

6.25inch 720x1560 LCD

From Waveshare Wiki

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Overview

Introduction

The 6.25-inch 720x1560 LCD is a high-resolution universal capacitive touch screen compatible with most standard HDMI devices.

Featuring a small, thin body, toughened glass panel, excellent display performance and smooth multi-touch effect.

Feature

- 6.25inch IPS screen with 720x1560 hardware resolution.
- 5-point capacitive touch with up to 6H hardness toughened glass panel.
- Supports Raspberry Pi OS / Ubuntu / Kali and RetroPie when used with Raspberry Pi.
- Supports Windows 11 / 10 / 8.1 / 8 / 7 when used as a computer monitor.

6.25inch 720x1560 LCD



(<https://www.waveshare.com/6.25inch-720x1560-lcd.htm>)

6.25inch Capacitive Touch Display, 720×1560,
Optical Bonding Toughened Glass Panel, HDMI
Interface, IPS Panel, 5-Point Touch

- Supports HDMI audio output, onboard 4PIN speaker jack.

Specification

Item	Description	Unit
Model	6.25inch 720x1560 LCD	/
Dimensions	6.25	Inch
Viewing angle	178	Deg
Resolution	720x1560	Pixels
Touch screen dimensions	74.70(H)×159.18(V)	mm
Display area	66.60(H)×144.18(V)	mm
Pixel pitch	0.0918(H) x 0.0921(V)	mm
Color gamut	70%	NTSC
Brightness (Max)	450	cd/m²
Contrast	800:1	/
Backlight	Software dimming	/
Refresh rate	60	Hz
Display interface	Standard HDMI port	/
Power port	5V Type-C interface	/
Power consumption	2	Watt

Electrical Parameters

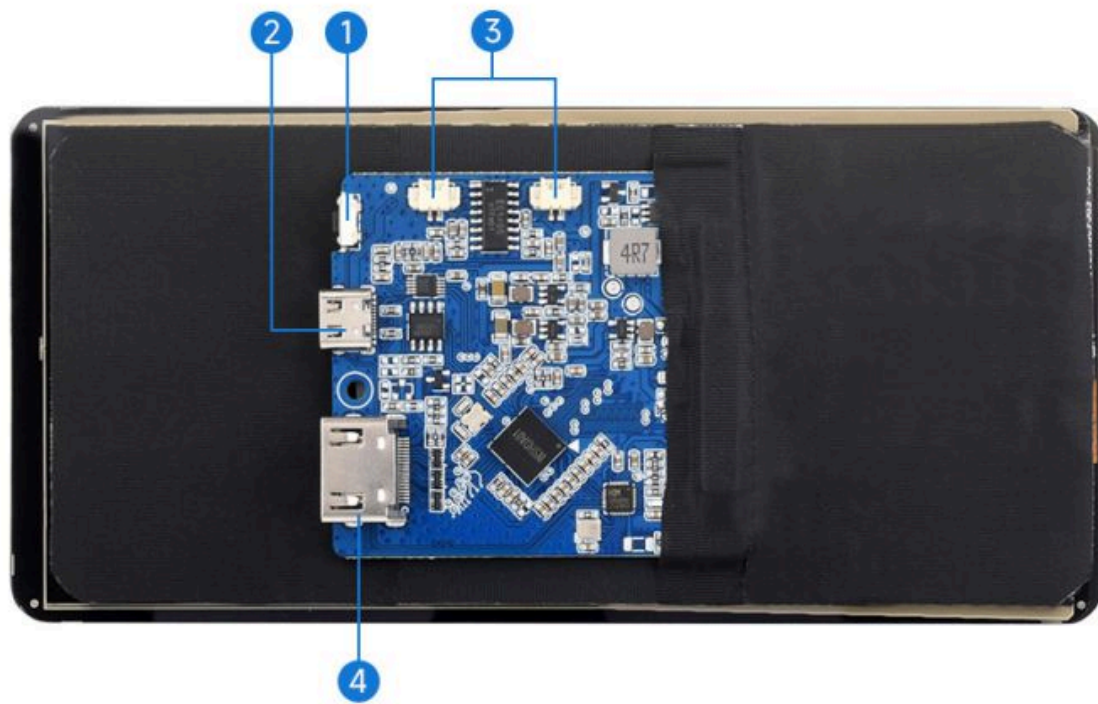
Parameter	Min.	Standard	Max.	Unit	Note
Input Voltage	4.75	5.00	5.25	V	Note 1
Input Current	360	400	TBD	mA	Note 2
Operating Temperature	0	25	50	°C	Note 3
Storage Temperature	-20	25	60	°C	Note 3

