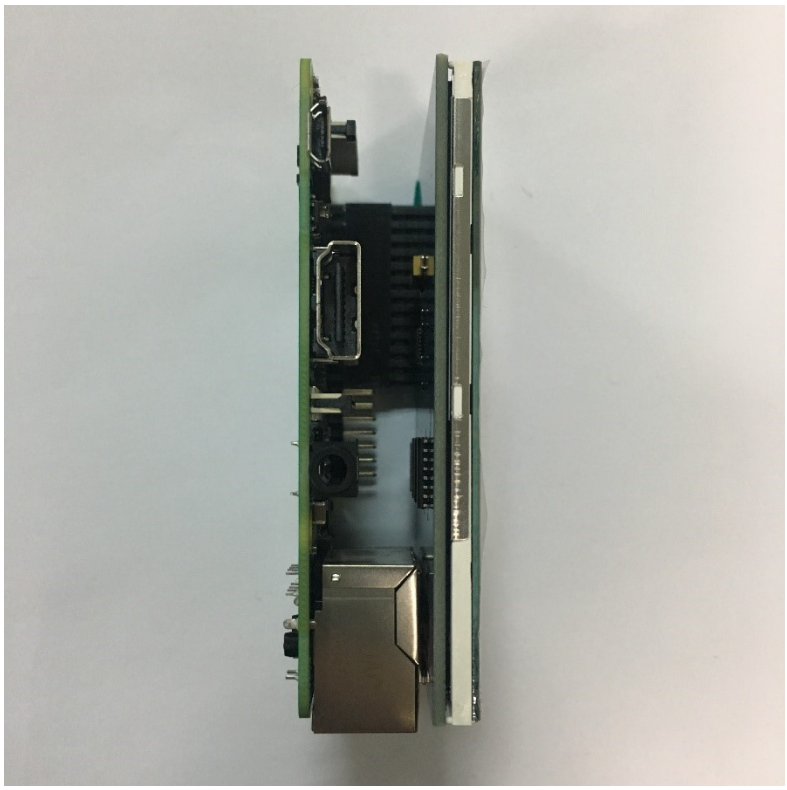


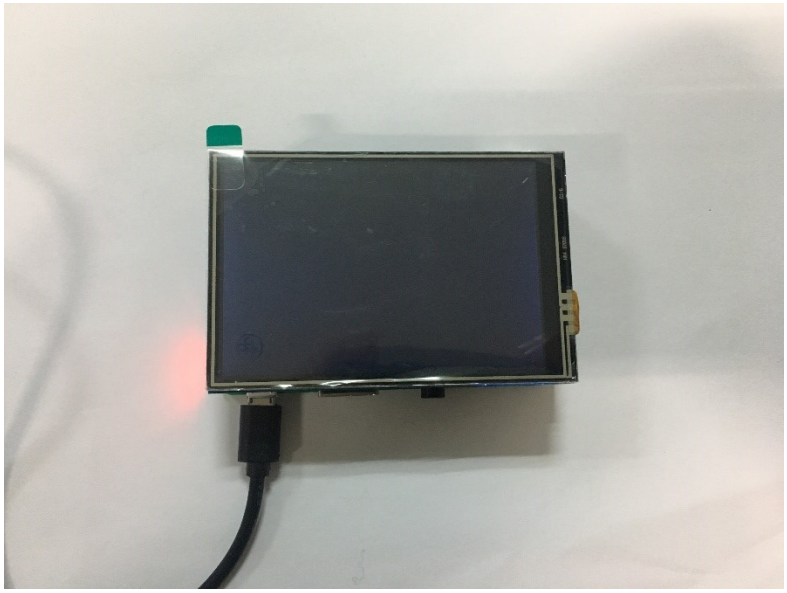
Step3: Hardware connection and Start the raspberry Pi

Plug the Micro SD card and TFT LCD module, then power on the Raspberry Pi mainboard. Wait for few minutes, then the mini computer turns on.

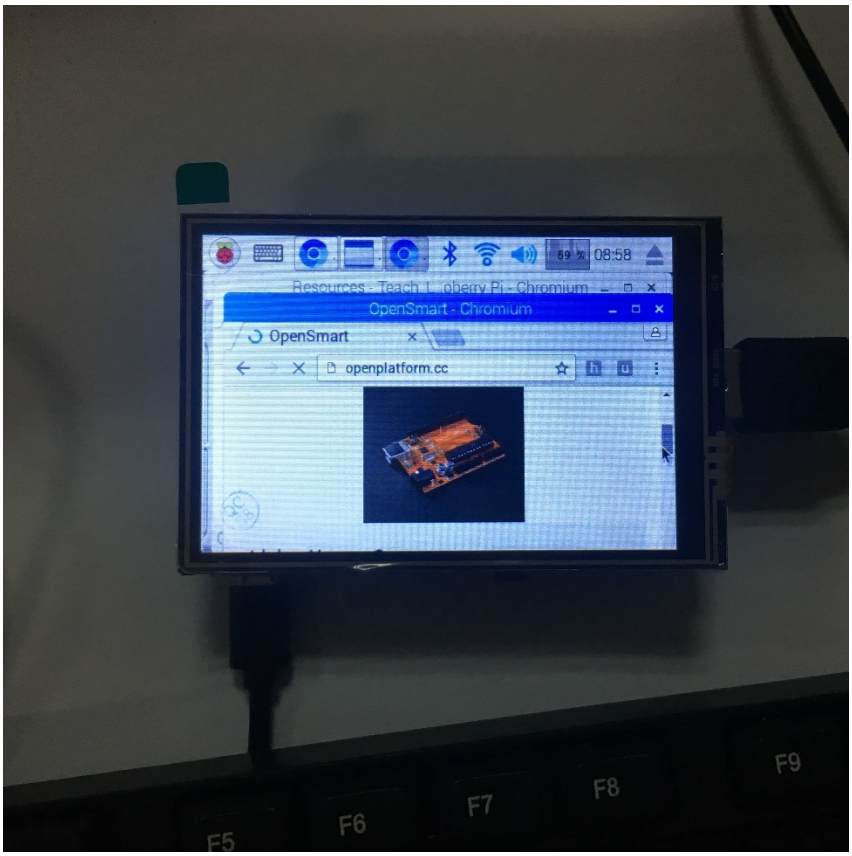

MICRO SD CARD








[OK] Started Restore Sound Card State.
[OK] Started dhcpcd on all interfaces.
[OK] Started LSB: Autogenerate and use a swap file.
[OK] Started LSB: triggerhappy hotkey daemon.
[OK] Reached target Network.
Starting OpenBSD Secure Shell server...
[OK] Started OpenBSD Secure Shell server.
Starting /etc/rc.local Compatibility...
[OK] Reached target Network is Online.
Starting LSB: Start NTP daemon...
Starting Permit User Sessions...
[OK] Started Login Service.
[OK] Started Permit User Sessions.
[OK] Started /etc/rc.local Compatibility.
Starting Light Display Manager...
Starting Hold until boot process finishes up...
Starting Terminate Plymouth Boot Screen...
[OK] Started System Logging Service.
[OK] Started LSB: Start NTP daemon.
F6
F7
F8
F9
F10
F11


08:58
OpenSmart - Chromium
OpenSmart
openplatform.cc
F5
F6
F7
F8
F9

**********End**********