WAVESHARE Pi4 Capacitive Touchscreen HDMI LCD User Manual

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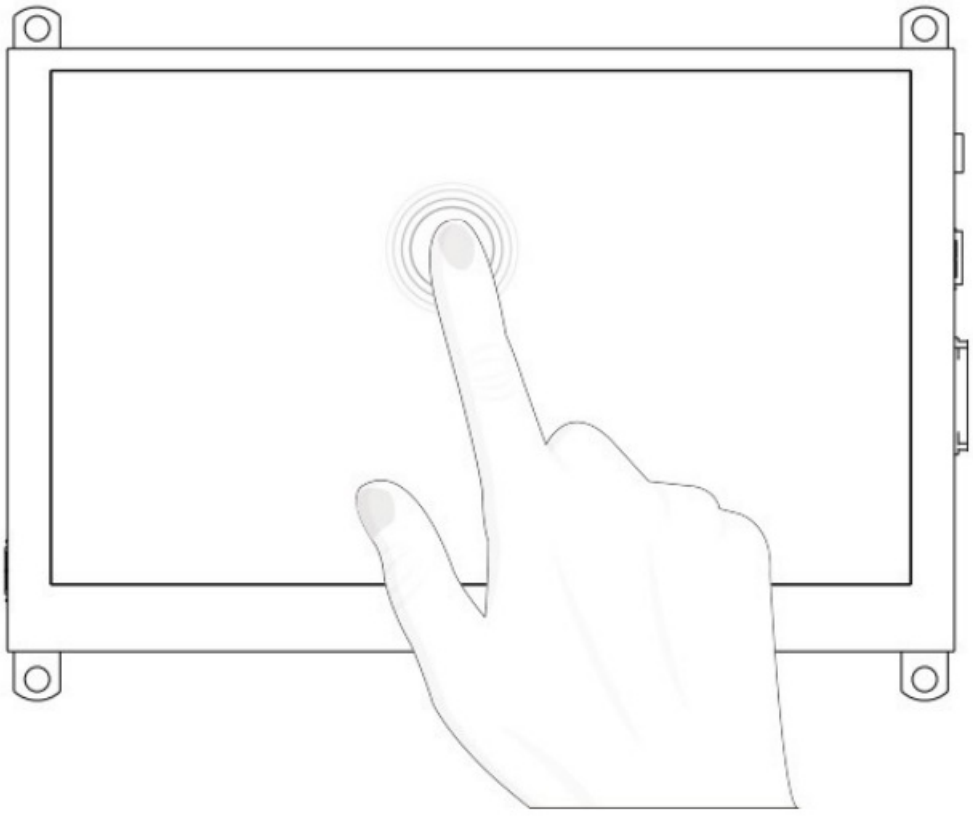

Contents

IMPORTANT INFORMATION

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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: How to replace the Raspberry Pi boot logo image??

A: You can replace the splash.png from the path /usr/ share/plymouth/themes/pix/splash.png to yours.

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

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

Q: What is the working current for the 5inch HDMI LCD (H) when it works normally?

