

## waveshare 5.5inch HDMI AMOLED

# Waveshare 5.5-inch Capacitive Touch AMOLED Display User Manual

Model: 5.5inch HDMI AMOLED

## 1. INTRODUCTION

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This manual provides detailed instructions for setting up, operating, and maintaining your Waveshare 5.5-inch Capacitive Touch AMOLED Display. This high-resolution display features a 1080x1920 resolution and 5-point capacitive touch control with a durable tempered glass panel (up to 6H hardness). It is compatible with various Raspberry Pi models (Raspberry Pi OS/Ubuntu/Kali/RetroPie) and can also function as a computer monitor for Windows 11/10/8.1/8/7 systems. It includes a 3.5mm audio jack for HDMI audio output.

## 2. PACKAGE CONTENTS

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

- 1 x Waveshare 5.5-inch HDMI AMOLED Display
- 1 x 3D Printed Case (for Raspberry Pi integration)
- 1 x USB Cable
- 1 x HDMI Cable
- 1 x 5V Cooling Fan
- 1 x Standoffs Pack (various sizes)
- 4 x Adapters (HDMI and USB)
- 1 x Screw Pack

# Package Content



Figure 2.1: Contents of the Waveshare 5.5-inch HDMI AMOLED Display package.

## 3. PRODUCT FEATURES

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- **Display Type:** 5.5-inch AMOLED
- **Resolution:** 1080x1920 (H×V) - *Note: Display orientation is portrait by default. Software configuration is required for landscape display.*
- **Touch Control:** 5-point capacitive touch with tempered glass panel (hardware up to 6H hardness)
- **Interface:** HDMI for display, USB for touch
- **Audio:** 3.5mm audio jack, supports HDMI audio output
- **Compatibility:** Supports Raspberry Pi OS/Ubuntu/Kali/RetroPie when used with Raspberry Pi. Supports Windows 11/10/8.1/8/7 when used as a computer monitor.

## 5.5" Touch AMOLED














<div>Size</div> <div></div> <div>5.5"</div>	<div>Resolution</div> <div></div> <div>1080×1920</div>	<div>Display Interface</div> <div></div> <div>HDMI</div>	<div>Display Panel</div> <div></div> <div>AMOLED</div>	<div>Viewing Angle</div> <div></div> <div>170°</div>	
<div>Touch Type</div> <div></div> <div>Capacitive</div>	<div>Touch Points</div> <div></div> <div>5-Points</div>	<div>Touch Port</div> <div></div> <div>USB</div>	<div>Touch Panel</div> <div></div> <div>Toughened Glass</div>	<div>Audio Output</div> <div></div> <div>3.5mm Jack</div>	<div>Certificate</div> <div></div> <div>CE Certified</div>

Figure 3.1: Key features and specifications of the 5.5-inch Touch AMOLED Display.

## 4. SETUP & INSTALLATION

### 4.1. Raspberry Pi Setup

Follow these steps to set up your display with a Raspberry Pi:

1. **Prepare the TF Card:** Insert the TF card containing your Raspberry Pi OS (e.g., Raspbian) image into your computer.
2. **Configure `config.txt`:** Navigate to the Waveshare Wiki for the 5.5-inch HDMI AMOLED display to find the necessary configuration statements. Open the `config.txt` file located in the BOOT directory of your TF card and paste the copied statements into it. This is crucial for proper display and touch functionality.
3. **Assemble the Display and Raspberry Pi:**
  - Screw the short standoffs onto the display's PCB.
  - Carefully align and place your Raspberry Pi onto the standoffs.
  - Secure the Raspberry Pi using the small screws provided in the standoffs pack.
  - Connect the display interfaces using the provided HDMI adapter (HDMI Adapter ②) and touch interfaces using the USB adapter (USB Adapter ②).
  - Cover the assembly with the provided 3D printed case components (Case ① and Case ③) in order, securing them with screws.
  - Install the 5V cooling fan onto the remaining case housing (Case ②) and fix it with its own screws.
  - Connect the fan to the appropriate pins on your Raspberry Pi (refer to the fan's wiring for correct polarity).
  - Finally, screw the Case ② onto the assembled unit.

4. **Power On:** Connect the power supply to your Raspberry Pi. The display should power on and show the Raspberry Pi OS.

