Raspberry Pi 10.1 inch Touchscreen Monitor
User Manual

Email: help@uperfectmonitor.com

To use this monitor safely and keep it properly, please read this manual carefully before using it.

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Please read this user manual carefully before using the device.

This product has been designed with personal considerations in mind, but incorrect use may cause electric shock and fire. To avoid damaging the safety parts inside the machine, please observe the following rules during installation, installation, use, and repair:

1. To prevent fire or electric shock, please do not put the monitor in humidity or even in a worse condition;

2. Before using the device, make sure all cables are connected properly and the power cord is not damaged, if there is any damage, please contact us immediately;

3. To avoid dust, moisture, and extreme temperatures, please DO NOT place the device in any DAMP area. Please place the device on a stable surface when in use.

4. DO NOT put any object or splash any liquid into the openings of the device casing;

MOST IMPORTANT NOTE:

Please use our original power charger and power cable, contact our professional After-Sales Service Team if any problems occur. We will give you the best solution within 12 hours.

To avoid personal injury, please observe the following rules:

1. Do not place the monitor on a sloping table unless there are security measures;
2. Do not drop or throw objects or toys onto the screen, because it will result in personal injury, product and screen damage;

To prevent other injuries, please observe the following rules:

1. Please turn off the monitor when you leave for a long time;
2. Do not allow Children to throw or put objects into the monitor;
3. Do not install spare parts that are not specifically designed for this device;
4. Please Unplug the power cord when the device is unattended for a long time.
5. Do not touch the power cord or signal cable when lightning strikes, otherwise it may cause electric shock;
6. Do not let any object compress or wrap the power cord;
7. Do not place the monitor where the power cord can be easily damaged.

To prevent machine damage, the following situations should be avoided:

1. Place the monitor where is easy to fall;
2. Place the display near a radiator or heat source;

Do not rub the screen with a hard object as it will scratch or permanently damage the screen.

Do not use your fingers to press the screen for a long time, otherwise it will produce screen smear, and even screen damage.

Red, green, and blue pixel defects may appear on the screen, but it does not affect the display function.

The power cord is the main isolation device and must be put in an Easy-to-operate place.

If possible, try to use the recommended resolution for the best results. Because if you use other resolutions other than the recommended resolution, a screen abnormality may occur. But this is a feature of an LCD panel with a fixed resolution.

A still picture on the screen for a long time will cause damage to the screen and produce afterimages. Please make sure to use the screen saver, because the afterimage and related issues are not covered in the scope of product repairing warranty.

If you encounter any technical problems while using this device, please contact our professional After-Sater Service Team immediately, we will provide you with the best solution within 12 Hours.
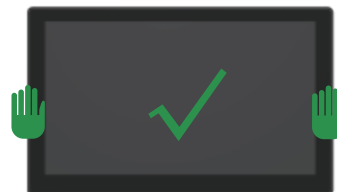
Ways Of Holding

Ways suggested when holding the monitor.

Hold the bottom part of the monitor.

Hold both sides of the monitor.

Ways NOT suggested when holding the monitor.

DC Power Charger

For power

Standard HDMI Cable

When connecting device via HDMI port

USB-A to USB-C Cable

When HDMI is connected to the device, the touch function can be enabled through this cable

Type-C to Type-C Cable

When connecting device via Type-C port

3 Pin Touch Cable

When the Raspberry Pi is built-in, solder/plug the 3-pin touch cable to enable the touch function