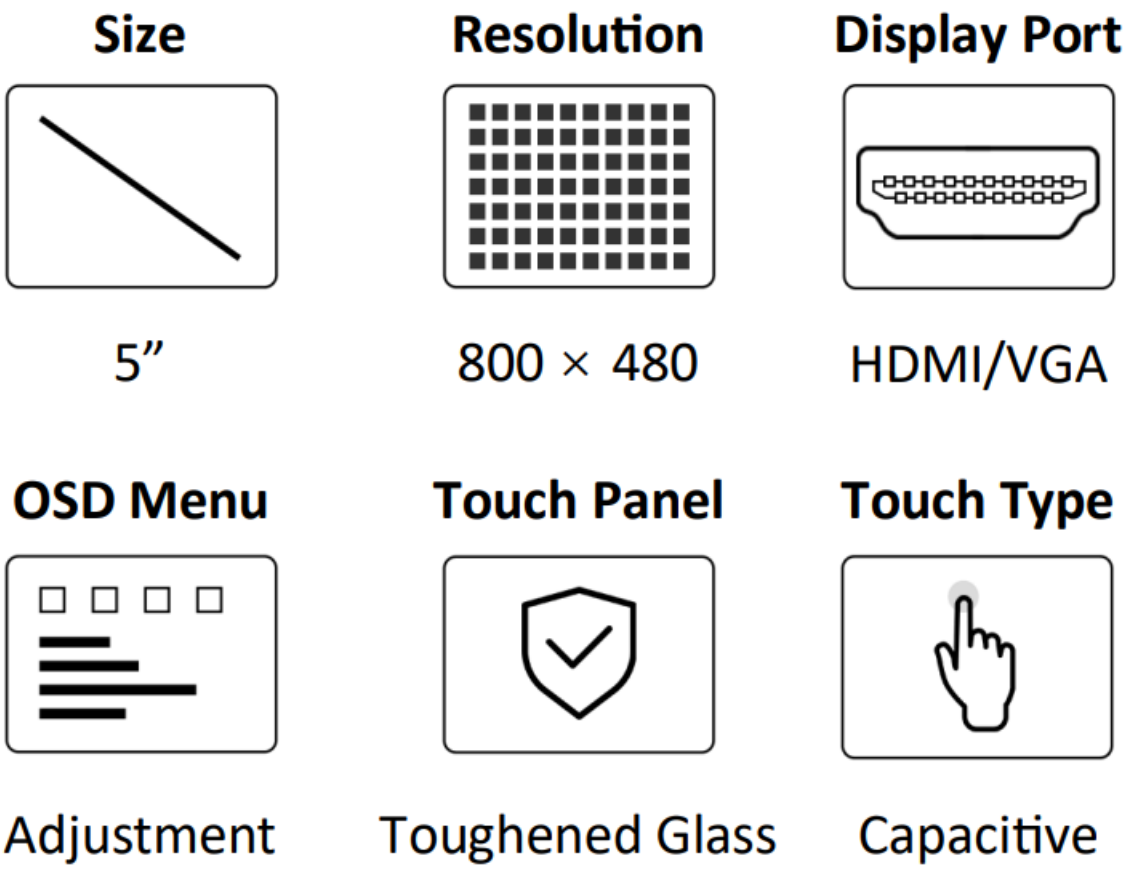
A: With 5V power supply, the working current of display is about 400mA.

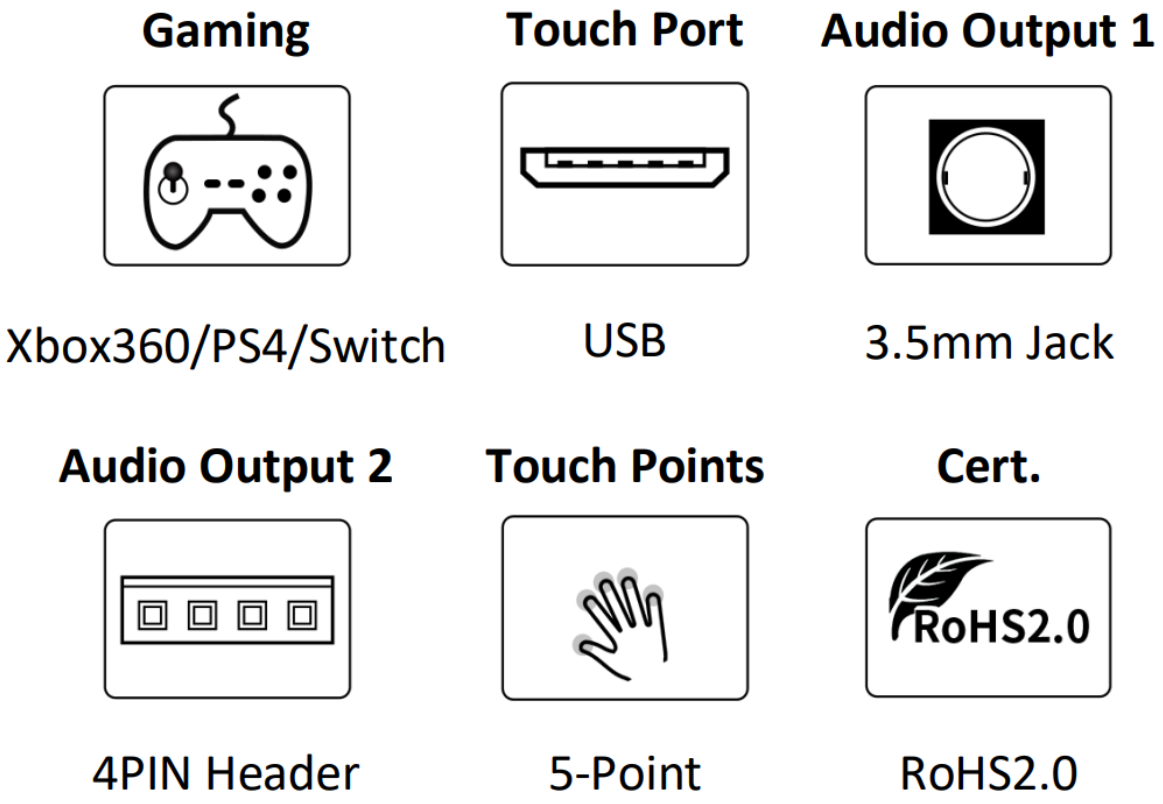
WARNING

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 Waves are 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



