13.3inch FHD AMOLED

From Waveshare Wiki
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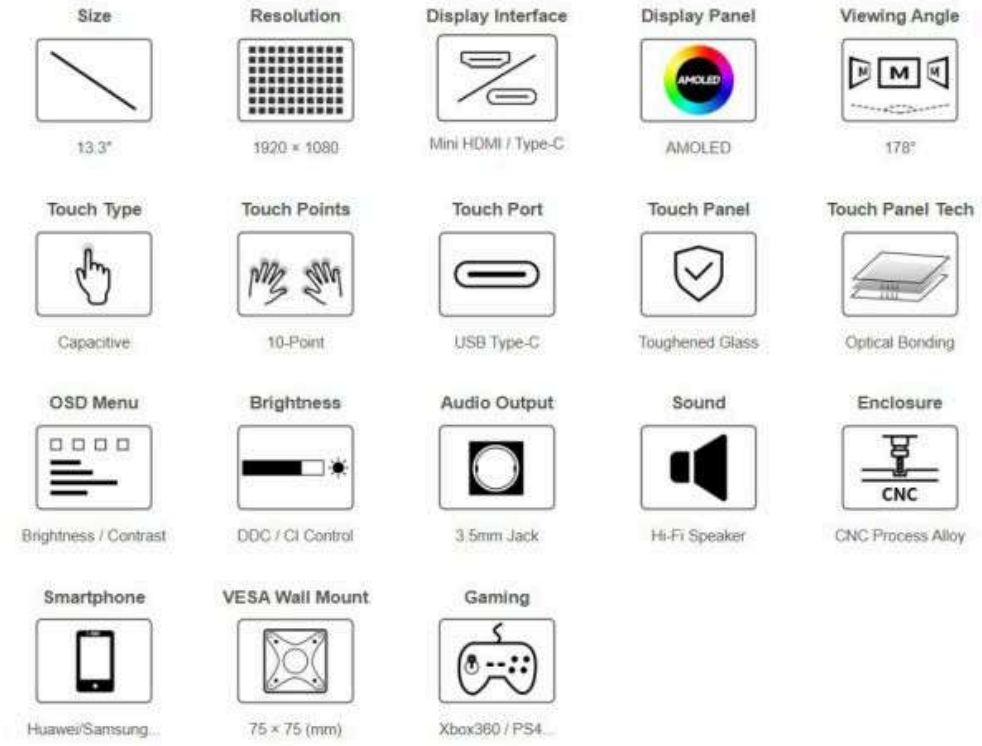
Overview

Features

- 13.3inch AMOLED touch screen with 1920x1080 hardware resolution
- 10-point capacitive touch with tempered glass panel, hardness up to 6H
- Adopts optically bonded touch process for better display effect
- When used with Raspberry Pi, it supports Raspberry Pi OS/Ubuntu/Kali and Retropie
- When used as a computer monitor, it supports Windows 11/10/8.1/8/7
- Supports multi-language OSD menu (can be used for power control, brightness/contrast adjustment, etc.)
- Built-in high-fidelity speaker, with 3.5mm audio, supports HDMI audio output

- All-metal CNC alloy shell



(/wiki/File:600px-13.3_FHD_AMOLED_1.jpg)

Specifications

Item	Description	Unit
Mode	13.3inch FHD AMOLED	/
Size	13.3	Inch
Viewing angle	178	Deg
Resolution	1920x1080	Pixels
Overall size	307.00(H)×183.00(V)×10.00(D)	mm
Display area	293.65(H)×165.70(V)	mm
Pixel pitch	0.153(H) x 0.153(V)	mm
Color gamut	99%	NTSC
Maximum brightness	300	cd/m²
Contrast	100000:1	/
Backlight adjustment	OSD / DDCCI	/
Refresh rate	60	Hz
Display interface	mini HDMI / Type-C	/
Power Interface	5V power supply	/
Weight	676	g

