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> [HAMTYSAN 7-inch 800x480 Non-Touch HDMI LCD Monitor \(Model HCTG070V.P02\) User Manual](#)

HAMTYSAN HCTG070V.P02

HAMTYSAN 7-inch 800x480 Non-Touch HDMI LCD Monitor (Model HCTG070V.P02) User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. PRODUCT OVERVIEW

The HAMTYSAN 7-inch HDMI LCD Monitor (Model HCTG070V.P02) is a compact, non-touch display designed for versatile applications. It features an 800x480 resolution, tempered glass, and full lamination technology for clear visuals. Equipped with dual speakers, it offers audio capabilities for an enhanced user experience. This monitor is driver-free and compatible with a wide range of devices and operating systems.

Key Features:

- **7-inch LCD Display:** 800x480 resolution with tempered glass and full lamination technology for enhanced clarity and dust prevention.
- **Dual Speakers:** Integrated 3W x 4Ω speakers with adjustable volume for audio output.
- **Versatile Connectivity:** HDMI and USB-C ports for easy connection to various devices.
- **Wide Compatibility:** Supports Raspberry Pi (all versions), Octo Pi, Banana Pi, Retro Pi, gaming consoles (NS/XBOX/PS4), CCTV, laptops, and TV boxes. Compatible with Windows, Noobs, Debian, Ubuntu, and Kodi operating systems.
- **Multiple Display Modes:** Supports Duplicate, Extend, and Second Screen modes for laptop use.
- **Driver-Free:** Plug-and-play functionality for immediate use.