M2.5 Screw*4
Phillips Screwdriver

Used for built-in Raspberry Pi installation

PI3 Side Panel

for Pi 1B/2B/3B

PI4 Side Panel

for Pi 4B

HDMI-A Board

for Pi 1B/2B/3B

HDMI-D Board

for Pi 4B
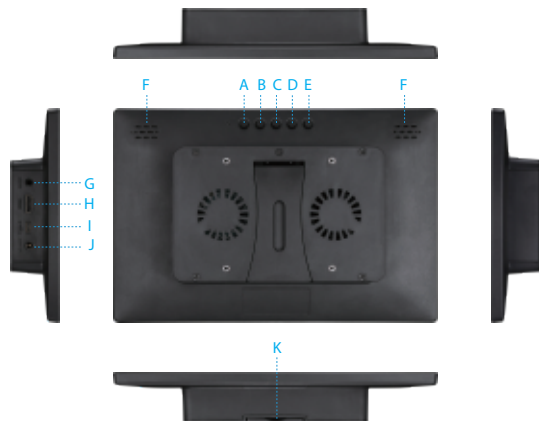
Micro USB Board

for Pi 1B/2B/3B

Type-C Board

for Pi 4B

Interface function introduction

A. Power Button

Press button for 1 seconds to turn on/off the monitor

B. Menu Button

Press to enter the OSD (On-Screen Display) menu

C. UP Button

Volume +/Brightness +

D. Down Button

Press to return to the previous operation

E. Exit Button

Press to return to the previous operation

F. Speakers

Speakers

G. Audio Port

Audio output interface 3.5mm audio jack

H. HDMI Input Port

Signal transmission

I. Type-C Input Port

Audio/Video/Touch Signal Transmission

J. DC12V

DC12V Input Port

K. Stand Holder

Built-in invisible stand holder

Internal Structure

1. Place the monitor where it is easy to fall
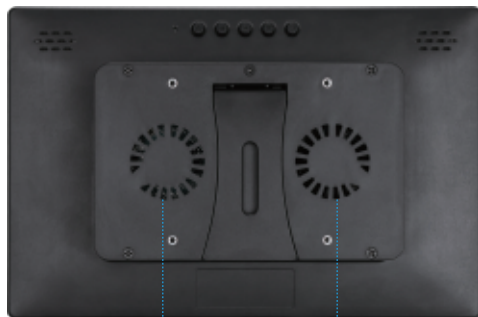2. Place the display near a radiator or heat source

Reserved interface for cooling fans

User customize button to control the Backlight (For Raspberry Pi IO Control) (EN 0V=off 3.3V=on) (PWM 3.3V=brightest 0V=darkest)
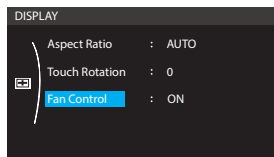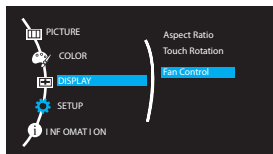
Air Cooling System

Turn on the fan after the Raspberry Pi is built-in
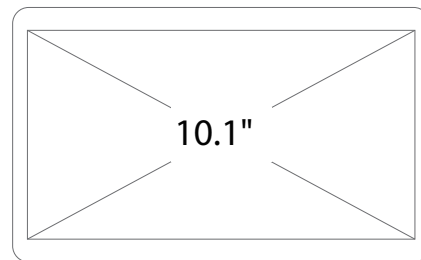

Air Inlet   Air Outlet

PICTURE	Aspect Ratio
COLOR	Touch Rotation
DISPLAY	Fan Control
SETUP	
I NF OMAT I ON	

DISPLAY

Aspect Ratio	:	AUTO
Touch Rotation	:	0
Fan Control	:	ON

Air Cooling System

Please pay attention not to rip off the fan cable when you open the case.

Product Parameters

10.1"

Front

The display supports horizontal and vertical rotation, and you need to set it in your computer device: Extended mode - vertical rotation 90 degrees / 270 degrees.