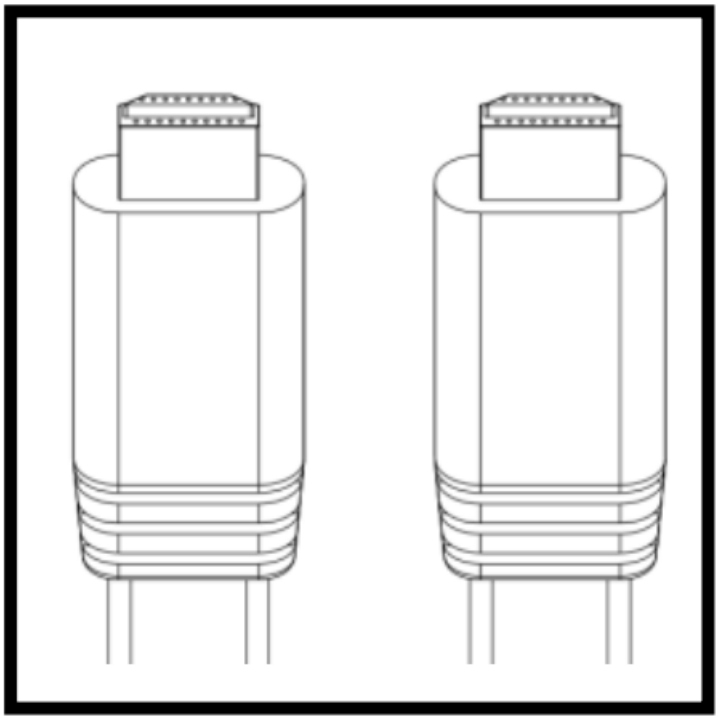


- 5-inch capacitive touch screen with a hardware resolution of 800 × 480.
- 5-point capacitive touch control, toughened glass panel, hardness up to 6H.
- When works with Raspberry Pi, supports Raspberry Pi OS / Ubuntu / Kali and Retro pie systems.
- When working as a computer monitor, supports
  Windows 11/10/8.1/8/7, ten-points touch.
- Multi-languages OSD menu, for power management, brightness/contrast adjustment, etc.
- It has a 3.5mm audio jack and supports HDMI audio output.
- Supports VGA input (Mini HDMI to VGA Cable is required and should be purchase separately).

ACCESSORIES

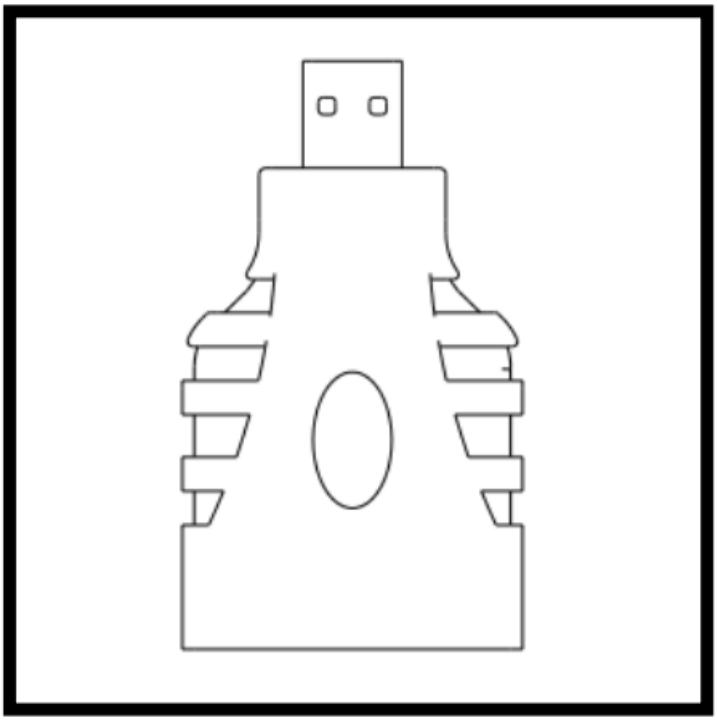
Before using the product, please check if all the accessories are packaged properly and in perfect condition

