WAVESHARE
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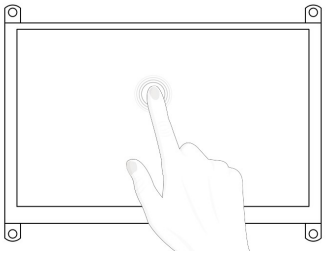
5INCH HDMI LCD (B)

User Manual



FAQ

Q: How to disable the rainbow screen of Raspberry Pi?

A: Please add the following command to /boot/config.txt file.
disable_splash=1

Q: What can I do if the thin red lines appear on the edge of the screen?

A: Edit the config.txt and add this line at the end of the config.txt file:
hdmi_drive=1

Q: How to use the touch function when connected to a Linux PC which is non-designated?

A: You can try to compile the universal touch driver "hid-multitouch" into the kernel, which generally can make the touch function work.

Q: What is the consumption of 5inch HDMI LCD (B)?

A: With 5V power input, the operating current is about 385mA when the backlight is on, 195mA when the backlight is off.

WARNING

Please read this user manual carefully before you use the display. Incorrect use may cause irreparable damage or even cause electric shock and fire. To avoid damaging the display, please observe the following rules during the installation and using.

1. To prevent from fire disaster or electronic shock, please do not put the display in humidity or even in a worse condition;
2. To avoid dust, moisture and extreme temperatures, please DO NOT please the display in any damp area. Please place the device on a stable surface when in use;
3. DO NOT put any object or splash any liquid into the ports of openings of the display;
4. Before using the display, please make sure all the cables are connected properly and all the cables included the power cord are proper to use. If any cables or accessories are missed or broken, please contact Waveshare immediately;
5. Please use the HDMI cable as well as the USB cable provided with the display;
6. Please use a 5V 1A or above Micro USB adapter to supply the display if you want to use external power for the display;
7. DO NOT attempt to take apart the PCBA and the raw display panel, which may damage the display panel. If you face any problem about the display, please contact our Support Team by ticket;
8. The display glass may break when it is dropped or bumped on a hard surface, please handle with care.

SPECIFICATION

Size

5”

Resolution

800×480

Display Port

HDMI

Touch Port

USB

Consumption

Low Power

Touch Type

Resistive

Certification

CE

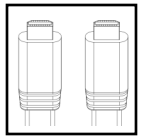
Certification

RoHS2.0

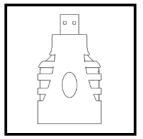
- 800 × 480 hardware resolution.
- Resistive touch control.
- When working with Raspberry Pi, it supports Raspberry Pi OS / Ubuntu / Kali and Retropie.
- When using as a computer monitor, it supports Windows 11/ 10 / 8.1 / 8 / 7.
- Support backlight control, saving more power.

ACCESSORIES

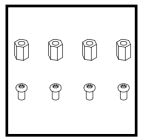
Before using the product, please check if all the accessories are packaged properly and in perfect condition



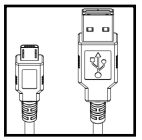
Standard HDMI Cable
For connecting Pi 3B+/Pi 3B



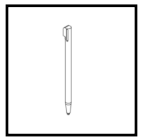
Micro HDMI Adapter
For connecting Pi 4B



Standoffs and Screws
For fixing

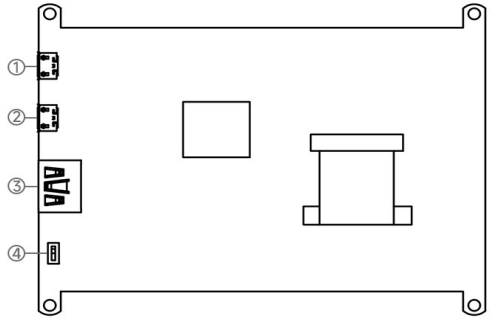


Micro USB Cable
For touch



Stylus
For touch

INTERFACES



1. **Power Port**
   Micro USB port for 5V power input.
2. **Touch Port**
   Micro USB port for touch or power.
3. **Display Port**
   Standard HDMI port for display.
4. **Backlight Switch**
   Switch for turn on/off the power of LCD backlight.

DISPLAY SETTING

To use with the **Raspberry Pi**, you need to manually set the resolution by modifying the config.txt file, The file is located at the boot directory. Some of the OS doesn't have **config.txt** file by default, you can create an empty file and name it as config.txt.