Model	M101B07
Panel Type	IPS Screen
Screen Size	10.1 inch
Aspect Ratio	16:10
Resolution	1920*1200
Visual Angle	178°
Contrast Ratio	800:1
Brightness	370cd/m²
Built-in Speakers	2*8Ω1W
Shell Material	ABS
Output Interface	3.5mm headphone interface
Refresh Rate	60 Hz

OSD Menu introduction

PICTURE

PICTURE
COLOR
DISPLAY
SETUP
INFORMATION

Brightness
Contrast
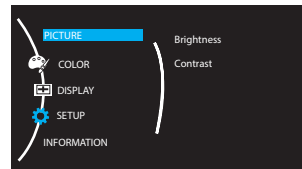
Press 'Menu' button to enter screen setting.
Twice press 'Picture' to enter picture setting.
Double press enter 'Picture' setting.Press 'UP'
or 'DOWN' to adjust brightness or contrast.

COLOR

PICTURE
COLOR
DISPLAY
SETUP
INFORMATION
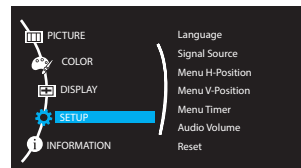
Color Temp.
Red
Green
Blue
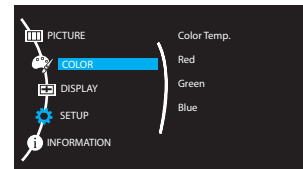
Press 'Menu' button to enter screen setting.
Then press 'Down' button to choose 'COLOR'.
Double press enter 'COLOR' setting. You can
adjust 'Red' 'Green' 'Blue' by press 'UP' or
'DOWN'.

DISPLAY

PICTURE
COLOR
DISPLAY
SETUP
INFORMATION

Aspect Ratio
Touch Rotation
Fan Control
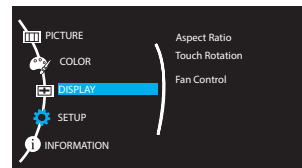
'DISPLAY' is default setting. The 'Aspect Ratio'
is 16:10.

SETUP

PICTURE
COLOR
DISPLAY
SETUP
INFORMATION

Language
Signal Source
Menu H-Position
Menu V-Position
Menu Timer
Audio Volume
Reset

Press 'Menu' button to enter screen setting -
Press 'DOWN' button to choose 'SETUP' -
Double press 'SETUP' to choose 'Language'.
There are 12 languages to choose. Press
menu to choose 'Menu H-Position' Menu
V-Position' 'Menu Timer' 'Audio Volume' by
pressing up or down to adjust.

Input Sources Switching

The exit button is a shortcut key for input sources switching, the menu is displayed in the upper right corner.

Exit Button
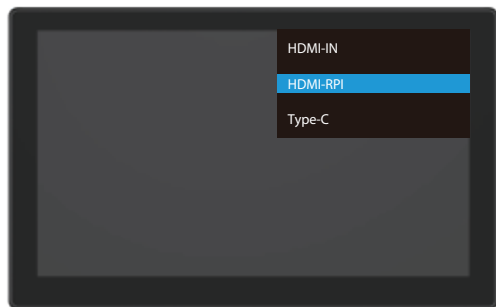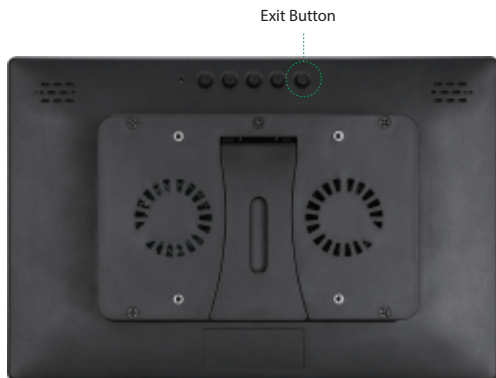
HDMI-IN
When connecting the device via HDMI port.

HDMI-RPI
When installing Raspberry Pi to the monitor.

Type-C
When connecting the device via Type-C port. (Please kindly note the Type-C port just for signal input or U-C cable for touch. It can not power supply the display.

Function introduction

Regarding the connection method as a PI monitor.

