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RIJER TV09RIJER

RIJER TV09RIJER 3x3 4K Video Wall Controller Instruction Manual

Model: **TV09RIJER** | Brand: **RIJER**

1. Introduction

The RIJER TV09RIJER is a 4K UHD multi-screen video wall controller designed for various display units such as LCD TVs, ultra-narrow side LCD screens, and projectors. This device divides a single HDMI HD image signal into up to nine parts, distributing them to multiple display units to form a dynamic image wall. It integrates a media player and offers multiple control methods for flexible operation.

Product Overview Video



Video: An official overview of the RIJER 3x3 4K Video Wall Controller, demonstrating its features and capabilities in action.

2. Key Features

- **Multi-Screen Splicing:** Supports 1-9 HDMI output stitching with various modes including 1x1, 1x2, 1x3, 1x4, 1x5, 2x2, 2x3, 2x4, 3x2, 3x3, 4x2, 3x1, 4x1.
- **4K Resolution Support:** Accepts input video resolutions up to 3840x2160P at 25/30Hz and 1920x1080P at 25/30/50/60Hz. Each output supports 1920x1080P at 25/30/50/60Hz.
- **Media Player:** Features an 8GB local disk and supports USB video source playback. Content from a USB disk can be copied to the local disk for auto-play.
- **Multiple Control Methods:** Operable via infrared remote control, front panel buttons, RS-232, and voice control.
- **Edge Masking Function:** Compensates for physical display borders, ensuring a natural and realistic image without distortion or stretching across screens.
- **Audio Output:** Includes an individual 3.5mm stereo audio port for connecting external speakers, amplifiers, or soundbars.
- **HDMI Compliance:** Compliant with HDMI 1.4 and HDCP 1.4 standards.

3. Package Contents

Verify that all items are present in the package:

- RIJER TV09RIJER 3x3 Video Wall Controller
- IR Remote Control
- Power Adapter (DC 12V)
- User Manual



Image: Contents of the RIJER TV09RIJER package, including the controller, remote, power adapter, and manual.

4. Setup Instructions

4.1 Connecting Devices

1. Ensure all devices (source, displays, and controller) are powered off before making connections.
2. Connect your HDMI source device (e.g., computer, PS3/4, HD media player, TV box, STB) to the **HDMI IN** port on the RIJER TV09RIJER controller using an HDMI cable.
3. Connect your display units (e.g., TVs, monitors, projectors) to the **Output1** through **Output9** HDMI ports on the controller. Use separate HDMI cables for each display.
4. For external audio, connect an audio cable from the 3.5mm stereo audio port on the controller to your external speaker, amplifier, or soundbar.
5. If using RS-232 control, connect an RS-232 cable from your control system to the **RS232** port on the controller.
6. Insert a USB disk into the **USB** port or an SD card into the **SD Card** slot if you plan to use the built-in media player.
7. Connect the provided DC 12V power adapter to the **DC/12V** port on the controller and then plug it into a power outlet.
8. Power on the controller using the **ON/OFF** switch. Then, power on your source device and display units.