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



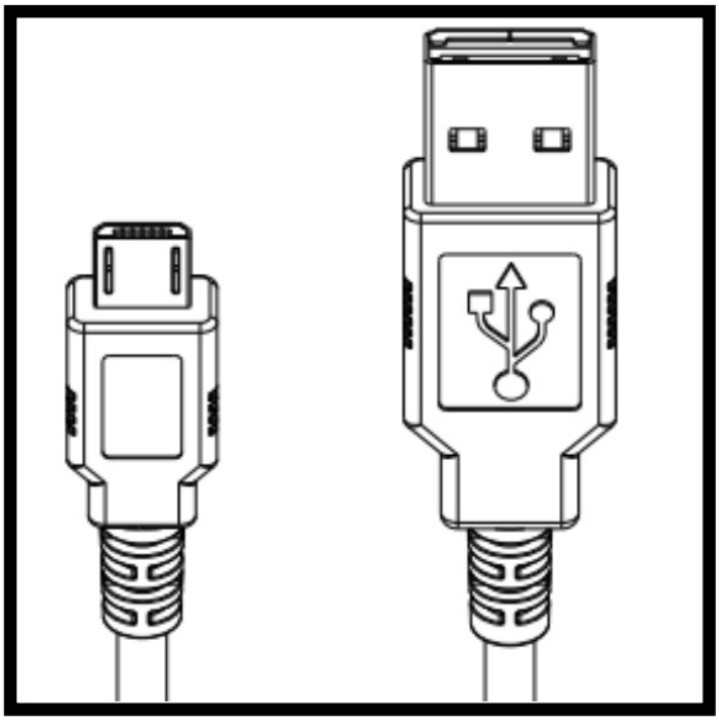
- **Micro HDMI Adapter**

  For connecting Pi 4B



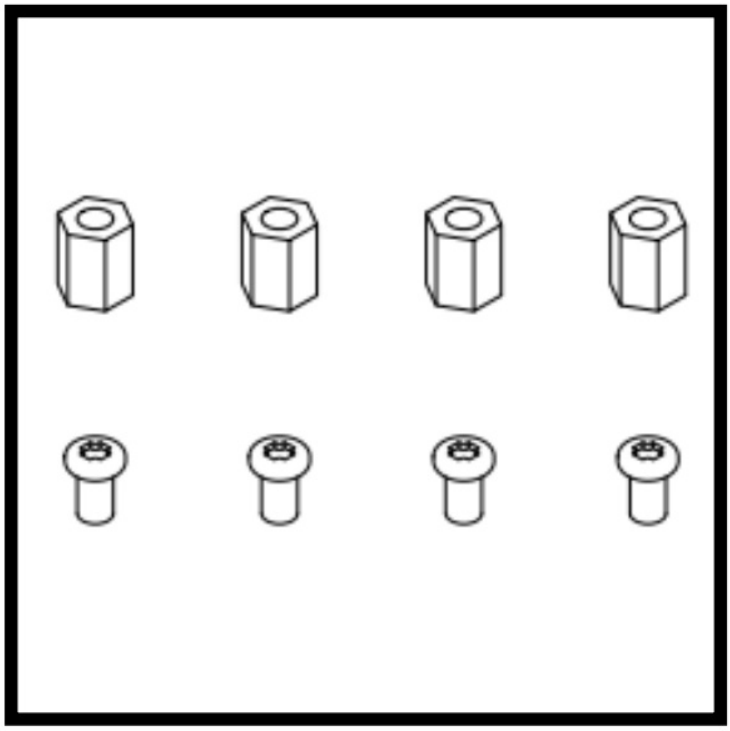
- **Micro USB Cable**

  For power and touch



- **Standoffs and Screws**

  For fixing



INTERFACES

1. **Power Button**

   Turn on/ off power of backlight
2. **Menu Button**

   Open OSD Menu or “OK “ button
