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> [Waveshare 4-inch HDMI LCD IPS Resistive Touch Screen User Manual](#)

waveshare 4inch HDMI LCD

Waveshare 4-inch HDMI LCD IPS Resistive Touch Screen User Manual

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and troubleshooting of your Waveshare 4-inch HDMI LCD IPS Resistive Touch Screen. This display is designed for use with various Raspberry Pi models and can also function as a general computer HDMI monitor.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 4-inch HDMI LCD x 1
- HDMI connector x 1
- Touch pen x 1
- RPi screws pack (4pcs) x 1
- Quick start sheet x 1

3. FEATURES

- **High Resolution Display:** Features an 800x480 hardware resolution on a 4-inch IPS screen, providing clear visuals and wide viewing angles.
- **Resistive Touch Control:** Equipped with resistive touch technology for interactive use, including a dedicated touch pen.
- **Raspberry Pi Compatibility:** Direct-connect compatible with most Raspberry Pi revisions (excluding Pi 1 Model B or Pi Zero, which require an HDMI cable).
- **Versatile Monitor Functionality:** Can be used as a standard computer HDMI monitor. Note that touch functionality is not available in this mode, and an HDMI cable is required.
- **Driver Support:** Drivers are provided for various operating systems including Raspbian, Ubuntu, Kali, and Retropie.
- **Adjustable Backlight:** The display backlight can be turned off to reduce power consumption.
- **HDMI Interface:** Utilizes an HDMI interface for display output, minimizing I/O requirements for video. Touch panel functionality still requires I/O connections.

4. SETUP AND INSTALLATION

4.1 Physical Connection

Connect the 4-inch HDMI LCD to your Raspberry Pi using the provided HDMI connector. For Raspberry Pi 1 Model B or Pi Zero, an external HDMI cable is required. Ensure all connections are secure.



Image: Waveshare 4-inch HDMI LCD connected to a Raspberry Pi, showing its compact size and direct connection capability.

4.2 Driver Installation

The touch functionality of the LCD requires specific drivers. You have two primary methods for installation:

1. **Manual Driver Installation:** Follow the detailed instructions provided in the online development resources.
2. **Using a Ready-to-Use Image:** Utilize a pre-configured operating system image that includes the necessary drivers. This is often the simplest method.

For access to drivers, user manuals, and software, please contact Waveshare support via Amazon message.

4.3 External Dimensions

Refer to the diagram below for the precise external dimensions of the 4-inch HDMI LCD, measured in millimeters.