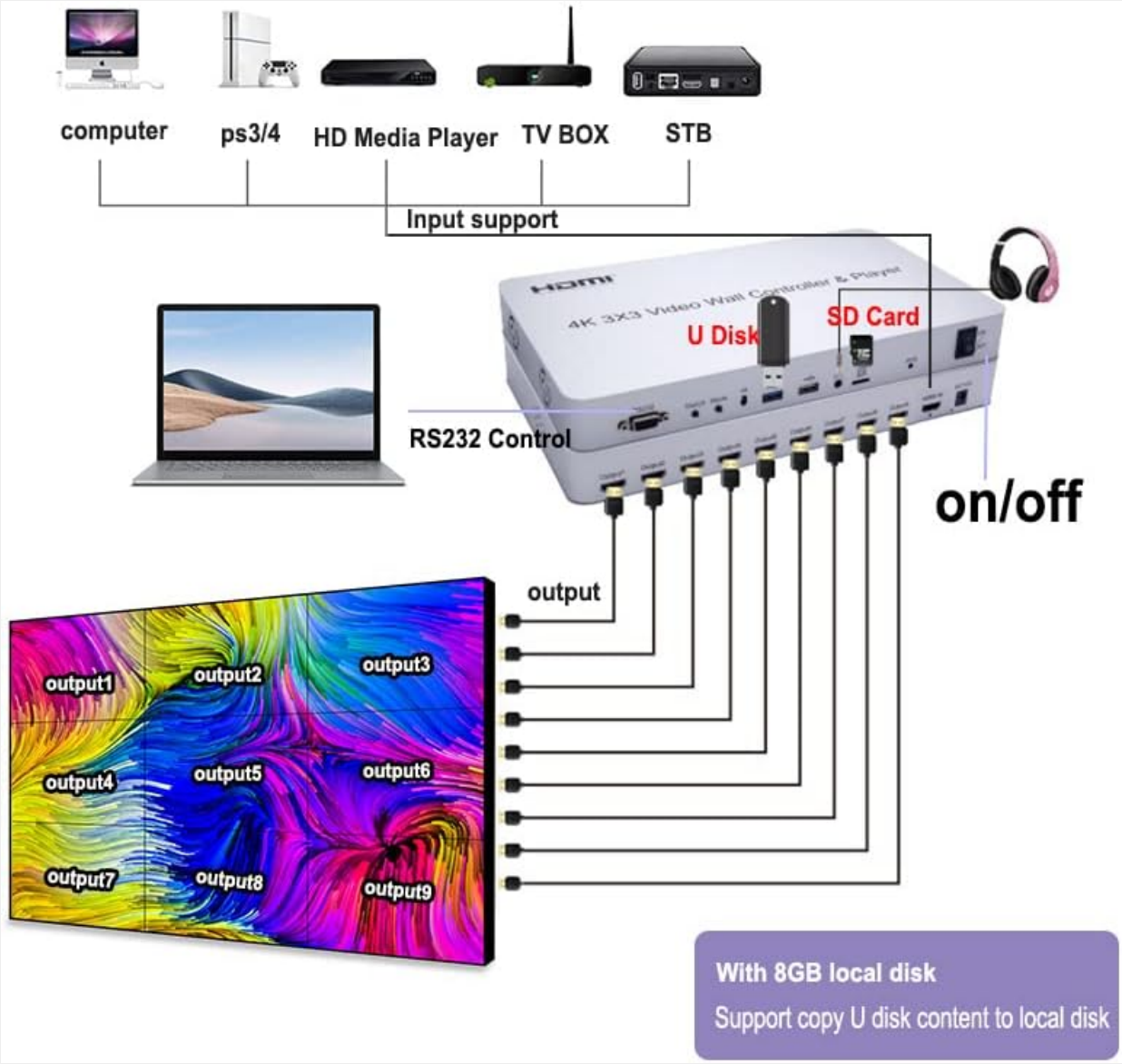


Image: Connection diagram for the RIJER TV09RIJER, illustrating input sources, output displays, and control ports.

4.2 Initial Display Settings

For optimal performance, ensure all connected display screens are set to a resolution of**1080p**. This helps ensure proper synchronization and display functionality.

5. Operating Instructions

5.1 Power On/Off

Use the **ON/OFF** switch located on the front panel of the controller to power the device on or off.

5.2 Control Methods

The RIJER TV09RIJER offers several ways to control its functions:

- **Infrared (IR) Remote Control:** Use the included remote for easy and intuitive operation, including mode selection, media player control, and settings adjustments.
- **Front Panel Buttons:** The **Switch Mode** button on the front panel allows for cycling through different display modes.
- **RS-232 Control:** For advanced integration, the device supports RS-232 commands for external control systems.
- **Voice Control:** The controller features voice control capabilities for setting modes, edge masking, cascading modes, resetting, and adjusting brightness and contrast.

