

waveshare 7.9inch HDMI LCD

Waveshare 7.9-inch Capacitive Touch Screen LCD Monitor Instruction Manual

Model: 7.9inch HDMI LCD | Brand: Waveshare

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Waveshare 7.9-inch Capacitive Touch Screen LCD Monitor. This display features a 400x1280 hardware resolution, IPS panel, and capacitive touch control, making it suitable for various applications including Raspberry Pi, Jetson Nano, and PC systems.

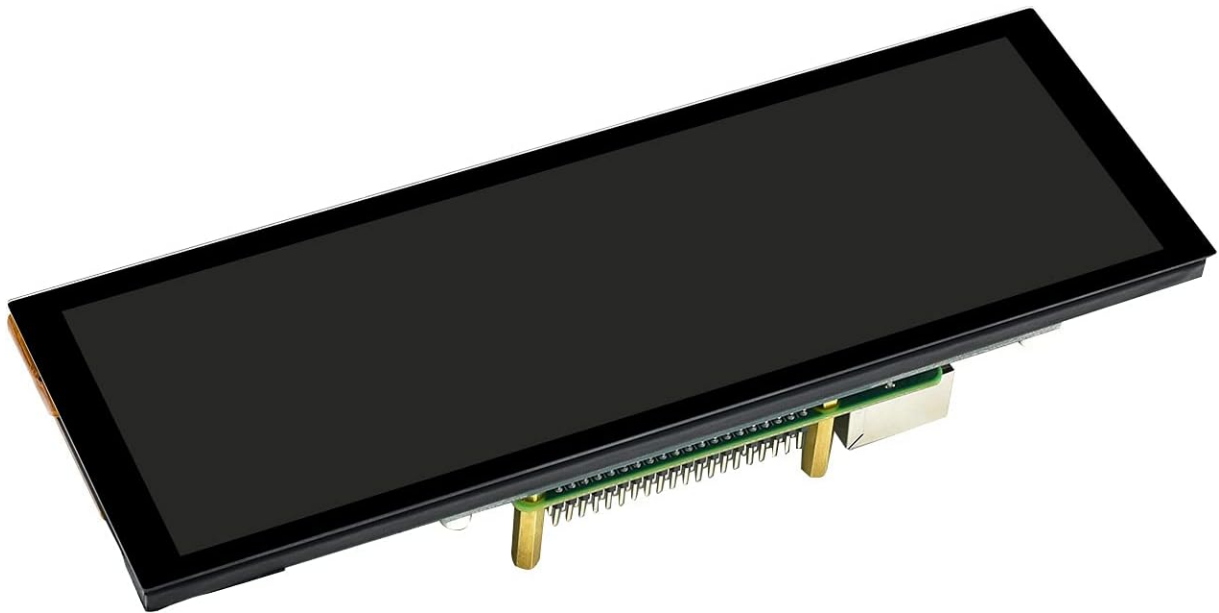


Image 1: Front view of the Waveshare 7.9-inch Capacitive Touch Screen LCD Monitor.

2. FEATURES

- 7.9-inch IPS LCD screen with a hardware resolution of 400x1280 pixels.

- Capacitive touch control for intuitive interaction.
- Supports Raspbian, Ubuntu, Kali, and RetroPie with Raspberry Pi (driver-free).
- Functions as a computer monitor with Windows 10/8.1/8/7, offering five-point touch (driver-free).
- Includes 3.5mm audio jack for HDMI audio output.
- Toughened glass cover for enhanced durability.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 7.9inch HDMI LCD x1
- HDMI cable x1
- USB A to MicroB cable x1
- HDMI Adapter (B) x1
- USB Adapter (B) x1
- HDMI Adapter (C) x1
- USB Adapter (C) x1
- Screws pack x1

