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Yinker 4K30Hz 8 in 8 out w/2x4 video wall

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Model: 4K30Hz 8 in 8 out w/2x4 video wall

1. INTRODUCTION

This manual provides detailed instructions for the Yinker 4K30Hz 8x8 HDMI Matrix Video Wall Controller. This device functions as an 8-input, 8-output HDMI matrix for routing any source to any display, and as a powerful 4x2 HDMI video wall controller. It supports various display modes, 4K@30Hz resolution, EDID management, HDCP, and 3.5mm audio embedding/de-embedding. Control is available via panel buttons, IR remote, RS232/LAN, Web GUI, and a dedicated Android application.



Front view of the Yinker 4K30Hz 8x8 HDMI Matrix Video Wall Controller.

2. WHAT'S IN THE BOX

Please verify that all items listed below are included in your package:

- 8x8 HDMI Matrix with Video Wall Controller (1 unit)
- RS232 Cable (1 unit)
- Power Adapter & Cable (1 unit)
- Ground Wire (1 unit)
- IR Remote (1 unit)
- Rack Kit (1 unit)
- User Manual (1 unit)

What's in the box?



1 Hdmi Matrix switcher *1pcs



2

Matrix
Contorller



3

Power
Adapter



4

RS232 Serial
Cable



5

Ground
Wire



6

A Pair of
bracker

Image showing the Yinker 8x8 HDMI Matrix with all included accessories.

Unboxing Video

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This video demonstrates the unboxing of the Yinker 4K HDMI Matrix, showcasing the included components and initial setup.

3. PRODUCT OVERVIEW & FEATURES

The Yinker 4K30Hz 8x8 HDMI Matrix Video Wall Controller is designed for versatile video distribution and display management. Key features include:

- **8x8 HDMI Matrix & 4x2 Video Wall:** Functions as an 8-input, 8-output HDMI matrix for flexible source-to-display routing, and as a powerful 4x2 HDMI video wall controller.
- **Customized Splicing Display:** Supports multiple splicing modes (e.g., 4x2, 2x4, 2x2, 8x1, 1x8) to create custom video wall layouts. Other screens can operate in mirroring mode.
- **Multiple Control Methods:** Control the device via front panel buttons, IR remote, RS232/LAN, Web GUI, or a dedicated Android application.
- **4K High Definition:** Supports resolutions up to 4K@30Hz, compatible with 2K@30Hz and 1080P@60Hz. Features HDCP and EDID management, HDR, and Dolby Vision.

- **Audio Support:** Independent audio management with 3.5mm embedding/de-embedding at every port. Supports PCM, Dolby AC3, DTS5.1, DTS7.1, and DSD audio formats.
- **Scene Presets:** Supports saving and recalling up to 16 scene presets.



Illustration of various display modes supported by the matrix controller.