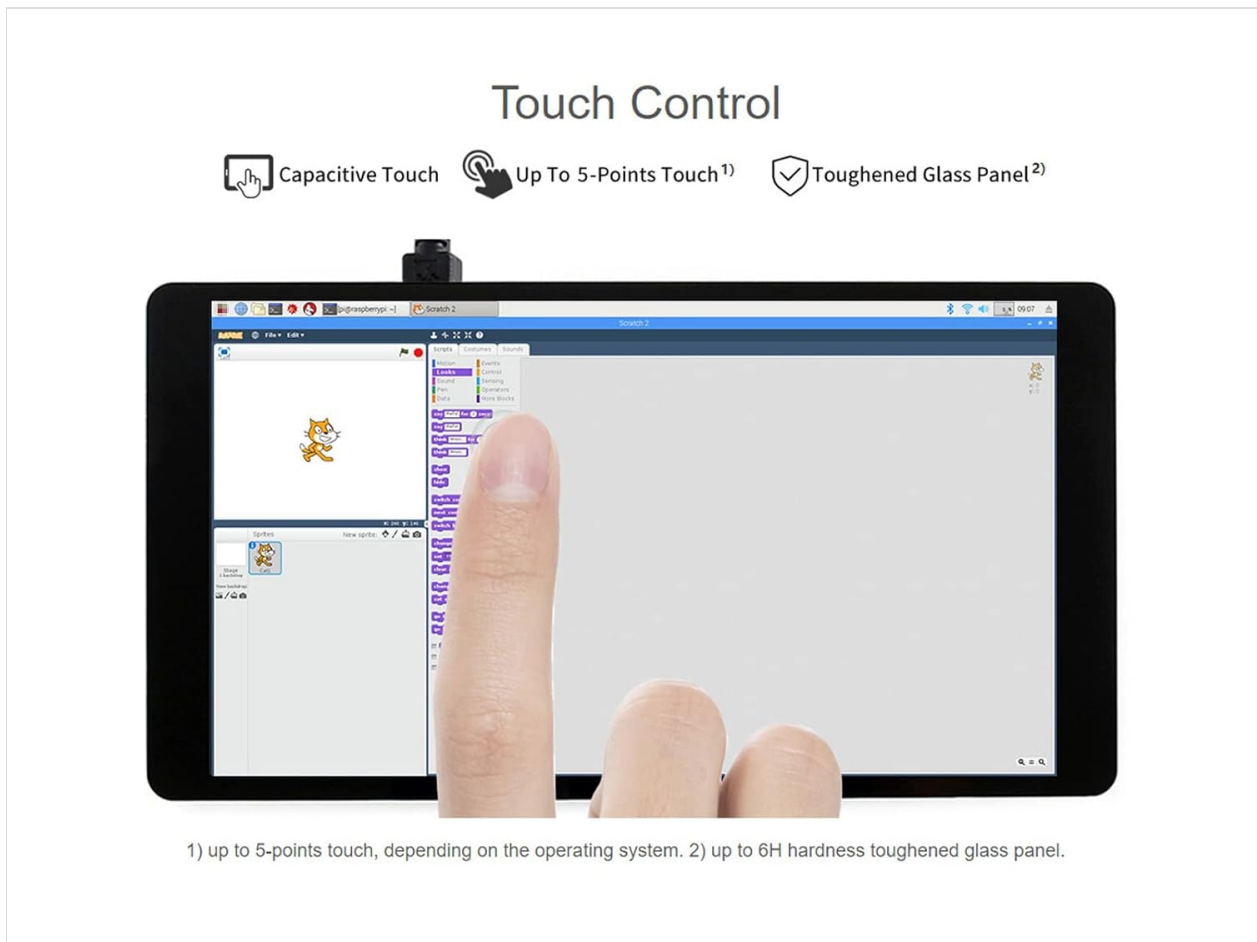



Figure 4.1: Appearance and dimensions of the display board.

## Device & System Support




PI 3A+ PI 3B+ PI 4B PI Zero

**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 PC

**Jetson Nano**

- Supports Ubuntu, single point touch, driver free


**PC**

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

The display orientation is portrait by default, 1080×1920 resolution (H×V). Change the software config for landscape display

## Display

AMOLED Panel



170°

Figure 4.2: Device and system compatibility overview.

