Next Vision Display
Brighten The Future

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: NT156-C001WA

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Version	
Engineer	
Date	

Customer:
Approved by

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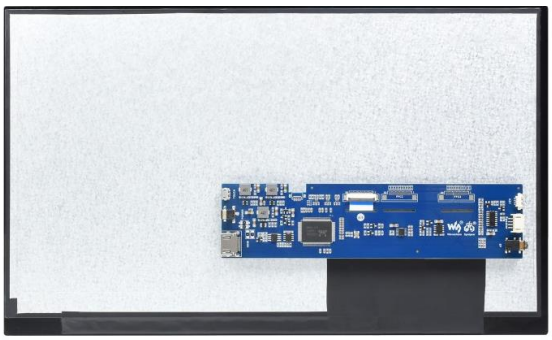
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NT156-C001WA

15.6inch QLED Display, 1920 × 1080, Optical Bonding IPS Toughened Glass panel, 100% sRGB Touch Screen





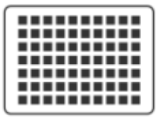
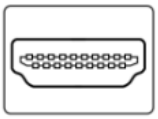
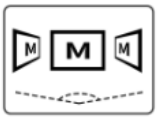
Overview

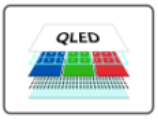
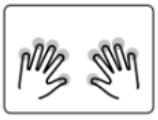
This product is a universal 15.6-inch HDMI QLED quantum dot display with a resolution of 1920 × 1080 and an optical bonding tempered glass capacitive touch panel. Raspberry Pi is supported and can also be used as a computer monitor.

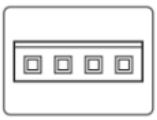
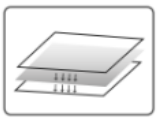
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Feature

- The 15.6-inch QLED quantum dot display has the advantages of a high color gamut, pure chromaticity, and long service life.
- The hardware resolution is 1920 × 1080.
- Brightness: 350cd/m^2
- 10-point capacitive touch control, optical bonding process, better display effect, tempered glass touch panel, hardness up to 6H.
- When used with Raspberry Pi, supports Raspberry Pi OS / Ubuntu / Kali and Retropie.
- Ubuntu is supported when used with Jetson Nano.
- When used as a computer monitor, supports Windows 11/10/8.1/8/7.
- Support mainstream game consoles, such as Microsoft Xbox360, Sony PS4, Nintendo SWITCH, etc.
- Support multi-language OSD menu (can be used for power control, adjusting brightness/contrast, etc.).
- With 3.5mm audio interface, 4PIN speaker interface, support HDMI audio output.

Size	Resolution	Display Port	Display Panel	Viewing Angle
				
15.6"	1920×1080	HDMI	IPS	178°

Backlight	Touch Type	Touch Points	Touch Port	Touch Panel
				
QLED Quantum Dot	Capacitive	10-Points	USB	Toughened Glass

OSD Menu	Audio Output1	Audio Output2	Touch Panel Tech	Gaming
				
Brightness/Contrast	3.5mm Jack	4PIN Header	Optical Bonding	Xbox360/PS4/Switch

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Working with Raspberry Pi

Support Raspberry Pi OS/Ubuntu/Kali and Retropie system.

1. Please download the latest version of the image from Raspberry Pi official website.
2. Download the compressed file to the PC and extract it to get the .img file.
3. Connect the TF card to the PC, and use the SDFormatter software to format the TF card.
4. Open the software, select the system image prepared in step 1, and click "write" to program the system image.
5. After the programming is completed, open the config.txt file in the root directory of the TF card. Please add the following code at the end of config.txt, save and safely eject the TF card, and then insert the TF card into the Raspberry Pi.

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

6. Connect the 12V power supply to the DC interface of the LCD, and you can see that the LCD backlight is lit normally.
7. Connect the Touch port of the LCD to the USB port of the Raspberry Pi, and the HDMI port of the LCD to the HDMI port of the Raspberry Pi.
8. Power on the Raspberry Pi and wait for a few seconds to display normally.

Working with PC

This product supports Windows 11/10/8.1/8/7 system.

How to use:

Step 1: Connect the 12V power supply to the DC interface of the LCD, and you can see that the LCD backlight is on normally.

Step 2: Connect the TOUCH interface of the LCD to the USB port of the PC. Windows will automatically recognize the touching function after a while.

Step 3: If you want to use HDMI communication, you can connect the HDMI of the LCD to the HDMI of the PC. You can see that LCD can display normally after 3 seconds. If you need to output sound, you can output HDMI audio through the 3.5mm headphone jack or 4PIN speaker.

