

Arvitek 3x3

Arvitek 4K HDMI Video Wall Controller 3x3 User Manual

Model: 3x3 (AT-HD0109C)

1. INTRODUCTION

Thank you for choosing the Arvitek 4K HDMI Video Wall Controller 3x3. This device is designed to split a single HDMI input signal across up to nine HDMI displays, creating a large video wall. It supports various splicing modes and high-resolution video output, making it suitable for diverse applications.

Key Features:

- Supports 1 HDMI input and 9 HDMI outputs for 3x3 video wall configurations.
- High resolution support: up to 3840x2160@30Hz (4K@30Hz), 1920x1080@60Hz (1080P@60Hz), 1280x720P@60Hz (720P@60Hz).
- 13 distinct display modes including 1x1, 1x2, 1x3, 1x4, 2x1, 2x2, 2x3, 2x4, 3x1, 3x2, 3x3, 4x1, 4x2.
- Plug and Play functionality, no driver installation required.
- Control via device buttons or included IR remote.
- Automatic recognition of input resolution.
- Supports simultaneous video and digital audio output.

Package Contents:

- 1 x Arvitek HDMI Video Wall Controller 3x3
- 1 x IR Remote Control
- 1 x Power Adapter
- 1 x User Manual



Image: The Arvitek 4K HDMI Video Wall Controller 3x3, showing its dimensions and the included accessories: remote control, power adapter, and user manual.

2. SAFETY INFORMATION

Please read and follow these safety instructions carefully before operating the device to prevent damage and ensure safe use.

- Do not expose this device to water, moisture, or excessive humidity.
- Do not place the device near heat sources or in direct sunlight.
- Use only the provided power adapter. Using an incorrect power supply may damage the device and void the warranty.
- Do not attempt to open, modify, or repair the device. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the device to prevent overheating.
- Keep the device away from children.

3. PRODUCT OVERVIEW

The Arvitek 4K HDMI Video Wall Controller 3x3 features a robust design with clearly labeled ports for easy connection.

Front Panel:

- **IR:** Infrared receiver for remote control.
- **POWER LED:** Indicates power status.
- **MODE Button:** Used to cycle through different display modes.
- **ON/OFF Switch:** Power toggle for the device.

Rear Panel:

- **DC 12V:** Power input port.
- **OUT1-OUT9:** HDMI output ports for connecting to displays.
- **IN:** HDMI input port for connecting the source device.

Support Ultra HD 4K

Support 4K@30Hz,1080p,1080i,720p HD resolution



Image: Rear view of the Arvitek 4K HDMI Video Wall Controller 3x3, illustrating the DC 12V power input, nine HDMI output ports (OUT1-OUT9), and one HDMI input port (IN).

4. SETUP

Follow these steps to set up your video wall controller:

1. **Prepare Displays:** Ensure all your display screens (TVs, monitors, projectors) are powered off and ready for connection.
2. **Connect Source:** Connect your HDMI source device (e.g., PC, laptop, PS4, Roku) to the **IN** port of the video wall controller using an HDMI cable.
3. **Connect Displays:** Connect each of your display screens to the **OUT1** through **OUT9** ports on the video wall controller using HDMI cables. Ensure the connections are secure.
4. **Power On Displays:** Power on all your connected display screens.
5. **Power On Controller:** Connect the provided 12V DC power adapter to the **DC 12V** port on the controller and plug it into a power outlet. Turn on the controller using the **ON/OFF** switch.
6. **Verify Connection:** The POWER LED on the front panel should illuminate. The video signal should now appear on your

connected displays according to the default splicing mode.