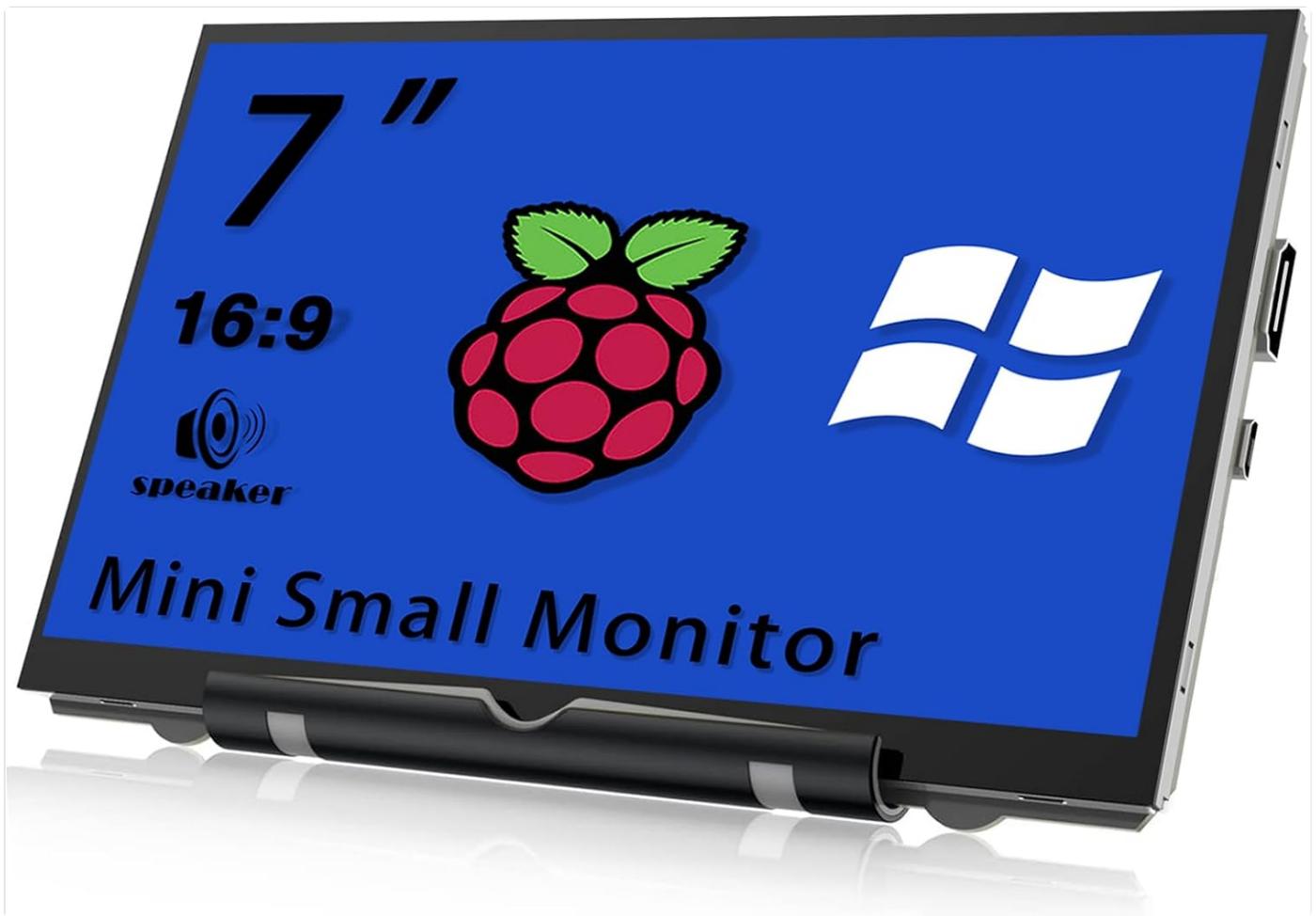


Figure 1: HAMTYSAN 7-inch HDMI LCD Monitor with Raspberry Pi and Windows logos.

This image displays the HAMTYSAN 7-inch HDMI LCD Monitor, highlighting its compact size and compatibility with Raspberry Pi and Windows operating systems. The screen shows a blue background with "7\"", "16:9", "speaker" icon, Raspberry Pi logo, and Windows logo, indicating its primary uses.

2. PACKAGE CONTENTS

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

- 1x HAMTYSAN 7-inch Non-Touch Monitor (Model HCTG070V.P02)
- 1x Adjustable Bracket
- 1x HDMI Cable
- 1x USB-C Power Cable
- 1x User Manual



Figure 2: Contents included in the HAMTYSAN 7-inch HDMI LCD Monitor package.

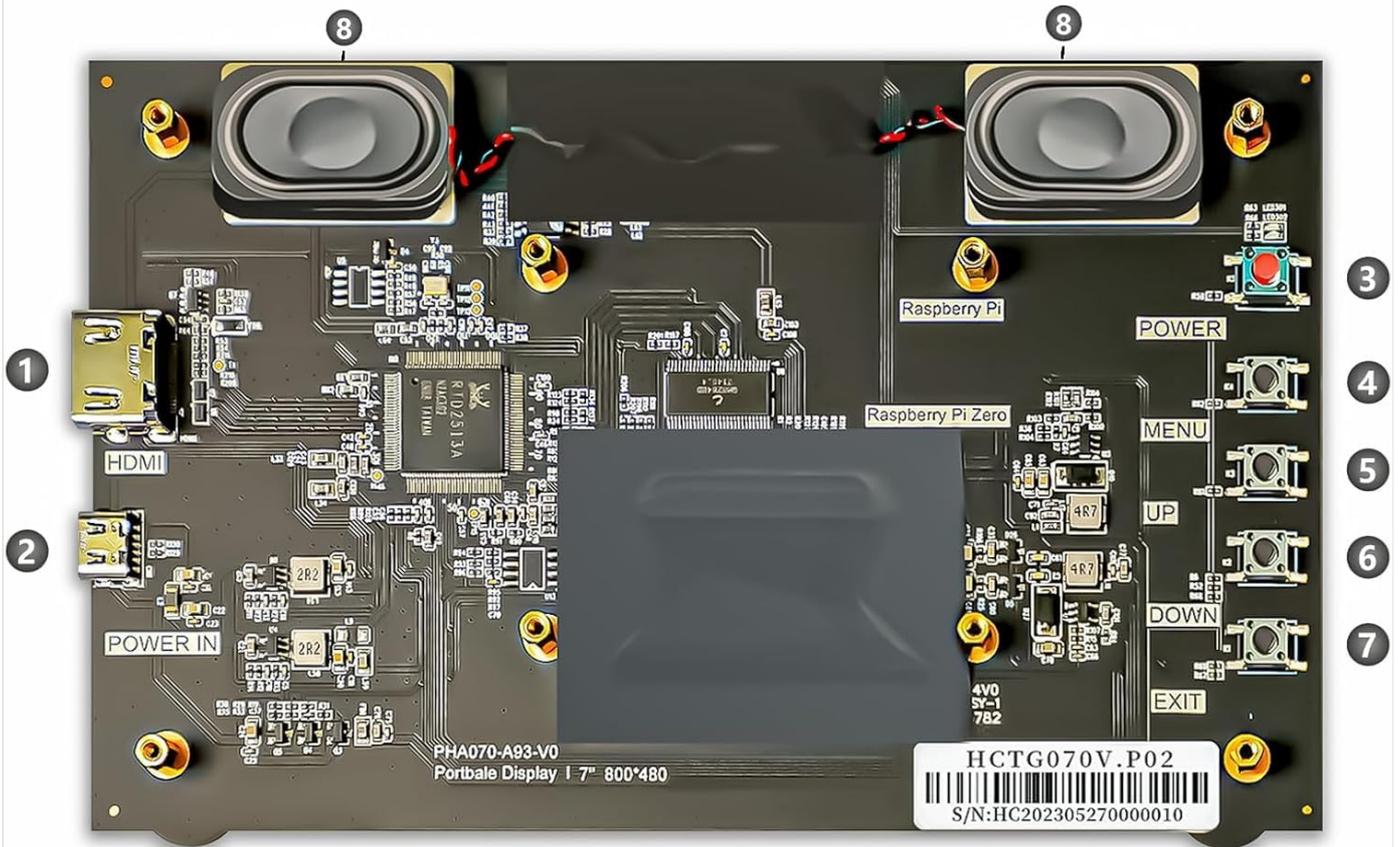
This image displays the contents of the product box: the 7-inch non-touch monitor, an adjustable bracket, an HDMI cable, a USB-C cable, and a user manual. The monitor is shown with a blue screen featuring the Raspberry Pi logo and "Mini Small Monitor".