Notice:

1) When the PC is connected to multiple monitors at the same time, the touch effect works on the main screen by default. If you need to specify the touch to the secondary screen, see #Calibration touch on Win 10 PC.

2) Some PCs do not support plug-and-play with HDMI devices. Generally, they can be used normally after restarting the system.

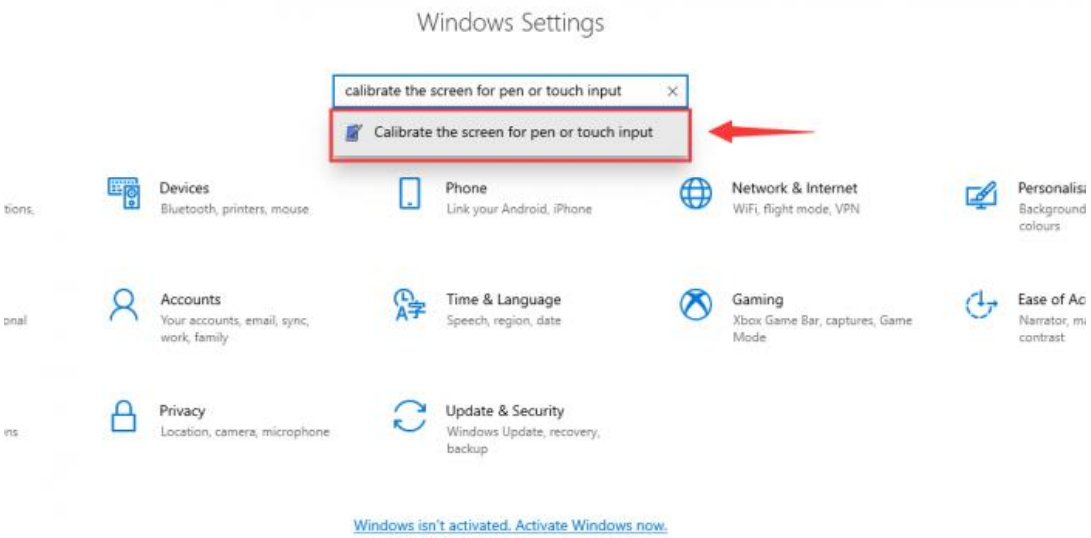
3) HDMI audio output can be used normally only during HDMI communication.

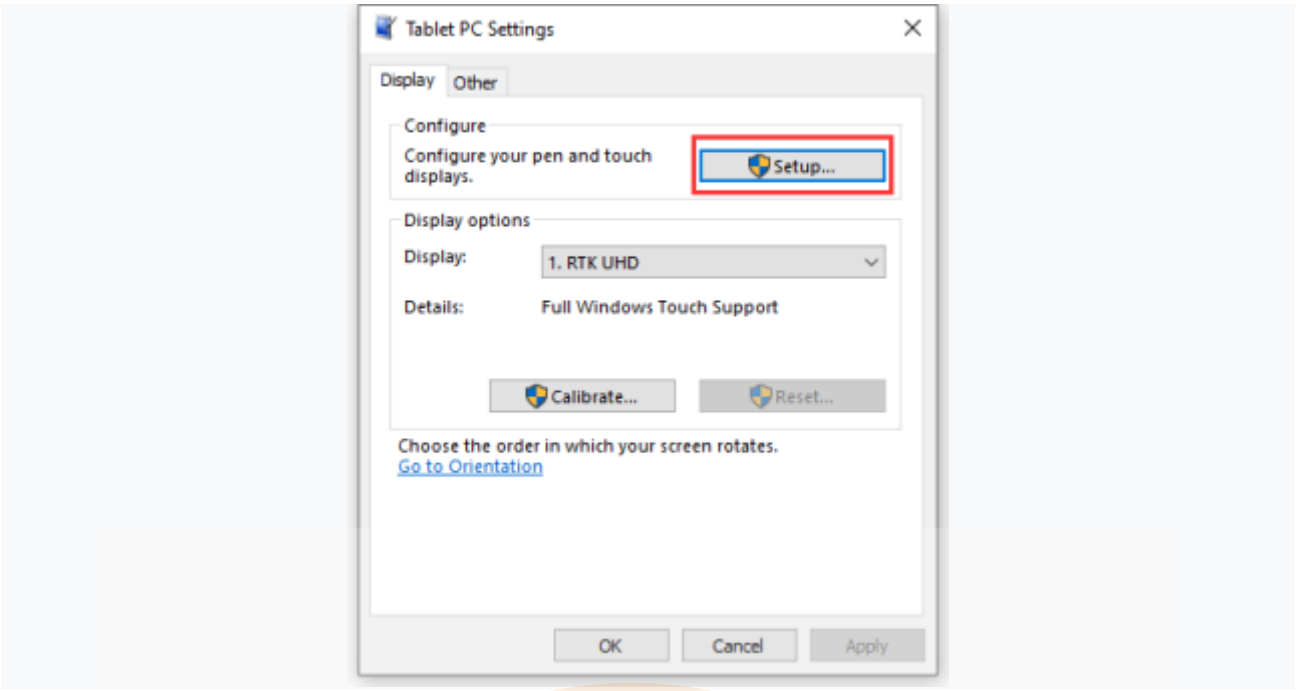
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Calibration touch on Win 10 PC