3. **Up/Left Button**

   Direction button
4. Down/Right Button

Direction button

5. **Return/Exit Button**

   Return or exit from menu

6. **Power Input**

   Micro USB port for 5V power input

7. **Audio Jack**

   3.5mm jack for HDMI audio

8. **Touch Port**

   Micro USB port for touch

9. **HDMI Port**

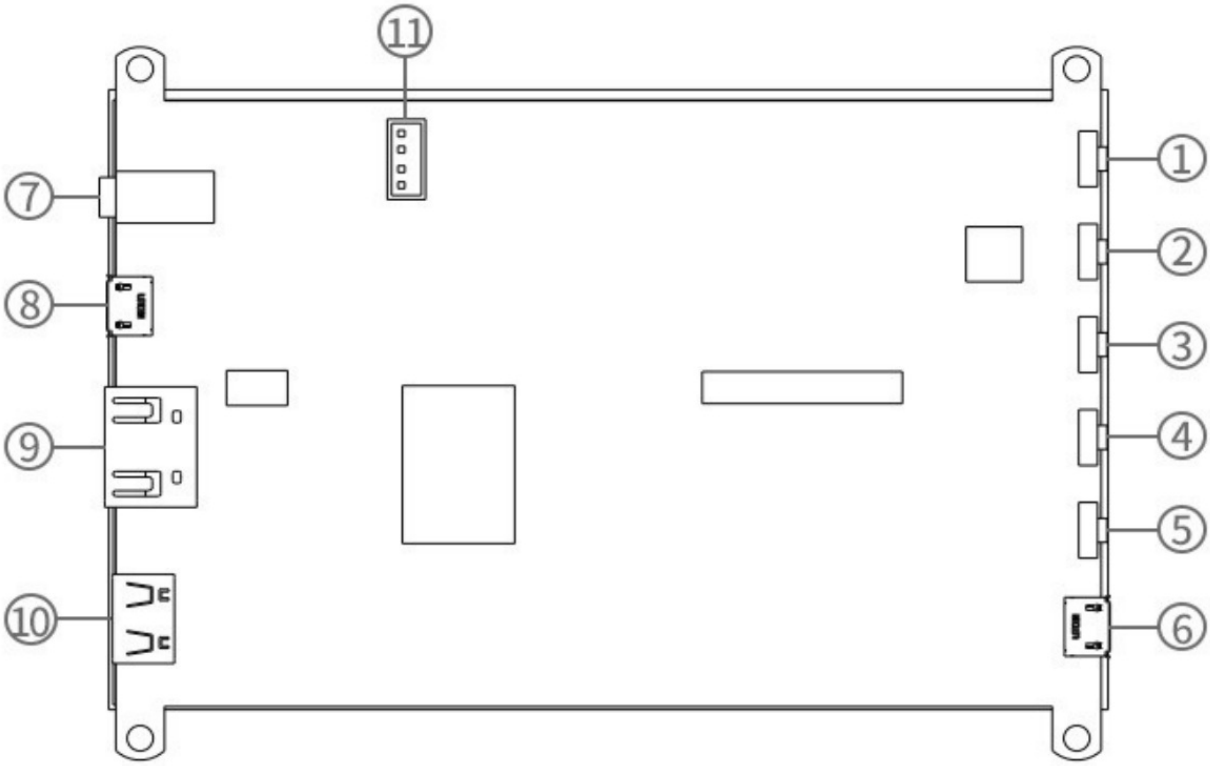
   Standard HDMI connector for HDMI signal

