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› [ICUIXIAN HDMI Matrix Switch 8x8 \(Model DC-16x16\) User Manual](#)

## ICUIXIAN DC-16x16

# ICUIXIAN HDMI Matrix Switch 8x8 User Manual

Model: DC-16x16

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## 1. INTRODUCTION

The ICUIXIAN HDMI Matrix Switch 8x8 is a high-definition digital signal switching device designed to manage and distribute HDMI signals. This matrix allows you to connect up to eight HDMI source devices to eight HDMI display devices. It can transmit signals so that all output ports display the same content synchronously, or it can independently distribute different input signals to each display. This manual provides detailed instructions for the installation, operation, and maintenance of your HDMI matrix switch.

## 2. KEY FEATURES

- **8-Input, 8-Output HDMI Matrix:** Connects up to eight HDMI source devices to eight HDMI display devices.
- **High-Resolution Support:** Compatible with HDMI 1.4a standard, supporting 1080P and 1080P3D resolutions at 60Hz.
- **Multiple Control Methods:** Features WEB GUI control (via LAN port), RS-232 serial control, IR remote control, and front panel button control.
- **EDID Management:** Includes built-in pre-plan management for up to 32 scenes, allowing for one-key calling and switching. Supports real-time equipment information display and quick signal switching.
- **Advanced Video Support:** All inputs support HDCP decoding, Blu-ray, and 3D content.
- **Reliability Features:** Incorporates electrostatic protection and power-off memory to retain settings.
- **Rack Mount Design:** Designed for easy integration into standard equipment racks.

## 3. PRODUCT OVERVIEW

Familiarize yourself with the components and interfaces of your ICUIXIAN HDMI Matrix Switch.



Figure 3.1: ICUIXIAN HDMI Matrix Switch 8x8, showing the device's front and rear panels along with its remote control and a visual representation of its multi-display output capabilities.

### 3.1 Front Panel

- **LCD Display:** Shows current input/output status and system information.
- **POWER/SET Button:** Power control and menu access.
- **IR Receiver:** For infrared remote control signals.
- **Input/Output Selection Buttons (1-8):** Used to select specific input or output channels.
- **OK Button:** Confirms selections.
- **FUN Button:** Function button for advanced settings.
- **ESC Button:** Exits current menu or cancels operation.

### 3.2 Rear Panel

# 4K Ultra HD Matrix

Support EDID/HDCP decryption/Blu-ray/ESD protection/power-off memory



8 IN 8 OUT



Push-button and remote control operation, 2-channel standard RS-232 communication interface, RJ45 port, compatible with a variety of environments, convenient for users to use with a variety of remote control equipment.

Figure 3.2: Rear panel connections of the HDMI Matrix Switch, detailing the input and output ports.

- **DC 5V:** Power input port.
- **RJ45 (LAN):** Ethernet port for WEB GUI control.
- **RS232 OUT/IN:** Serial communication ports for external control systems.
- **HDMI INPUT (1-8):** Connect your HDMI source devices (e.g., Blu-ray players, computers).
- **HDMI OUTPUT (1-8):** Connect your HDMI display devices (e.g., TVs, projectors).

## 4. SETUP AND CONNECTION

Follow these steps to set up your HDMI Matrix Switch:

# LARGE SCREEN SPLICING CONNECTION REFERENCE

CAN SWITCH THE INPUT AND OUTPUT SIGNAL SCREEN AT WILL  
SIMPLE AND CONVENIENT

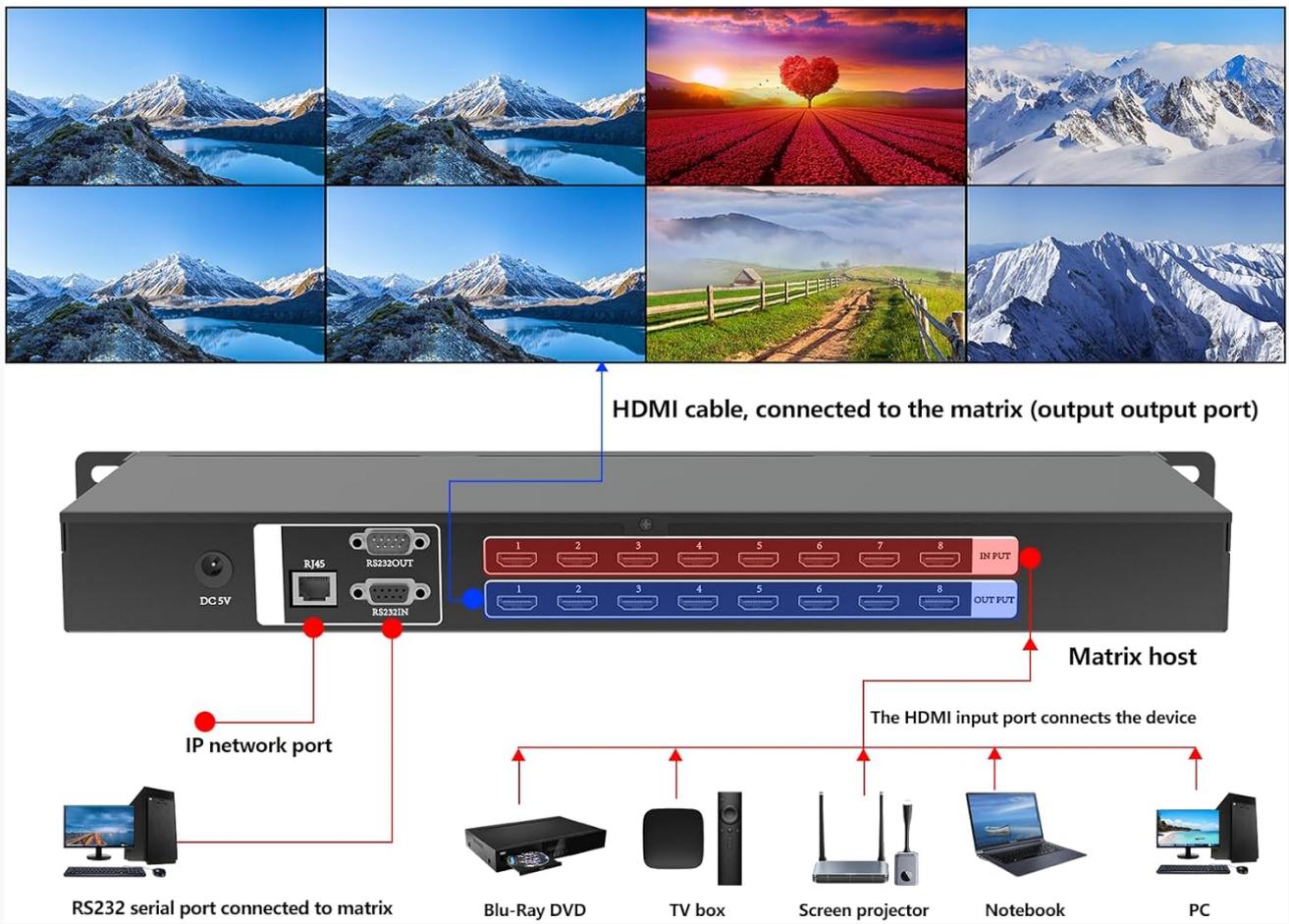


Figure 4.1: Typical connection diagram for the HDMI Matrix Switch, illustrating how to connect source devices, display devices, and control interfaces.

1. **Power Off Devices:** Ensure all HDMI source devices, display devices, and the HDMI Matrix Switch are powered off before making any connections.
2. **Connect HDMI Sources:** Connect your HDMI source devices (e.g., PC, Blu-ray player, game console) to the HDMI INPUT ports (1-8) on the rear panel of the matrix switch using high-quality HDMI cables.
3. **Connect HDMI Displays:** Connect your HDMI display devices (e.g., TV, projector) to the HDMI OUTPUT ports (1-8) on the rear panel of the matrix switch using high-quality HDMI cables.
4. **Connect Control Cables (Optional):**
  - **LAN Port:** For WEB GUI control, connect an Ethernet cable from the RJ45 port on the matrix switch to your network router or switch.
  - **RS-232:** For serial control, connect an RS-232 cable from your control system to the RS232 IN port on the matrix switch.
5. **Connect Power:** Connect the provided 5V DC power adapter to the DC 5V port on the matrix switch, then plug the adapter into a power outlet.
6. **Power On:** Power on the HDMI Matrix Switch, followed by your display devices, and then your source devices.

## 5. OPERATION

The HDMI Matrix Switch offers various methods for controlling input and output routing.

## 5.1 Switching Modes

The matrix switch supports different display configurations:

# ARBITRARY SWITCHING OF SCREEN MODES

4K 30Hz HDMI matrix switch with 8 inputs and 8 outputs

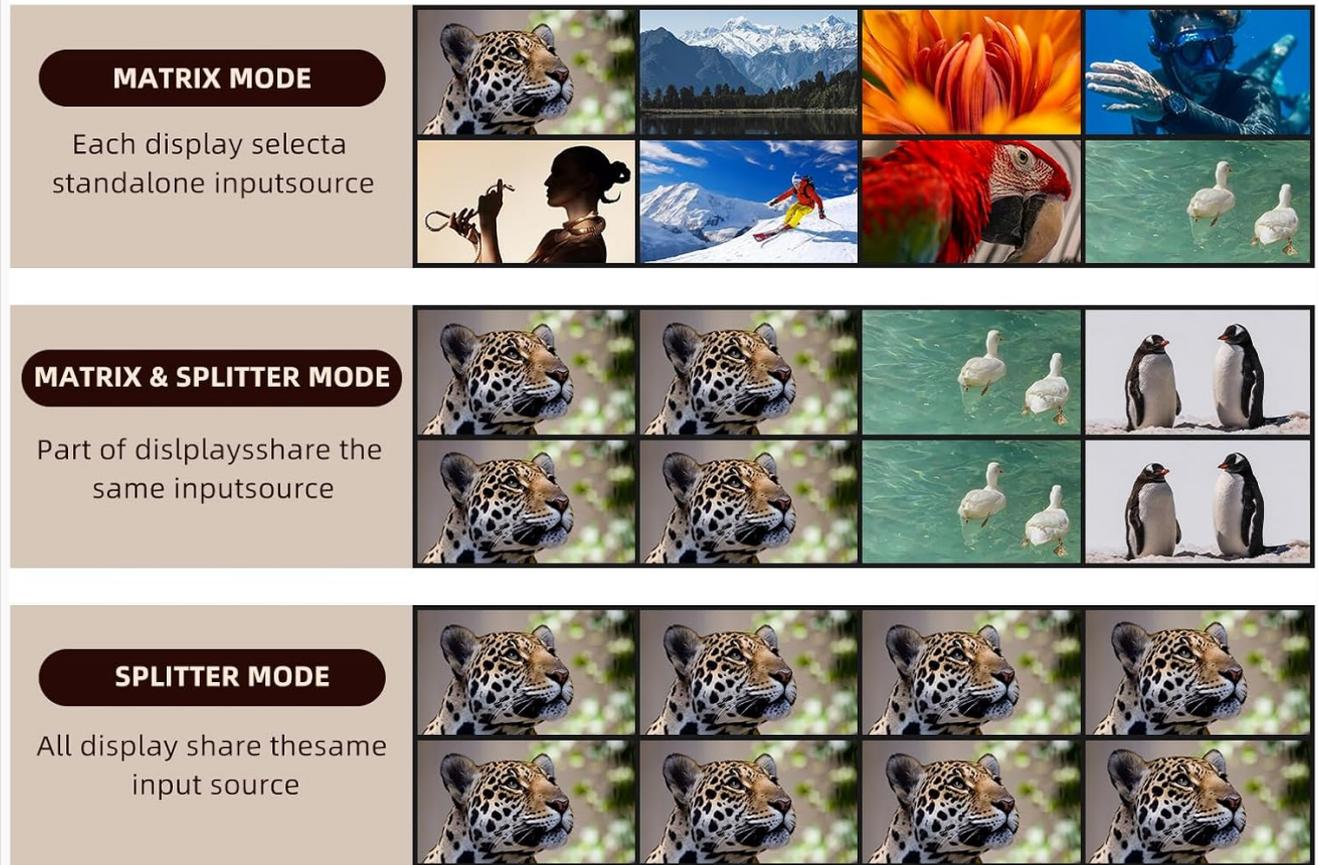


Figure 5.1: Visual representation of the different screen switching modes available.

- **Matrix Mode:** Each output display can independently select any of the eight input sources.
- **Matrix & Splitter Mode:** A combination where some output displays share a common input source, while others select independent sources.
- **Splitter Mode:** All eight output displays show the same single input source.

## 5.2 Control Methods

You can control the matrix switch using the following methods:

# MULTIPLE CONTROL OPTIONS

Support IR Remote Control. Front panel keypad. the LAN port [TCP/IP protocol], RS232 serial communication to switch



Figure 5.2: Overview of the available control methods for the HDMI Matrix Switch.

- **Front Panel Buttons:** Use the Input/Output selection buttons, OK, FUN, and ESC buttons on the front panel to directly control routing.
- **IR Remote Control:** Point the included IR remote control towards the IR receiver on the front panel to switch inputs and outputs.
- **RS-232 Serial Control:** Connect to a PC or control system via the RS-232 port for command-line or software-based control. Refer to the RS-232 command protocol for details.
- **WEB GUI Control:** Access the matrix switch's web interface via a browser on a computer, mobile phone, or tablet connected to the same network as the switch's LAN port. This allows for cross-platform control without installing additional software.

## 5.3 EDID Management and Scene Presets

The matrix switch supports EDID management and scene saving for convenient configuration:

- **EDID Settings:** The device supports EDID decoding to ensure compatibility between source and display devices. Specific EDID settings can be configured via the WEB GUI or RS-232 control.

- **Scene Management:** You can save up to 32 different input/output routing configurations as scenes. These scenes can be recalled with a single command or button press, simplifying complex setups.
- **Real-time Information:** The system provides real-time display of equipment information, facilitating quick adjustments and monitoring.