4. SPECIFICATIONS

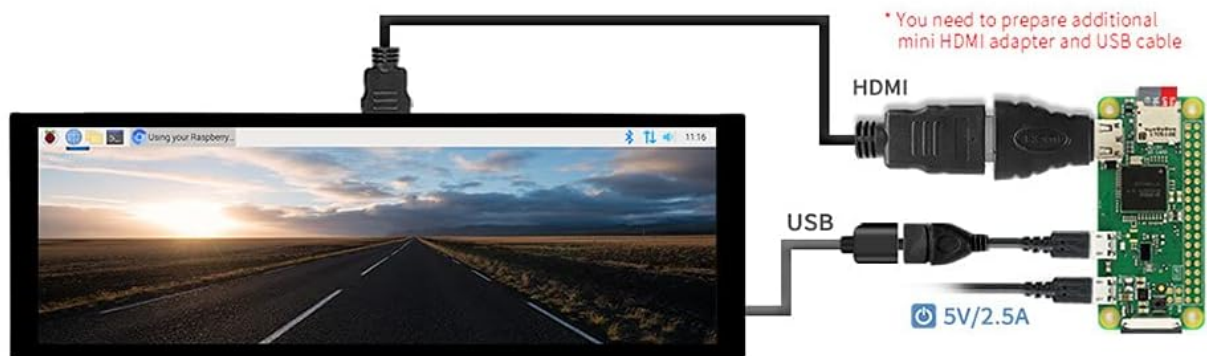
Specification	Value
Brand	Waveshare
Screen Size	7.9 Inches
Screen Surface Description	Glossy
Special Feature	Touchscreen
Connectivity Technology	HDMI, USB
Screen Finish	Glossy
Model Number	7.9inch HDMI LCD
UPC	761722109180
Manufacturer	TOP1
Total Number of HDMI Ports	1
Total USB Ports	1
Additional Features	Touchscreen
Mounting Type	Wall Mount
Item Weight	0.38 Kilograms
Native Resolution	1280 x 800 pixels (Note: Default is 400x1280 portrait)
Hardware Connectivity	HDMI, USB

5. SYSTEM COMPATIBILITY

The Waveshare 7.9-inch LCD monitor offers broad compatibility:

- **Raspberry Pi:** Supports Raspbian (5-point touch, driver-free), Ubuntu/Kali/WIN10 IoT (single-point touch, driver-free), and RetroPie (driver-free). Compatible with all versions of Raspberry Pi.
- **Jetson Nano:** Supports Ubuntu (single-point touch, driver-free).
- **PC:** Supports Windows 10/8.1/8/7 (5-point touch, driver-free).

Working With Raspberry Pi Zero W



Working With AI Computer Jetson Nano



Working With Mini PC



Image 2: Connection examples for Raspberry Pi Zero W, Jetson Nano, and Mini PC.

6. SETUP INSTRUCTIONS

Follow these steps to set up your Waveshare 7.9-inch LCD monitor:

1. Physical Connection:

- Connect the display to your host device (Raspberry Pi, Jetson Nano, or PC) using the provided HDMI cable for video output.
- Connect the display to your host device using the provided USB A to MicroB cable for touch functionality and power. Ensure the USB connection provides sufficient power.
- For Raspberry Pi, use the appropriate HDMI and USB adapters (B or C) as needed for your specific Pi model.

Hookup Example

Working With Raspberry Pi 4



Image 3: Example of connecting the display to a Raspberry Pi 4.

2. **Power On:** Once connected, power on your host device. The display should automatically turn on and show the output.
3. **Driver Installation (if necessary):** For most supported systems (Raspberry Pi, Jetson Nano, Windows), the display and touch functions are driver-free. If you encounter issues, refer to the Waveshare official documentation for specific driver or configuration details for your operating system.