13 DISPLAY MODES

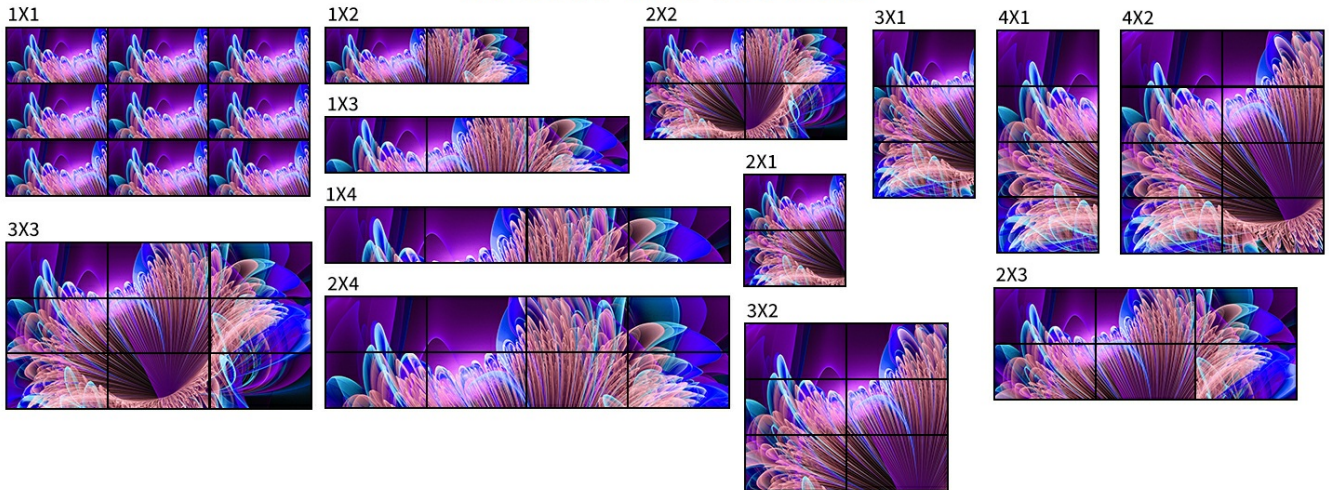


Image: A visual representation of the connection process, showing an HDMI source connected to the controller's input, and the controller's outputs connected to multiple display screens, forming a video wall.

5. OPERATING INSTRUCTIONS

The video wall controller offers simple operation via its front panel button or the included IR remote control.

Power On/Off:

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

Selecting Display Modes:

The controller supports 13 different display modes. You can switch between these modes using either the **MODE** button on the front panel or the IR remote control.



Image: The two methods of switching display modes: the physical 'MODE' button on the device and the included IR remote control.

Using the MODE Button:

Press the **MODE** button repeatedly to cycle through the available splicing modes. The display will update automatically with each

press.

Using the IR Remote Control:

Point the IR remote control towards the IR receiver on the front panel of the controller. Use the dedicated buttons on the remote to select your desired display mode directly.

Available Display Modes:

The controller supports the following configurations:

- 1x1 (Single display)
- 1x2 (One row, two columns)
- 1x3 (One row, three columns)
- 1x4 (One row, four columns)
- 2x1 (Two rows, one column)
- 2x2 (Two rows, two columns)
- 2x3 (Two rows, three columns)
- 2x4 (Two rows, four columns)
- 3x1 (Three rows, one column)
- 3x2 (Three rows, two columns)
- 3x3 (Three rows, three columns)
- 4x1 (Four rows, one column)
- 4x2 (Four rows, two columns)

Note: All screens must remain in a fixed orientation; screen rotation is not supported by this device.

