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› UPERFECT 10.1-inch Raspberry Pi Touchscreen Monitor User Manual

UPERFECT 10108

UPERFECT 10.1-inch Raspberry Pi Touchscreen Monitor User Manual

Model: 10108 | Brand: UPERFECT

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1. INTRODUCTION

Thank you for purchasing the UPERFECT 10.1-inch Raspberry Pi Touchscreen Monitor. This monitor is designed for use with Raspberry Pi 3/4/5, offering a 1280x800 IPS display with 10-point touch functionality. It includes an integrated case, cooling fan, and stand, making it a versatile solution for various projects and applications. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance.

2. SAFETY INFORMATION

- Read all instructions carefully before using the product.
- Keep the monitor away from water, moisture, and extreme temperatures.
- Do not attempt to disassemble or repair the monitor yourself. Refer all servicing to qualified personnel.
- Use only the provided power adapter and cables to prevent damage.
- Ensure proper ventilation to prevent overheating, especially when a Raspberry Pi is installed.
- Avoid placing heavy objects on the monitor.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- UPERFECT 10.1-inch Touchscreen Monitor
- Integrated Case with Stand
- Cooling Fan (pre-installed or separate)
- HDMI Cable

- USB-A to USB-C Cable (for touch function)
- USB-C to USB-C Cable (for video/power with compatible devices)
- Power Adapter
- Screws and tools for Raspberry Pi mounting
- Raspberry Pi 3/4 Panel (for port alignment)

Better than Official RPI Touchscreen

UPERFECT



Touchscreen&
shell case&fan&stand 4 in 1



Suit for RPI 3/4 series or others



High resolution of 1280x800

OTHERS



X No Shell

X Limited RPI model

X Low Resolution of 800x400

Image: UPERFECT 10.1-inch Raspberry Pi Touchscreen Monitor and included accessories.

The UPERFECT 10.1-inch monitor features a high-resolution IPS panel, 10-point capacitive touch, and multiple connectivity options. Its integrated design allows for seamless integration with Raspberry Pi boards.

4.1 Monitor Features

- 10.1-inch IPS Display: Wide viewing angles and accurate colors.
- 1280x800 Resolution: Clear and crisp visuals.
- 10-Point Capacitive Touch: Responsive and precise touch input.
- Integrated Case & Stand: Provides protection and stable positioning.
- Cooling Fan: Helps dissipate heat from the Raspberry Pi.
- Dual Speakers: Built-in audio output.
- VESA Mount Compatible: For alternative mounting solutions.

4.2 Ports and Controls

True Versatility, Connect to More

Multiple devices can be plugged straight into your monitor.

► Build In Pi



► Suitable Devices

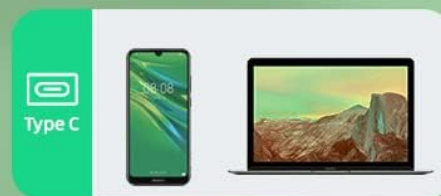


Image: Side view of the monitor highlighting various ports.

- **HDMI Port:** For video input from Raspberry Pi or other devices.
- **Type-C Port:** For video input and power delivery (with compatible devices) or touch signal.

- **DC 12V Port:** For external power supply.
- **3.5mm Headphone Jack:** For audio output.
- **OSD Buttons:** For navigating the On-Screen Display menu.

5. SETUP INSTRUCTIONS

5.1 Mounting a Raspberry Pi

This monitor is designed to integrate a Raspberry Pi board directly into its case. Ensure your Raspberry Pi's SD card is inserted before mounting.

1. Carefully open the lid of the monitor's case.
2. Select the appropriate panel for your Raspberry Pi model (Pi3 or Pi4) and install it to align the ports.
3. Attach the HDMI-D board and Type-C board to your Raspberry Pi board as shown in the video.
4. Gently place the Raspberry Pi board into the designated slot within the monitor case, ensuring all ports align with the installed panel.
5. Connect the touch function cable from the monitor to the Raspberry Pi's USB port.
6. Connect the cooling fan cable to the appropriate pins on the Raspberry Pi.
7. Secure the Raspberry Pi board with the provided screws.
8. Close the lid of the monitor case.

Suit for Most DIY Projects

- Raspberry pi photo frame
- Music player
- Robot brain monitor
- Greenhouse growing vegetables monitor



Image: Internal view of the monitor case with a Raspberry Pi board and cooling fan installed.

Your browser does not support the video tag.

Video: Step-by-step guide on how to install a Raspberry Pi board into the UPERFECT touchscreen monitor case, including connecting the HDMI-D and Type-C boards, and the touch function cable.