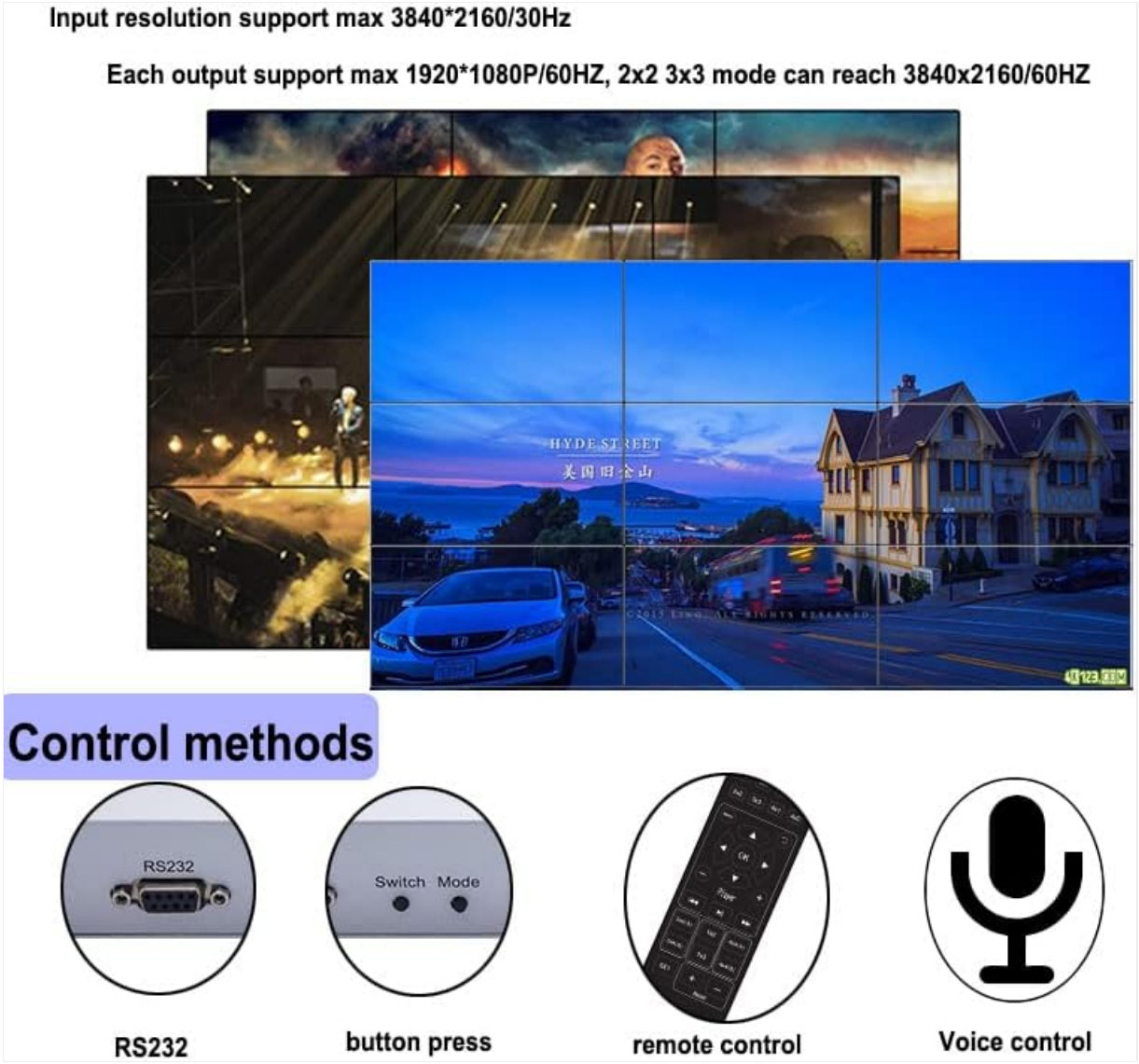


Image: Overview of the control methods available for the video wall controller.

6. Media Player Functionality

The RIJER TV09RIJER includes a built-in media player with an 8GB local disk, supporting playback from USB drives and SD cards.

