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- > Waveshare 5.5-inch Capacitive Touch AMOLED Display User Manual for Raspberry Pi 4B

#### waveshare 5.5inch HDMI AMOLED

# Waveshare 5.5-inch Capacitive Touch AMOLED Display User Manual

Model: 5.5inch HDMI AMOLED

#### 1. Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your Waveshare 5.5-inch Capacitive Touch AMOLED Display. This high-resolution display features a 1080x1920 pixel AMOLED panel with 5-point capacitive touch control, protected by a toughened glass panel. It is designed for use with Raspberry Pi 4B and can also function as a general computer monitor.

### 2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any components are missing or damaged, please contact customer support.

Figure 2.1: Included components of the Waveshare 5.5-inch AMOLED Display kit.

- 5.5-inch HDMI AMOLED Display
- Protective Case (A)
- Cooling Fan
- HDMI Adapter
- USB Adapter
- Screw Pack (various sizes for assembly)

# 3. PRODUCT FEATURES AND SPECIFICATIONS

The Waveshare 5.5-inch AMOLED Display offers advanced features for a superior visual and interactive experience.

Figure 3.1: Overview of display features.

• Screen Size: 5.5 inches

• Resolution: 1080x1920 pixels (H×V), portrait by default

Display Panel: AMOLEDDisplay Interface: HDMI

• Touch Type: 5-point Capacitive Touch

• Touch Panel: Toughened Glass, up to 6H hardness

• Viewing Angle: 170°

• Audio Output: 3.5mm audio jack, supports HDMI audio output

Power Input: 5 VoltsItem Weight: 13.5 ounces

• Package Dimensions: 9.17 x 6.57 x 2.83 inches

#### 4. SETUP AND INSTALLATION

## 4.1 System Compatibility

The display is compatible with various operating systems, primarily for Raspberry Pi and as a secondary monitor for Windows systems.

Figure 4.1: Supported devices and operating systems.

- When used with Raspberry Pi: Supports Raspberry Pi OS, Ubuntu, Kali, and Retropie. For Raspberry Pi OS, 5-point touch is supported. For Ubuntu/Kali, single-point touch is supported. All are driver-free.
- When used as a computer monitor: Supports Windows 11/10/8.1/8/7.
- Important Note: This display is specifically designed for use with Raspberry Pi 4B only.

### 4.2 Connection Examples

Follow these steps to connect the display to your Raspberry Pi 4B.

Figure 4.2: Connection to Raspberry Pi 4B.

- 1. Assemble the protective case around the display and Raspberry Pi 4B, ensuring the cooling fan is properly installed.
- 2. Connect the HDMI adapter from the display to the HDMI port on the Raspberry Pi 4B.
- 3. Connect the USB adapter from the display's USB port to a USB port on the Raspberry Pi 4B. This provides power to the display and enables touch functionality.
- 4. Ensure a stable 5V/3A power supply is connected to the Raspberry Pi.

**Caution:** The glass panel of the AMOLED display is fragile without its enclosure. Exercise extreme care when handling. Always hold the Printed Circuit Board Assembly (PCBA) when plugging or unplugging HDMI and USB cables to prevent undue pressure on the glass panel.

## 5. OPERATING INSTRUCTIONS

## **5.1 Display Orientation**

The display's native resolution is 1080x1920, which means it operates in portrait mode by default. To change the display orientation to landscape, you will need to adjust the software configuration on your Raspberry Pi or connected computer. Refer to the operating system's display settings for specific instructions.

Figure 5.1: Display viewing angles.

#### **5.2 Touch Control**

The display features a 5-point capacitive touch screen, allowing for multi-touch gestures. The number of supported touch points may vary depending on the operating system used.

Figure 5.2: Demonstrating 5-point touch control.

# 6. APPEARANCE AND DIMENSIONS

Understanding the physical layout and dimensions of the display is important for integration into projects.

Figure 6.1: Physical dimensions and component layout.

- Overall Dimensions: Approximately 144.26mm (width) x 78.66mm (height) x 33.30mm (depth, including case).
- **Key Components:** Includes a cooling fan vent for heat dissipation and clearly marked Raspberry Pi connectors for easy integration.

