



LCS-8004HTP

4x4 Seamless HDMI Video Matrix

LCS-8004HTP Video Matrix is a professional 4K HD fixed seamless switching matrix, which supports multiple HDMI inputs and multiple HDMI outputs. The input and output support HDMI 1.4, and the maximum output resolution is 3840x2160@30Hz. The equipment control mode is flexible and diverse, including bidirectional serial port control, button, RJ45 and other control. The product has intelligent EDID management to ensure compatibility with signal sources and operations in various application scenarios.

HD 4K

HDMI 1.4

Seamless
switching

Simple
splicing

MAIN FEATURES

▲ Seamless Switching & Splicing

- Rapid Input/Output Transition: Enables quick and smooth switching between multiple sources and displays.
- Customizable Splicing Modes: Offers various fixed modes for diverse display requirements.

▲ High-Resolution Support & Compatibility

- High-Quality Video Standards: Supports HDMI 1.4 with resolutions up to 3840x2160@30Hz.
- Diverse Color Spaces: Compatible with RGB4:4:4, YCbCr4:4:4, YCbCr4:2:2 formats.

▲ Output Efficiency & Format Options

- Flexible Output Port Design: Provides 9 pre-set resolutions for combination output ports.
- Dual Format Support: Output signal ports accommodate both HDMI and DVI formats.

▲ Input Versatility & Customization

- Multiple EDIDs: Includes 7 built-in EDIDs, with 1920x1080@60Hz as the default, and allows custom EDID settings.
- DVI/HDMI Signal Compatibility: Accepts a range of digital video interfaces.

▲ Operational Reliability & Power Management

- Memory Retention: Incorporates a power-off memory function for consistent operation.
- Hot Plugging Capability: Supports uninterrupted HDMI connection adjustments.
- Energy Efficiency: Implements standby mode and low power consumption features.

▲ Control and Installation

- Versatile Control Options: Offers bidirectional serial port control, keystroke, TCP/IP control.
- Standard Rack Installation: Designed for 1U height, 19-inch rack mounting, ensuring easy integration into standard server setups.

SPECIFICATION

POWER PARAMETERS

Power Supply: DC 5V, 1A

INTERFACE PARAMETERS

Input Signal: 4×HDMI

Input Connectors: Type A 19-pin female

Input Resolution: Up to 4K@30Hz RGB4:4:4, YCbCr4:4:4, YCbCr4:2:2

Output Signal: 4×HDMI

Output Connectors: Type A 19-pin female

Output Resolution: Up to 4K@30Hz RGB4:4:4

HDMI standard: 1.4

HDMI embedded audio: PCM

Analog Audio: 4×3.5mm Audio Interfaces

Control Port: 2xRS232,
1xEthernet port,
1xRJ45

Port Connectors: 1xDB9 RS232 input female connector,
1xDB9 RS232 output male connector,
1xRJ45 232 output

Keystroke: White crystal buttons support switching and scene recall

MECHANICAL & ENVIRONMENT PROPERTIES

Transmission Distance: The maximum size of 1080P standard wire is 15m;
1080P optical fiber cable HDMI interface up to 50m

Operating Temperature: 0°C ~ +40°C

Storage Temperature: -10°C ~ +50°C

Operating humidity: 10% ~ 90%

Product Dimensions: 482.8(W)*236(D)*44(H) mm

Product Weight: 2kg

Product Warranty: 2 Years

ACCESSORIES

1x4x4 Seamless HDMI Video Matrix

4×Foot pads

1xPower Adapter (Optional)