10. **VGA Display Port**

    Mini HDMI connector for VGA signal

11. **Speaker header**

    4-pins connector for HDMI audio



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

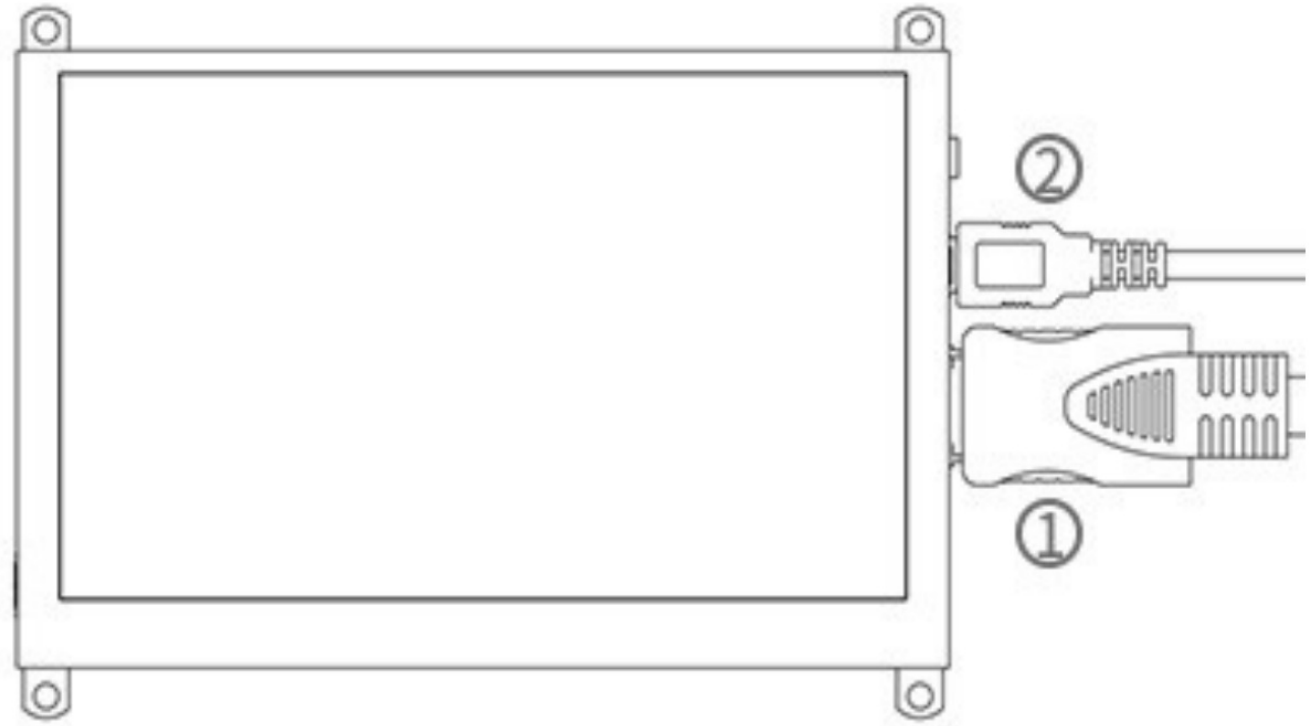
hdmi_ mode=87

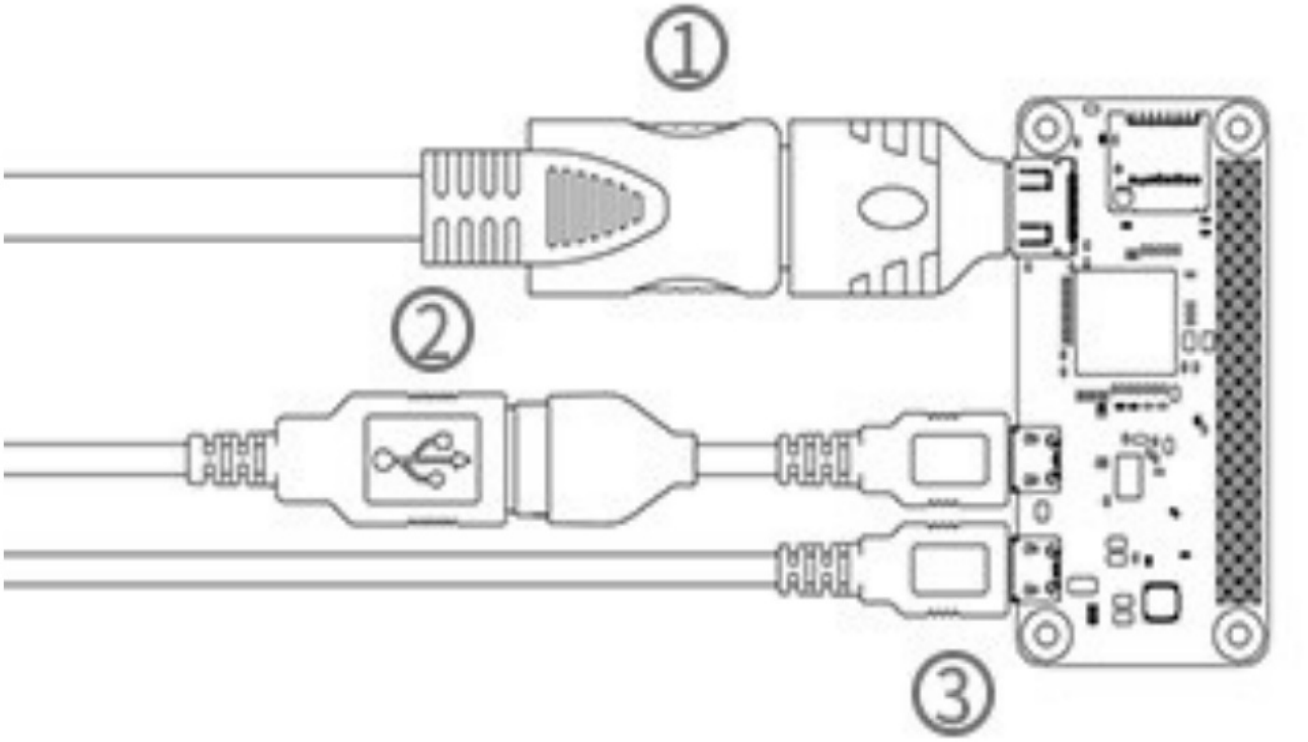
hdmi_ cvt 800 480 60 6 0 0 0

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

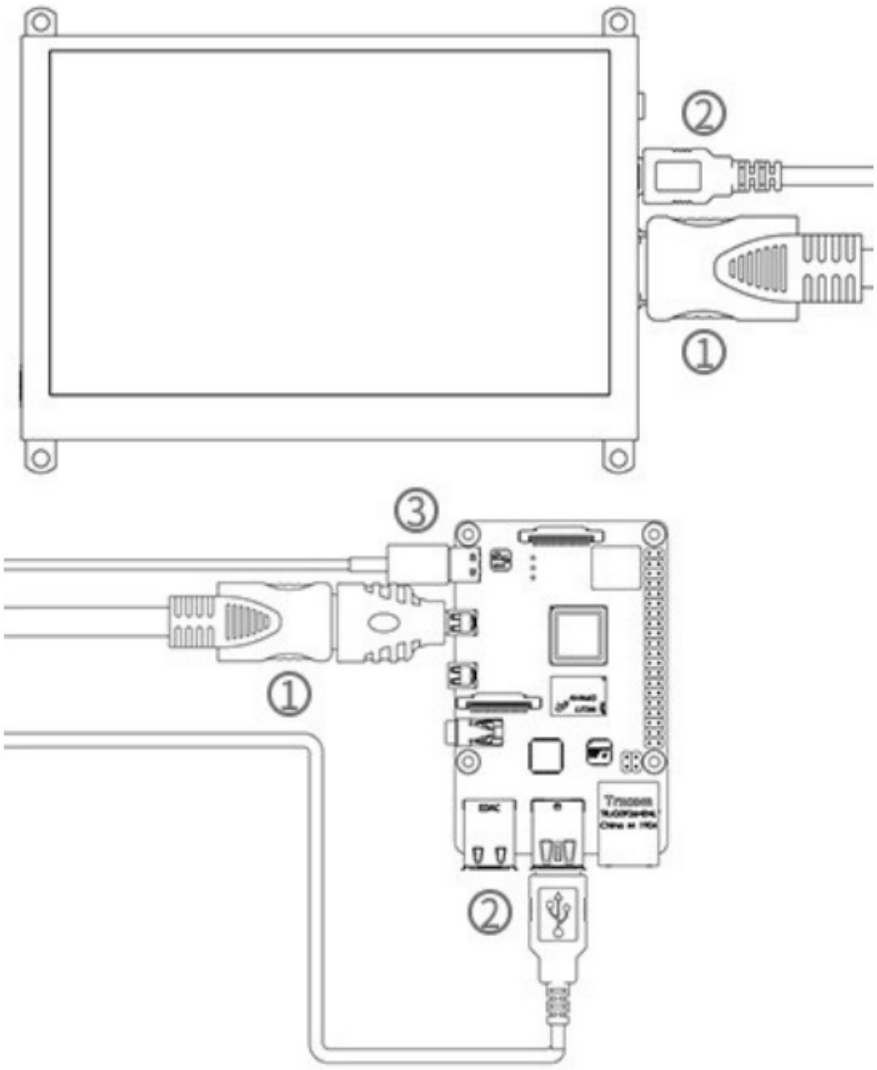
CONNECTION

Connect to Raspberry Pi Zero W