# 7. TROUBLESHOOTING

If you encounter issues with your display, consider the following general troubleshooting steps:

- **No Display:** Ensure all HDMI and USB connections are secure. Verify the Raspberry Pi is powered on and outputting video. Check the display's power connection.
- **No Touch Functionality:** Confirm the USB connection for touch is properly established. Ensure your operating system drivers are correctly configured (though most are driver-free, specific OS versions might require adjustments).
- Incorrect Display Orientation: Adjust the display settings within your operating system's configuration.
- Flickering or Distorted Image: Check HDMI cable integrity. Ensure the power supply to the Raspberry Pi is sufficient and stable.

## 8. SUPPORT

For further technical support, detailed documentation, or warranty information, please visit the official Waveshare website or contact their customer service department. Online user manuals and additional resources are typically available on the manufacturer's product page.

Waveshare Official Website: www.waveshare.com

# Related Documents - 5.5inch HDMI AMOLED

\$1000 E	Waveshare 10.1-inch HDMI LCD (G) User Manual: Setup, Specs, and Connections
	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.
	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.



# Waveshare 7-inch HDMI LCD (C) User Manual: Setup and Usage Guide

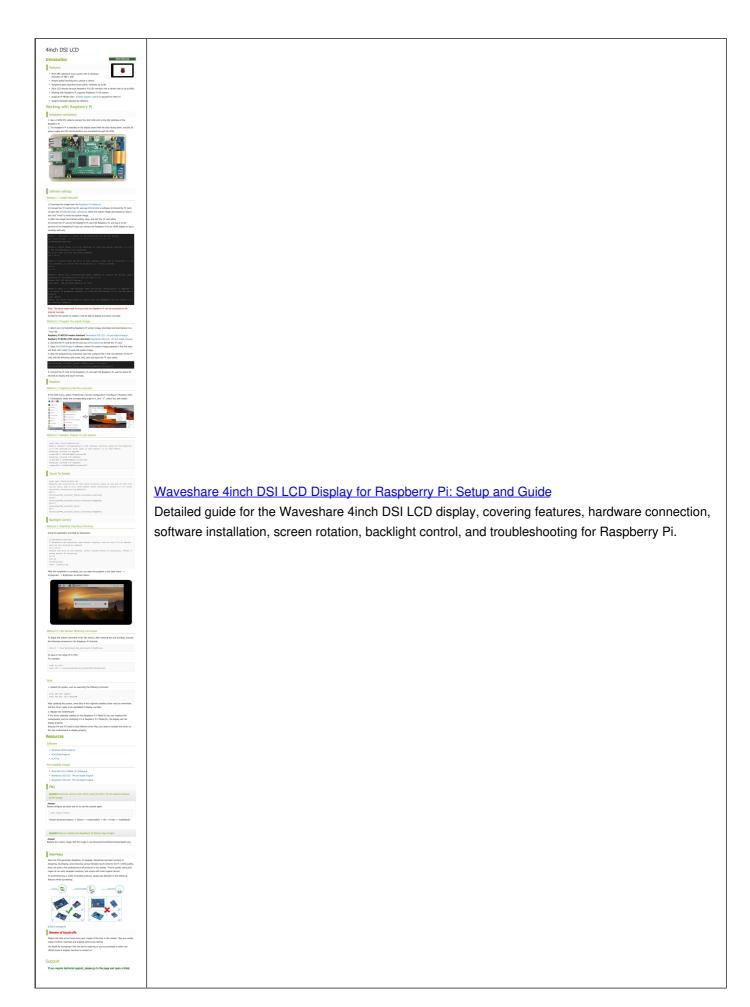
This user manual guides users through the setup and operation of the Waveshare 7-inch HDMI LCD (C) display, detailing its specifications, connection methods for Raspberry Pi and PCs, and essential usage tips for optimal performance.