Take the windows10 system as an example:

- 1. Enter the Windows settings of the system, type in the search bar and click "Calibrate the screen for pen or touch input" (as shown in the picture below).

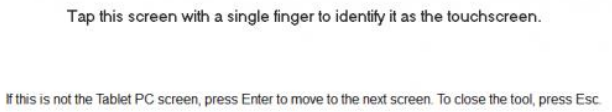




- 2. Click "Setup" in the pop-up "Tablet PC Settings" interface:

- 3. The following text prompt will appear on the screen. Please tap the touch screen with your finger, and the computer will recognize it as a touch screen.

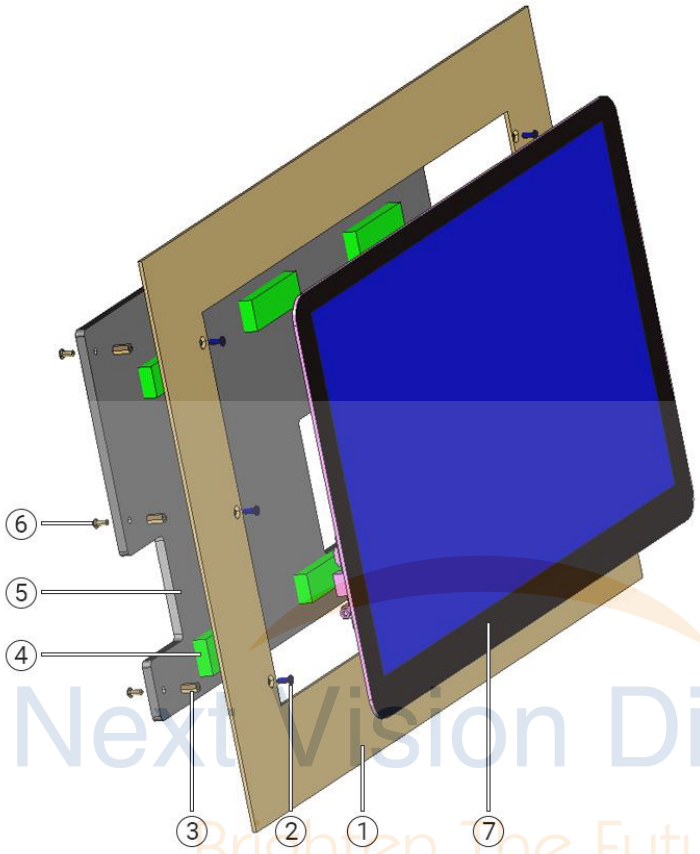
【Note】If the touch screen is blank, press the "Enter" key, and the text prompt will switch to the touch screen. (The screen which displays the text prompt will be used as a touch screen!)



How to Install the Display

Double-sided tape is used between the LCD of the screen and the touchpad. It is necessary to consider supporting the LCD, and a reference example is given below.
NOTE: The assembly materials used below are not included in the shipped kit! ! This is only for reference.