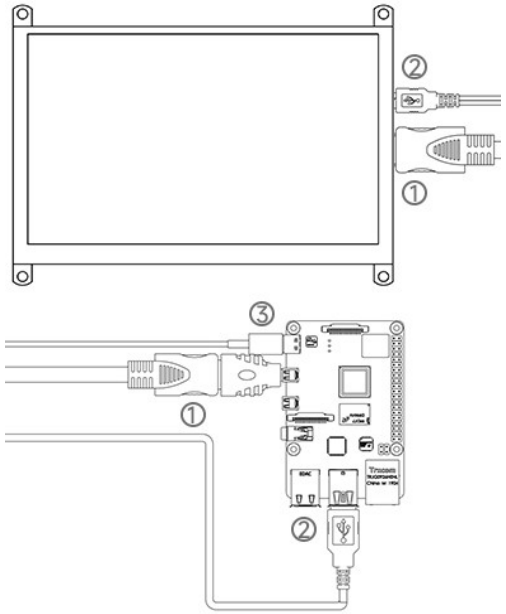
1. Write Raspberry Pi OS image to the TF card by Raspberry Pi Imager which can be downloaded from Raspberry Pi official website.
2. Open the config.txt file and add the following lines to the end of the file.

```
hdmi_group=2
hdmi_mode=87
hdmi_cvt 800 480 60 6 0 0 0
hdmi_drive=1
```

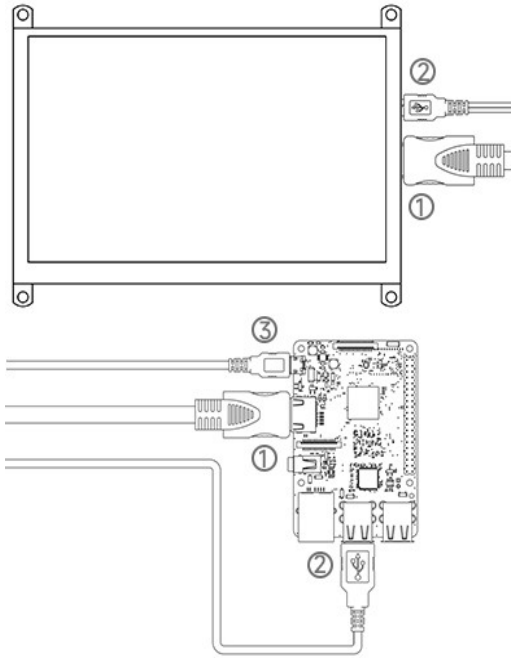
3. Save the file and eject the TF card.
4. Insert the TF card into the Raspberry Pi board.

CONNECTION

Connect to Raspberry Pi 4

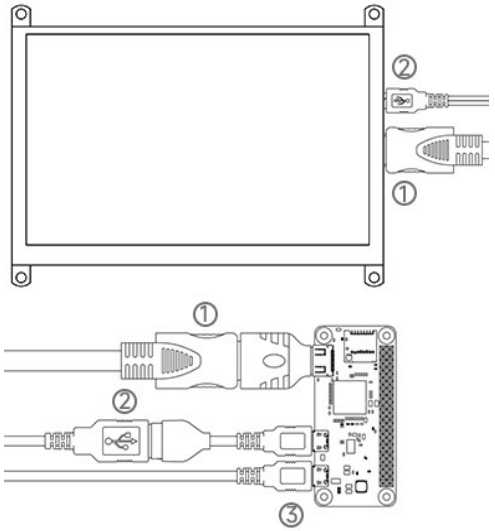


Connect to Raspberry Pi 3B+



CONNECTION

Connect to Raspberry Pi Zero W



Note: You need to config the Raspberry Pi according to Display Setting before powering the board.

1. Connect HDMI cable:

   For Pi4: Connect the micro HDMI adapter to Raspberry Pi 4, then connect standard HDMI cable to Pi 4 and the display.

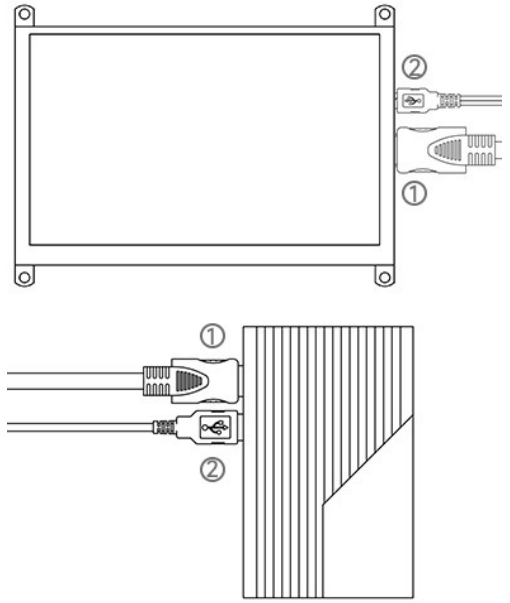
   For Pi 3B+: Connect standard HDMI cable to Pi 3B+ and the display.

   For Pi Zero: Connect the mini HDMI adapter to the Pi zero, then connect standard HDMI cable to Raspberry Pi Zero and the display (The mini HDMI adapter should be purchased separately).

2. Connect the USB cable to the Raspberry Pi and the display.
3. Connect a power adapter to the Raspberry Pi to power on.

CONNECTION

Connect to mini PC



Note: For most of the PC, the display is driver free without other setting.

1. Connect standard HDMI cable to PC and the display.
2. Connect the USB cable to the PC and the display.