6.1 Playing Content from USB/SD Card

- Insert your USB disk into one of the **USB** ports or an SD card into the **SD Card** slot.
- The device can automatically play media content from the inserted storage.

6.2 Copying Content to Local Disk

Content from a USB disk can be copied to the internal 8GB local disk. This allows for content playback without the need for the USB disk to remain connected.



Image: Illustrates copying content from a USB disk to the controller's internal 8GB local disk.

6.3 Media Player Control with Mouse/Keyboard

You can connect a USB mouse and keyboard to control the media player functions for both USB/SD card content and local disk content.

- **Long press left mouse button:** Select content.
- **Long press right mouse button:** Go back or forward.



Image: Demonstrates connecting a mouse and keyboard for controlling the media player.

7. Splicing Modes and Resolution Settings

7.1 Supported Splicing Modes

The controller supports various video wall configurations:

- **Standard Modes:** 1x1, 1x2, 1x3, 1x4, 1x5, 2x1, 2x2, 2x3, 2x4, 3x1, 3x2, 3x3, 4x1, 4x2.
- **Cascaded Modes (requires 2 devices):** 3x4, 4x3, 4x4.

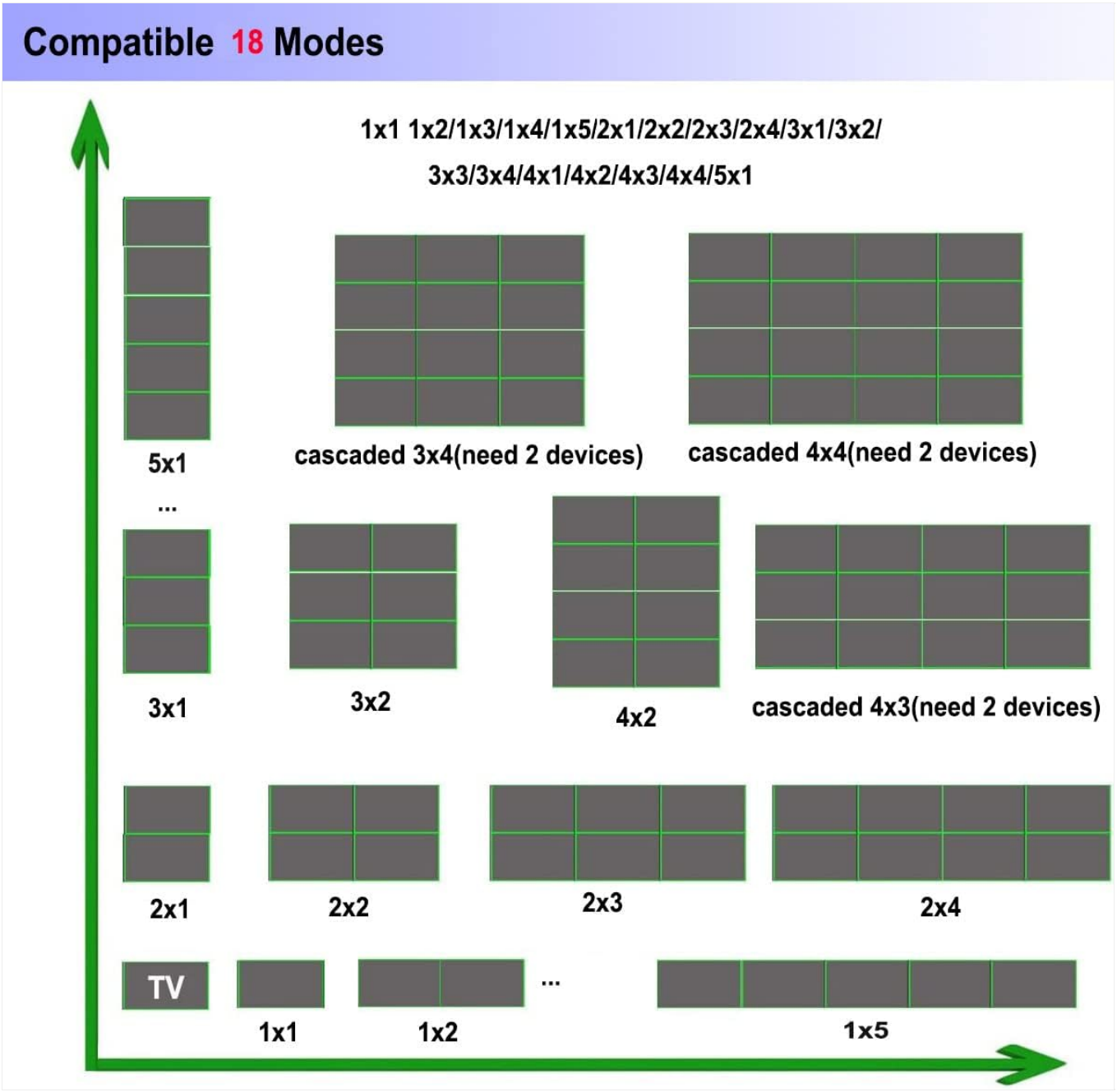


Image: Visual representation of the 18 compatible video wall modes, including single-device and cascaded configurations.

7.2 Non-Stretching Resolution Settings

To avoid image stretching, set your input resolution according to the desired splicing mode:

- **1x2:** 3840x1080@30Hz