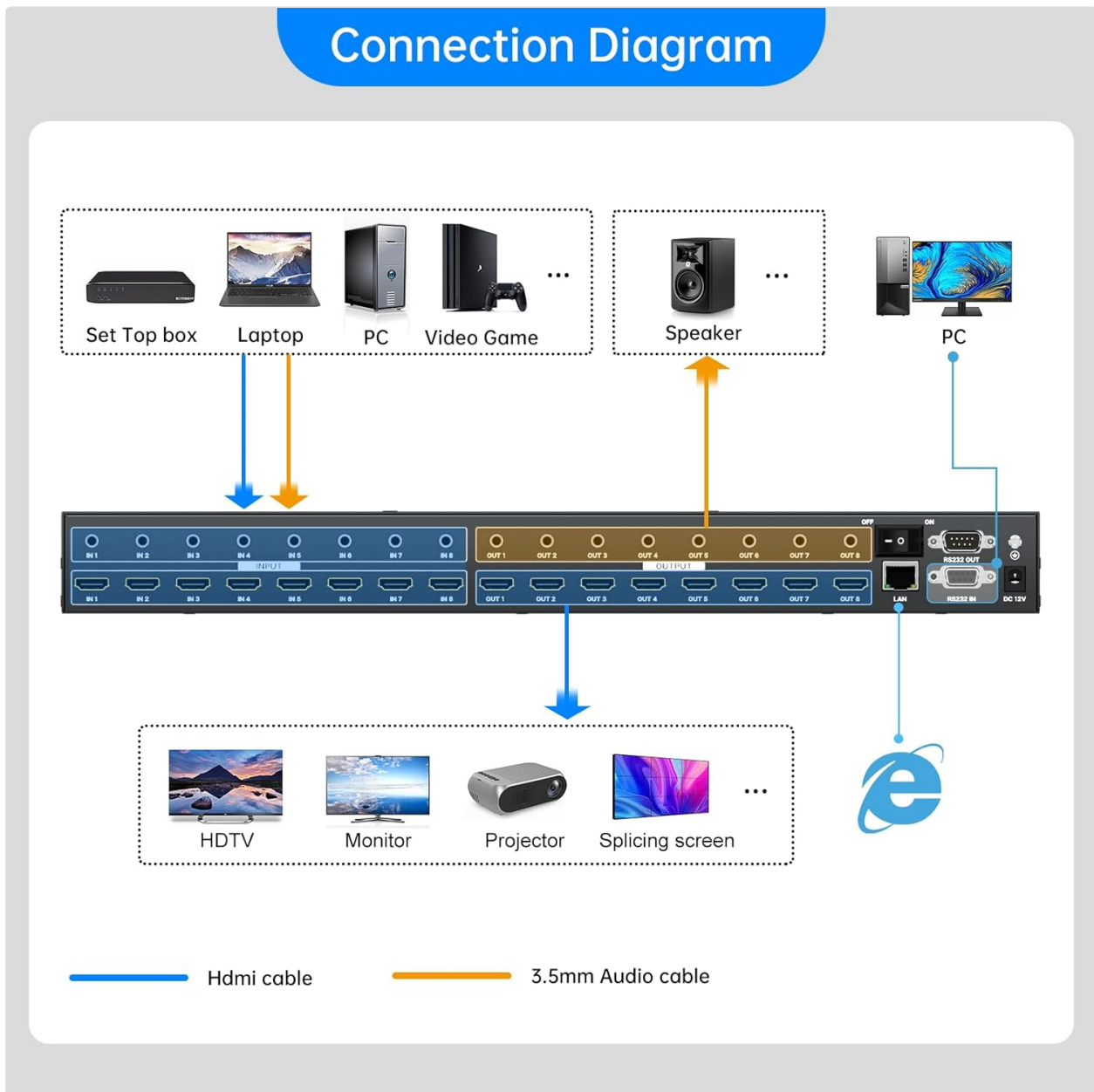
Overview of the five different control methods available for the device.

4. SETUP

Follow these steps to set up your Yinker HDMI Matrix Video Wall Controller:

1. **Power Connection:** Connect the provided power adapter to the DC 12V port on the rear panel of the matrix controller and plug it into a power outlet.
2. **Input Connections:** Connect your HDMI source devices (e.g., gaming consoles, laptops, PCs, set-top boxes) to the HDMI IN ports (IN 1 to IN 8) on the matrix controller using high-quality HDMI cables.
3. **Output Connections:** Connect your display devices (e.g., HDTVs, monitors, projectors, splicing screens) to the HDMI OUT ports (OUT 1 to OUT 8) on the matrix controller using high-quality HDMI cables.
4. **Audio Connections (Optional):** If using external audio systems, connect 3.5mm audio cables to the corresponding audio input/output ports for embedding or de-embedding audio.
5. **Network Connection (Optional):** For Web GUI or App control, connect an Ethernet cable from your network router/switch to the LAN port on the matrix controller.
6. **RS232 Connection (Optional):** For RS232 control, connect the RS232 cable to the RS232 port on the

matrix controller and your control system.



Detailed connection diagram illustrating HDMI inputs, outputs, and control interfaces.

Connection Demonstration Video

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This video demonstrates the physical connection process for the Yinker 4K HDMI Matrix, including power and HDMI cables.

5. OPERATING INSTRUCTIONS

The Yinker HDMI Matrix Video Wall Controller offers multiple ways to manage your video and audio signals.

5.1. Front Panel Button Control

Use the buttons on the front panel to navigate menus, select inputs/outputs, and change display modes. The LCD screen provides real-time status and menu options.

- **IN PUT / OUT PUT Buttons:** Select the desired input and output ports.

- **ALL Button:** Assign a single input to all outputs.
- **EDID Button:** Access EDID management settings.
- **UP / DOWN Buttons:** Navigate through menu options.
- **MENU Button:** Enter or exit menu settings.
- **ENTER Button:** Confirm selections.

5.2. IR Remote Control

The included IR remote control allows for convenient wireless operation of the matrix switcher from a distance. Point the remote directly at the IR receiver on the front panel.

5.3. RS232/LAN Control

For advanced integration with control systems, the device supports RS232 and LAN (Telnet) commands. Refer to the detailed command set in the full user manual for programming instructions.