Electrical Specifications

Parameters	Minimum Value	Standard Value	Maximum Value	Unit	Note
Input voltage	4.75	5.0	5.25	V	Note 1
Input current	1000	1000	TBD	mA	Note 2

Operating temperature	0	25	60	℃	Note 4
Storage temperature	-10	25	70	℃	Note 4

•**Note 1:** Input voltages exceeding the maximum or improper operation may cause permanent damage to the device.
•**Note 2:** The input current needs to be ≥ 1000mA, otherwise it will cause the startup failure or display abnormality, and staying in an abnormal state for a long time may cause permanent damage to the device.
•**Note 3:** Please do not store the display panel in a high-temperature and high-humidity environment for a long time. The display panel should operate within its limits, otherwise it may be damaged.

EDID Timing Parameters

If the system of the main control board can automatically recognize the EDID for display, there is no need to set the relevant timing parameters additionally.

Otherwise, you can refer to the following EDID settings:

Pixel Clock	H Adressable	H Blanking	V Adressable	V Blanking	H Front Porch	H Sync Width	V Front Porch	V Sync Width	H Image Size	V Image Size	H Border	V Border
148.50	1920	280	1080	45	88	44	2	5	344	195	0	0

Interfaces

(/wiki/File:600px-13.3inch-

FHD-AMOLED-details-37.jpg)

Usage Guide

Working with PC HDMI interface

Supporting Windows 11/10/8.1/8/7 system. How to use:

1. Power the monitor via the POWER port using a 5V 3A power supply
2. Connect the Touch interface of the LCD to the USB interface of the PC, and Windows will automatically recognize the touch function.

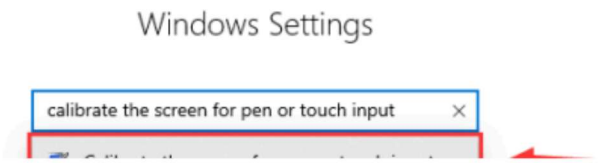
3. Connect the HDMI interface of the LCD to the HDMI interface of the PC, and Windows will automatically recognize the display function.

- Note:
- Some PCs do not support HDMI devices plug and play, and they can be recognized normally after restarting the system.

Windows Specified Touch Screen

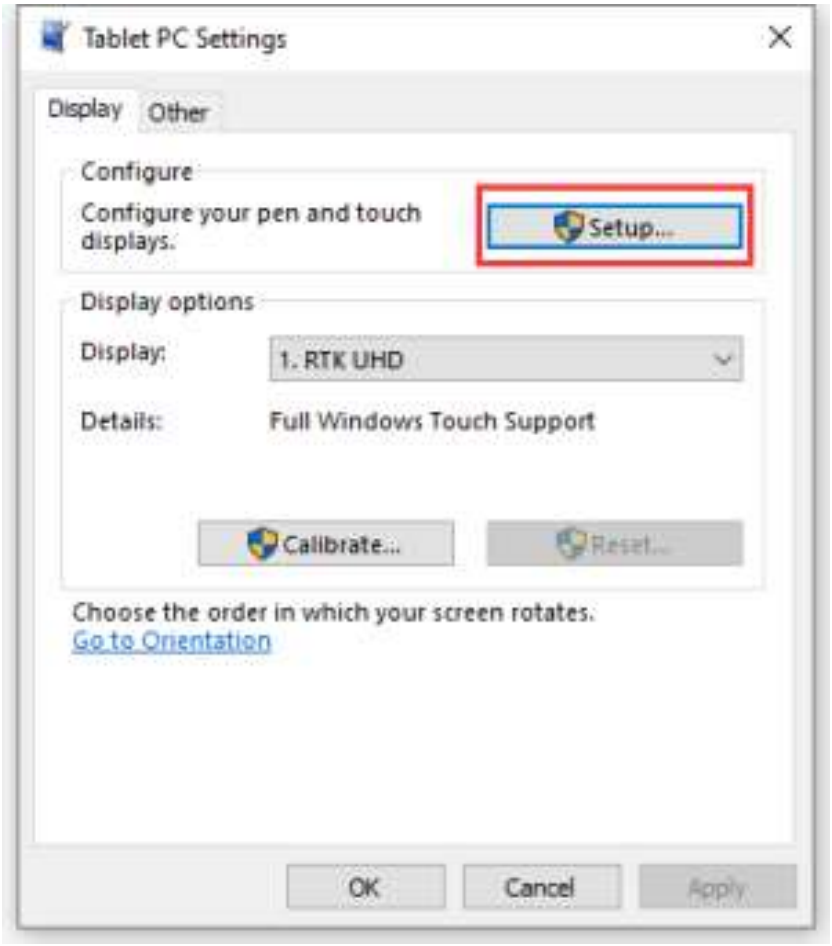
Take Windows 10 as an example:

- 1.Go to Windows settings of the system, enter in the search bar and click on Calibrate the screen for pen and touch input (as shown in the figure below)



(/wiki/File:Win10_touch01.png)

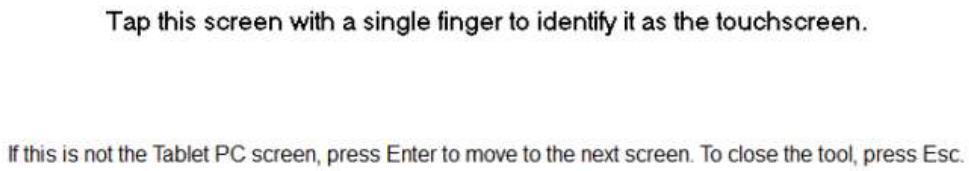
- 2. In the pop-up Tablet PC Settings interface, click Settings



(/wiki/File:Win10_touch02.png)

- 3. The text prompt shown below will appear on the screen. Please click on the touchpad with your finger and the computer will recognize it as a touch screen.

Note: If the screen is blank, please press the Enter key, and the text prompt will switch the screen. (The screen corresponding to the text prompt will be used as a touch screen.)



(/wiki/File:Windows-touch-3.png)

Working with Raspberry Pi

Hardware Connection

1. Power the monitor via the POWER port using a 5V 3A power supply
2. Use a USB Type-C cable to connect the Touch port to the Raspberry Pi USB port
3. Use an HDMI cable to connect the HDMI port to the Raspberry Pi HDMI port

(/wiki/File:600px-13.3inch-QHD-AMOLED-details-3.jpg)

Software Settings

```
Supports Raspberry Pi OS/Ubuntu/Kali and Retropie systems for Raspberry Pi.
When the LCD works on these systems, the resolution must be set manually, otherwise the display resoluti
on will be incorrect, which will affect the experience.
```

1. Download the latest version of the image from the Raspberry Pi website (https://www.raspberrypi.com/software/operating-systems/)
2. Download the compressed file to your PC, and extract it as .img file
3. Connect the TF card to the PC, format the TF card with SDFormatter (https://www.waveshare.com/w/upload/d/d7/Panasonic_SDFormatter.zip) software
4. Open the Win32DiskImager (https://www.waveshare.com/w/upload/7/76/Win32DiskImager.zip) software, select the system image prepared in step 1, and click Write to flash the system image
5. After the flashing is completed, open the cmdline.txt file in the root directory of the TF card, add the following code at the beginning of the cmdline.txt, separated by spaces, and note that you should not press Enter or return.

```
usbhid.mousepoll=0
```

6. Open the config.txt file in the root directory of the TF card, add the following code at the end of the config.txt, save and safely eject the TF card

```
hdmi_group=2
hdmi_mode=82
hdmi_cvt 1920 1080 60 6 0 0 0
```