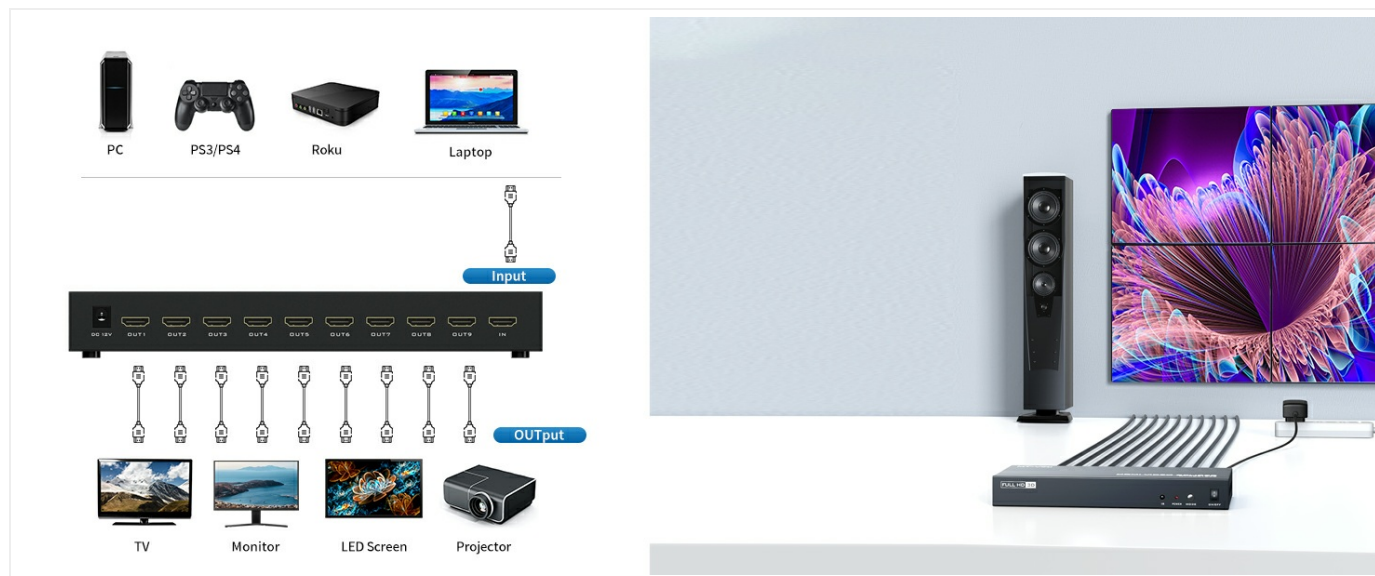


Image: A graphic illustrating the 13 different display modes supported by the video wall controller, showing various grid layouts from 1x1 to 4x2.

6. ADVANCED FEATURES

Edge Blending Technology:

This controller incorporates upgraded edge blending technology to enhance the visual continuity across multiple screens. This feature helps to minimize the appearance of bezels and create a more natural, seamless image across your video wall.

