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WAVESHARE 7 inch Display for Raspberry Pi 4 Capacitive 5 Points Touchscreen HDMI LCD B User Manual

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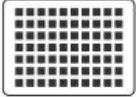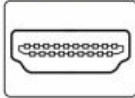
WARNING

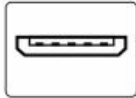Please read this user manual carefully before you use the display. Incorrect use may cause irreparable damage or even cause electric shock and fire. To avoid damaging the display, please observe the following rules during the installation and use.

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 place 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 including 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 it with care
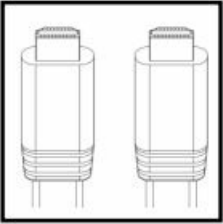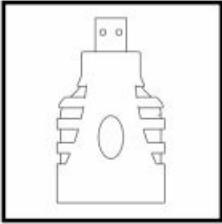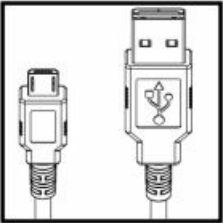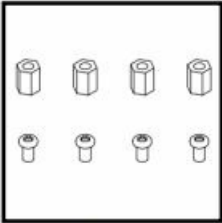
SPECIFICATION

Size	Resolution
7"	800×480

Display Port	Touch Port
HDMI	USB

Touch Points	Touch Type
5-Points	Capacitive

| Certification	Consumption
CE	Low Power

- 800 × 480 hardware resolution.
- 5-point capacitive touch control.
- When used with Raspberry Pi, supports Raspberry Pi OS / Ubuntu /Kali and Retropie.
- When used as a computer monitor, 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

Micro USB Cable
For power and touch

Standoffs and Screws
For fixing

INTERFACES
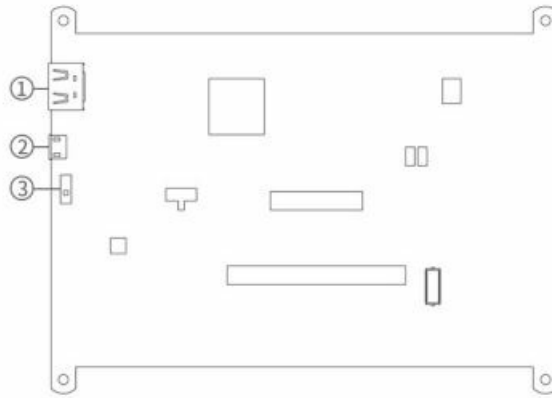
1. Display Port
    - Standard HDMI port
2. Touch Port
    - Micro USB port for touch or power
3. Backlight Switch
   - Switch for turn on/off the power of LCD backlight

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 cre-ate 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 offi-cial 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.

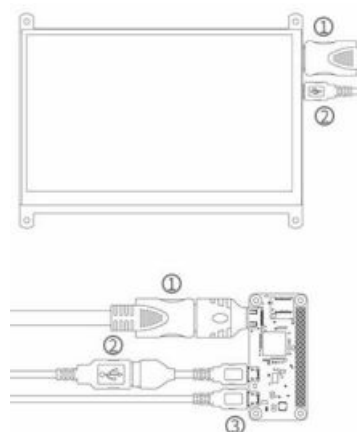**CONNECTION**

Connect to Raspberry Pi 4
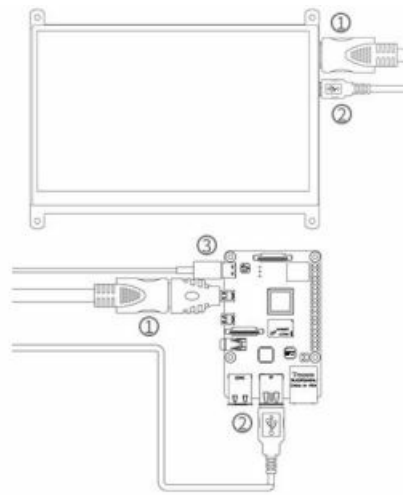
Connect to Raspberry Pi 3B+
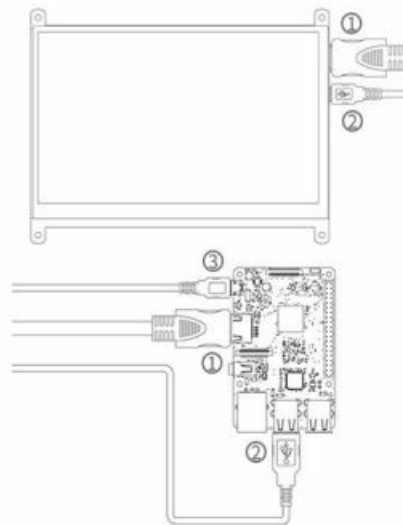
CONNECTION

Connect to Raspberry Pi Zero W

Note: You need to config the Raspberry Pi according to Display Setting before powering the board.
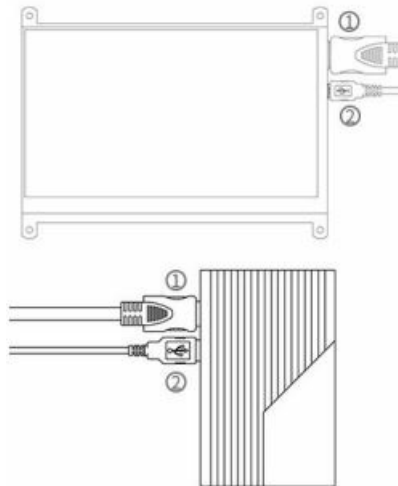
1. Connect HDMI cable
   1. **For Pi4:** Connect the micro HDMI adapter to Raspberry Pi 4, then connect the standard HDMI cable to Pi 4 and the display.
   2. **For Pi 3B+:** Connect standard HDMI cable to Pi 3B+ and the display.

3. **For Pi Zero:** Connect the mini HDMI adapter to the Pi Zero, then connect the standard HDMI cable to the 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.
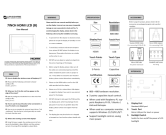3. Connect a power adapter to the Raspberry Pi to power on.

CONNECTION

Connect to mini PC

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

1. Connect a standard HDMI cable to PC and the display.
2. Connect the USB cable to the PC and the display.
3. Connect a Power adapter to the PC to power on.

Documents / Resources

[**WAVESHARE 7 inch Display for Raspberry Pi 4 Capacitive 5 Points Touchscreen HDMI LCD B**](#) [pdf] User Manual
7 inch Display for Raspberry Pi 4 Capacitive 5 Points Touchscreen HDMI LCD B, 7 inch, Display for Raspberry Pi 4 Capacitive 5 Points Touchscreen HDMI LCD B, Capacitive 5 Points Touchscreen HDMI LCD B, Points Touchscreen HDMI LCD B, Touchscreen HDMI LCD B, HDMI LCD B

References

- [**User Manual**](#)