5.4. Web GUI Control

Access the Web Graphical User Interface (GUI) for comprehensive control and configuration via a web browser.

1. **Connect Network Cable:** Ensure the matrix controller's LAN port is connected to your network.
2. **Configure PC IP:** On your computer, open Network & Internet settings. Go to 'Change adapter options', double-click on your local network connection, and open TCP/IPv4 properties. Set a static IP address (e.g., 192.168.1.xxx, where xxx is not 200), Subnet mask (255.255.255.0), and Default gateway (192.168.1.1). Save changes.
3. **Access Web GUI:** Open a web browser and enter the matrix's default IP address (192.168.1.200) in the address bar.
4. **Login:** The initial username and password are both 'admin'.
5. **Control & Configuration:** The Web GUI provides tabs for 'Setting', 'Switch', 'Channel Name', 'Scene', 'Advance', and 'Custom Setting' to manage inputs, outputs, display modes, EDID, and other parameters.

5.5. App Control

A dedicated Android application is available for controlling the matrix switcher. Download and install the app on your Android device, then connect to the matrix via your local network.

5.6. Display Modes

The controller supports various display modes to suit different applications:

- **Seamless Matrix Mode:** Switch between any input and any output instantly without black screens or delays.
- **Splitter Mode:** Distribute a single input source to multiple displays.
- **Splicer Mode (Video Wall):** Combine multiple displays to form a single large video wall, supporting custom layouts like 4x2, 2x4, 2x2, etc.
- **Multi-view Mode:** Display multiple input sources simultaneously on a single screen or across multiple screens, each selecting a standalone input.

Operating Demonstration Video

Your browser does not support the video tag.

This video provides a comprehensive demonstration of the Yinker 4K HDMI Matrix's operational features,

including panel control, web interface, and various display modes.

6. MAINTENANCE

To ensure optimal performance and longevity of your Yinker HDMI Matrix Video Wall Controller, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or aerosols, which may damage the unit.
- **Ventilation:** Ensure proper ventilation around the device to prevent overheating. Do not block any ventilation openings.
- **Power Off:** Disconnect the power supply when the device is not in use for extended periods or during electrical storms.
- **Cable Management:** Keep all cables neatly organized and avoid sharp bends or excessive tension to prevent damage.

7. TROUBLESHOOTING

If you encounter issues with your Yinker HDMI Matrix Video Wall Controller, refer to the following common troubleshooting steps:

- **No Signal/Display:**
 - Verify all HDMI cables are securely connected to both source devices and displays.
 - Ensure the correct input is selected on the matrix and the correct input is selected on your display.
 - Check if the source device is powered on and outputting a signal.
 - Try using different HDMI cables or a different input/output port to rule out cable or port issues.
 - Confirm that the display supports the resolution and refresh rate being output by the matrix. Adjust resolution settings if necessary.
- **Control Issues (Remote/Panel/Web GUI):**
 - For IR remote, ensure line of sight to the IR receiver and check battery levels.
 - For Web GUI/App control, verify network connectivity and correct IP address configuration. Ensure the matrix and control device are on the same network segment.
 - Restart the matrix controller and the control device.
- **Audio Problems:**
 - Check audio cable connections.
 - Ensure audio settings on the source device and display are correctly configured.
 - Verify audio embedding/de-embedding settings on the matrix controller.
- **VHF Noise/Interference:** Some users have reported VHF spectrum noise. If experiencing interference with other devices, consider using HDMI cables with ferrite beads or adding ferrite beads to existing cables. Turning off the unit when not in use may also mitigate the issue.

8. SPECIFICATIONS

Feature	Description
Model	4K30Hz 8 in 8 out w/2x4 video wall
Color	Black
Connector Type	HDMI
Compatible Devices	Gaming Console, Monitor, Television
Cable Type	HDMI
Built-In Media	4K HDMI Matrix Switch 8x8 Video Wall Controller
Number of Ports	16 (8 Input, 8 Output)

9. WARRANTY AND SUPPORT

The Yinker 4K30Hz 8x8 HDMI Matrix Video Wall Controller comes with a **1-year warranty** from the date of purchase, covering manufacturing defects. For technical support, troubleshooting assistance, or warranty claims, please contact YinkerOfficial customer support.

Optional extended protection plans are available for purchase:

- **2-Year Protection Plan:** \$47.99 (one-time)
- **3-Year Protection Plan:** \$60.99 (one-time)
- **Complete Protect:** \$16.99 (monthly, covers all eligible past and future purchases)

For further assistance, please refer to the contact information provided with your product or visit the official Yinker website.