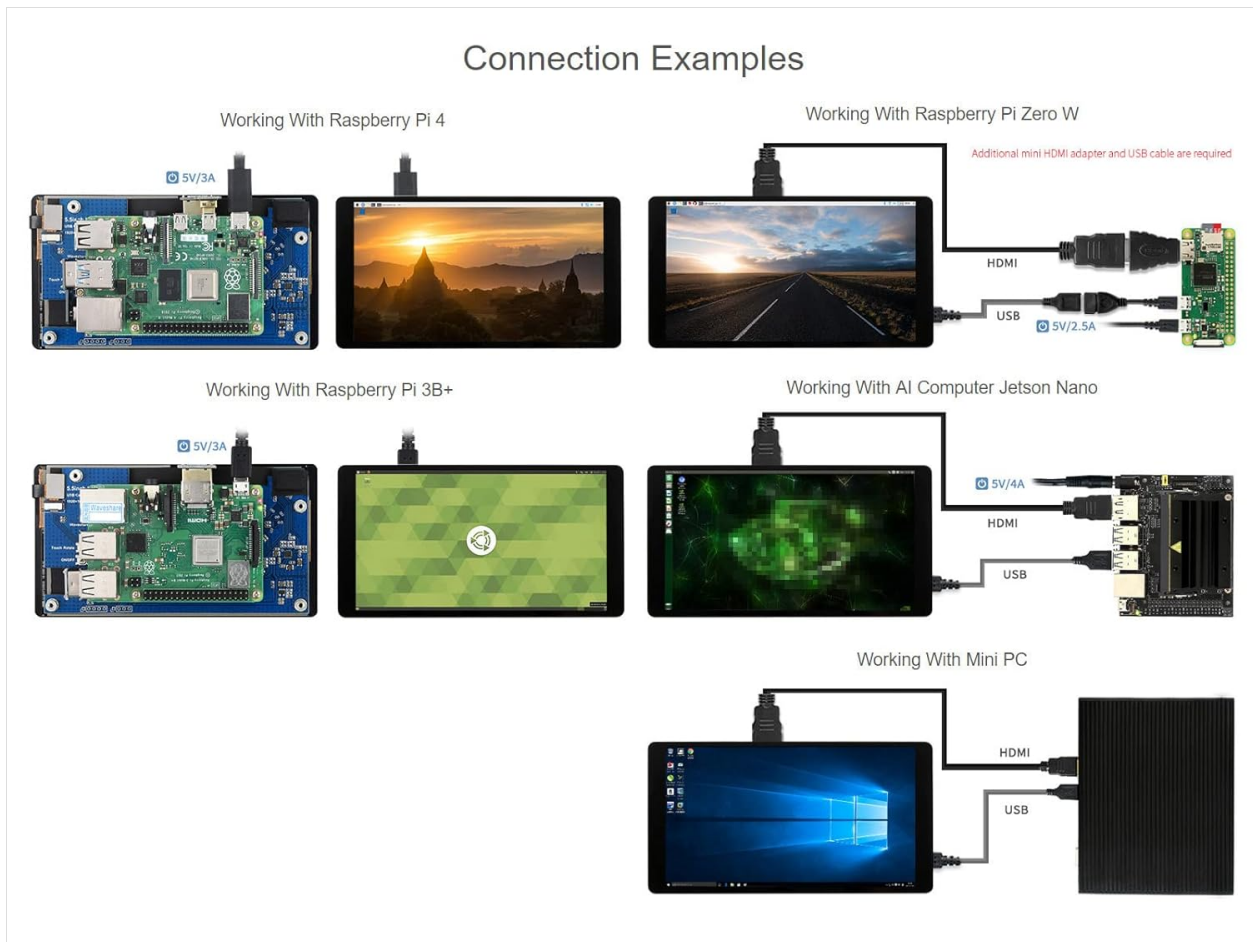


Figure 4.3: Connection examples with different host devices.

## 4.2. PC Setup (Windows)

To use the display with a Windows computer:

1. Connect the display to your computer via the HDMI and USB cables.
2. The display orientation is portrait by default (1080x1920). To change to landscape mode, open your computer's display settings.
3. In the multi-monitor setup option, choose 'extended mode' to use the display as a secondary monitor.
4. Adjust the display mode to landscape for horizontal viewing if desired.

