

# ElecLab

## 8" 1280x720 HDMI Display USER GUIDE



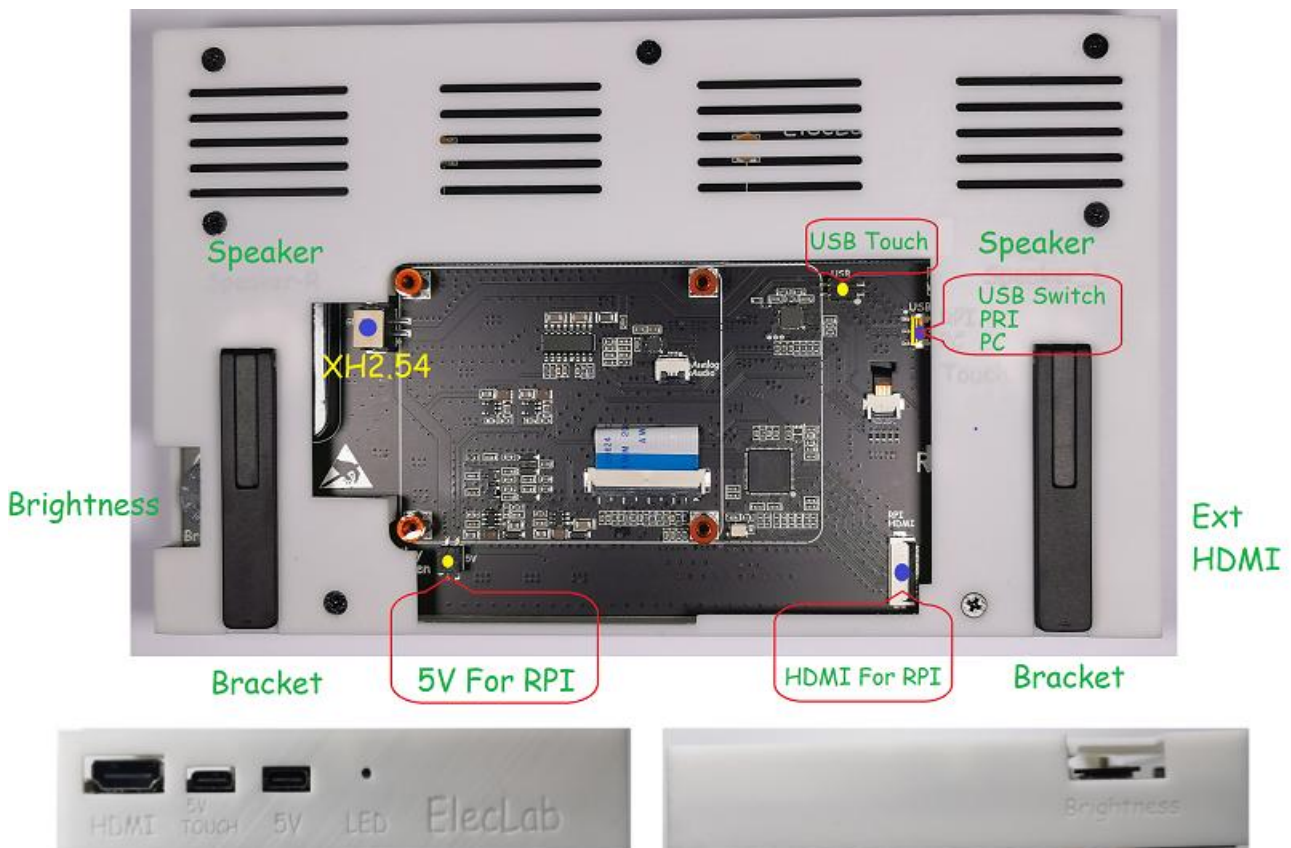
Users need to prepare a Raspberry Pi , a TF card above 8G, a power supply above 4A@5V, and a Buster or Bullseye system image.

Any suggestions please contact us at [ElecLab\\_US@163.com](mailto:ElecLab_US@163.com)

### Quick To Use

1. If the display needs to be tilted, open the 2 brackets on the back of the display.
2. Plug RPI 4 HDMI FPC into Raspberry Pi 4
3. Remove the protective film from the 4 screw posts on the back of the display, and fix the Raspberry Pi to the display with four M2.5x5 screws.
4. Use the RPI4 PWR Board, PI4 USB Board to connect Raspberry pi 4 to the display. For Raspberry Pi 1, 2, 3, Please use the RPI3 PWR Board and PI3 USB Board.
5. Insert a power supply above 5V4A into the type-c 5V socket.