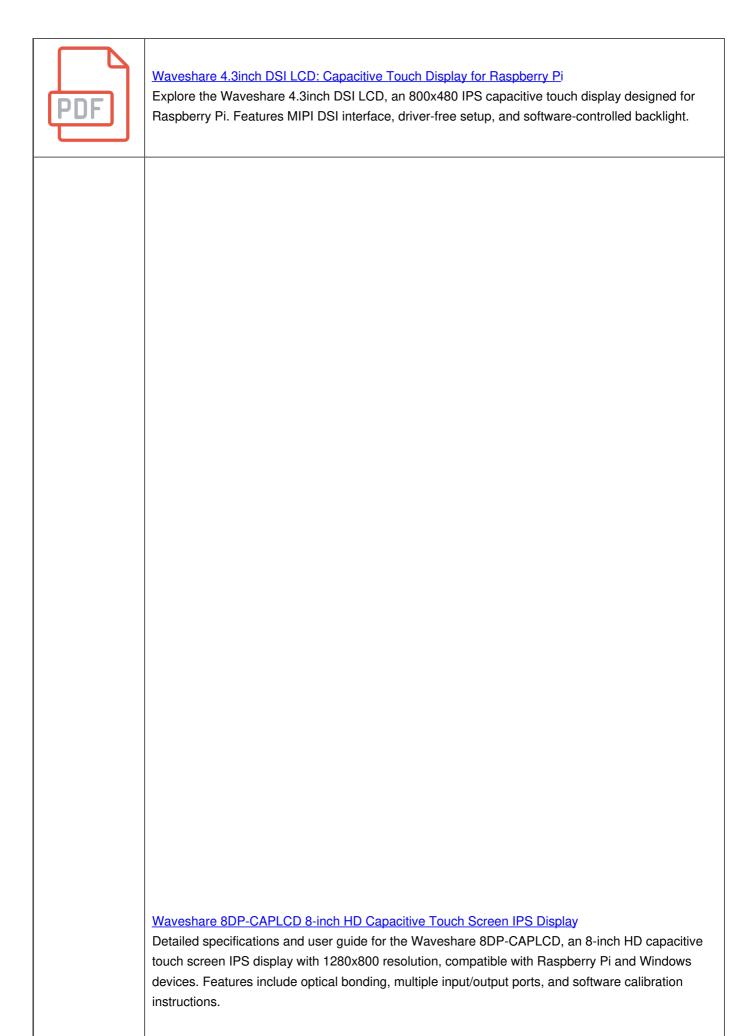


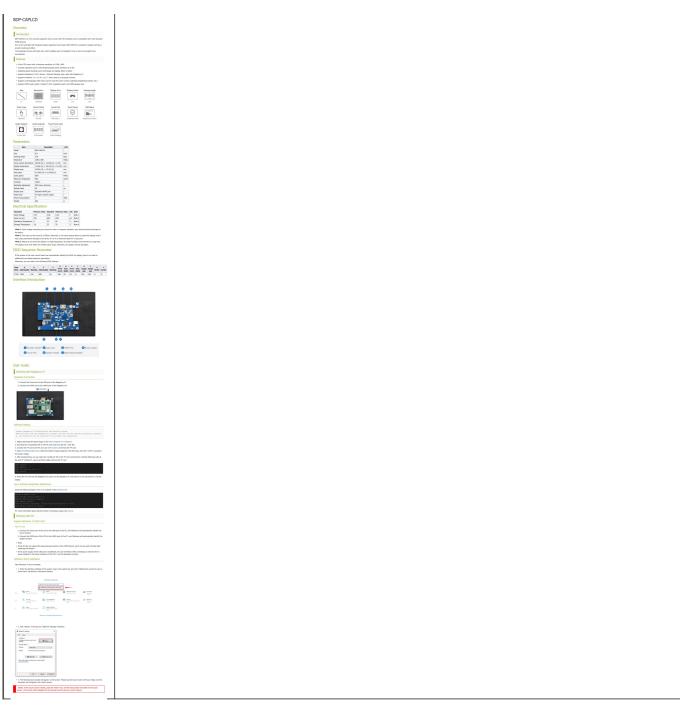
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