Raspberry Pi 5 3.6-inch Screen（MZP361WV1T）

User Guide

Product Features

Display screen diagonal length: 3.61 inches
Physical resolution: 800×480
Refresh rate: 60Hz
Display mode: DPI666, 262K colors
Supports Raspberry Pi 5B/4B/3B+/3A+/3B/
Directly driven by Raspberry Pi's GPIO interface

Hardware Connection

The Raspberry Pi models 5B/4B/3B+/3B/ already have the 40-pin GPIO header soldered. Simply plug in the display directly.

How to make the Screen Work

1 Download the Raspberry Pi Imager software from the official website
2 Follow the official instructions to write the Raspberry Pi OS system to your memory card
3-1 If you are using the latest version of the Raspberry Pi OS (Bookworm), after the image writing is complete, copy the file mzp361wv1t-bookworm.txt to the root directory of the TF card. Then open the config.txt file in the root directory and add the following to the end of the file:
[all]
include mzp361wv1t-bookworm.txt

```
[all]
include mzp361wv1t-bookworm.txt
```

3-2 If you are using a version of the Raspberry Pi OS other than the latest (any version other than Bookworm), after the image writing is complete, copy the file mzp361wv1t-old.txt to the root directory of the TF card. Then open the config.txt file in the root directory and add the following to the end of the file: [all]
include mzp361wv1t-old.txt

```
[all]
include mzp361wv1t-old.txt
```

4 Save and safely remove the TF card.
5 Insert the completed TF card into the Raspberry Pi, power it on, wait for the system to boot

GPIO detailed introduction:

1. Within the 40-pin header of the Raspberry Pi, there are 28 GPIO pins, 2 +3.3V power pins, 2 +5V power pins, and 8 GND pins.

2. The display screen occupies 23 GPIO pins, which are unavailable for user usage:

·GPIO-0 //PCLK
·GPIO-1 //DE
·GPIO-2 //VS
·GPIO-3 //HS

·GPIO-4 //B0
·GPIO-5 //B1
·GPIO-6 //B2
·GPIO-7 //B3
·GPIO-8 //B4
·GPIO-9 //B5

·GPIO-12 //G0
·GPIO-13 //G1
·GPIO-14 //G2
·GPIO-15 //G3
·GPIO-16 //G4
·GPIO-17 //G5

·GPIO-18 // Backlight Control

·GPIO-20 //R0
·GPIO-21 //R1
·GPIO-22 //R2
·GPIO-23 //R3
·GPIO-24 //R4
·GPIO-25 //R5

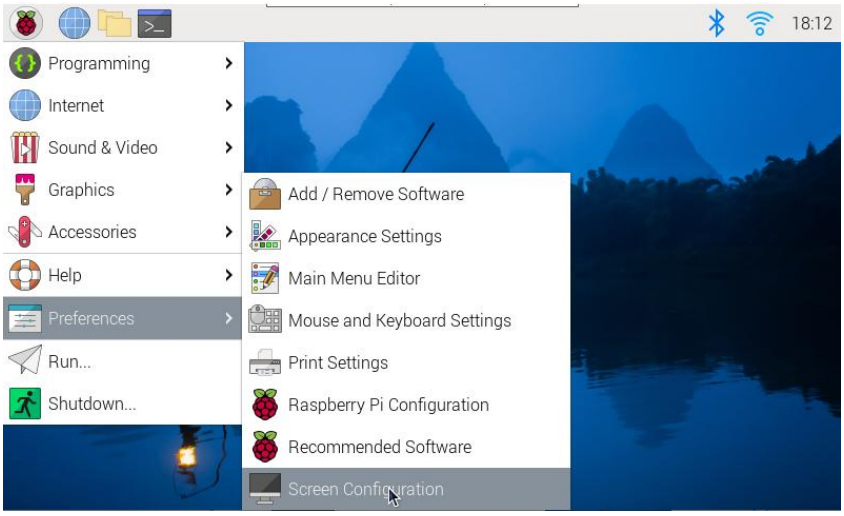
2. The unused GPIOs on the display screen, which users can freely utilize, are as follows:

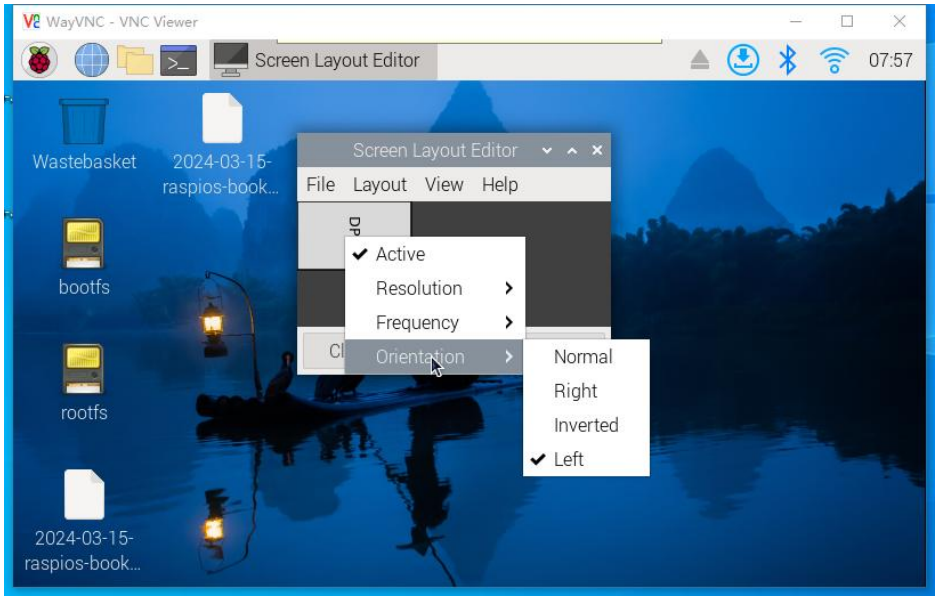
·GPIO-10
·GPIO-11
·GPIO-19
·GPIO-26
·GPIO-27

How to rotate the screen:

Raspberry Pi OS (bookworm)

Open "Screen Configuration" , Follow the instructions in the image below to proceed





Raspberry Pi OS other than the latest (any version other than Bookworm)

Modify the content in file mzp361wv1t-old.txt:

```
display_rotate=1     Rotate 90 degrees
display_rotate=2     Rotate 180 degrees
display_rotate=3     Rotate 270 degrees
```

Backlight Control:

Raspberry Pi OS (bookworm)

Enter the following command in the console.

Turn off backlight:

```
sudo sh -c 'echo "0" > /sys/class/backlight/backlight/brightness'
```

Turn on backlight:

```
sudo sh -c 'echo "1" > /sys/class/backlight/backlight/brightness'
```

Raspberry Pi OS other than the latest (any version other than Bookworm)

Enter the following command in the console.

To turn the backlight off:

```
sudo raspi-gpio set 18 op dl
```

To turn it back on:

```
sudo raspi-gpio set 18 op dh
```