## Appearance And Dimensions

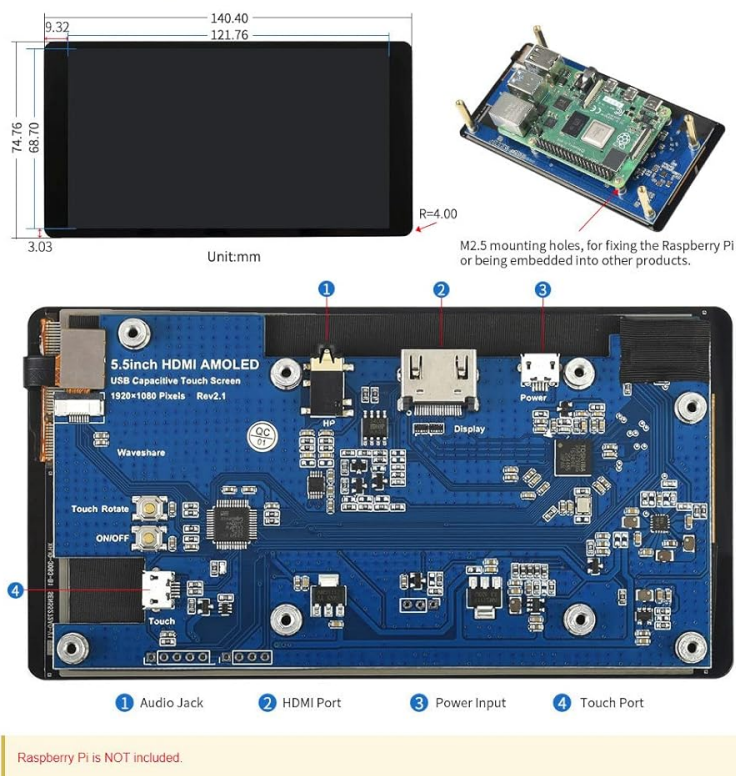


Figure 4.4: Capacitive touch control in action.

Your browser does not support the video tag.

Video 4.1: This video demonstrates the assembly and configuration process for the WaveShare 5.5-inch HDMI AMOLED display, including setup with Raspberry Pi and connection to a computer.

## 5. OPERATING INSTRUCTIONS

Once connected and configured, the WaveShare 5.5-inch AMOLED display operates as a standard display with touch input. For Raspberry Pi, the touch functionality is driver-free for most supported operating systems. For Windows, the 5-point touch control is also plug-and-play.

- **Touch Interaction:** Use your fingers to interact with the screen, similar to a smartphone or tablet. The display supports up to 5-point multi-touch, depending on the operating system.
- **Display Orientation:** As noted, the native resolution is 1080x1920 (portrait). If you require landscape orientation, ensure you have applied the necessary software configuration as detailed in the Raspberry Pi setup section or through your computer's display settings.
- **Audio Output:** Connect headphones or external speakers to the 3.5mm audio jack for sound output from the HDMI source.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your WaveShare 5.5-inch AMOLED Display, please observe the following maintenance guidelines:

- **Handle with Care:** The glass panel of the AMOLED display is fragile, especially without an enclosure. Always handle the display carefully, holding the PCBA (Printed Circuit Board Assembly) when plugging in HDMI or USB cables to avoid applying hard pressure to the glass panel.

- **Cleaning:** Use a soft, lint-free cloth, slightly dampened with water or a screen-safe cleaning solution, to clean the display surface. Avoid abrasive materials or harsh chemicals.
- **Storage:** When not in use, store the display in a cool, dry place, away from direct sunlight and extreme temperatures. If possible, keep it in its original packaging or a protective case.
- **Power Supply:** Ensure you use a stable 5V power supply with sufficient current (e.g., 2A or 2.5A for Raspberry Pi) to prevent power-related issues like flickering or failure to power on.

