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- › [EVICIV](#) /
- › [EVICIV 10.1 Inch Touchscreen Display \(Model GG114\) User Manual](#)

EVICIV GG114

EVICIV 10.1 Inch Touchscreen Display User Manual

Model: GG114

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your EVICIV 10.1 Inch Touchscreen Display. This versatile monitor is designed to enhance your computing experience, particularly with Raspberry Pi devices, offering a responsive touch interface and broad compatibility.



Figure 1: EVICIV 10.1 Inch Touchscreen Display with its integrated housing.

2. KEY FEATURES

- **All-in-One Raspberry Pi Monitor:** Integrated durable housing protects your Raspberry Pi (compatible with Pi3 and Pi4, with included side panels). Features a built-in cooling fan for heat dissipation.
- **10-Points Capacitive Accurate Touch:** Advanced capacitive (PCAP) touch technology for precise and responsive interaction, supporting gestures like swipe, scroll, zoom, and cursor movement. Includes touch rotation technology for accurate portrait orientation.
- **Plug & Play Functionality:** No driver installation required for basic operation. Compatible with Raspberry Pi devices, computers with HDMI, and phones with Type-C 3.1 ports. Supports Raspbian, Raspberry Pi 400, Linux, and Windows 10/8/7 OS.
- **HD Visual Enjoyment:** 1366x768 resolution with a 1000:1 contrast ratio for high color fidelity. Features a 16:10 aspect ratio and IPS 178° ultra-wide viewing angle for a clear viewing experience.
- **OSD Menu and Versatile Stand:** On-Screen Display (OSD) menu for color/image adjustment and language settings. Offers a foldable stand, VESA hole, and wall-mountable hole for flexible placement.

Compatible with Various Operation Systems

Support Raspbian, Ubuntu, Kali, Windows System.



Figure 2: The display features 10-point projective capacitive touch technology for precise interaction.



Figure 3: Advanced touch rotation technology ensures precise touch accuracy even in portrait orientation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- EVICIV 10.1 Inch Touchscreen Display with Rear Housing
- Pi3 Side Panel
- Pi4 Side Panel
- USB-C to USB-C Cable
- USB-A to USB-C Cable (for touch function)
- Standard HDMI Cable
- HDMI-A Board (for Pi 3B/3B+)
- HDMI-D Board (for Pi 4B)
- Micro USB Board (for Pi 3B/3B+)
- Type-C Board (for Pi 4B)
- 3-Pin Touch Cable
- M2.5 Screws and Philips Screwdriver
- 12V/2000mA Power Adapter
- User Manual



Figure 4: All necessary accessories are included to maximize your Raspberry Pi experience.

4. SETUP INSTRUCTIONS

4.1. Installing the Raspberry Pi

1. Carefully remove the back cover of the display housing using the provided screwdriver. Note that there is a fan attached to the cover, so handle with care to avoid damaging the wires.
2. Select the appropriate side panel (Pi3 or Pi4) for your Raspberry Pi model and attach it to the Raspberry Pi board.
3. Connect the necessary adapters to your Raspberry Pi:
 - For Raspberry Pi 4B: Use the HDMI-D board for video output and the Type-C board for power input.
 - For Raspberry Pi 3B/3B+: Use the HDMI-A board for video output and the Micro USB board for power input.
4. Gently place the Raspberry Pi board with attached adapters into the display housing. Ensure the adapters align correctly with the display's internal connectors.
5. Secure the Raspberry Pi board within the housing using the provided small screws. Apply slight pressure to penetrate the thin plastic covering the screw holes.
6. Connect the 3-pin touch cable from the display to an available USB 2.0 port on your Raspberry Pi. This enables the touch functionality.
7. Carefully reattach the back cover, ensuring the fan wires are not pinched. Secure it with the remaining screws.

Precise Touch Accuracy

No unintentional displacement in portrait mode.