The back of the display features various ports and controls:

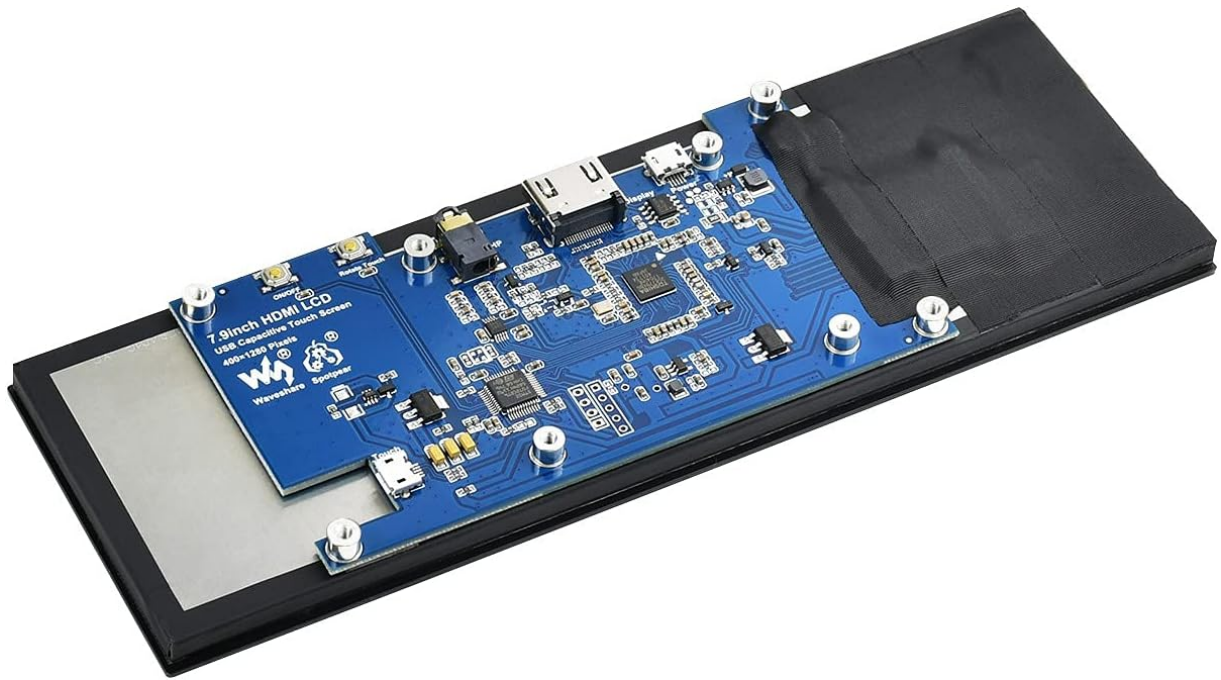
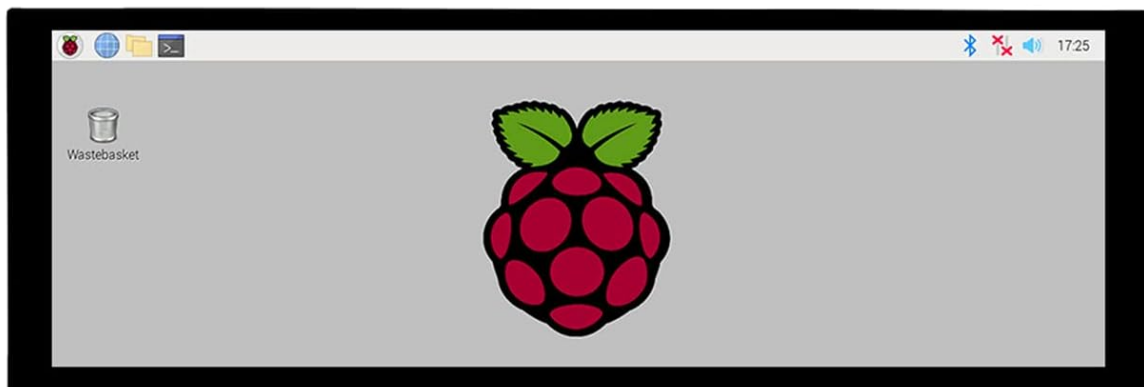

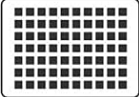
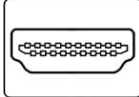









Image 4: Rear view of the display highlighting the HDMI port, USB touch/power port, audio jack, and control buttons.

