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## waveshare 4.3inch HDMI LCD (B)

# Waveshare 4.3-inch Capacitive Touch Screen LCD User Manual

Model: 4.3inch HDMI LCD (B)

## 1. INTRODUCTION

This user manual provides comprehensive instructions for the Waveshare 4.3-inch Capacitive Touch Screen LCD. This display is designed for versatility, offering compatibility with various devices including Raspberry Pi, Jetson Nano, and Windows PCs. It features an 800x480 resolution IPS panel with capacitive touch functionality, making it suitable for a wide range of applications from embedded systems to desktop extensions.



Image: The Waveshare 4.3-inch Capacitive Touch Screen LCD, showcasing its compact size and touch interface.

## 2. PACKAGE CONTENT

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact Waveshare support.

# Package Content

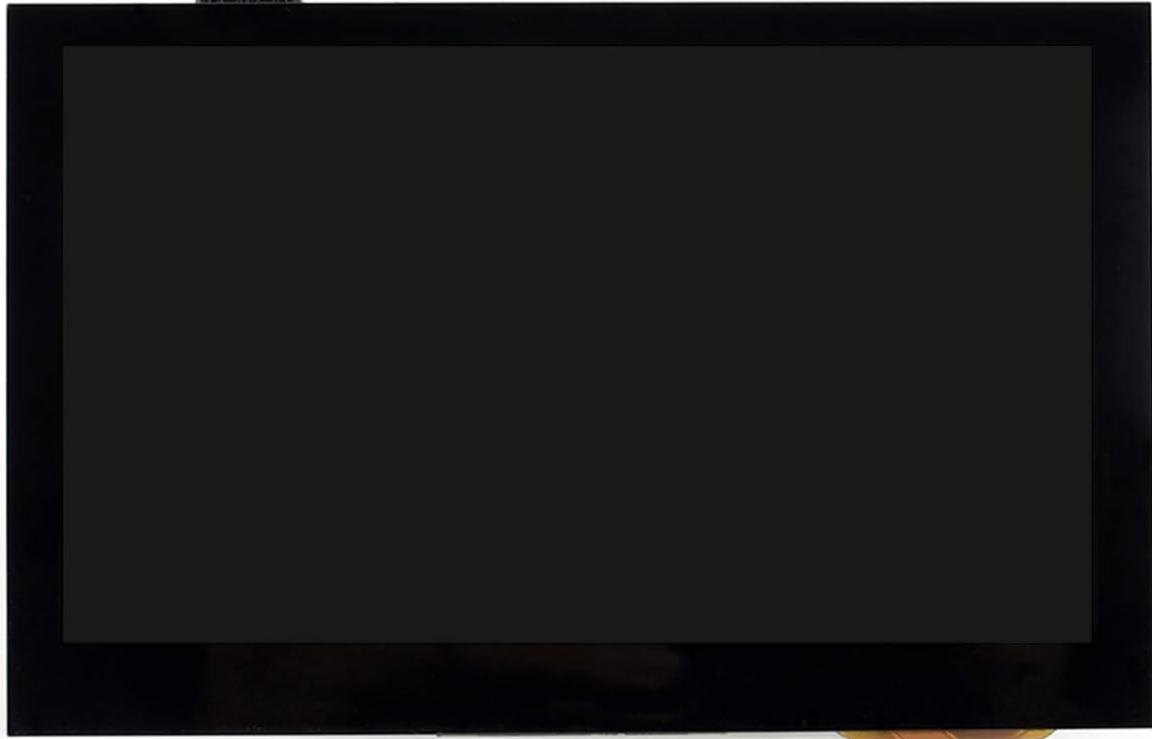


Image: Contents of the Waveshare 4.3-inch LCD package, including the display, HDMI cable, USB cable, and adapters.