Connect to PI3

Function introduction
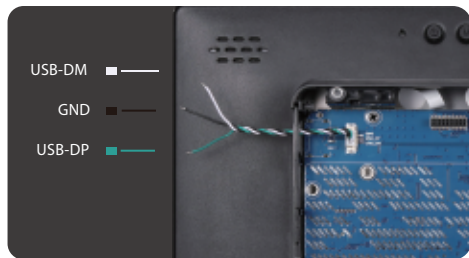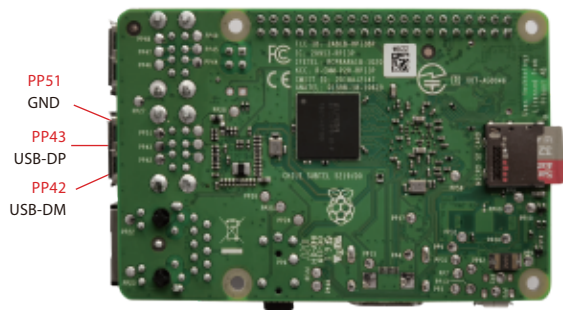
Step 1:

Method 1
Solder the 3pin touch cable to the Raspberry Pi 3B+ motherboard. (If it is not soldered, the touch function cannot be used).
PP51 --- Black Cable GND.
PP43 --- Green Cable USB-DP.
PP42 --- White Cable USB-DM.
Plug the 3 Pin touch cable into the monitor board.

PP51
GND

PP43
USB-DP

PP42
USB-DM

USB-DM
GND
USB-DP

Function introduction

Method 2
Plug the USB end of the 3 Pin touch cable into the USB port of the Raspberry Pi 3B+motherboard.
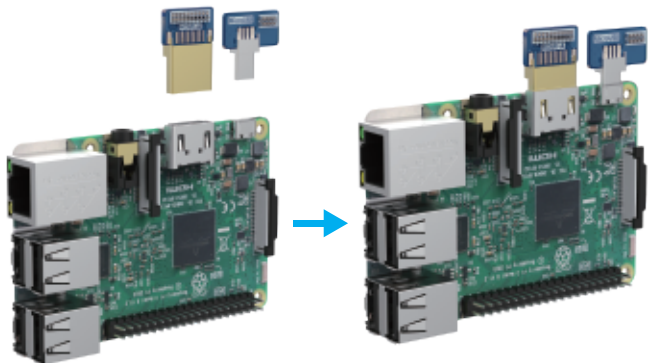Plug the other end into the monitor board.

Step 2:

Insert the adapter board (HDMI-A and MicroUSB) to the Raspberry Pi 3B+ motherboard.

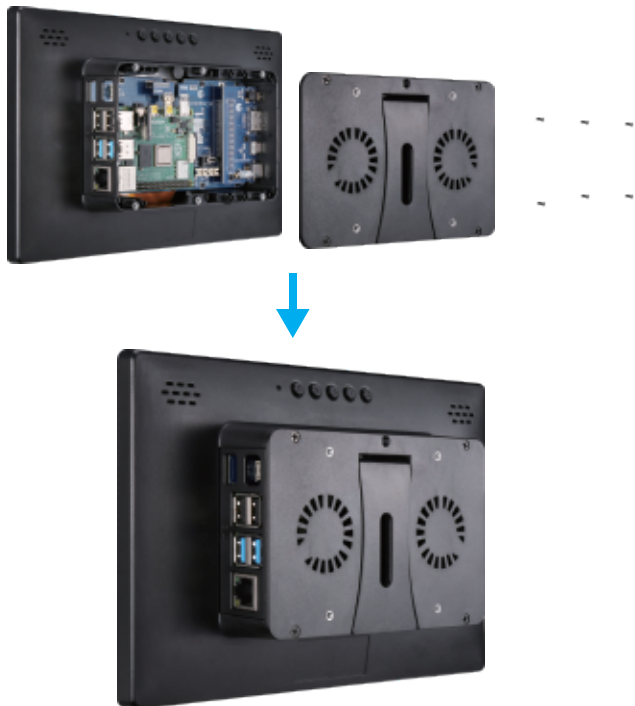PS: If you need to change other PI or you do not need the touch function, just skip step 1 and step 2.