- Note 1:** Input voltage exceeding the maximum value or improper operation may cause permanent damage to the device.
- Note 2:** The input current should be ≥400mA, otherwise, it will lead to start-up failure or abnormal display,

and a long time in an abnormal state may cause permanent damage to the device.

•**Note 3:** Please do not put the display in a high-temperature and high-humidity storage environment for a long time, the display needs to work within the limit value, otherwise it will be possible to damage the display.

Onboard Interface



- | | |
|--|-----------------------------|
| 1 Power ON/OFF & Brightness Adjustment | 2 Power Supply & Touch Port |
| 3 Speaker Header | 4 HDMI Port |

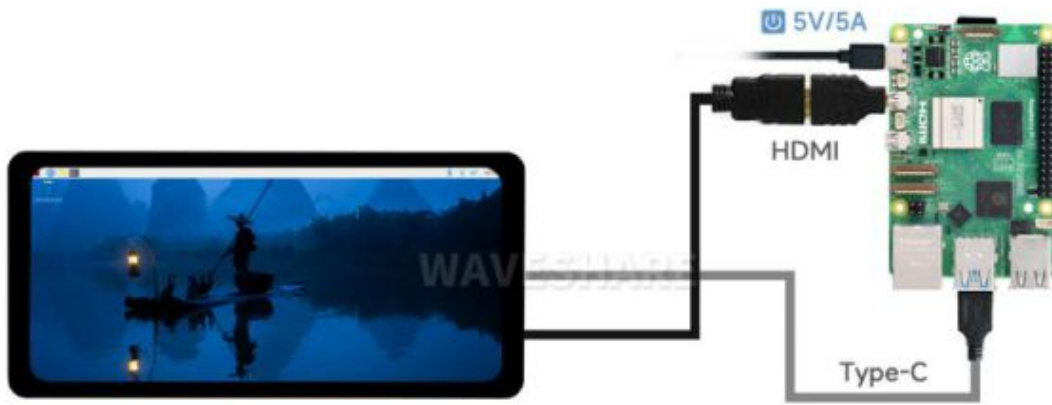
(/wiki/File:6.25inch-768x1024-LCD-details-21.jpg)

User Manual

Working with Raspberry Pi

Hardware Connection

1. Connect the Touch port to the USB interface of the Raspberry Pi.
2. Connect the HDMI port to the HDMI port of the Raspberry Pi .