- 4.3inch HDMI LCD (B)
- HDMI Cable
- USB Type A to Micro B Cable
- HDMI to Micro HDMI Adapter
- HDMI to HDMI Adapter
- Screws pack (for mounting)

## 3. SPECIFICATIONS AND FEATURES

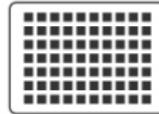
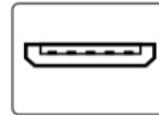
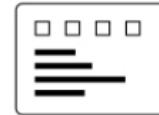
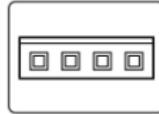
<b>Size</b> 	<b>Resolution</b> 	<b>Display Interface</b> 	<b>Display Panel</b> 	<b>Viewing Angle</b> 
4.3"	800×480	HDMI	IPS	160°
<b>Touch Type</b> 	<b>Touch Points</b> 	<b>Touch Port</b> 	<b>OSD Menu</b> 	
Capacitive	5-Points	USB	Brightness/Contrast	
<b>Audio Output1</b> 	<b>Audio Output2</b> 	<b>Gaming</b> 	<b>Certification</b> 	
3.5mm Jack	4PIN Header	Xbox360/PS4/Switch	CE	

Image: Detailed specifications and features of the 4.3-inch HDMI Touch Display.

## Display Specifications

Feature	Description
Screen Size	4.3 inches
Resolution	800 × 480 hardware resolution
Display Panel	IPS
Viewing Angle	160°
Touch Type	Capacitive, 5-points touch (depending on OS)
Touch Port	USB
Display Interface	HDMI
Audio Output	3.5mm Jack, 4PIN Header (for speaker connection)
OSD Menu	Multi-language, for power management, brightness/contrast adjustment, etc.
Power Input	5V DC

## 4. DEVICE AND SYSTEM SUPPORT

The display offers broad compatibility with various computing platforms:

## Device & System Support



### Raspberry Pi

Supports Raspbian, 5-points touch, driver free

Supports Ubuntu / Kali / WIN10 IoT, single point touch, driver free

Supports Retropie, driver free

**Supports all versions of Raspberry Pi**



### Jetson Nano

Supports Ubuntu, single point touch, driver free

### PC

Supports Windows 11 / 10 / 8.1 / 8 / 7, 5-points touch, driver free

### Game Console

Xbox360, PS4, Switch...

Image: Overview of compatible devices and operating systems, including Raspberry Pi, Jetson Nano, and Windows PCs.

- **Raspberry Pi:** Supports all versions of Raspberry Pi.
  - Supports Raspberry Pi OS, 5-points touch, driver free.
  - Supports Ubuntu / Kali / WIN10 IoT, single point touch, driver free.
  - Supports Retropie, driver free.
- **Jetson Nano:** Supports Ubuntu, single point touch, driver free.
- **PC:** Supports Windows 11 / 10 / 8.1 / 8 / 7, 5-points touch, driver free.
- **Game Console:** Supports Xbox360, PS4, Switch (Display and Sound Only).

## 5. SETUP AND CONNECTION

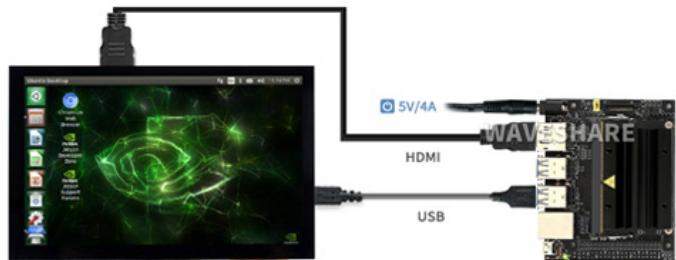
Follow these steps to connect your Waveshare 4.3-inch LCD to your device. Connection methods may vary slightly depending on your host device.

## Connection Examples

Working With Raspberry Pi 4



Working With AI Computer Jetson Nano



Working With Raspberry Pi Zero W



Working With Mini PC

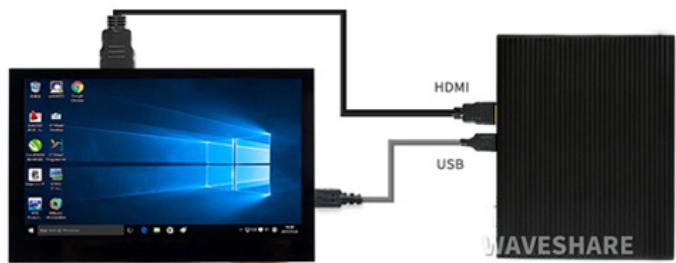


Image: Visual examples of connecting the display to Raspberry Pi 4, Raspberry Pi Zero W, Jetson Nano, and a Mini PC.