## 7. TROUBLESHOOTING

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If you encounter issues with your Waveshare 5.5-inch AMOLED Display, consider the following common problems and solutions:

- **Display Not Powering On / Green LED Flashing:** This often indicates insufficient power. Ensure you are using a 5V power supply with adequate current (e.g., 2A or 2.5A). Check all power connections.
- **No Display / Incorrect Resolution:** Verify that the `config.txt` file on your Raspberry Pi's TF card has the correct configuration statements for the 1080x1920 resolution. For Windows, check display settings to ensure the correct resolution and display mode (extended/duplicate) are selected.
- **Incorrect Display Orientation (Portrait/Landscape):** The display is portrait by default. For landscape mode, you must change the software configuration in your Raspberry Pi's `config.txt` file or adjust display settings in Windows.
- **Touch Not Working:** Ensure the USB cable for touch input is securely connected to both the display and the host device (Raspberry Pi or PC). For Raspberry Pi, confirm that the necessary drivers or configurations are in place as per the Waveshare Wiki.
- **Screen Flickering or Instability:** This can be a sign of an unstable power supply or a loose connection. Check power source and all cables.
- **Physical Damage (Cracks):** The AMOLED glass panel is fragile. If the screen is cracked, it likely requires replacement. Handle with extreme care during assembly and use.

## 8. SPECIFICATIONS

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Feature	Value
Screen Size	5.5 Inches
Resolution	FHD 1080p (1080x1920)
Aspect Ratio	16:9
Screen Surface Description	Glossy
Item Model Number	5.5inch HDMI AMOLED
Manufacturer	Waveshare
Date First Available	February 28, 2019

## 9. SUPPORT

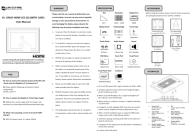
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For additional information, detailed technical documentation, and troubleshooting guides, please refer to the official Waveshare Wiki for this product. You can also download the comprehensive user guide in PDF format:

[Download User Guide \(PDF\)](#)



Related Documents - 5.5inch HDMI AMOLED

	<p><a href="#">Waveshare 10.1-inch HDMI LCD (G) User Manual: Setup, Specs, and Connections</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="#">Waveshare 10.4HP-CAPQLED: 10.4-inch QLED Touchscreen Display (1600x720)</a></p> <p>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.</p>





- lightness/contrast, etc.)

Fluorescing Brightly

Search Panel: Tech

Optical Sensing

Audio Output 2

Item	Description	Unit
Heater	15.4*P-CHQ(2)	?
Dimensions	25.4	inch
Turning angle	130	°
Resolution	1600*750	Pixel
Touch screen dimensions	306.029*413.000*0.1*4320	mm
Display screen dimensions	306.029*413.000*0.1*4320	mm
Input size	16.5*4.5*0.131*0.1	mm
Input type	4-Channel*0.5*3.330V	mm
Color gamut	94%	NTSC
Brightness (f/arc)	600	cd/m²
Contrast	3000	?
Acoustics	CSE matrix design	?
Software suite	60	No
Software interface	Standard HDMI port	?
Power port	TV Type C interface	?
Power consumption	4.3	Watt
	121	

Parameter	Min. Value	Standard Value	Max. Value	Unit	Note
Input Voltage	4.75	5.00	5.25	V	Note 1
Input Current	850	850	1000	mA	Note 2
Operating Temperature	0	25	60	°C	Note 3
Storage Temperature	-65	25	70	°C	Note 3

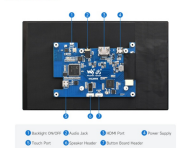
**⚠️ 1:** Input voltage exceeding the maximum value or improper operation may cause permanent damage to the device.

**⚠️ 2:** The input current should be  $\leq 1000\text{mA}$ , otherwise it will lead to shut-up failure or abnormal display, and a long time in an abnormal state may cause permanent damage to the device.

**⚠️ 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 rated value, otherwise it will be unable to operate the display.

Otherwise, you can refer to the following ESD settings:

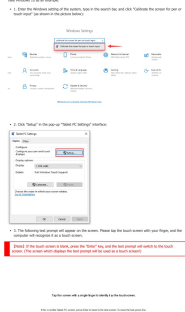
Pool	S	S	S	S	S	H	V	V	H	V	H	S
Clock	Addressable	Starting	Addressable	Starting	Front	Spine	Front	Spine	Image	Image	Header	Bo
					North	North	Punch	North	Size	Size		
80-80	1430	124	720	65	100	52	28	10	172	100	0	0