External Dimension

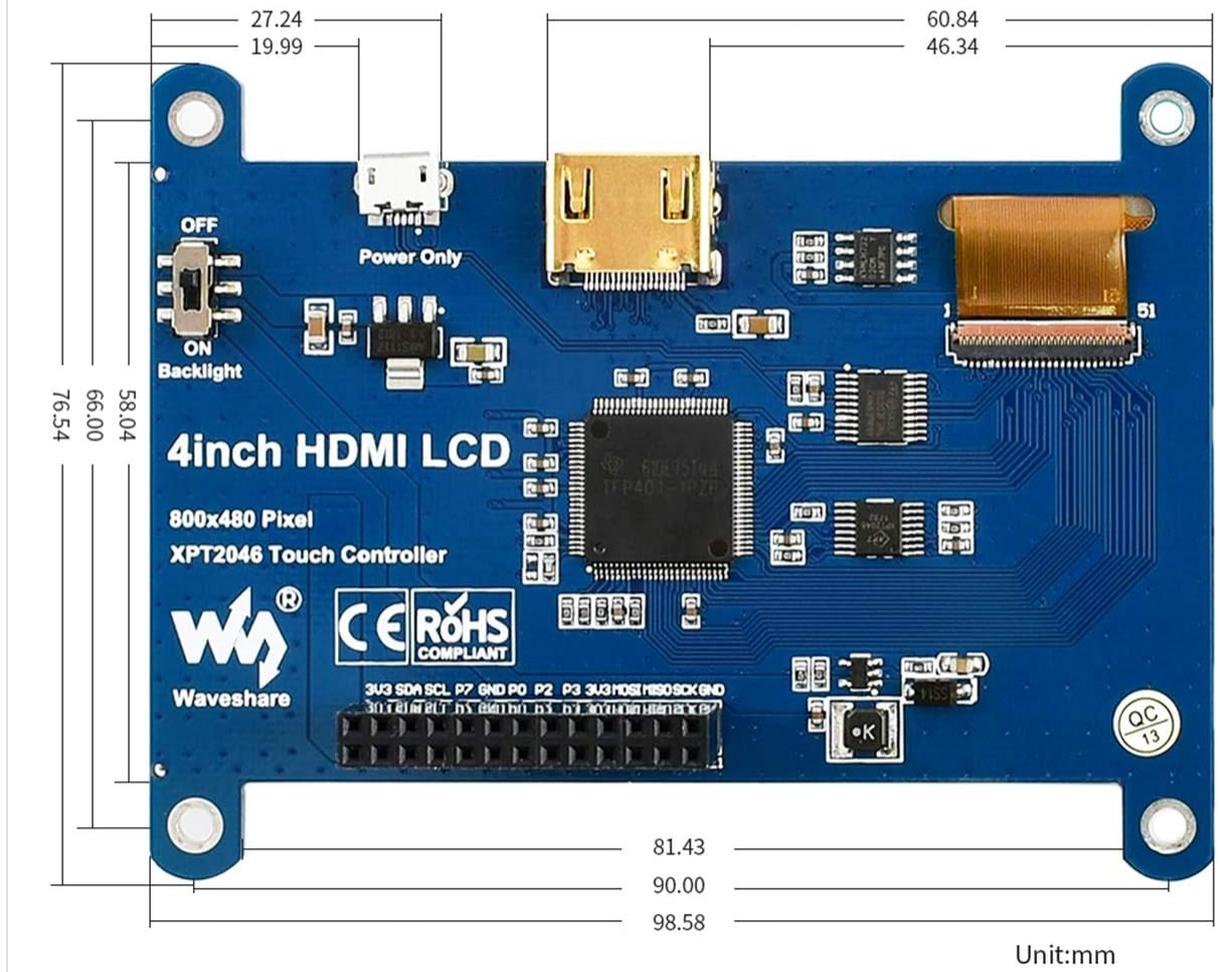


Image: Detailed diagram illustrating the external dimensions of the Waveshare 4-inch HDMI LCD, including mounting holes and port locations.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

Once connected and drivers are installed, the display will function as a primary or secondary monitor for your Raspberry Pi. Use the provided touch pen for resistive touch input.

5.2 Backlight Control

The backlight can be toggled on or off to conserve power. Refer to the quick start sheet or online resources for specific instructions on controlling the backlight.

5.3 Using as a Computer Monitor

When connected to a computer via HDMI, the display functions as a standard monitor. Note that the touch panel is not active in this mode. An HDMI cable is required for this connection.



Image: The Waveshare 4-inch HDMI LCD displaying a Windows desktop, demonstrating its use as a compact computer monitor.

6. TROUBLESHOOTING

6.1 Display Orientation Issues on Windows PC

If the display appears in an incorrect orientation when used with a Windows PC, you can adjust it through the operating system settings:

- Right-click on the desktop.
- Select "Display settings".
- Under "Orientation", choose "Portrait" or the desired orientation.

6.2 Disabling the Rainbow Screen on Raspberry Pi

To disable the rainbow screen that may appear during boot-up on your Raspberry Pi, add the following command to the `/boot/config.txt` file:

```
disable_splash=1
```

6.3 General Issues and Technical Support

For any other issues or technical assistance, please contact Waveshare support. Online development

resources are also available and can be requested from support.

7. SPECIFICATIONS

Feature	Specification
Standing Screen Display Size	4 Inches
Screen Resolution	800x480 (Hardware) / 480x800 (Reported)
Max Screen Resolution	480x800
Wireless Type	Infrared (for touch, if applicable)
Series	Waveshare 4 inch HDMI LCD
Item Model Number	4inch HDMI LCD
Item Weight	3.2 ounces
Product Dimensions (LxWxH)	4.72 x 3.54 x 1.57 inches
Voltage	5 Volts
Aspect Ratio	1.66:1
Screen Surface Description	Glossy

Note on Resolution: While the product is advertised with 800x480 hardware resolution, some system reports may show 480x800, indicating a default portrait orientation. This can typically be adjusted via software settings.

8. WARRANTY AND SUPPORT

Waveshare provides online development resources and technical support for this product. If you encounter any problems or require assistance, please contact Waveshare directly through Amazon message for prompt support. Specific warranty details are subject to the terms and conditions at the point of purchase.