3. SETUP AND CONNECTIONS

The HAMTYSAN 7-inch monitor is designed for plug-and-play operation. Follow these steps to connect your device.

3.1 Interface Introduction

Button & Interface Introduction



- | | |
|---|---|
| ① HDMI In | ⑤ System menu adjustment [up or right key] |
| ② Type-c Power 5V/2A In | ⑥ System menu adjustment [down or left key] |
| ③ Turn on /off key | ⑦ System menu exit or back to the previous menu key |
| ④ System menu enter in or exit current menu key | ⑧ Supports max 2x3Wx4Ω speaker |

Figure 3: Overview of the monitor's buttons and interfaces.

This diagram illustrates the various buttons and ports on the back of the monitor's circuit board. Key features include: (1) HDMI In, (2) Type-C Power 5V/2A In, (3) Turn on/off key, (4) System menu enter/exit key, (5) System menu adjustment (up/right key), (6) System menu adjustment (down/left key), (7) System menu exit/back key, and (8) Supports max 2x3W x 4Ω speakers.

3.2 Connecting to Devices

Use the provided HDMI and USB-C cables to connect the monitor to your desired device. The USB-C cable provides power to the monitor.

How to connect



Figure 4: Various connection scenarios for the monitor.

This image demonstrates how to connect the monitor to different devices: Raspberry Pi 4, Jetson Nano, PC, Laptop, Nintendo Switch, and Fire TV Stick. Each connection typically involves an HDMI cable for video and a USB cable for power.

1. **Power Connection:** Connect the USB-C power cable to the monitor's Type-C Power 5V/2A In port (2) and to a suitable power source (e.g., USB port on your device, USB wall adapter).
2. **Video Connection:** Connect the HDMI cable from your device's HDMI output to the monitor's HDMI In port (1).
3. **Power On:** Press the Turn on/off key (3) to power on the monitor.

The monitor should automatically detect the input signal. If not, you may need to adjust settings on your connected device or use the monitor's menu to select the input source.

3.3 Compatibility

The monitor is compatible with a broad range of hardware and software:

- **Pi Series:** Raspberry Pi 400, Raspberry Pi 4/3/2/1/3B+/BB, Octo Pi, Banana Pi, Jetson Nano, Orange Pi.
- **Operating Systems:** Raspbian, Ubuntu, Kali, Retropie, Windows (11/10/8/7), Kodi.
- **Other HDMI Devices:** Laptops, Desktop PCs, XBOX, Nintendo Switch, PS4 (*Note: Not compatible with PS5*),

CCTV, Cameras, TV boxes, 3D printers.

Raspberry Pi Series

Game Consoles (Switch/XBOX/PS4)

HDMI Input, Plug and Play

Great Compatible with Various OS and Devices

Raspbian Ubuntu Kali RetroPie Windows Kodi

Laptop/Desktop/PC (Win 7/8/10/11)

Chassis Temperature Monitor

Figure 5: Visual representation of the monitor's broad compatibility.

This graphic illustrates the extensive compatibility of the HAMTYSAN 7-inch monitor. It shows various Raspberry Pi models, operating system logos (Raspbian, Ubuntu, Kali, RetroPie, Windows, Kodi), and other HDMI devices such as laptops, desktops, Xbox, Switch, PS4, and cameras, all indicating seamless integration.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

- **Power On/Off:** Use the dedicated power button (3) on the back of the monitor.
- **Menu Navigation:** Press the Menu button (4) to access the OSD (On-Screen Display) menu. Use the Up (5) and Down (6) buttons to navigate through options. Press the Menu button (4) again to select an option or the Exit button (7) to go back or exit the menu.
- **Volume Control:** The monitor features dual speakers (8). Adjust the volume using the Up (5) and Down (6) buttons when not in the main menu.