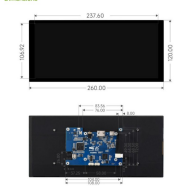
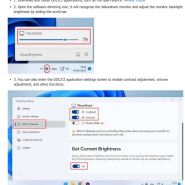
- Please download the nearest image from the official Raspberry Pi website.
- Download the compressed file on the PC and unzip it to get the .iso file
- Connect the TF card to the PC and run Rufus to format the SD card.  
Open [RufusDownloader.exe](#), choose the image prepared in the first step, and click "Format" to prepare the system files.
- If auto programming, upon the writing of the OS to the end of the TF-card and enter the following codes at the start of early log. Then, space and wait before the TF card:  

```
SUDO=/usr/bin/curl -O http://www.raspbian.org/raspbian/wheezy-uart-console  
SUDO=echo '\n'>/dev/ttyAMA0; sleep 60; echo '\n'>/dev/ttyAMA0; exit 0
```
- Insert the TF card into the Raspberry Pi, power up the Raspberry Pi, wait for a few seconds normally and then it will display normally.

- Connect the Touch port of the ZCD to the USB interface of the PC, and Windows will automatically recognize the Touch function.
  - Connect the HRC interface of the LCD to the HRC interface of the PC, and Windows will automatically recognize the display function.
- Note**
- Some PCs do not support HRC driver plug-and-play, usually after installing the system can be used
  - If the power supply of the LCD is insufficient, the LCD will fail to flash. After connecting the external 5V DC power adapter to the ZCD's Power Input, it can be related to the failure.



- 1. Download and install (X)C applications, such as the open-source [Twinkle](#) [Trout](#).



If you require technical support, please go to the page and open a ticket.

## 9.3inch 1600x600 LCD

Overview

The 9.3-inch 1600x600 LCD is a wide, high-resolution capacitive touch display with a built-in 1600x600 pixel panel. It features a wide viewing angle, high brightness, and excellent color reproduction. The display is designed for use in a variety of applications, including industrial control, medical equipment, and consumer electronics.

**Features**

- 9.3-inch (236mm) diagonal size
- 1600x600 resolution
- Wide viewing angle (178°/178°)
- High brightness (500 nits)
- Excellent color reproduction
- Capacitive touch panel
- Wide temperature range (-20°C to 60°C)
- Low power consumption

Specifications

Parameter	Description	Unit
Size	9.3 inch (236 mm)	mm
Resolution	1600 x 600	pixels
Pixel Pitch	0.15625 mm	mm
Viewing Angle	178°/178°	°
Brightness	500 nits	nits
Contrast Ratio	1000:1	
Response Time	16ms	ms
Operating Temperature	-20°C to 60°C	°C
Storage Temperature	-30°C to 70°C	°C
Humidity	10% to 90%	%
Power Consumption	1.5W	W

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Power Consumption	1.5W	W

Onboard Interface



Diagram illustrating the onboard interface pins of the LCD panel.

- Pin 1: GND
- Pin 2: VCC
- Pin 3: GND
- Pin 4: VCC
- Pin 5: GND
- Pin 6: VCC
- Pin 7: GND
- Pin 8: VCC
- Pin 9: GND
- Pin 10: VCC
- Pin 11: GND
- Pin 12: VCC
- Pin 13: GND
- Pin 14: VCC
- Pin 15: GND
- Pin 16: VCC
- Pin 17: GND
- Pin 18: VCC
- Pin 19: GND
- Pin 20: VCC
- Pin 21: GND
- Pin 22: VCC
- Pin 23: GND
- Pin 24: VCC
- Pin 25: GND
- Pin 26: VCC
- Pin 27: GND
- Pin 28: VCC
- Pin 29: GND
- Pin 30: VCC
- Pin 31: GND
- Pin 32: VCC
- Pin 33: GND
- Pin 34: VCC
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- Pin 36: VCC
- Pin 37: GND
- Pin 38: VCC
- Pin 39: GND
- Pin 40: VCC
- Pin 41: GND
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- Pin 353: GND
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- Pin 802: VCC
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- Pin 804: VCC
- Pin 805: GND
- Pin 806: VCC
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- Pin 808: VCC
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Explore the Waveshare 5-inch 1080x1080 round IPS LCD display. This guide details its features, specifications, and setup for Raspberry Pi and Windows PCs, including touch calibration and connectivity.






[Waveshare 4.3inch DSI LCD: Capacitive Touch Display for Raspberry Pi](#)

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.