5.2 Initial Connection and Power On

1. Connect the power adapter to the DC 12V port on the monitor and plug it into a power outlet.
2. If using an external device (not an internal Raspberry Pi), connect the HDMI cable from your device to the monitor's HDMI port. For touch functionality, also connect the USB-A to USB-C cable from your device's USB port to the monitor's Type-C port.
3. The monitor should power on automatically. If not, press the power button.

6. OPERATING INSTRUCTIONS

6.1 Touchscreen Functionality

The monitor supports 10-point capacitive touch. For Raspberry Pi, ensure your operating system is configured for touchscreen input. For other devices, connect the USB-A to USB-C cable for touch signal transmission.

Note: Touch functionality may not be available or fully supported on all operating systems or devices (e.g., iOS phones, iPads, or Mac computers typically do not support external touchscreen input).

6.2 On-Screen Display (OSD) Menu

Use the OSD buttons on the side of the monitor to access and navigate the menu. This allows you to adjust settings such as brightness, contrast, color temperature, and input source.

6.3 Connecting to Various Devices

- **Raspberry Pi:** Once mounted internally, the Pi connects via internal HDMI and USB for touch.
- **PC/Laptop:** Connect via HDMI for video and USB-A to USB-C for touch.
- **Smartphone (compatible models):** Connect via USB-C to USB-C cable for video and power. Touch functionality depends on phone model and OS support.
- **Gaming Consoles (Xbox, PS4, Switch):** Connect via HDMI for video. Touch functionality is not supported.

The advertisement for the UPERFECT 10.1" Raspberry Pi Touchscreen Monitor features a central image of a hand holding a tablet displaying a 'Circular Mindmap' infographic. To the left, a desktop monitor shows a scenic landscape. Below the main product image, a grid lists features: Smart Home Center, Networked Ai Core, The Media Center, and Factory Controller. A row of icons highlights specifications: 10.0" 10 inch, IPS Panel, Full View Angle, 10-Points Touch, and 3-5ms (Tr+Td). At the bottom, a section titled 'Compatible with Multiple OS' displays logos for Ubuntu, Windows, Raspberry Pi OS, Andriod, Ubuntu Mate, Chrome OS, Mac OS, and Twister OS.

Image: The UPERFECT monitor displaying a Raspberry Pi OS desktop, demonstrating its use as a primary interface.

7. MAINTENANCE

7.1 Cleaning the Screen

To clean the screen, gently wipe it with a soft, lint-free cloth. For stubborn marks, slightly dampen the cloth with water or a screen-cleaning solution. Avoid using harsh chemicals, abrasive cleaners, or direct spraying onto the screen.

7.2 General Care

- Keep the monitor in a clean, dry environment.
- Avoid exposing the monitor to direct sunlight for extended periods.
- Ensure the cooling fan is free from dust and obstructions to maintain optimal airflow for the Raspberry Pi.
- When transporting, use appropriate protective packaging.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Black screen	No power; Incorrect input source; Loose cable connection.	Check power adapter connection; Select correct input source via OSD; Ensure HDMI/Type-C cables are securely connected.
Touch function not working	USB touch cable not connected; OS not configured for touch; Device does not support external touch.	Connect the USB-A to USB-C cable; Configure your OS (e.g., Raspberry Pi OS); Verify device compatibility.
Flickering screen	Faulty cable; Power instability.	Try a different HDMI/Type-C cable; Ensure stable power supply.
No audio	Volume too low; Incorrect audio output selected on source device.	Adjust monitor volume via OSD; Select monitor as audio output on your connected device.
Raspberry Pi overheating	Cooling fan not connected or obstructed.	Ensure cooling fan is properly connected to the Raspberry Pi's GPIO pins and is free from dust.

9. SPECIFICATIONS

Feature	Detail
Screen Size	10.1 Inches
Resolution	1280 x 800 Pixels (HD)
Panel Type	IPS
Touch Type	10-Point Capacitive Touch
Aspect Ratio	16:9
Brightness	370 Nits (typical)
Connectivity	HDMI, Type-C, DC 12V
Audio	Dual Speakers, 3.5mm Headphone Jack

Feature	Detail
VESA Mount	Supported
Product Dimensions	9.65 x 6.3 x 1.61 inches
Item Weight	1.37 pounds
Model Number	10108

10. WARRANTY AND SUPPORT

UPERFECT products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included in your product packaging or visit the official UPERFECT website.

If you encounter any issues or have questions regarding your UPERFECT 10.1-inch Raspberry Pi Touchscreen Monitor, please contact UPERFECT customer support for assistance. Contact information can typically be found on the product packaging or the official UPERFECT website.