Reference Schematic



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Part Name:

1. Case
2. Countersunk head screw
3. Copper pillars
4. Adhesive sponge
5. Acrylic sheet (thickness 5mm and above)
6. Round head screw
7. HDMI LCD

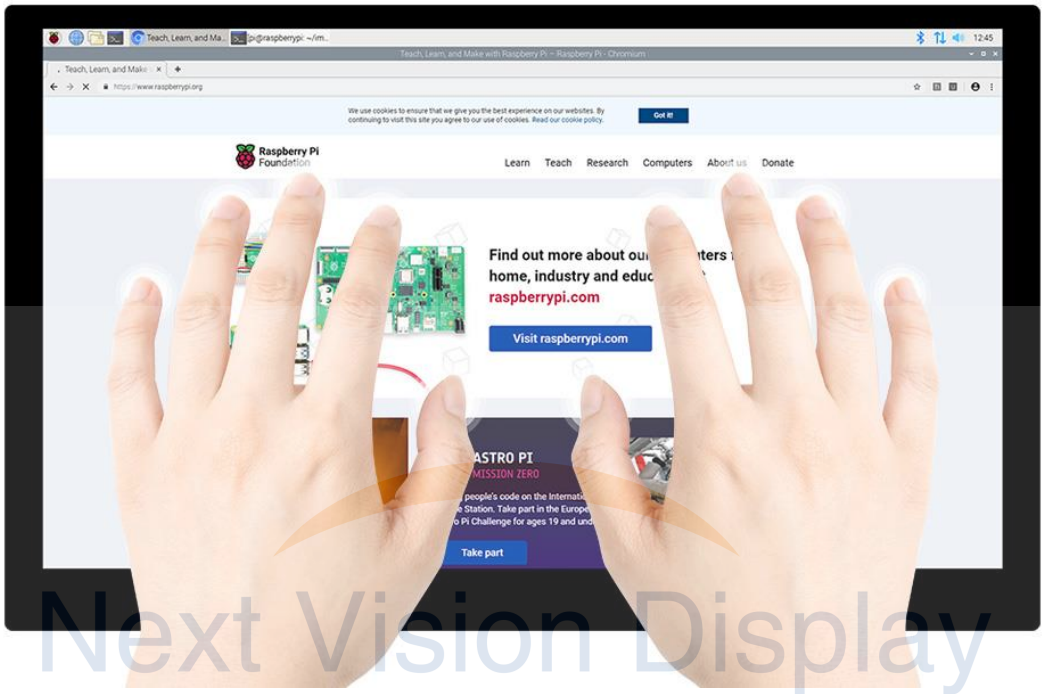
Assembly Instructions:

1. Fix the copper pillar ③ on the back of the device case ① with the countersunk head screw ②, and then insert the HDMI LCD ⑦ into the device case ① and bond it firmly. The countersunk head screw holes on the casing will be blocked by the edge of the screen. No screws are visible on the surface.
2. Paste the adhesive sponge ④ with a suitable thickness on the acrylic board ⑤, pay attention to the position of the sticker to avoid the PCB board, and finally fix it on the copper pillar ③ with the round head screw ⑥. After assembly, please make sure that the sponge is completely attached to the back of the LCD.
3. Holes need to be made in the acrylic sheet to avoid the components on the PCB board, which can facilitate the connection between the interface and the device.

Note: The LCD display surface cannot be installed parallel to the ground, otherwise it will fall off under gravity. In addition, when it needs to be installed at an angle, the back of the LCD screen should keep an angle of fewer than 75 degrees with the horizontal direction.

Touch Control

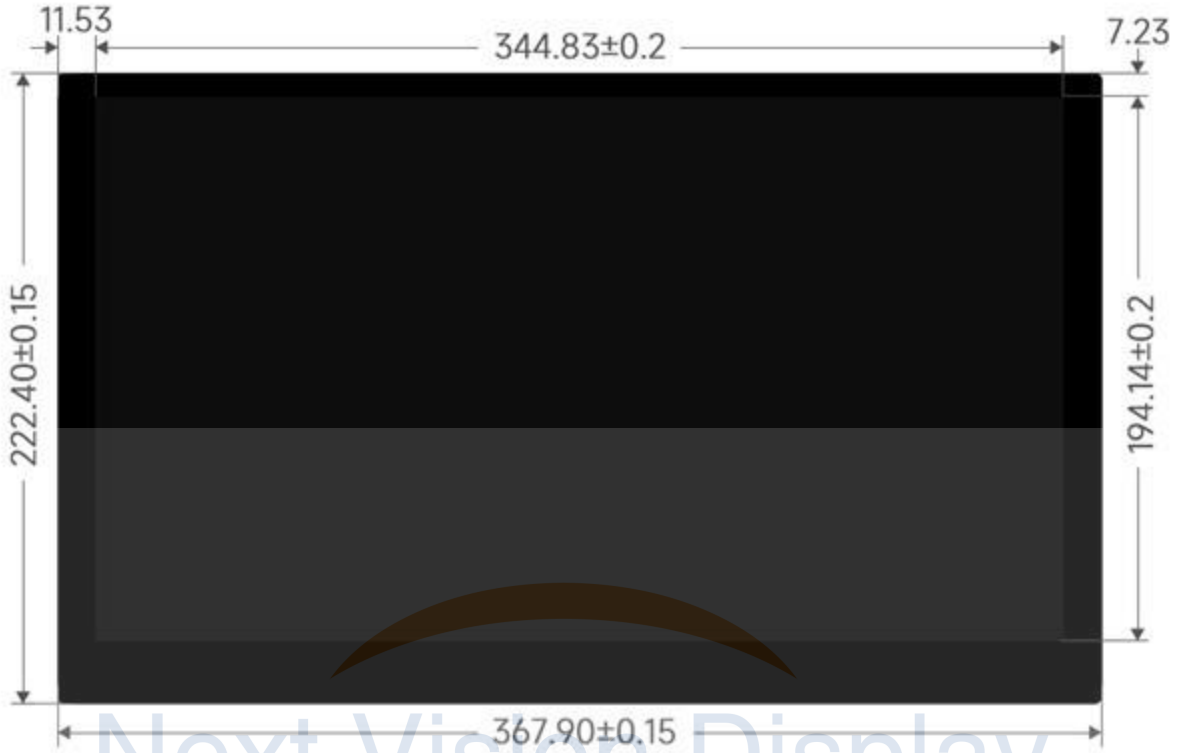
Capacitive Touch | Up to 10-Points Touch [1] | Toughen Glass Panel [2] | Fully Laminated [3]



