

ICUIXIAN A0808LCK

ICUIXIAN 4K HDMI Matrix Switch 8x8 User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ICUIXIAN 4K HDMI Matrix Switch 8x8. This device allows for flexible routing of 8 HDMI input sources to any of 8 HDMI output displays, functioning as both a switch and a splitter. It supports high-resolution video up to 4K@30Hz and offers multiple control options for versatile use in various environments.

2. KEY FEATURES

- **8x8 HDMI Matrix Functionality:** Route any of 8 HDMI input sources to any of 8 HDMI output displays independently or simultaneously.
- **4K Ultra HD Support:** Supports resolutions up to 3840x2160@30Hz, 1080P@60Hz, and 3D.
- **Multiple Control Options:** Control via Web GUI, LAN port, RS-232, IR remote, and front panel buttons.
- **EDID Management:** Supports EDID presets for scenario management, allowing up to 32 customizable scenarios.
- **User-Friendly Interface:** Features a full-color LCD screen and backlit buttons for real-time display of equipment information and quick switching.
- **Robust Protection:** Includes 8KV ESD protection and power-off memory function.
- **Audio Support:** Embedded audio, LPCM 7.1CH, Dolby True HD, Dolby Digital, and DTS-HD Master Audio transmission.
- **Rack Mount Design:** 1U size with rack ears for easy installation in standard equipment racks.