5.2 Display Modes for Laptops

When connected to a laptop, the monitor supports three display modes:

- **Duplicate Mode:** The monitor displays the same content as your laptop screen.
- **Extend Mode:** The monitor extends your desktop, providing additional screen space.
- **Second Screen Mode:** The monitor acts as the primary display, with the laptop screen either off or used as a secondary display.

To switch between modes, right-click on your laptop's desktop, select "Display settings," and choose the desired multi-display option.



Figure 6: Illustration of the three display modes for laptop connectivity.

This diagram visually explains the three application modes for laptops: Duplicate Mode (both screens show the same content), Extend Mode (the monitor expands the desktop), and Second Screen Mode (the monitor acts as the primary display). This helps users understand how to configure their display setup.

5.3 Adjusting Display Settings

The OSD menu allows you to fine-tune various display parameters:

- **Brightness:** Adjust the screen's overall luminance.
- **Contrast:** Modify the difference between the brightest and darkest areas of the screen.

- **Black Equalizer:** Enhance visibility in dark scenes.
- **Low Blue Light:** Reduce blue light emission for eye comfort.
- **ECO Mode:** Optimize power consumption.
- **DCR (Dynamic Contrast Ratio):** Automatically adjust contrast for optimal viewing.

6. MEDIA INTEGRATION AND DEMONSTRATIONS

6.1 Product Demonstrations

Watch these official product videos from HAMTYSAN Official Store for visual guidance on setup and usage.

Video: HDMI monitor for Switch/PS4/Xbox

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This video demonstrates the HAMTYSAN 7-inch monitor connected to a Nintendo Switch, showcasing its display quality and built-in speakers. It highlights the ease of setup and the vibrant colors when playing games. The video also briefly shows the menu options for brightness and volume control.

Video: Small HDMI monitor for the Laptop

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This video illustrates connecting the HAMTYSAN 7-inch monitor to a laptop. It emphasizes the monitor's portability and its utility as an external display for productivity or entertainment. The video shows the monitor displaying a desktop environment, demonstrating its plug-and-play functionality.

Video: HDMI monitor for Laptop/PC

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This video provides a detailed look at connecting the HAMTYSAN 7-inch monitor to a laptop and a PC. It showcases the monitor's ease of use, the included cables, and the functionality of the control buttons on the back. The video demonstrates adjusting brightness and volume, and displaying web content on the monitor.

Video: Small HDMI Monitor - Perfect for Laptop PC or Raspberry Pi

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This video offers a comprehensive overview of the HAMTYSAN 7-inch monitor, emphasizing its suitability for both laptops/PCs and Raspberry Pi projects. It demonstrates the monitor's compact design, the included stand, and the various ports. The video highlights the plug-and-play nature and the built-in speakers, making it a versatile display solution.

7. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, lint-free cloth to clean the screen. For stubborn smudges, lightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- **Storage:** When not in use, store the monitor in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the monitor with care. Avoid dropping it or applying excessive pressure to the screen.
- **Power:** Always use the provided USB-C power cable or a compatible 5V/2A power source.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/Black screen	No power, incorrect input source, faulty cable.	Ensure the USB-C power cable is securely connected and receiving power. Verify the HDMI cable is properly connected to both the monitor and the source device. Use the monitor's menu to manually select the correct input source. Test with a different HDMI or USB-C cable if available.
No sound	Volume too low, muted, or audio output not selected on source device.	Increase the monitor's volume using the Up button (5). Check the volume settings on your connected device and ensure audio is routed to the HDMI output. Ensure the monitor is not muted.
Image flickering or distorted	Cable issue, resolution mismatch, or interference.	Ensure cables are securely connected. Adjust the resolution on your source device to 800x480 or a compatible setting. Try a different HDMI cable.
Buttons unresponsive	Temporary software glitch or power issue.	Power cycle the monitor (turn off, unplug, wait 10 seconds, plug back in, turn on).

If the problem persists after trying these solutions, please contact HAMTYSAN customer support.

9. SPECIFICATIONS

Feature	Detail
Model Number	HCTG070V.P02
Screen Size	7 Inches
Resolution	800x480 Pixels (HD)
Aspect Ratio	16:9
Image Brightness	300 Lux
Screen Surface	Glossy, Tempered Glass, Full Lamination
Speakers	Dual, 3W x 4Ω
Connectivity	HDMI In, Type-C Power 5V/2A In
Product Dimensions	0.39 x 6.5 x 4.09 inches
Item Weight	1.15 pounds
Manufacturer	HAMTYSAN

10. WARRANTY AND SUPPORT

All HAMTYSAN LCD monitors are tested and fully packaged before leaving the factory. If there are any quality issues with the product, please contact HAMTYSAN customer support for assistance. HAMTYSAN is committed to providing customers with better products and services.

For further support, please visit the [HAMTYSAN Official Store](#).