

Install The Display

- Insert TF card into Raspberry Pi.
- Connect the audio adapter board to the Raspberry Pi.
- Insert the 40P header of the Raspberry Pi into the back of the display, and the header of the audio board is aligned with the Audio socket of the display.
- Install 4 screws to fix the Raspberry pi.
- Power on the Raspberry Pi.

XH2.54 Socket Description

XH2.54 can input 5V power supply or output 5V power supply to external devices such as cooling fans.

Audio Description

The audio adapter board is used to output analog audio to the display to make the speakers sound.

PWM Backlight Description

(wiringPi PIN24 --> PIN35 GPIO.24 BCM 19)

gpio -g mode 19 pwm

gpio pwm-ms

gpio pwmr 100

gpio pwmc 9

gpio -g pwm 19 50

Landscape Display

Refer to github.com/eleclab-rpi/5INCH_DPI_DISPLAY/5inch_DPI_854x480_horizontal.txt for landscape display and landscape touch.

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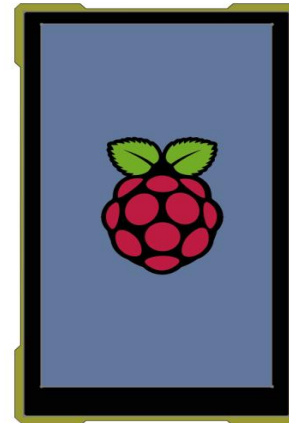
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5" DPI IPS Touchscreen Display USER GUIDE

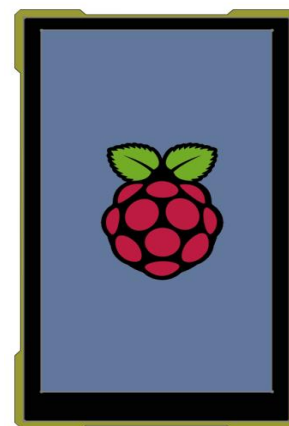


Users need to prepare a Raspberry Pi , a TF card above 8G, a power supply above 4A@5V, and a Buster or Bullseye system image.

Any suggestions please contact ElecLab_US@163.com.

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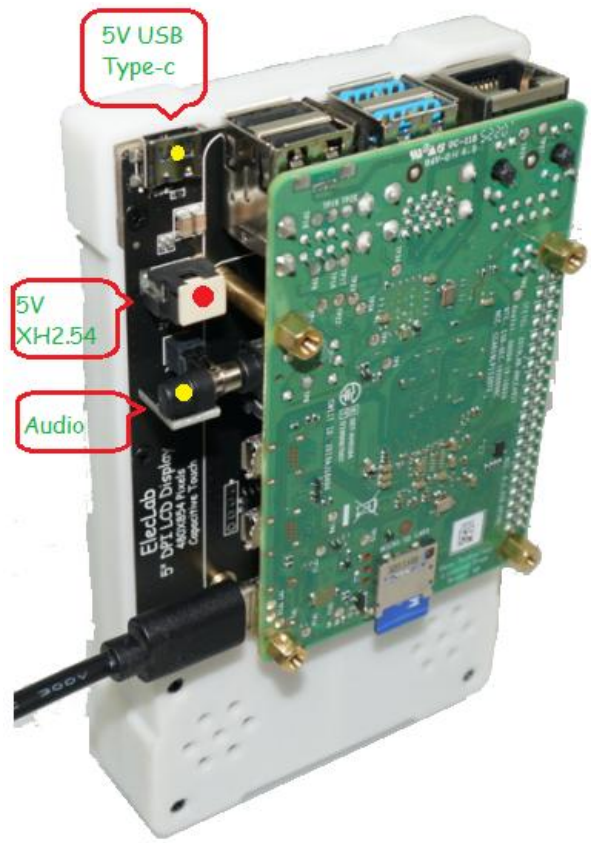
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Prepare TF card

- Burn the buster/bullseye image to the TF card.
- Comment out dtoverlay=vc4-fkms-v3d in /boot/config.txt.
- github.com/eleclab-rpi/5INCH_DPI_DISPLAY/eleclab-dpi5inch.dtbo put it in the /boot/overlays/ directory.
- Add the following parameters to /boot/config.txt or use github.com/eleclab-rpi/5INCH_DPI_DISPLAY/config.txt :

```
gpio=0-9=a2
gpio=12-17=a2
gpio=20-25=a2
dtoverlay=dpi24
enable_dpi_lcd=1
display_default_lcd=1
extra_transpose_buffer=2
dpi_group=2
dpi_mode=87
dpi_output_format=0x78216
dpi_timings=480 0 60 2 55 854 0 16 2 22 0 0 0 60 0 32000000 6
    #for no rotate or for display_rotate=2
#dpi_timings=480 0 60 2 55 856 0 16 2 22 0 0 0 60 0 32000000 6
    #for display_rotate=1,3
dtoverlay=eleclab-dpi5inch
#display_rotate=1 #1: 90; 2: 180; 3: 270 , Need to modify
40-libinput.conf
```



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