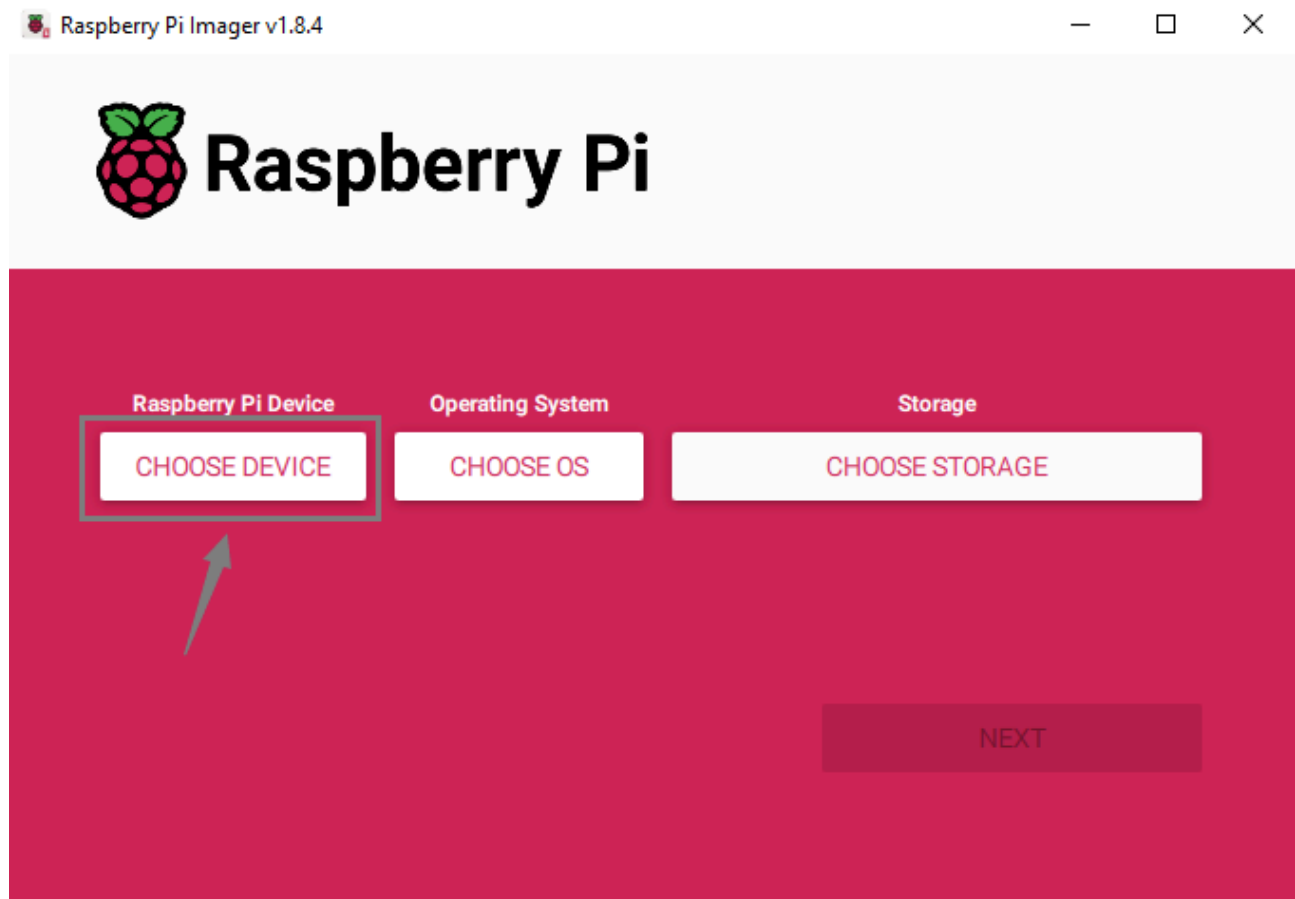


(/wiki/File:6.25inch-768x1024-LCD-01.jpg)

Software Setting

For Raspberry Pi OS/Ubuntu/Kali and RetroPie system:

- 1. Insert the TF card into the PC, download and use Raspberry Pi Imager (<https://www.raspberrypi.com/software/>) to program the corresponding image.



(/wiki/File:Pan-Tilt_Camera_WRITEIMAGE01.png)

- 2. After programming the image, open the "config.txt" file located in the root directory of the TF card. Add the following code at the end of config.txt, save the file, and safely eject the TF card.

