ELECROW RC070S

ELECROW 7 Inch Touchscreen Monitor (Model RC070S) Instruction Manual

1. Product Overview

This manual provides detailed instructions for the setup, operation, and maintenance of your ELECROW 7 Inch Touchscreen Monitor, Model RC070S. Please read thoroughly before use.

Model: RC070S

Brand: ELECROW

The ELECROW 7-inch IPS touchscreen offers a 1024x600 resolution, adjustable via software to 1920x1080. It features vivid colors, a 178° viewing angle, and a durable, scratch-resistant tempered glass touch panel. Designed for plug-and-play functionality, it connects via HDMI for video and USB for power and touch control, requiring no additional drivers. It is compatible with various devices including Raspberry Pi 5/4/3B+/3B/2B+, Banana Pi, Jetson Nano, PCs, laptops, and gaming consoles. The monitor supports 5-point capacitive touch on Windows 11/10/8/7 and single-touch on Raspberry Pi and Jetson Nano. Integrated dual speakers and a 3.5mm headphone jack provide immersive audio, with adjustable volume and backlight settings.

2. Package Contents

- 1 x 7 Inch IPS Monitor
- 1 x USB to Micro USB Connector
- 1 x HD to Micro HD Connector
- 1 x USB to Micro USB Cable
- 1 x HD to HD Cable
- 4 x M2.5 Screws
- 2 x M3 Screws
- 2 x Speakers
- 2 x Pro Stand
- 4 x Small Copper Pillars

3. Technical Specifications

Feature	Specification
Display Screen Size	7 Inches
Panel Type	IPS
Touch Type	5-point Capacitive Touch
Resolution	1024 x 600 Pixels (Software adjustable to 1920x1080)
Brightness	260 cd/m²
Viewing Angle	178° (H) / 178° (V)
Refresh Rate	60Hz
HDMI Ports	1
USB Ports	1 (for power and touch)
Audio Output	3.5mm Audio Jack, Built-in Dual Speakers
Input Voltage	5 Volts
Total Power (Max)	2.55W
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Product Dimensions	1 x 6.5 x 4 inches
Item Weight	8.3 ounces
Supported OS	Windows 11/10/8/7, Raspbian, Ubuntu, Kali, Retropie, Jetson Nano

4. Setup and Installation

4.1 General Assembly

To set up the monitor, first attach the included stands to the bottom of the display using the provided screws. Ensure the protective film is removed from the stands before assembly.

Figure 1: Attaching the stands to the monitor. The stands provide stability for desktop use.

4.2 Raspberry Pi Connection

For Raspberry Pi connections, use the provided HDMI cable for video and the USB cable for power and touch functionality. For Raspberry Pi 4 and 5, use the included Micro-HDMI to HDMI adapter. No drivers are required for basic functionality.

Important: For Raspberry Pi 4, if using a system image after 2021-10-30 (e.g., Bullseye), modify `dtoverlay = vc4-kms-v3d` to `dtoverlay = vc4-fkms-v3d` in the `config.txt` file. For Buster, comment out `dtoverlay = vc4-fkms-V3D` by adding a '#' at the beginning of the line.

Figure 2: Raspberry Pi connected to the monitor. The short cables minimize clutter and are ideal for integrated setups.

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Video 1: Step-by-step guide on how to install the 7-inch screen with a Raspberry Pi, demonstrating cable connections and initial setup.

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Video 2: Instructions on how to install the Raspberry Pi board with the screen, detailing the physical mounting and connections.

4.3 PC Connection

Connect the monitor to your PC or laptop using the HDMI cable for video and the USB cable for power and touch. The monitor is driver-free for Windows 11/10/8/7. Adjust display settings on your PC for optimal resolution.

Figure 3: Monitor connected to a PC or laptop, demonstrating its use as an extended display.

5. Operating the Monitor

5.1 Touch Functionality

The monitor features a 5-point capacitive touchscreen for multi-touch gestures on Windows and single-touch on Raspberry Pi and Jetson Nano. Ensure the USB cable is connected to enable touch input.

Figure 4: User interacting with the 5-point capacitive touch screen.

5.2 On-Screen Display (OSD) Menu

The monitor includes tactile buttons on the side for navigating the OSD menu. These buttons allow adjustment of various display settings:

- **Picture:** Adjust backlight, brightness, contrast, and sharpness.
- **Color:** Modify panel uniformity, gamma, temperature, and color effects.
- **Advance:** Set aspect ratio.
- **Audio:** Control volume and mute.