Step 3:

Insert the PI3 Side Panel (note the PI3 position), and fix the Raspberry Pi board to the monitor motherboard.

Step 4:
Screw the shell.

Step 5:
Connect the DC power adapter to the monitor.

Connect to PI4

Function introduction
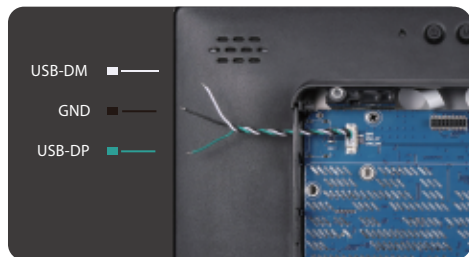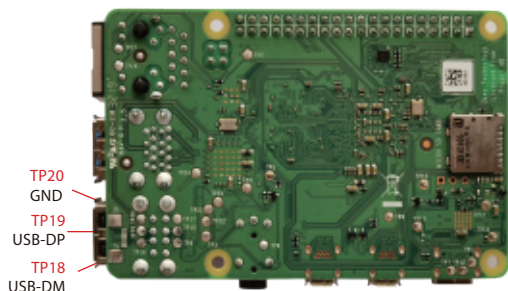
Step 1:

Method 1

Solder the 3pin touch cable to the Raspberry Pi 4B motherboard. (If it is not soldered, the touch function cannot be used).
PP20 --- Black Cable GND.
PP19 --- Green Cable USB-DP.
PP18 --- White Cable USB-DM.
Plug the 3 Pin touch cable into the monitor board.

TP20
GND
TP19
USB-DP
TP18
USB-DM

USB-DM
GND
USB-DP

Function introduction

Method 2

Plug the USB end of the 3 Pin touch cable into the USB port of the Raspberry Pi 4B motherboard.
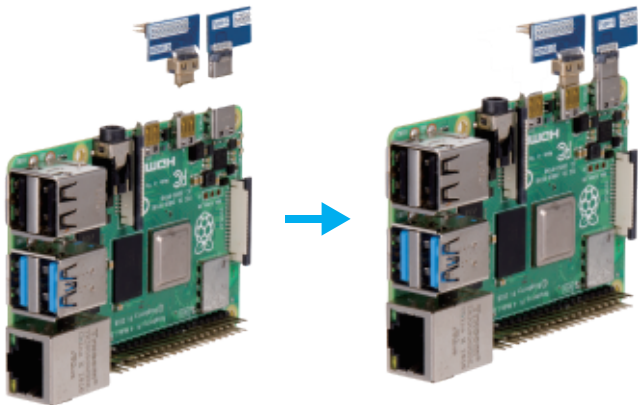
Plug the other end to the monitor board.

Function introduction

Step 2:

Insert the adapter board (HDMI-D and Type-C) to the Raspberry Pi 4B motherboard.

PS: If you need to change other PI or you do not need the touch function, just skip step 1 and step 2.
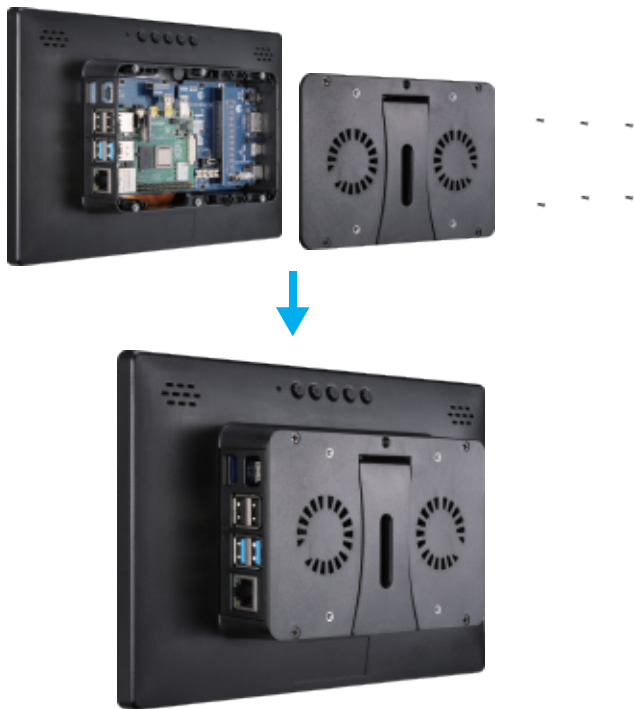