### 5.1. General Connection Steps

1. Connect the HDMI port of the display to the HDMI output of your host device using the provided HDMI cable or adapter.
2. Connect the USB touch port of the display to a USB port on your host device using the provided USB cable. This provides power to the display and enables touch functionality.
3. Ensure your host device is powered on. The display should automatically detect the video signal and power on.

### 5.2. Specific Connection Notes

- **For Raspberry Pi 4:** Use the provided HDMI to HDMI cable and USB cable. The display can be powered directly from the Raspberry Pi's USB port.
- **For Raspberry Pi Zero W:** An additional Mini HDMI to HDMI adapter and USB cable may be required (not included in standard package).
- **For Jetson Nano / Mini PC:** Connect via HDMI for video and USB for touch and power. Ensure adequate power supply for the Jetson Nano (e.g., 5V/4A).

## 6. OPERATING INSTRUCTIONS

### 6.1. Touch Control

The display features a capacitive touch screen supporting up to 5-points touch, depending on the operating system. No additional drivers are typically required for touch functionality on supported systems.

## Display

IPS Panel



Image: Demonstration of touch control on the display, showing interaction with a graphical user interface.

### 6.2. OSD Menu Navigation

The On-Screen Display (OSD) menu allows for various adjustments to the display settings. Use the physical buttons on the side of the display to navigate the OSD menu.

- **Menu Button:** Enters the OSD menu or confirms a selection.
- **Up/Left Button:** Navigates up or left in the menu, or increases a value.
- **Down/Right Button:** Navigates down or right in the menu, or decreases a value.
- **Return/Exit Button:** Goes back to the previous menu or exits the OSD menu.
- **Power Button:** Turns the display on/off.

Common OSD settings include brightness, contrast, color temperature, aspect ratio, and input source selection.

### 6.3. Gaming

The display can be used with game consoles like Xbox360, PS4, and Nintendo Switch for display and sound output. Connect the console via HDMI.

## Touch Control

## Enjoy Gaming

 Capacitive Touch

 Up To 5-Points Touch<sup>1)</sup>



Supports Xbox360/PS4/SWITCH... (Display and Sound Only)



1) up to 5-points touch, depending on the operating system.

Image: The display showing a game, demonstrating its capability for gaming applications.

## 7. APPEARANCE AND DIMENSIONS

Refer to the diagram below for the physical layout and dimensions of the display board, including port locations and button functions.