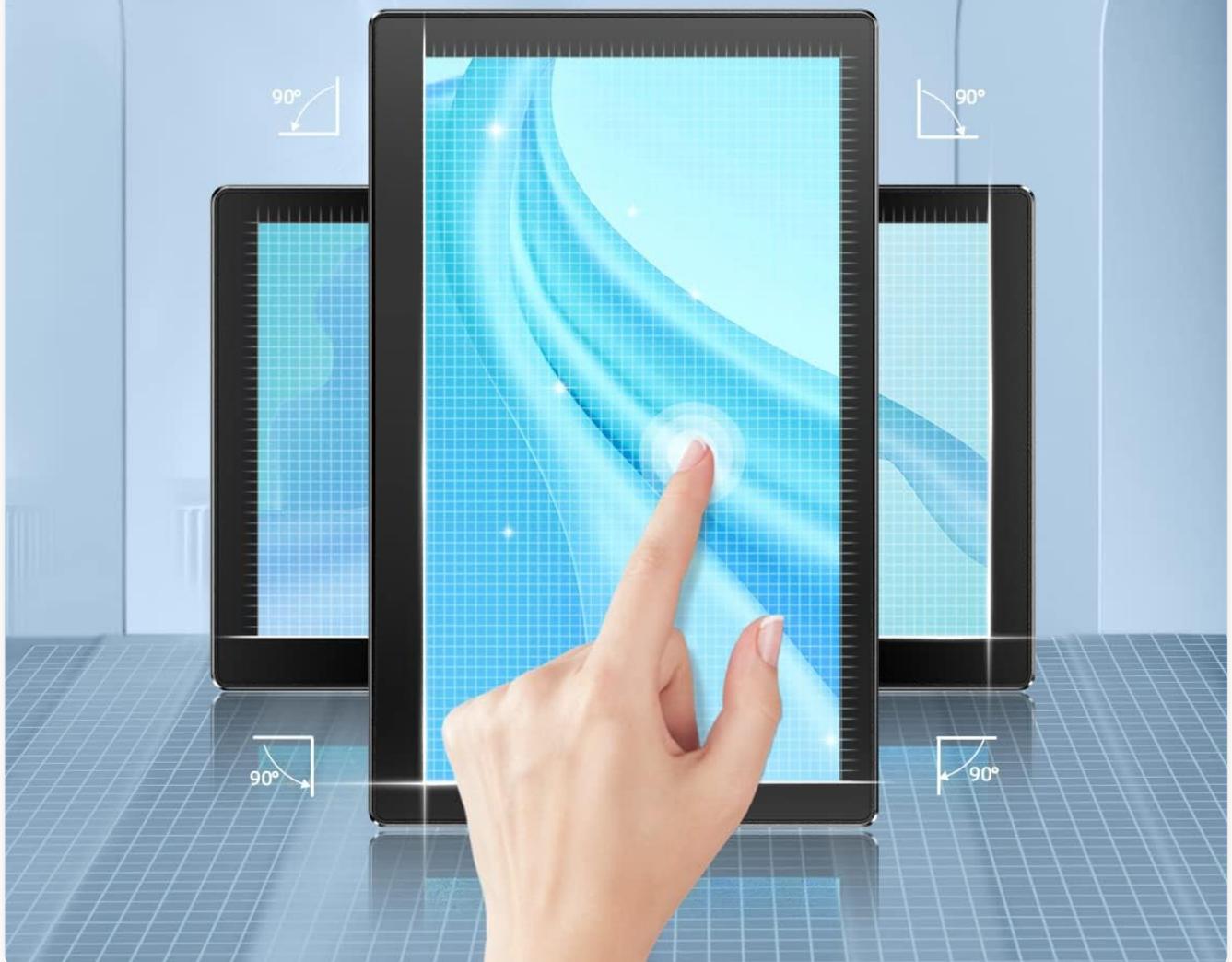


Figure 5: A Raspberry Pi board securely installed within the display's rear housing, showing the integrated cooling fan.

4.2. External Connections

The display offers various ports for connectivity:

- **DC 12V:** Power input port. Connect the provided 12V/2000mA power adapter here.
- **Type-C:** For connecting to devices like smartphones (e.g., Samsung DeX) or laptops that support video output and touch input via a single Type-C cable.

- **HDMI:** Standard HDMI input for video signals from various devices.
- **AUDIO:** 3.5mm audio output jack for external speakers or headphones.

No More Spaghetti Junction

Keep your Pi's work areas tidy and neat.