Note: As Pi 5/CM4/CM3+/CM3 has two MIPI DSI interfaces, please ensure to use the correct DSI interface and command. DSI1 is recommended by default.

```
hdmi_group=2
hdmi_mode=87
hdmi_force_hotplug=1
max_framebuffer_width=720
max_framebuffer_height=1560
hdmi_timings=720 0 22 10 78 1560 0 13 3 13 0 0 0 57 0 75000000 0
```

- 3. Insert the TF card into the Raspberry Pi, power on the Raspberry Pi, and wait for a few seconds. After the system boots up, you should be able to enter the display interface and the LCD should touch normally.

Working with PC

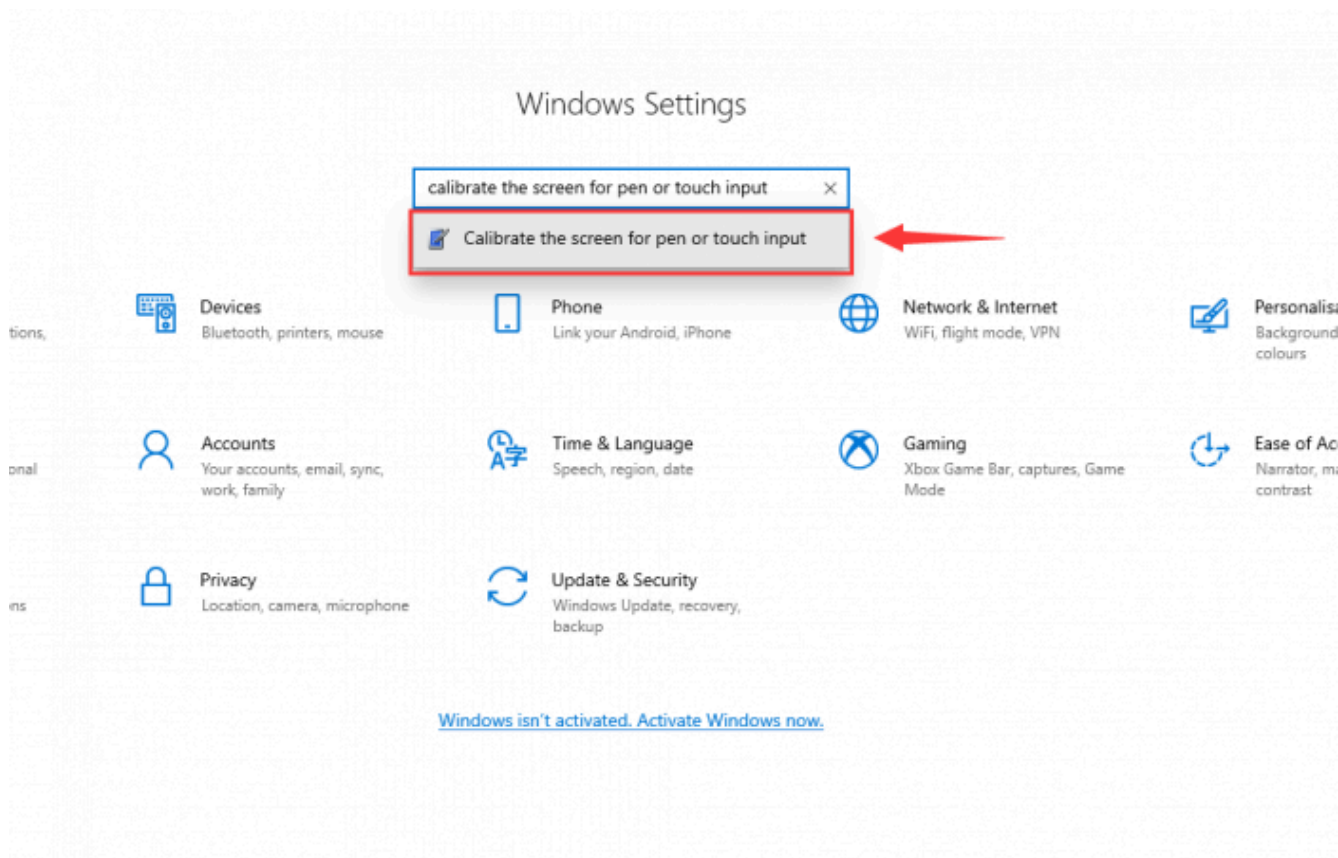
Support Windows 11/10/8.1/8/7

1. Connect the Touch port of the LCD to the USB interface of the PC, and Windows will automatically recognize the touch function.
 2. Connect the HDMI interface of the LCD to the HDMI interface of the PC, and Windows will automatically recognize the display function.
- Note:
 - Some PCs do not support HDMI devices plug-and-play, usually after rebooting the system can be used normally.
 - If the USB interface power supply is insufficient will lead to the LCD flashing, it is recommended to directly connect to the USB connector of the PC to make sure the stable power supply.

Windows Touch Calibration

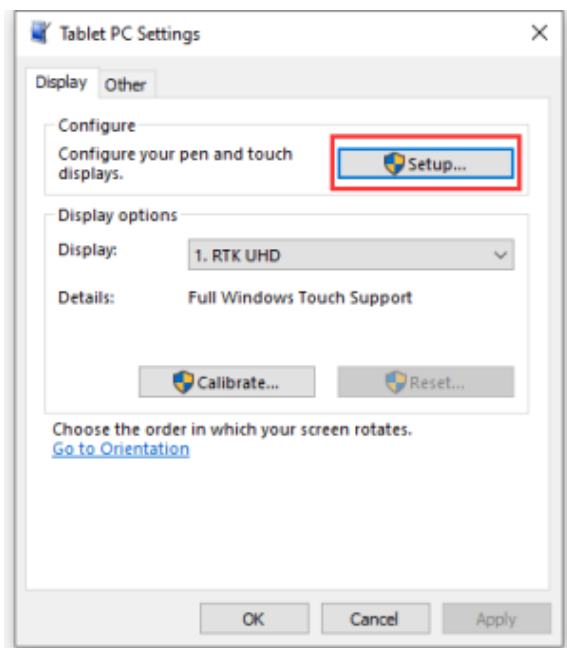
Take Windows 10 as an example:

- 1. Enter the Windows Settings of the system, type in the search bar, and click "Calibrate the screen for pen or touch input" (as shown in the picture below):



(/wiki/File:Win10_touch011.png)