- **1x3:** 5760x1080@30Hz
- **1x4:** 3840x540@30Hz
- **1x5:** 3840x432@30Hz
- **2x1:** 1920x2160@30Hz
- **3x1:** 1920x3240@30Hz
- **4x1:** 1440x3240@30Hz
- **5x1:** 1152x3240@30Hz
- **2x2 & 3x3:** 3840x2160@30Hz
- **2x3:** 3840x1440@30Hz
- **2x4:** 3840x1080@30Hz

- **3x2:** 2560x2160@30Hz

7.3 Portrait Mode Configuration

The controller does not natively support 90 or 180-degree rotation. To achieve portrait mode, especially for configurations like 1x3 portrait, follow these steps:

1. Set the controller to **3x1 mode**.
2. Use a computer as the input source.
3. On the computer, rotate the desktop display to 90 degrees. This is typically done by right-clicking on the desktop, selecting "Display settings," then "Display orientation," and choosing "Portrait."



Image: Examples of splicing modes and instructions for setting up portrait mode using a computer as the input source.

7.4 Cascade Connection

For larger video walls (e.g., 3x4, 4x3, 4x4), two RIJER TV09RIJER devices can be cascaded. This involves connecting the output of one controller to the input of another.
To set the splicing mode for cascaded configurations (e.g., 3x4 mode):

- Use one remote controller to choose Device A 3x4(A) at the same time shield B.
- Use the same remote controller to choose Device B 3x4(B) at the same time shield A.

- Alternatively, press the **Mode** button on each machine to choose the respective device's mode.

The same setting principles apply for 4x3 and 4x4 modes.