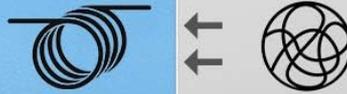


Figure 6: Overview of the DC 12V, Type-C, HDMI, and Audio ports on the rear of the display.

5. OPERATING INSTRUCTIONS

5.1. Powering On and Initial Boot

Connect the 12V power adapter to the DC 12V port. Press the power button located on the back panel to turn on the display and your integrated Raspberry Pi. The initial boot sequence may take some time depending on your operating system.

5.2. OSD Menu Navigation

The OSD (On-Screen Display) menu allows you to adjust various display settings. The control buttons are located on the back panel:

- **Power Button:** Turns the display and Raspberry Pi on/off.
- **Menu Button:** Accesses the OSD menu. Use it to select video input source, fan control, screen rotation, and other options.
- **Up/Down Buttons:** Navigate through menu options and adjust values.
- **Back Button:** Exits the current menu or returns to the previous screen.

5.3. Touchscreen Functionality

The 10-point capacitive touchscreen is plug-and-play for most compatible operating systems. For optimal performance, especially with screen rotation, you may need to adjust settings within the OSD menu or your operating system's display settings.

Ultimate Connectivity

Declutter your desk with All-in-One USB-C cable.



Figure 7: The responsive touchscreen allows for intuitive interaction with the operating system and applications.

5.4. Screen Rotation

To rotate the screen and ensure touch accuracy in portrait mode:

1. Access the OSD menu using the Menu button.
2. Navigate to the 'Display' section.

3. Select 'Touch Rotation' and set it to the desired angle (e.g., 90 degrees for portrait).
4. Confirm the setting and exit the OSD menu.

5.5. Operating System Compatibility

The display is compatible with a wide range of operating systems, including Raspbian, Ubuntu, Kali, and Windows. This broad compatibility allows for diverse applications, from development to multimedia and gaming.



Figure 8: The display supports various operating systems, offering flexibility for different user needs.

6. MAINTENANCE

6.1. Cleaning the Display

Use a soft, lint-free cloth to gently wipe the screen. For stubborn smudges, lightly dampen the cloth with water or a screen-safe cleaning solution. Avoid harsh chemicals or abrasive materials.

6.2. Cooling Fan Control

The built-in cooling fan helps dissipate heat from the Raspberry Pi. You can control the fan's operation (on/off) through the OSD menu under the 'Display' settings. If the fan noise is a concern, you can turn it off, but monitor your Raspberry Pi's temperature, especially during intensive tasks.

7. TROUBLESHOOTING

- **No Display/Signal:** Ensure all cables (power, HDMI/Type-C) are securely connected. Verify the correct input source is selected via the OSD menu.
- **Touchscreen Not Responding:** Check if the 3-pin touch cable is correctly connected to a USB port on your Raspberry Pi. For external devices, ensure the Type-C cable supports touch data transfer. Verify touch rotation settings in the OSD menu if in portrait mode.
- **Fan Noise:** The fan can be controlled via the OSD menu (Display > Fan Control) to turn it off if noise is an issue. Consider alternative cooling solutions if continuous fan operation is required and noise is a major concern.
- **MicroSD Card Access:** The MicroSD card slot on the Raspberry Pi is not easily accessible once installed in the housing. Plan your OS installation and configuration accordingly before final assembly.
- **Samsung DeX Resolution Issues:** Some devices, like Samsung DeX, may report resolution incompatibility. While the display may still function, full DeX features might be limited.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	6.3 x 3.15 x 0.39 inches
Item Weight	2.64 pounds
Screen Size	10.1 Inches (Standing screen display size: 11 Inches)
Resolution	1366x768 (FHD 1080p support)
Aspect Ratio	16:10
Screen Surface Description	Glossy
Viewing Angle	IPS 178°
Touch Technology	10-Point Capacitive (PCAP)
Refresh Rate	60Hz
Power Input	DC 12V / 2000mA
Connectivity	HDMI, Type-C 3.1, 3.5mm Audio Out
Compatibility	Raspberry Pi (3/4), Windows, Linux, Type-C 3.1 devices