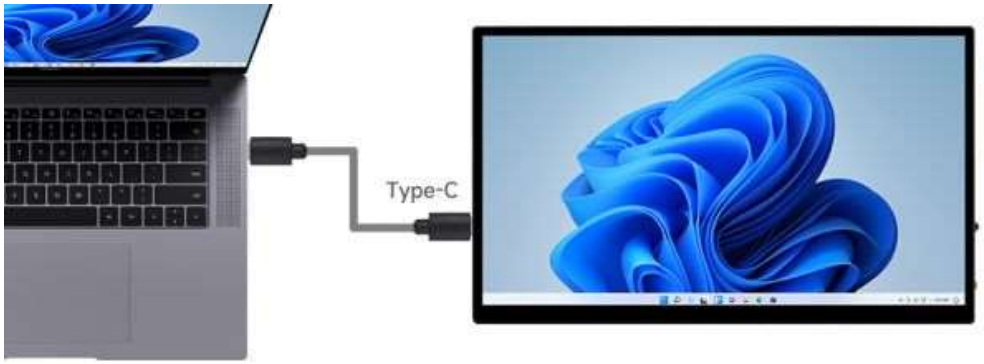
7. Insert the TF card into the Raspberry Pi, power on the Raspberry Pi, wait for a few seconds to display and touch normally

Full-featured Type-C One-line Communication

Working with Laptop Thunderbolt Port:

As shown in the figure below, using the matching dual male Type-C cables to connect DISPLAY & TOUCH to the As shown in the figure below, using the matching dual male Type-C cables, connecting DISPLAY & TOUCH to the laptop's USB-C Thunderbolt port, and after the system starts up, wait normally for a few

seconds to display and touch normally



(/wiki/File:600px-13.3inch-QHD-AMOLED-details-13.jpg)

Working with Smartphone Full-featured Type-C Port for Wired Screen Projection:

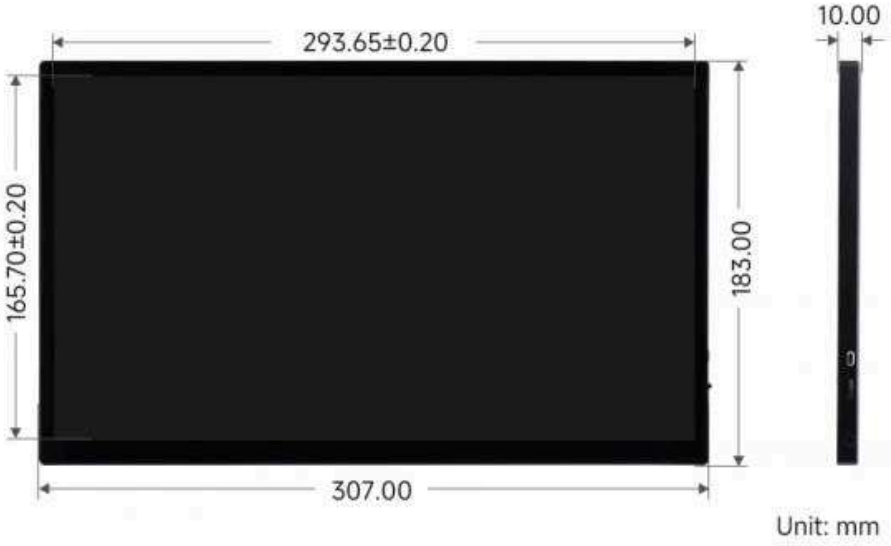
*** Note: Before using this feature, please confirm that your phone has a full-function Type-C port and supports wired screen mirroring.**

As shown in the figure below, connect the DISPLAY&TOUCH to the phone's Type-C port using the

matching double male Type-C cable, and wait normally for a few seconds to display and touch normally

(/wiki/File:600px-13.3inch-QHD-AMOLED-details-15.jpg)

Dimensions



(/wiki/File:600px-13.3inch-FHD-AMOLED-details-size.jpg)

Support

Technical Support

If you need technical support or have any feedback/review, please click the **Submit Now** button to submit a ticket, Our support team will check and reply to you within 1 to 2 working days. Please be patient as we make every effort to help you to resolve the issue.
Working Time: 9 AM - 6 PM GMT+8 (Monday to Friday)

Submit Now (https://service.waveshare.com/)

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