Function introduction

Step 3 :

Insert the PI4 Side Panel (note the PI4 position), and fix the Raspberry Pi board to the monitor motherboard.

Function introduction

Step 4:

Screw the shell.
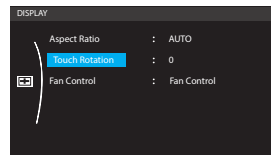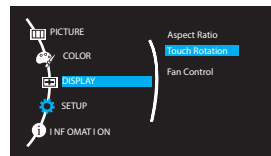

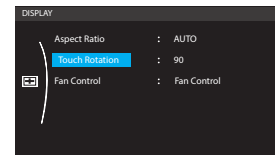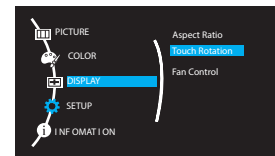Connect the DC power adapter to the monitor.

Touch Rotation

Horizontal Mode

Vertical Mode

PICTURE	Aspect Ratio
COLOR	Touch Rotation
DISPLAY	Fan Control
SETUP	
I NF OMAT I ON	

PICTURE	Aspect Ratio
COLOR	Touch Rotation
DISPLAY	Fan Control
SETUP	
I NF OMAT I ON	

DISPLAY		
Aspect Ratio	:	AUTO
Touch Rotation	:	0
Fan Control	:	Fan Control

Touch 0°

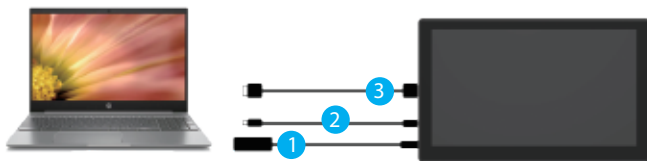| DISPLAY | | |
Aspect Ratio	:	AUTO
Touch Rotation	:	90
Fan Control	:	Fan Control

Touch 90°

The touch screen rotation can solve the user's adjustment of the underlying code of the system and reduce the development cycle.

The capacitive touch screen can be rotated clockwise in the menu setting: 0/90/180/270, 0 is the default normal horizontal screen---Please Kindly Note: touch rotation is for the touch function not for screen rotation.

Connect to PC

① Power Cable
Please use the configured 12V adapter for power supply.

② USB A to C cable
for touch.

③ HDMI Cable
signal transmission.

If there is no touch function, please refer to the picture to check whether the touch cable is connected correctly. You can change the connection with other computer equipment to verify whether there is a problem with the touch interface.

Please note that one end of the touch cable needs to be connected to the monitor and the other end to the computer equipment, host computer, Raspberry Pi or other HDMI devices.
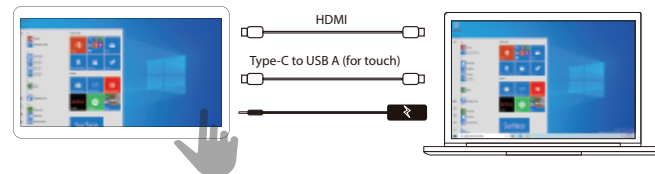
When the monitor is connected to a game device or the monitor's touch end is connected to a power source, socket, or other power supply devices, it cannot be touched.