Appearance And Dimensions

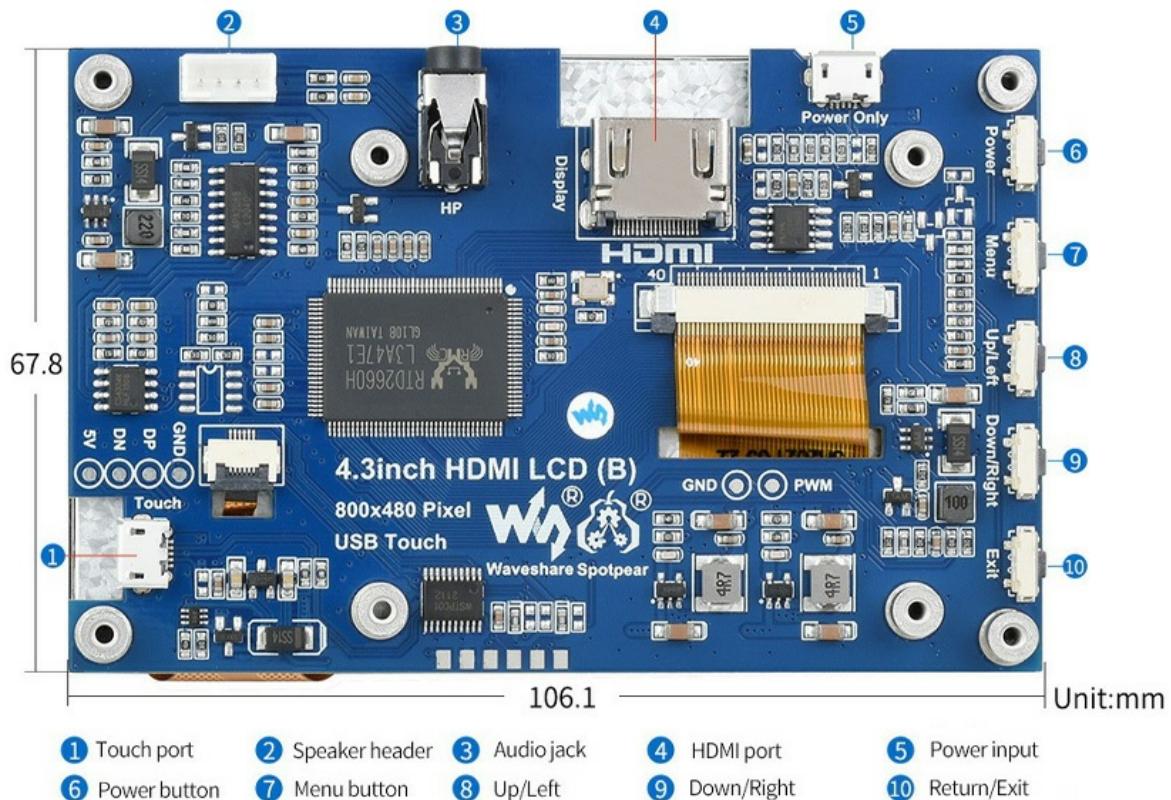


Image: Technical diagram showing the dimensions (in mm) and labeled components of the 4.3-inch HDMI LCD (B) board.

## Board Components Overview

No.	Component
1	Touch port
2	Speaker header
3	Audio jack (HP)
4	HDMI port
5	Power input
6	Power button
7	Menu button
8	Up/Left button
9	Down/Right button
10	Return/Exit button

Dimensions: Approximately 106.1mm (width) x 67.8mm (height).

## 8. TROUBLESHOOTING

- **No Display / Black Screen:**

- Ensure the HDMI cable is securely connected to both the display and the host device.
- Verify the host device is powered on and outputting video.
- Check the power connection to the display. The display requires 5V power, typically supplied via the USB connection.
- If using Raspberry Pi, ensure the `config.txt` file is correctly configured for the display resolution (800x480). Refer to Waveshare's online user manual for specific `config.txt` settings.

- **Touch Not Working:**

- Ensure the USB cable is connected from the display's touch port to a USB port on your host device.
- For some Linux distributions (e.g., older versions of Ubuntu/Kali), specific drivers or calibration might be needed, though it's generally driver-free. Refer to Waveshare's online resources.
- On Windows, ensure touch screen drivers are correctly installed (usually automatic).

- **Flickering / Unstable Display:**

- Ensure the power supply to the host device and the display is stable and sufficient.
- Try a different HDMI cable.

- **No Audio:**

- Ensure the 3.5mm audio jack or speaker header is correctly connected.
- Verify that the audio output is selected correctly on your host device (e.g., HDMI audio output).
- Note that the display's built-in audio output quality may be basic; external speakers are recommended for better sound.

For more detailed troubleshooting and specific software configurations, please refer to the official Waveshare online user manual: [User Guide \(PDF\)](#).

## 9. WARRANTY AND SUPPORT

Waveshare products are designed for reliability and performance. For warranty information and technical support, please visit the official Waveshare website or contact their customer service directly.

- **Official Waveshare Store:** [Visit Waveshare Store on Amazon](#)
- **Online User Manual:** [Download PDF User Guide](#)
- **Contact:** Refer to the Waveshare website for contact details for technical support and customer service.

## 10. PRODUCT CERTIFICATION

This product is HDMI Certified, ensuring compliance with HDMI standards for high-definition multimedia interfacing.

