ElecLab

8" HDMI Touchscreen Display

USER GUIDE

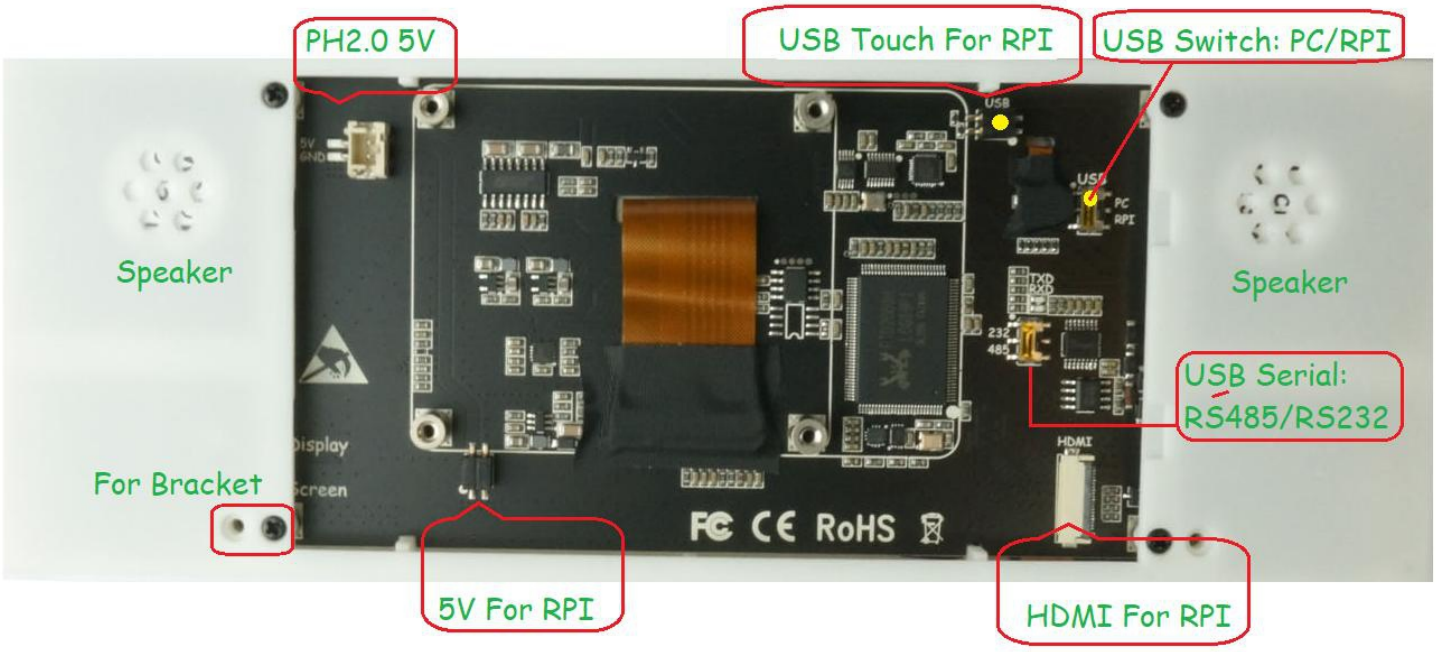
Users need to prepare a Raspberry Pi , a TF card above 8G, a power supply above 4A@5V, and a Buster or Bullseye system image.

Any suggestions please contact us at ElecLab_US@163.com

Quick To Use

1. Take out 2 brackets from the box, install them to the lower part of the display, and fix them with 2 M2.5x12 screws.
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.
3. 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.
4. Insert a power supply above 5V4A into the type-c 5V socket.
5. Press CH button to switch "HDMI RPI".
6. If need to use the buttons to adjust the volume of the display, Please directly press the VOL+/VOL- buttons to adjust, and press the CH button to exit the adjustment.
7. If need to adjust the brightness, please follow the steps below:
   MENU->MENU->VOL+->MENU->VOL+/VOL- >CH->CH->CH, or stop the operation for 10S and automatically exit the setting.

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

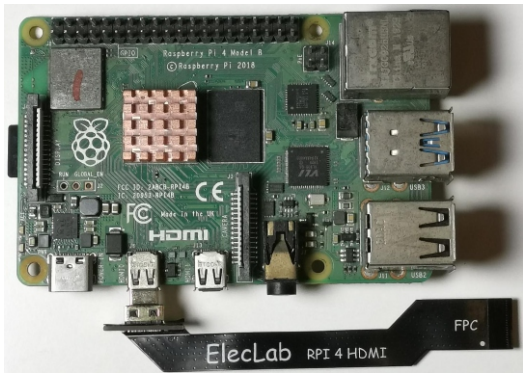
hdmi_ignore_edid=0xa5000080

hdmi_cvt 1600 480 60 6 0 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 M2.5x12 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.

8. Press CH button to switch "HDMI RPI".

LED Description

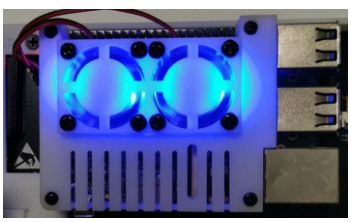
1. When there is no HDMI signal, the LED indicator is red, the screen is blue and display “No Signal”.

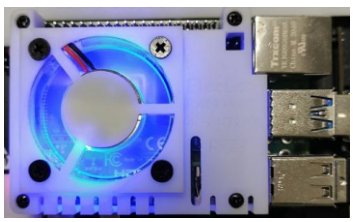
2. When there is an HDMI signal, the LED indicator is green, the screen is displayed normally.

PH2.0 PIN 5V Socket Description

1. This display has a 2PIN PH2.0 sockets and it 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 PH2.0 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 on github.





Connect Computer

1. Remove the Raspberry Pi and related components

2. Flip the USB Touch switch to the PC position

3. Use an HDMI cable to connect the HDMI port of the display to the computer

4. Use a USB Tpec-c cable to connect the computer and the 5V+Touch interface of the display

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 30%.

6. Press CH button to switch "HDMI EXT"

For example, as an AIDA64 display application