1. Computer with Type-C interfaces and supports Thunderbolt.

Type-C to Type-C

DC power adapter
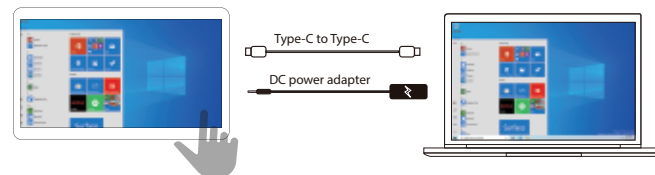
2. Computer with HDMI interface.

HDMI

Type-C to USB A (for touch)
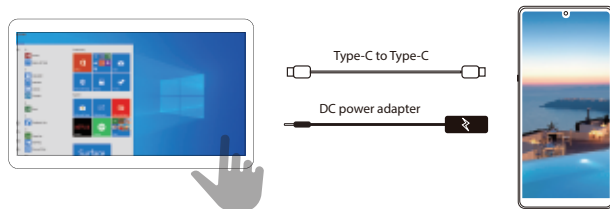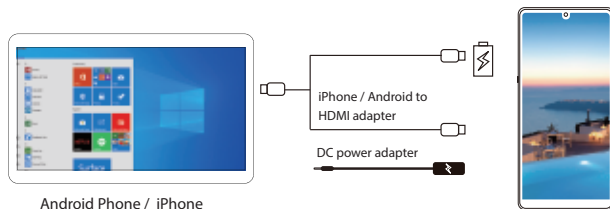
Regarding the connection method as a common monitor

3. Connect to a mobile phone with Type-C interface (USB 3.1)
(with touch function).

Type-C to Type-C

DC power adapter

4. Android phone with Type-C interface but not USB 3.1 or
without Type-C port /iPhone (touch function is not supported).

iPhone / Android to
HDMI adapter

DC power adapter

Android Phone / iPhone

Note: The touch function can't be achieved by some phones which don't support USB 3.1.

⚠ FAQ and Solution

Q: Why the monitor can not be turned on even though the Raspberry Pi has been installed?
A: 1.Please make sure that the mainboard of Raspberry Pi is connected correctly.
2. Please be sure that you use the provided DC power adapter to power up the monitor.

Q: Why is there no touch function after installing the Raspberry Pi?
A: You need to solder the 3 pin touch cable to the Raspberry Pi board. Please refer to page 14 or 20 for the specific connection method. If you have any further questions, please contact us.

Q: Why there is no touch function with HDMI connection?
A: Be sure to connect the U-C cable.

Q: Why is the monitor getting hot?
A: It is recommended that you turn on the cooling system.

Q: Why the monitor can not be turned on after the Raspberry Pi is installed and power adapter is connected properly?
A: 1. Connect the computer to confirm whether the monitor can display normally
2. If there is no problem with the monitor, download the software from the official website of Raspberry Pi to install and check whether the adapter board is aligned and inserted.

Q: Why is there no full screen on the monitor?
A: Please set the monitor as the main screen.

Q: Why the touch function is inaccurate when the monitor is set as a second display?
A: Please set the monitor as the main screen.

Dear Customer:

Thank you for purchasing from us!

We offer 100% money back guarantee within 30 days and replacement within 90 days, 12 months warranty for any issue, professional tech support to ensure no-worry service.

Any query or problem, please contact us via

help@uperfectmonitor.com

we will reply to you within 12 hours.

```
Product Received
  ├─ Satisfied ──→ keep in touch if you have any question
  └─ Not Satisfied
        ├─ Quality Problem ──→ Contact us for free replacement or refund
        ├─ Missing Accessories ──→ Contact us to get them for free
        ├─ User Manual Problem ──→ Contact us for instructions
        ├─ Package Damaged ──→ Contact us for compensation
        └─ Do Not Like It ──→ Contact us for free replacement or refund
```