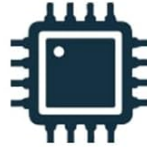
Quick overview of product features



4K input and output



WEB control



Industrial control chip



Embedded audio



Synchronous Switching



HDMI Distribution



Scenario pre-programming



Static Protection



HDCP Decryption



Support EDID



Support 3D



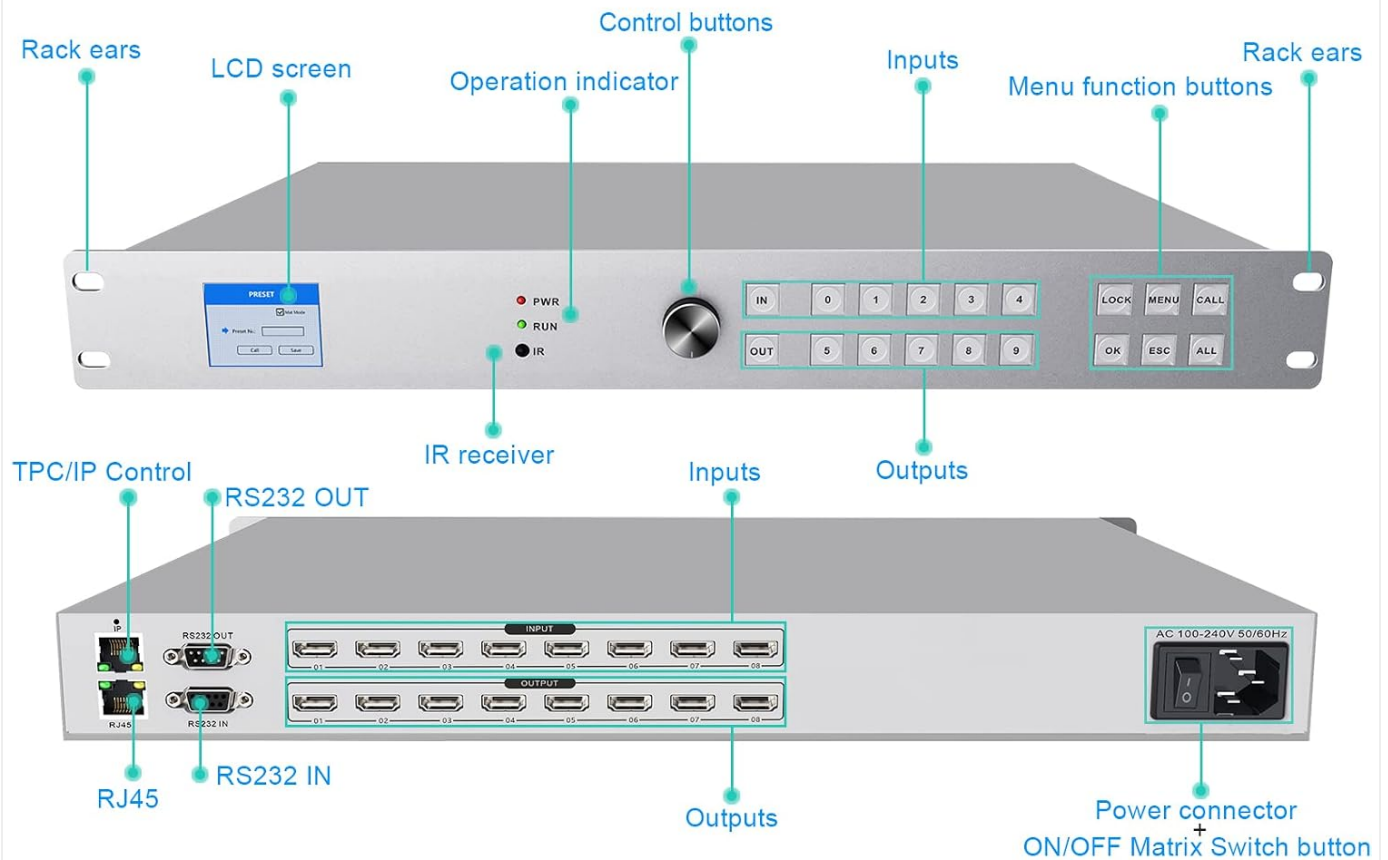
Power failure memory

Image: Quick overview of the matrix switch's features, presented as icons.

3. PRODUCT OVERVIEW AND CONNECTIONS

3.1 Front and Rear Panel Layout

Fuselage Introduction



4K/30HZ	HDMI1.4a	WEB	3D	Audio Video	RS232
Ultra HD output	Interface	Ready	Ready	Simultaneous switching	Control

Image: Detailed diagram of the matrix switch's front and rear panels with labeled ports and controls.

The front panel features an LCD screen for status display, backlit buttons for input/output selection, and menu navigation. The rear panel includes 8 HDMI input ports, 8 HDMI output ports, RS232 IN/OUT ports, a LAN port for network control, and the power connector.