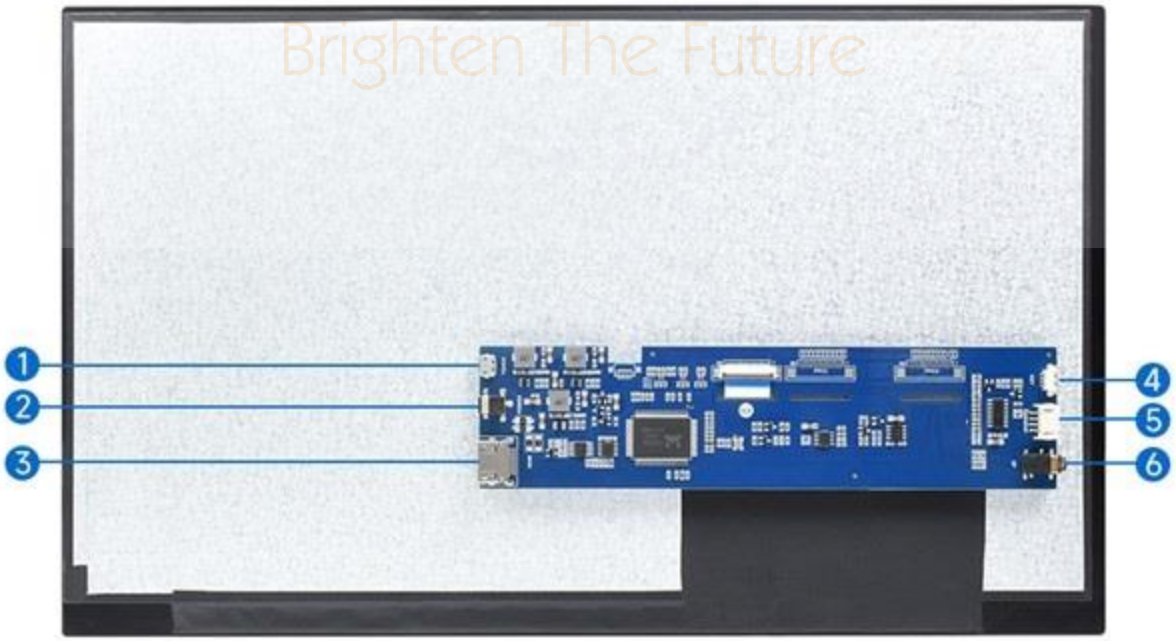
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1) up to 10-points touch, depending on the operating system. 2) up to 6H hardness toughened glass panel.
3) Optical Bonding, display well and dustproof.

Appearance And Dimensions



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1 Touch Port
2 Power input
3 HDMI Port
4 Button Board Connector
5 Speaker port
6 Audio Jack

Package Content

Weight: 1.508 kg

1. 15.6HP-CAPQLED x1
2. OPTIONS Power adapter x1
3. HDMI cable x1
4. HDMI to Micro HDMI Adapter x1
5. USB-A to Micro-B cable x1
6. Triangular stand x1
7. Button board cable x
8. Button board x1



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