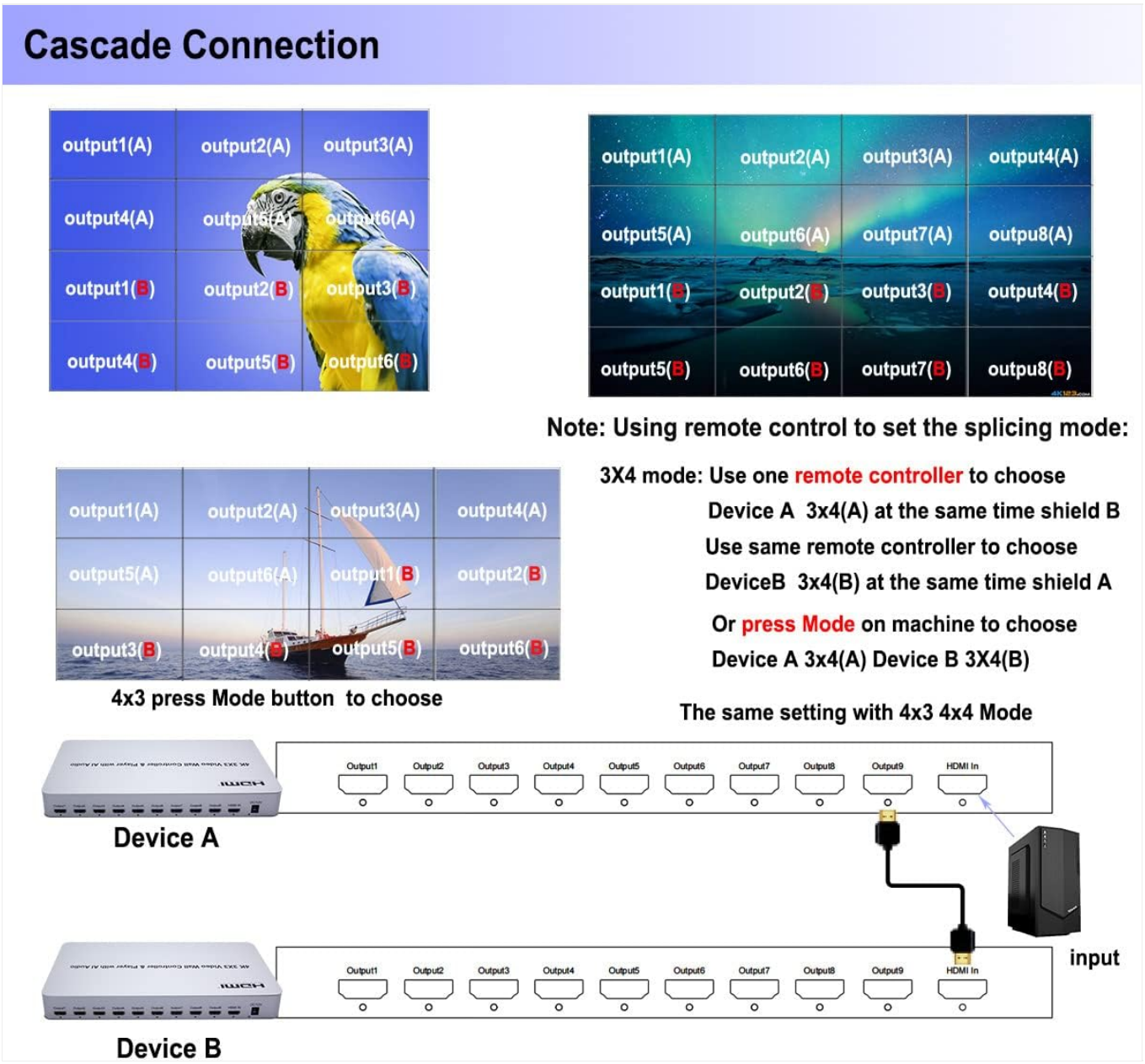


Image: Detailed diagram of how to set up a cascade connection using two video wall controllers for expanded display configurations.

8. Edge Masking Function

All display units have physical borders (bezels). Without compensation, images displayed across multiple screens can appear unnatural due to these gaps. The edge masking function processes the image to compensate for these borders, aligning image edges and preventing visual distortion or stretching. This results in a more natural and realistic continuous image across the video wall.