3.2 Connection Diagram

LARGE SCREEN SPLICING CONNECTION REFERENCE

Signals Can Be Switched Freely Among 8 Display Terminals

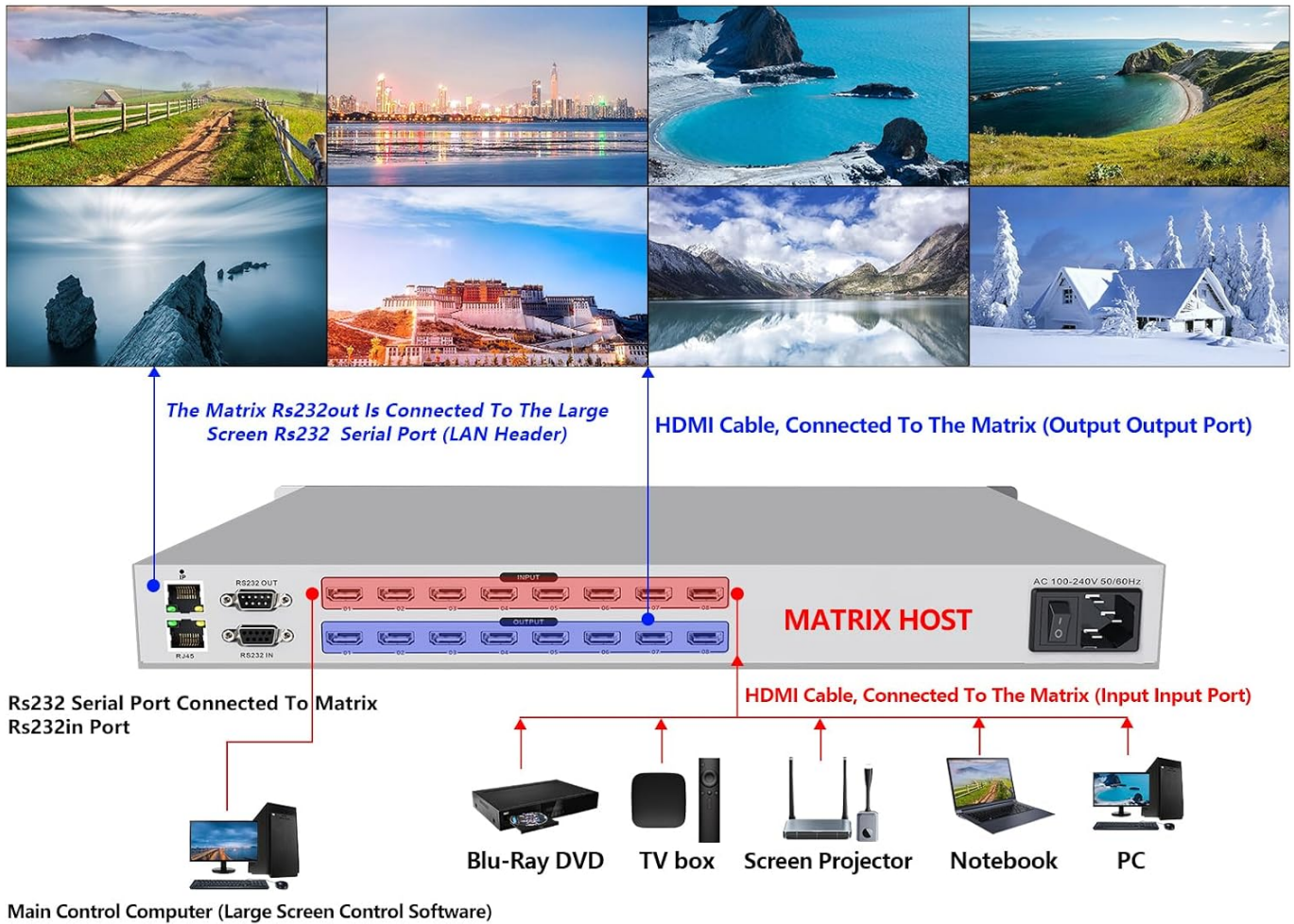


Image: Reference diagram for connecting input sources and output displays to the HDMI matrix switch, including control connections.

Connect your HDMI source devices (e.g., Blu-Ray players, PCs, gaming consoles) to the HDMI IN ports. Connect your HDMI display devices (e.g., TVs, projectors) to the HDMI OUT ports. For advanced control, connect an RS232 cable to a control computer or a LAN cable to your network for Web GUI access.

4. SETUP

- 1. Power Off Devices:** Ensure all HDMI source devices, display devices, and the matrix switch are powered off before making any connections.
- 2. Connect HDMI Input Sources:** Use high-quality HDMI cables to connect your source devices (e.g., PC, Blu-Ray player) to the HDMI IN ports (1-8) on the rear panel of the matrix switch.
- 3. Connect HDMI Output Displays:** Use high-quality HDMI cables to connect your display devices (e.g., TV, projector) to the HDMI OUT ports (1-8) on the rear panel of the matrix switch.
- 4. Connect Control Cables (Optional):**
 - For RS-232 control, connect an RS-232 cable from your control computer to the RS232 IN port on the matrix switch.
 - For Web GUI/LAN control, connect an Ethernet cable from your network router/switch to the RJ45 LAN port on the matrix switch.

- 5. **Power On:** Connect the power adapter to the matrix switch and then plug it into a power outlet. Power on the matrix switch, followed by your display devices, and then your source devices.
- 6. **Initial Configuration:** The device will perform a self-check. You can then proceed to configure input/output routing using the front panel buttons or other control methods.

5. OPERATING INSTRUCTIONS

5.1 Switching Modes

ARBITRARY SWITCHING OF SCREEN MODES

4K 30Hz HDMI matrix switchwith 8 inputs and 8 outputs

MATRIX MODE

Each display selecta standalone inputsource



MATRIX & SPLITTER MODE

Part of displaysshare the same inputsource



SPLITTER MODE

All display share thesame input source



Image: Visual representation of different screen modes: Matrix, Matrix & Splitter, and Splitter.