### Function introduction



### Detailed installation steps (Raspberry Pi 4 as an example)

1. Prepare the following three components:

PRI4 TYPE-C board -> Display power supply to raspberry

PRI4 HDMI FPC Cable -> Raspberry Pi HDMI output to display

PRI4 USB board -> Connect touch screen to Raspberry Pi



2. After burning Buster or Bullseye system into the TF card, edit the following in /boot/config.txt, :

```
hdmi_force_hotplug=1
```

```
hdmi_group=2
```

```
hdmi_mode=87
```

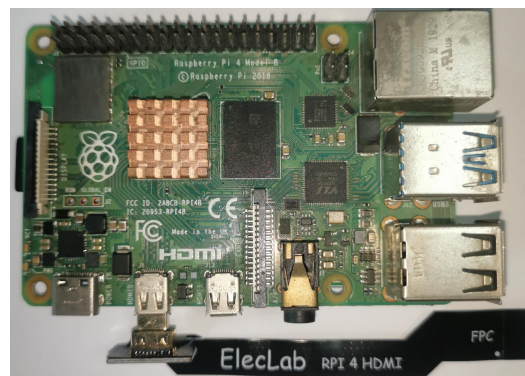
```
hdmi_ignore_edid=0xa5000080
```

```
hdmi_cvt 1280 720 60 3 0 0
```

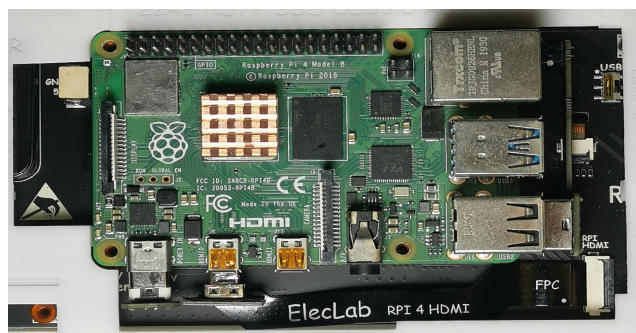
```
hdmi_drive=2
```

3. First insert the TF card into the Raspberry Pi, then insert the RPI 4 HDMI FPC into the Raspberry Pi 4.

4. Use PRI4 TYPE-C board and PRI4 USB board to connect Raspberry Pi and display.



5. Install 2 brackets and fix them with M2.5x10 screws



6. Jump the USB Touch switch to the RPI position

7. insert the Type-C power cable to the display, And then start running.

### LED Description

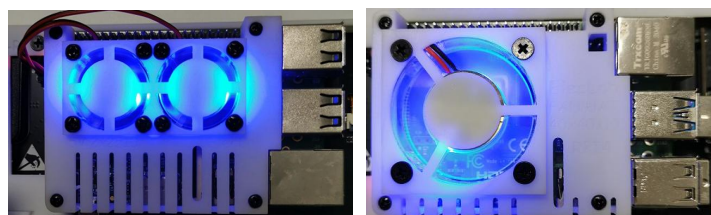
1. When there is no HDMI signal, the LED indicator is red, the screen has no display and the backlight is turned off.

2. When there is an HDMI signal, the LED indicator is green, the backlight is turned on, and the screen is displayed normally.

### XH2.54 2PIN 5V Socket Description

1. This display has 2 2PIN XH2.54 sockets and they can be used to supply power to the user's other boards. Please note that the total current should not exceed the safe output current of your 5V power adapter.

2. The XH2.54 socket can also be used to connect the cooling fan. There are STL files for 3D printing to support dual 2510 fans, 4010 fans, and 4020 fans. You can download it from [eleclab-rpi](https://github.com/eleclab-rpi) on github.



### Connect Computer

1. Remove the Raspberry Pi and related components.

2. Flip the USB Touch switch to the PC position.

3. Use HDMI cable and USB Tpec-c cable to connect the display to the computer and the 5V+Touch interface .

5. Pay attention to the screen brightness and speaker output, they will exceed the maximum current output of the computer if they are turned on to the maximum. Turn the volume down below 40%.

6. If no display, please set the graphics card to the extended display mode and select a resolution of 1280x720.