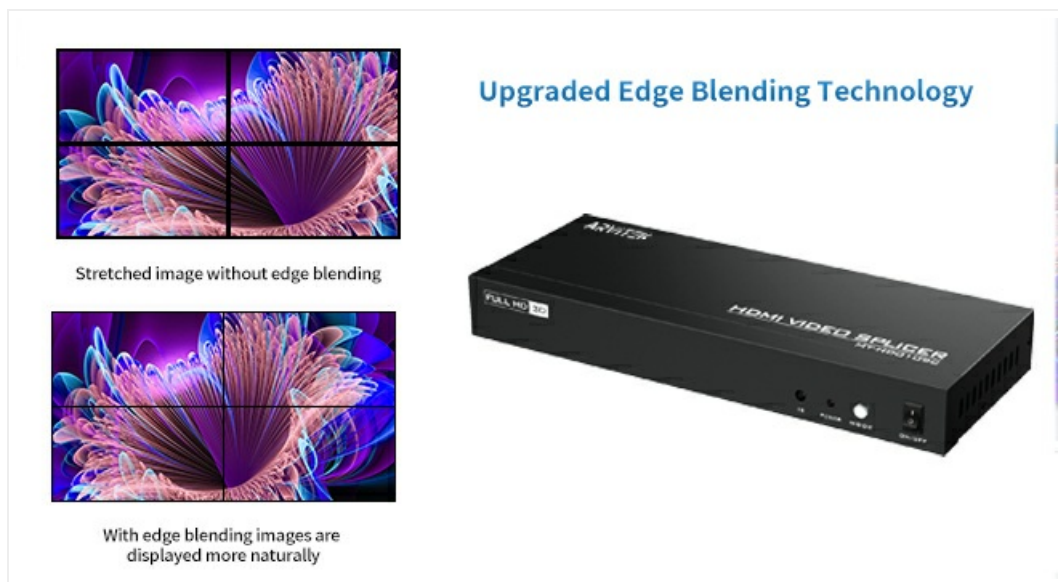


Image: A comparison demonstrating the effect of edge blending technology. One panel shows a stretched image without edge blending, highlighting screen bezels, while the other shows a more naturally displayed image with edge blending applied.

7. COMPATIBILITY

The Arvitek 4K HDMI Video Wall Controller is designed for broad compatibility with various HDMI devices.

Input Sources:

- Computers
- Laptops
- Set-top boxes
- DVD players
- Gaming consoles (e.g., PS3/PS4)
- Other HDMI-enabled devices

Output Displays:

- Splicing screens
- Monitors
- Rear projection units
- LCD TVs
- Projectors



Widely application

Image: A diagram illustrating the wide compatibility of the video wall controller, showing common input devices like PCs, gaming consoles, and laptops, and output devices such as TVs, monitors, LED screens, and projectors.

8. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your video wall controller.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols, as they may damage the internal components.
- **Ventilation:** Ensure that the ventilation openings on the device are not blocked. Good airflow prevents overheating.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Keep HDMI and power cables neatly organized to prevent strain on ports and accidental disconnections.

9. TROUBLESHOOTING

If you encounter issues with your Arvitek 4K HDMI Video Wall Controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No image on displays.	- Power not connected. - Loose HDMI cables. - Incorrect input/output selection. - Source device not active.	- Ensure power adapter is securely connected and device is ON. - Check all HDMI cable connections. - Verify source device is powered on and outputting a signal. - Try a different HDMI cable.
Image flickering or unstable.	- Poor quality HDMI cables. - Resolution incompatibility. - Interference.	- Use high-quality HDMI cables (preferably HDMI 2.0 or higher). - Ensure source resolution is supported by the controller and displays. - Reduce cable length if possible. - Check for nearby electronic devices causing interference.
Remote control not working.	- Batteries are dead or incorrectly inserted. - Obstruction between remote and IR receiver.	- Replace batteries in the remote control. - Ensure there is a clear line of sight between the remote and the controller's IR receiver. - Try operating the device using the front panel buttons.
Incorrect display mode.	Mode not properly selected.	Press the MODE button or use the remote to cycle through modes until the desired layout is achieved.

10. SPECIFICATIONS

Detailed technical specifications for the Arvitek 4K HDMI Video Wall Controller 3x3:

- **Brand:** Arvitek
- **Model Number:** 3x3 (AT-HD0109C)
- **Input Ports:** 1 x HDMI
- **Output Ports:** 9 x HDMI
- **Supported Resolutions:** 4K@30Hz (3840x2160), 1080P@60Hz (1920x1080), 720P@60Hz (1280x720)
- **Color:** Black
- **Control Methods:** Device buttons, IR remote control
- **Power Supply:** DC 12V (included adapter)
- **Dimensions (Approx.):** 10 inches (length) x 4 inches (width) x 1.5 inches (height)
- **Weight (Approx.):** 700 g
- **Compatibility:** Television, Monitors, Projectors, PCs, Laptops, Gaming Consoles, Set-top boxes

11. WARRANTY AND SUPPORT

Arvitek products are designed for reliability and performance. This product comes with a standard manufacturer's warranty against defects in materials and workmanship.

Warranty Information:

Please refer to the warranty card included in your product packaging or visit the official Arvitek website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting, or any questions regarding your Arvitek 4K HDMI Video Wall Controller 3x3, please contact our customer support team. Contact details can typically be found on our official website or on the product packaging. *Please note that product specifications and features are subject to change without prior notice.*

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