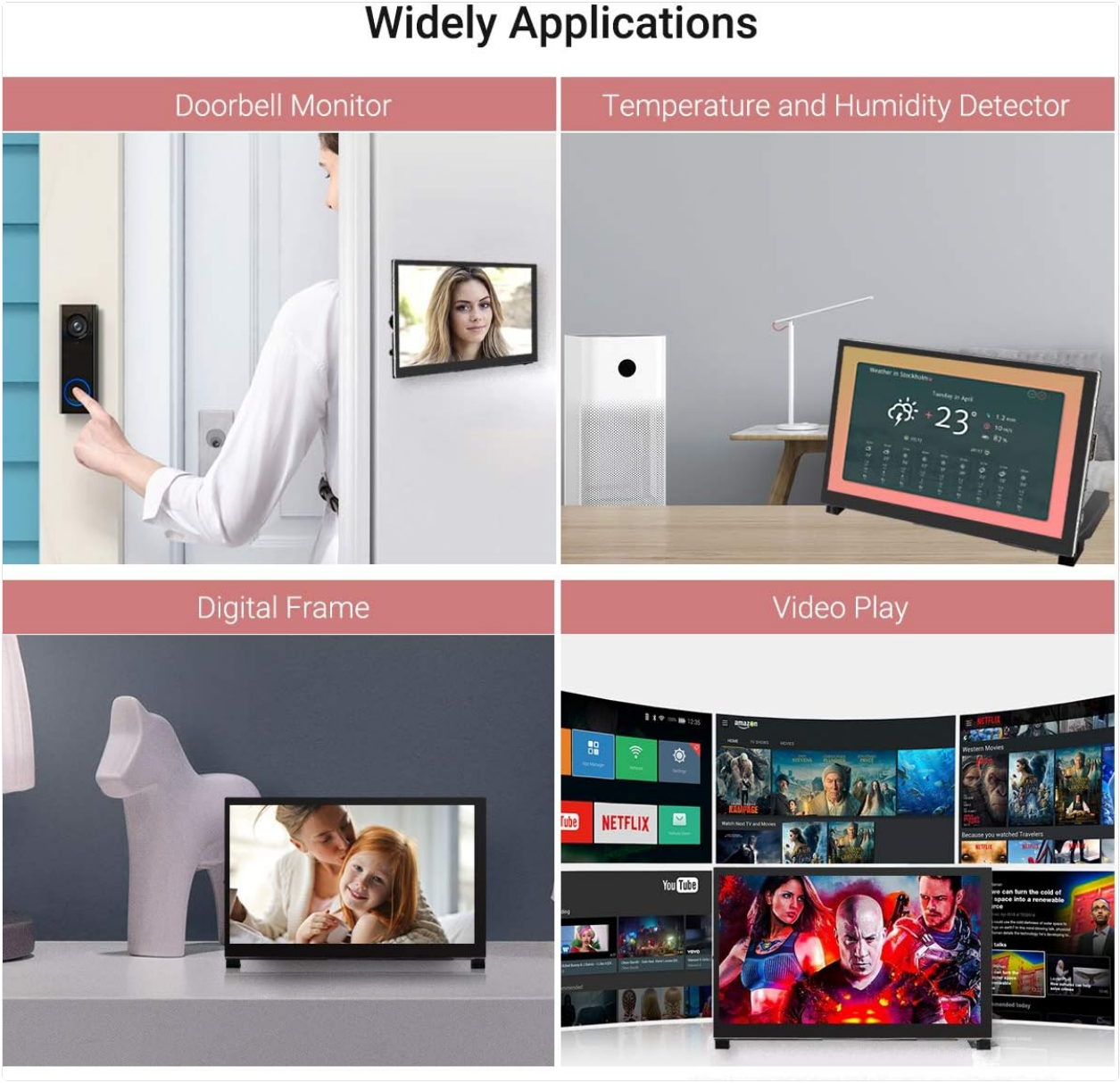

Figure 5: Rear view of the monitor highlighting the OSD menu buttons and various ports.

5.3 Audio Features

The monitor is equipped with built-in dual speakers and a 3.5mm headphone jack for audio output. Digital audio output is also supported via HDMI.