7.9" HDMI Touch Display



Size  7.9"	Resolution  400×1280	Display Port  HDMI	Display Panel  IPS	Viewing Angle  170°
Touch Type  Capacitive	Touch Points  5-Points	Touch Port  USB	Touch Panel  Toughened Glass	Audio Output  3.5mm Jack

The display orientation is portrait by default, 400×1280 resolution (H×V). Change the software config for landscape display.

Image 5: Labeled diagram of the display's ports and buttons, including On/Off & Brightness Adjustment, Rotate Touch Orientation, Audio Jack, HDMI Port, Power Port, and Touch Port.

7. OPERATION

The display offers capacitive touch control and adjustable orientation.

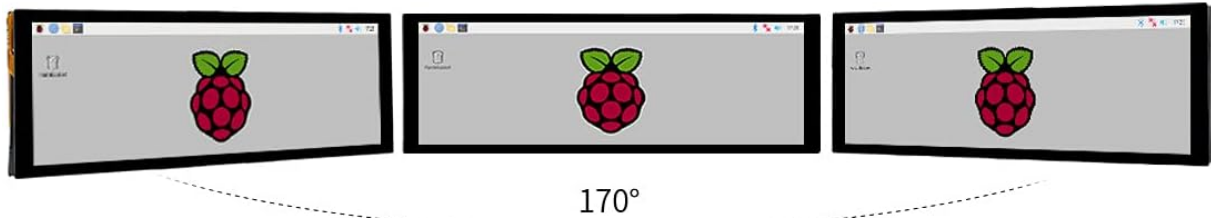
- **Touch Control:** The display supports capacitive touch. For Windows, it supports five-point touch. For

Raspberry Pi and Jetson Nano, it typically supports single-point touch, with Raspbian supporting five-point touch.




- **Audio Output:** The display supports HDMI audio output via its 3.5mm audio jack.

Display

IPS Panel



Touch Control

 Capacitive Touch  Up To 5-Points Touch¹⁾  Toughened Glass Panel²⁾



1) up to 5-points touch, depending on the operating system. 2) up to 6H hardness toughened glass panel.

Image 6: Visual representation of the 170-degree IPS viewing angle and capacitive touch capabilities.

Your browser does not support the video tag.

Video 1: Demonstration of the 7.9-inch Capacitive Touch Screen LCD in use with Raspberry Pi and Jetson Nano, showcasing touch functionality and display features.

8. DISPLAY ORIENTATION CONFIGURATION

The display orientation is portrait by default (400x1280 HxV). To change to landscape mode, you will need to modify the software configuration on your host device. Refer to the operating system's documentation or Waveshare's official wiki for specific instructions on how to adjust display orientation for your system (e.g., editing `config.txt` for Raspberry Pi).

The touch orientation can be adjusted using a physical button on the display's control board, as indicated in Image 5.

9. TROUBLESHOOTING

- **No Display:** Ensure both HDMI and USB cables are securely connected. Verify the host device is powered on and outputting video. Try a different HDMI port or cable if available.

- **No Touch Functionality:** Confirm the USB cable is connected to both the display and the host device. Ensure the host device's operating system supports touch input and that no conflicting drivers are installed.
- **Incorrect Display Orientation:** Adjust the software configuration on your host device for display orientation. Use the physical button on the display to rotate touch orientation if needed.
- **Flickering Screen:** Check power supply to both the display and the host device. Ensure cables are not damaged.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please refer to the official Waveshare website or contact their customer service directly. Keep your purchase receipt for warranty claims.