The ICUIXIAN 4K HDMI Matrix Switch supports various display configurations:

- **Matrix Mode:** Each output display can show a different input source. For example, Input 1 to Output 1, Input 2 to Output 2, etc.
- **Splitter Mode:** A single input source can be displayed on all output displays simultaneously. For example, Input 1 to Outputs 1-8.
- **Matrix & Splitter Mode:** A combination where some outputs show unique inputs, while others share a common input. For example, Input 1 to Output 1, Input 2 to Output 2, and Input 3 to Outputs 3-8.

5.2 Control Methods

MULTIPLE CONTROL OPTIONS

EASY TO CONTROL EASY TO SWITCH

There are 5 Switching Modes



Image: Overview of the multiple control options available for the device.

- **Front Panel Buttons:** Use the 'IN' and 'OUT' buttons on the front panel to select input and output ports. The LCD screen will guide you through the selection process.
- **IR Remote Control:** Use the included IR remote control to switch inputs and outputs from a distance.
- **RS-232 Control:** Connect to a computer via the RS-232 port and use compatible software for advanced control and automation.
- **Web GUI/LAN Control:** Connect the device to your network via the LAN port. Access the Web GUI through a web browser on a computer, tablet, or mobile phone by entering the device's IP address. This allows for comprehensive control and scenario management.

5.2.1 Button Switching Tutorial

Video: This video demonstrates how to use the front panel buttons to switch input signals to all outputs, and how to switch a specific input to a selected output. It shows the process of selecting an input, then selecting outputs (individually or all), and confirming the switch.

5.2.2 Common Switching Modes Demonstration

Video: This video illustrates various common switching modes, including displaying different inputs on different screens, splitting one input across multiple screens, and other flexible configurations possible with the matrix switch.

6. MAINTENANCE

To ensure the longevity and optimal performance of your ICUIXIAN 4K HDMI Matrix Switch, 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. Do not block any ventilation openings.
- **Environment:** Operate the device in a cool, dry environment, away from direct sunlight, heat sources, and excessive moisture.
- **Cable Management:** Periodically check all cable connections to ensure they are secure and free from damage.

7. TROUBLESHOOTING

If you encounter issues with your ICUIXIAN 4K HDMI Matrix Switch, consider the following basic troubleshooting steps:

- **No Video/Audio:**
 - Verify all HDMI cables are securely connected to both the source and display devices, and to the correct input/output ports on the matrix switch.
 - Ensure the correct input source is selected for the desired output display.
 - Check if the source device is powered on and outputting a signal.
 - Test with different HDMI cables or source/display devices to isolate the problem.
- **Poor Picture Quality:**
 - Ensure you are using high-quality HDMI cables, especially for 4K resolutions and longer distances.
 - Check the resolution settings on your source device and ensure they are compatible with your display and the matrix switch.
- **Control Issues:**
 - For IR remote, ensure there are no obstructions and the remote batteries are functional.
 - For Web GUI/LAN control, verify the network connection and the device's IP address.
 - For RS-232 control, confirm the serial port settings and software configuration.
- **Device Not Responding:** Try power cycling the matrix switch (unplug and replug the power cable).

If problems persist after attempting these steps, please contact customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	19.1 x 7.6 x 1.9 inches
Item Weight	7.43 pounds
Model Number	A0808LCK

Feature	Detail
Brand	ICUIXIAN
Connector Type	HDMI
Compatible Devices	PC, Television
Cable Type	HDMI
Max Resolution	4K (3840x2160) @ 30Hz
HDCP Support	Yes
EDID Support	Yes
3D Support	Yes
Control Methods	Web GUI, LAN, RS-232, IR Remote, Front Panel Buttons

9. WARRANTY AND SUPPORT

ICUIXIAN is committed to providing high-quality products and excellent customer service. Each product undergoes rigorous testing to ensure quality before shipment.

- **Product Quality:** For each shipment, all aspects of the product are carefully tested to ensure no problems after shipment.
- **Technical Support:** As a responsible company in the field of video displays, ICUIXIAN has professional technical staff available to communicate with you on a one-to-one basis. If there is a product problem, professional technical staff will promptly address issues encountered during the use of the product to ensure a satisfying experience.

For technical assistance or warranty inquiries, please refer to the contact information provided with your purchase or visit the official ICUIXIAN website.

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