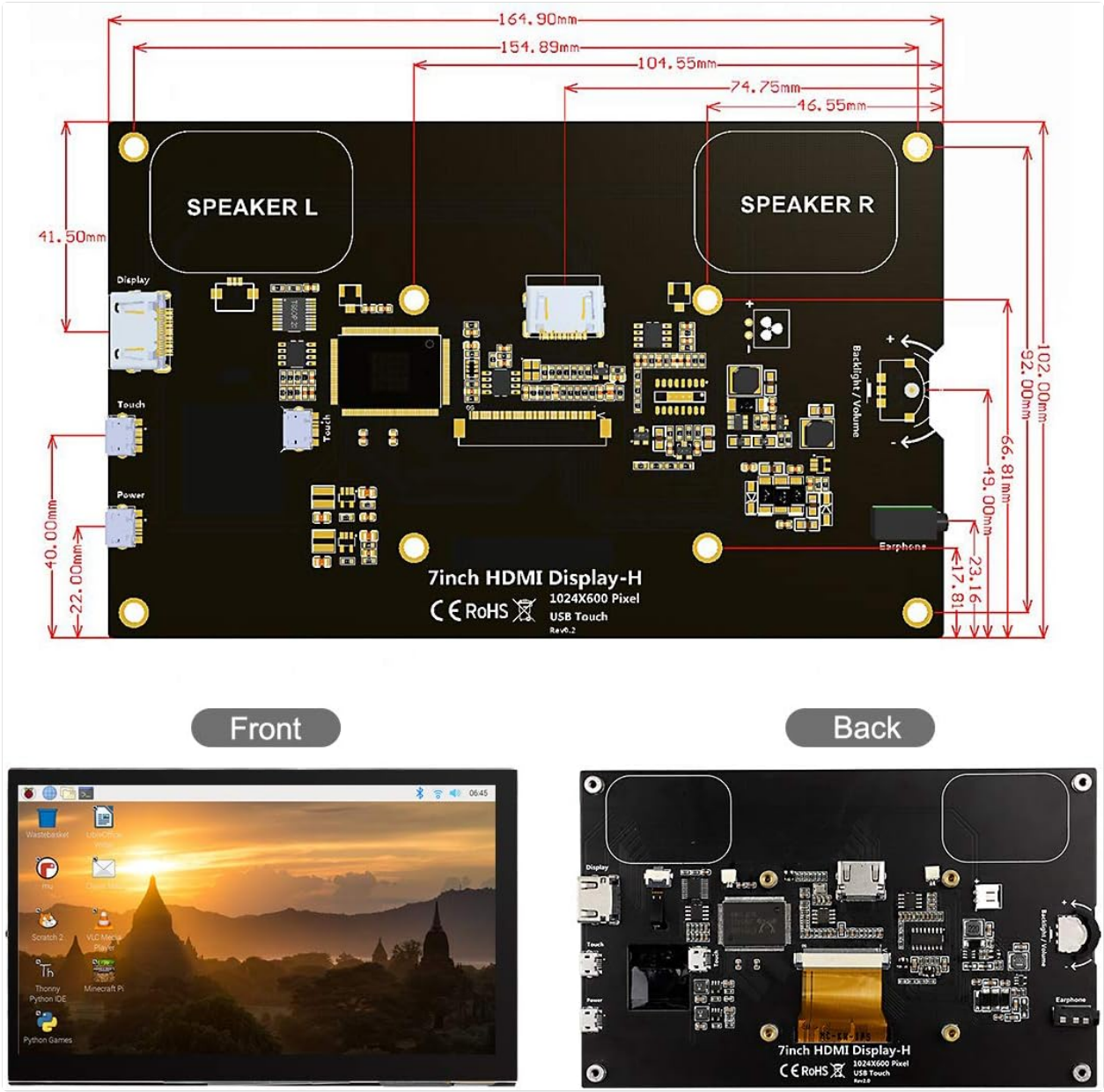

Figure 6: Monitor with integrated dual speakers for audio output.

6. Troubleshooting

- **Monitor not powering on:** Ensure the power cable (USB-A to C) is properly plugged into both the Raspberry Pi/PC and the monitor.
- **Image is reversed:** The monitor does not support image flip.
- **No touch functionality:** Verify the USB-A to C cable is securely connected between the host device and the monitor.
- **No signal on display:** Ensure the HDMI cable is properly connected between the host device and the monitor. If using a mini HDMI port, ensure the correct adapter is used.
- **Speakers at high volume cause issues:** When speakers are at 80% or more volume, connect the power port (not touch port) to provide full power.

7. Important Notes

- The Raspberry Pi cannot be powered by powering the screen.
- Always connect the power interface when powering the screen. Supplying power through the touch interface may lead to insensitive or unusable touch functionality.

8. Warranty and Support

ELECROW products offer a one-year warranty. For quality-related issues, you may return any undamaged product within 12 months for a refund or replacement. Shipping costs and charges are not included.

For support or inquiries, please contact ELECROW customer service:

- **Website:** www.eyoyousa.com
- **Email:** support@eyoyomonitor.com
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