- 2. Click "Setup" in the pop-up "Tablet PC Settings" interface:



(/wiki/File:Win10_touch02.png)

- 3. The following text prompt will appear on the screen. Please tap the touch screen with your finger, and the computer will recognize it as a touch screen.

【Note】 If the touch screen is blank, press the "Enter" key, and the text prompt will switch to the touch screen. (The screen which displays the text prompt will be used as a touch screen!)

Tap this screen with a single finger to identify it as the touchscreen.

If this is not the Tablet PC screen, press Enter to move to the next screen. To close the tool, press Esc.

(/wiki/File:Win10_touch03.png)

FAQ

Question: What specifications of speakers are used for the 6.25inch 720x1560 LCD speaker interface and what is the output power consumption?

Answer:

2PIN PH1.25 terminal, interface amplifier supports up to 2 x 3W, impedance 4R

Resource

3D Drwaing

- 6.25inch 720x1560 LCD 3D Drawing (https://files.waveshare.com/wiki/6.25inch%20720x1560%20LCD/6_25inch-720x1560-LCD.zip)

Support

Technical Support

If you need technical support or have any feedback/review, please click the **Submit Now** button to submit a ticket, Our support team will check and reply to you within 1 to 2 working days. Please be patient as we make every effort to help you to resolve the issue.

Working Time: 9 AM - 6 PM GMT+8 (Monday to Friday)

Submit Now (<https://service.waveshare.com/>)

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(https://www.waveshare.com/w/index.php?title=6.25inch_720x1560_LCD&oldid=98373)"*