## 5.4 Video Demonstration: Common Switching Modes

Your browser does not support the video tag.

**Video 5.1:** A demonstration of common switching modes for the ICUIXIAN HDMI Matrix Switch/Splitter, illustrating how different input sources can be routed to various displays.

## 6. TYPICAL APPLICATIONS

The ICUIXIAN HDMI Matrix Switch is suitable for a wide range of professional and home environments requiring flexible video distribution:

# HDMI Matrix is best for

Information Center, computer room, video surveillance, night club, home theater, stock market, bars....



**Video Surveillance**



**Information Center**



**Bar**



**Computer Room Management**

**Figure 6.1:** Examples of environments where the HDMI Matrix Switch can be effectively utilized.

- Broadcast TV Projects

- Nightclubs and Bars
- Sports and Gymnastics Clubs
- Multimedia Conference Halls
- Large-screen Display Projects
- TV Education Facilities
- Command and Control Centers
- Restaurants and Casinos
- Hotels and Home Theaters

## 7. TROUBLESHOOTING

If you encounter issues with your HDMI Matrix Switch, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No video output on display.	Loose cable connections, incorrect input/output selection, incompatible resolution, HDCP issues.	Check all HDMI cable connections. Ensure the correct input source is selected for the desired output. Verify that the display supports the output resolution of the source. Power cycle all devices.
Intermittent video or audio.	Poor quality HDMI cables, cable length too long, signal interference.	Use certified high-quality HDMI cables. Ensure cable lengths are within recommended limits. Try shorter cables if possible. Check for nearby sources of electromagnetic interference.
Remote control not working.	Dead batteries, IR receiver blocked, remote out of range.	Replace remote control batteries. Ensure no obstructions are blocking the IR receiver on the front panel. Operate the remote within its effective range.
WEB GUI inaccessible.	Network connection issue, incorrect IP address, firewall blocking.	Verify the Ethernet cable is securely connected. Check network settings and ensure the matrix switch has a valid IP address on your network. Temporarily disable firewalls for testing.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	DC-16x16
Product Dimensions	9 x 28 x 4 inches
Item Weight	9 pounds
Brand	ICUIXIAN
Connector Type	HDMI
Compatible Devices	Projector, Television, Computer
Cable Type	HDMI
Color	Black gray

Feature	Detail
Manufacturer	XINTEAN
Date First Available	January 20, 2024

## 9. WARRANTY AND SUPPORT

ICUIXIAN products are designed for reliability and performance. For specific warranty information, please refer to the documentation included with your purchase or contact ICUIXIAN customer support. If you require technical assistance or have questions regarding your HDMI Matrix Switch, please reach out to our support team through the official ICUIXIAN website or your retailer.

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### Related Documents - DC-16x16

	<p><a href="#">ICUIXIAN HD HDMI Matrix User Manual - 7100HD Series</a></p> <p>Comprehensive user manual for the ICUIXIAN HD HDMI Matrix series, covering installation, operation, technical specifications, and troubleshooting for models 7100HD-0404, 7100HD-0808, 7100HD-0816, and 7100HD-1616.</p>
	<p><a href="#">Paugge ENT-MX20B16X16 18Gbps 16x16 HDMI Matrix with ARC Function User Manual</a></p> <p>Comprehensive user manual for the Paugge ENT-MX20B16X16 18Gbps 16x16 HDMI Matrix with ARC Function. This guide details specifications, front and rear panel controls, IR remote operation, EDID management, Web GUI access, RS-232 commands, and network settings.</p>
	<p><a href="#">Angustos AHVM-H1616P 4K HDMI Matrix Switch User Manual</a></p> <p>User manual for the Angustos AHVM-H1616P 4K HDMI Matrix Switch, detailing its features, specifications, operation, and control commands.</p>

The HD HDMI Matrix  
user's manual



[ICUIXIAN HD HDMI Matrix User Manual - 7100HD Series](#)

Comprehensive user manual for the ICUIXIAN HD HDMI Matrix series, covering installation, operation, technical specifications, and troubleshooting for models 7100HD-0404, 7100HD-0808, 7100HD-0816, and 7100HD-1616.

CYP



[CYP MOD-16 16x16 Modular Matrix Operation Manual | HDMI, DVI, HDBaseT Control](#)

Comprehensive operation manual for the CYP MOD-16 16x16 Modular Matrix Switcher. Details features, installation, controls, specifications, and connection diagrams for AV distribution.



[OREI HDS-1616 4K@30Hz 16x16 HDMI Matrix Switch User Manual](#)

User manual for the OREI HDS-1616, a professional 16x16 HDMI matrix switch supporting 4K@30Hz resolution, HDCP 2.2, and advanced features like EDID management, scene recall, and multiple control options including RS-232 and WebGUI. This guide covers specifications, operation, troubleshooting, and application examples for commercial AV installations.