4.3" HDMI Touch Display

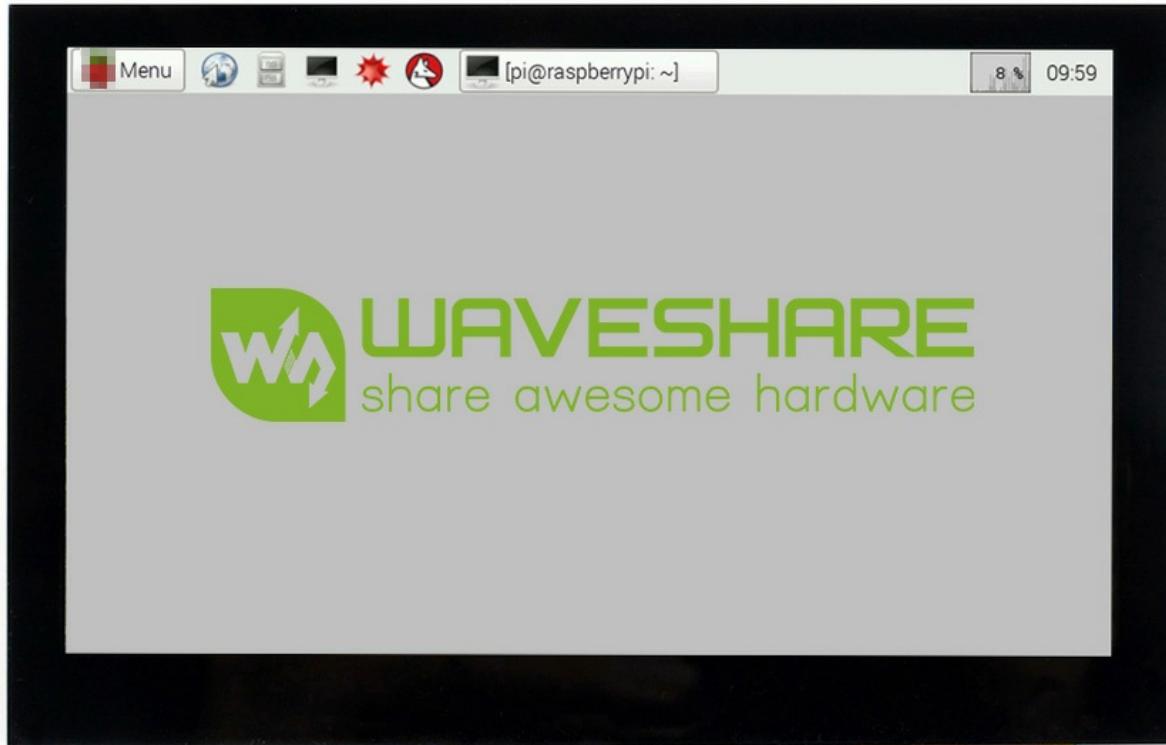
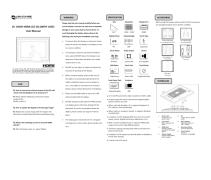


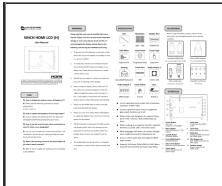
Image: Certificate indicating HDMI certification for the adapter, issued to Shenzhen Weixue Electronics Co. Ltd.

For verification of the HDMI certification, please visit the official HDMI Licensing Administrator website and use the provided QR code or link: [HDMI Certification Verification](#).

	<p><a href="#"><u>Waveshare 10.1-inch HDMI LCD (G) User Manual: Setup, Specs, and Connections</u></a></p> <p>Explore the Waveshare 10.1-inch HDMI LCD (G) with Case. This user manual covers essential specifications, safety warnings, connection guides for Raspberry Pi, Jetson Nano, and PCs, and answers common questions.</p>
	<p><a href="#"><u>Waveshare 4.3inch DSI LCD: Capacitive Touch Display for Raspberry Pi</u></a></p> <p>Explore the Waveshare 4.3inch DSI LCD, an 800x480 IPS capacitive touch display designed for Raspberry Pi. Features MIPI DSI interface, driver-free setup, and software-controlled backlight.</p>







### [Waveshare 5-inch HDMI LCD \(H\) User Manual: Setup and Connection Guide](#)

Comprehensive user manual for the Waveshare 5-inch HDMI LCD (H) display. Learn how to connect, configure, and use this 800x480 capacitive touchscreen with Raspberry Pi, Jetson Nano, and PCs. Includes specifications, accessories, and troubleshooting tips.

### [Waveshare 10.4HP-CAPQLED: 10.4-inch QLED Touchscreen Display \(1600x720\)](#)

Discover the Waveshare 10.4HP-CAPQLED, a versatile 10.4-inch QLED capacitive touchscreen with 1600x720 resolution. This display is compatible with Raspberry Pi, Jetson Nano, and PCs, offering excellent visual performance and multi-touch capabilities via HDMI and USB.

## Support