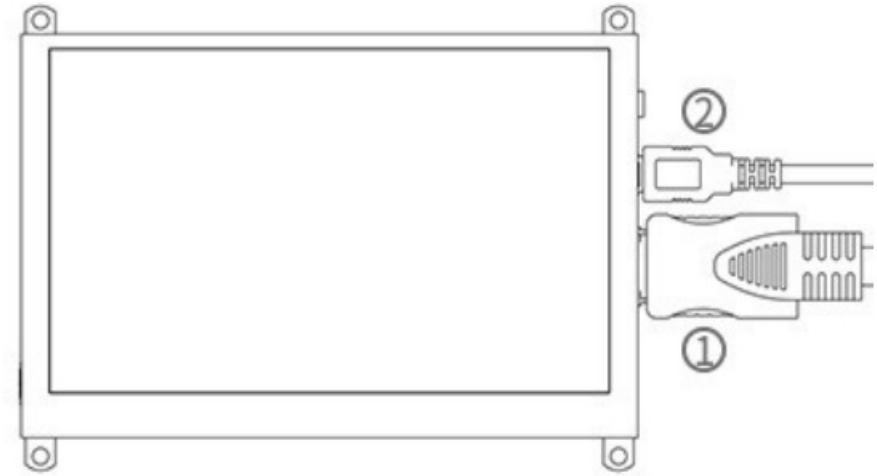
Connect to Raspberry Pi 4

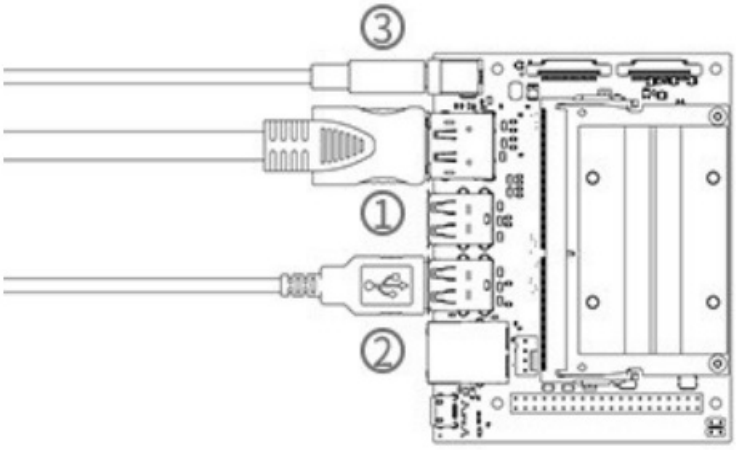


Note: You need to config the Raspberry Pi according to Display Setting before powering the board.

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

Connect to Jetson Nano

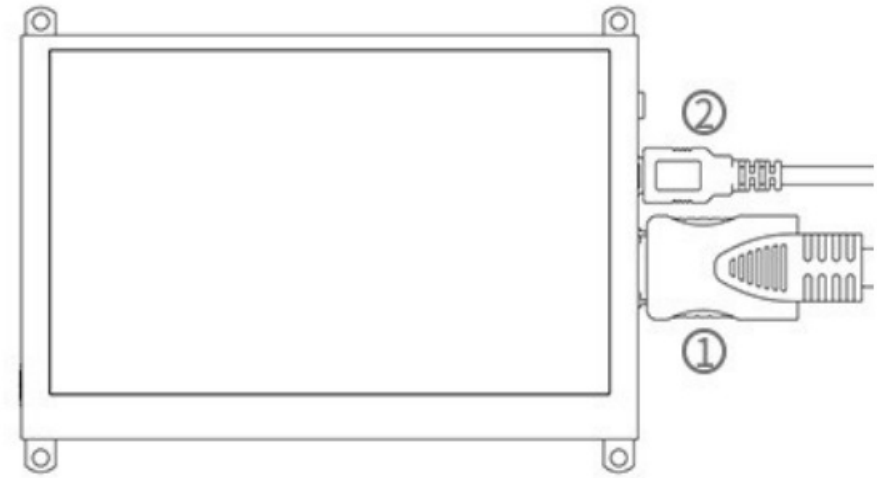


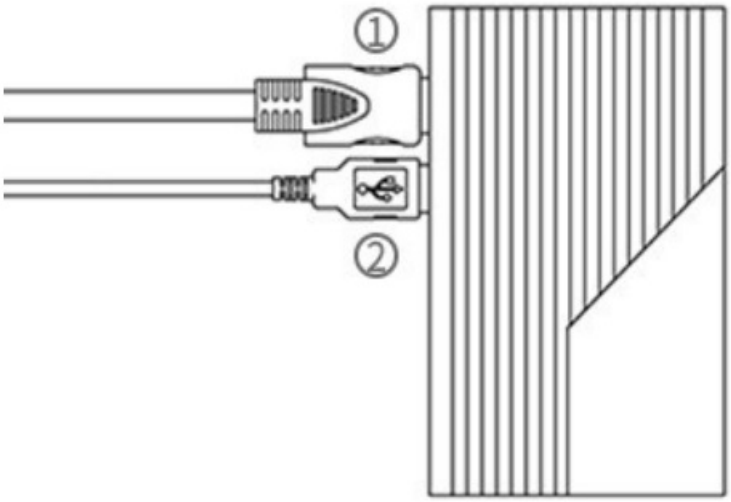


Note: For Jetson Nano, the display is driver free without other setting.

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

Connect to mini PC





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

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

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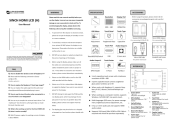
Documents / Resources

	WAVESHARE Pi4 Capacitive Touchscreen HDMI LCD [pdf] User Manual Pi4 Capacitive Touchscreen HDMI LCD, Pi4, Capacitive Touchscreen HDMI LCD, Touchscreen HDMI LCD, HDMI LCD, LCD

References

- User Manual