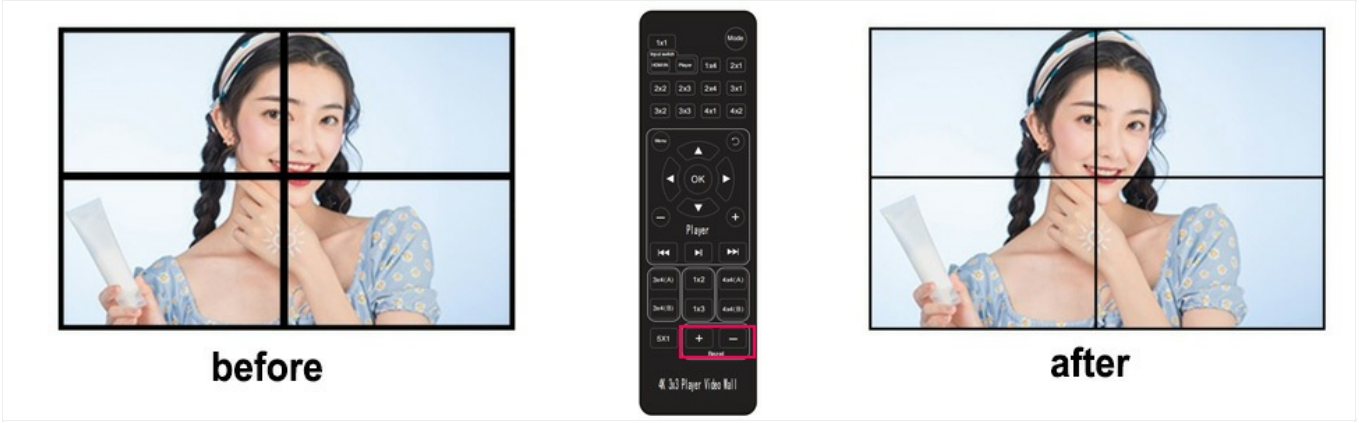


Image: Illustrates the effect of edge masking, showing how it improves image continuity across multiple displays by compensating for bezels.

9. Voice Control

The RIJER TV09RIJER supports voice commands for convenient operation. You can control various settings, including:

- Mode settings (e.g., "2 by 2 mode")
- Edge masking (e.g., "Decrease frame blending")
- Cascading modes
- Reset functions
- Brightness and contrast adjustments

Note: The default voice control language may be Chinese. Refer to the product's Q&A or contact support for instructions on how to change the voice control language to English.



Image: Demonstrates the voice control feature and its ability to adjust display modes and edge masking.

10. Troubleshooting

If you encounter issues with your RIJER TV09RIJER video wall controller, consider the following common troubleshooting

steps:

- **No Display/Black Screen:**
  - Ensure all HDMI cables are securely connected to both the source and display units.
  - Verify that the power adapter is correctly connected and the controller is powered on.
  - Check the input source selection on your display units.
  - Confirm that the input resolution from your source device is supported by the controller (up to 3840x2160P@30Hz).
  - Ensure all output displays are set to 1080p resolution for optimal compatibility.
- **Image Stretching/Distortion:**
  - Refer to Section 7.2 for recommended non-stretching input resolution settings for your specific splicing mode.
  - Activate the edge masking function (Section 8) to compensate for display bezels.
- **Voice Control Not Responding/Incorrect Language:**
  - Ensure the microphone is not obstructed.
  - Check the product Q&A or contact support for instructions on changing the voice control language to English if it is not already.
- **Media Player Issues:**
  - Ensure USB drives or SD cards are formatted correctly and contain supported media file types.
  - Verify that the USB drive or SD card is properly inserted.

If problems persist, please contact RIJER customer support for further assistance.

11. Specifications

Brand	RIJER
Model Number	TV09RIJER
Connector Type	HDMI
Compatible Devices	Laptop, Monitor, PC, Projector, Television
Number of Ports	9 (Output)
Input Resolution Support	3840x2160P @ 25/30Hz, 1920x1080P @ 25/30/50/60Hz
Output Resolution Support	3840x2160P @ 30Hz (for 4 screens), 1920x1080P @ 25/30/50/60Hz (each screen)
HDMI Compliance	HDMI 1.4, HDCP 1.4
Audio Output	3.5mm Stereo Audio Port
Local Storage	8GB Local Disk
Control Methods	IR Remote, Button Press, RS-232, Voice Control
UPC	351367591626

12. Warranty and Support

12.1 Product Warranty

The RIJER TV09RIJER Video Wall Controller comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers issues related to the product itself. Please retain your proof of purchase for warranty claims.

12.2 Technical Support

For technical assistance, troubleshooting, or any questions regarding the operation and setup of your device, please contact RIJER customer support. Contact information can typically be found on the product packaging, the official RIJER website, or through your point of purchase.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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