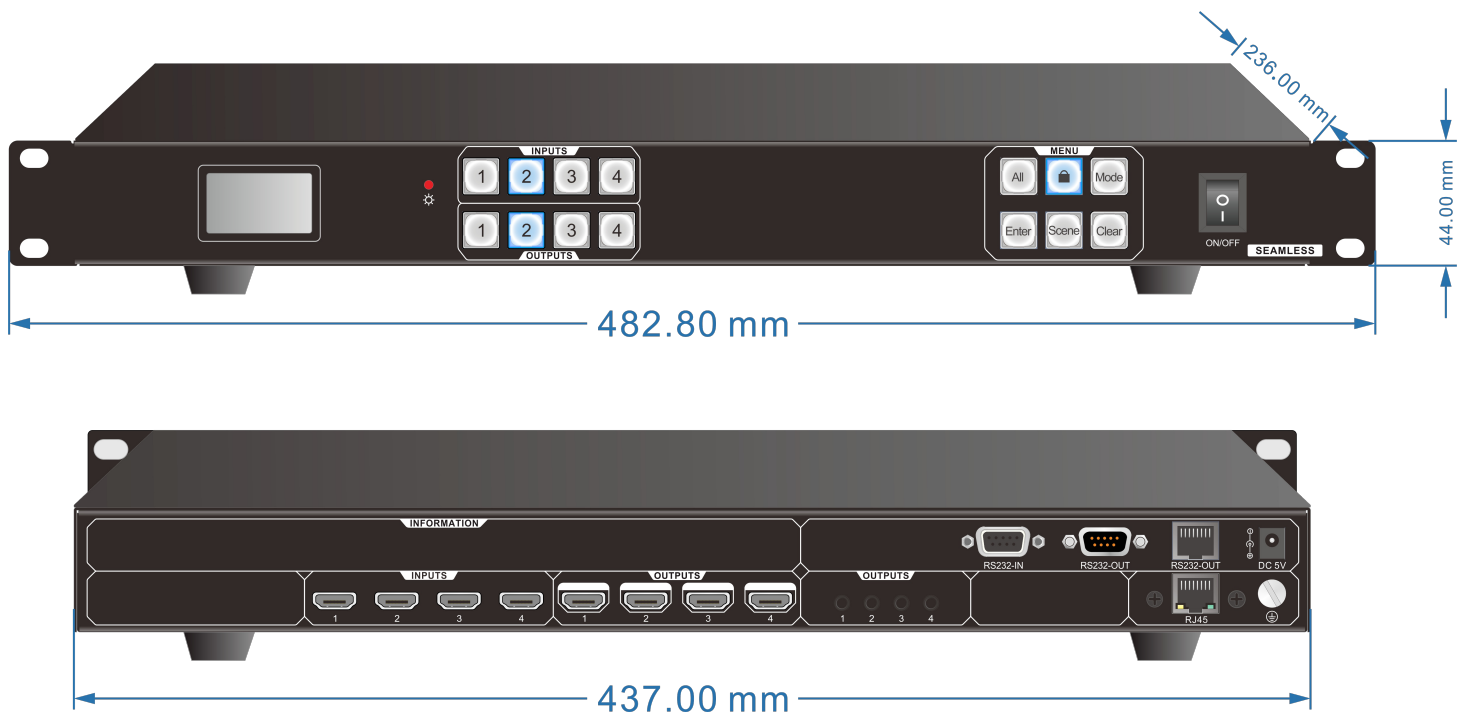
1xRemote Controller

1xRS232 Serial cable

1×Quick Installation Guide

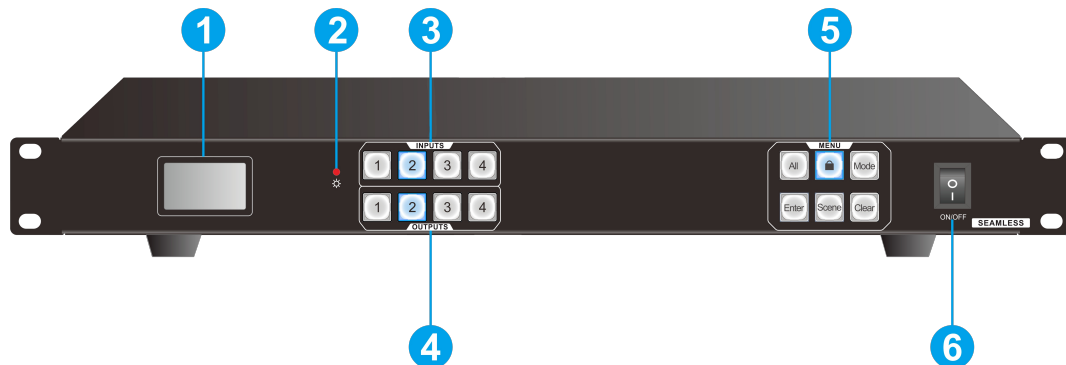
1×Warranty & Certification Card

DIMENSIONAL DRAWING



INTERFACE DESCRIPTION

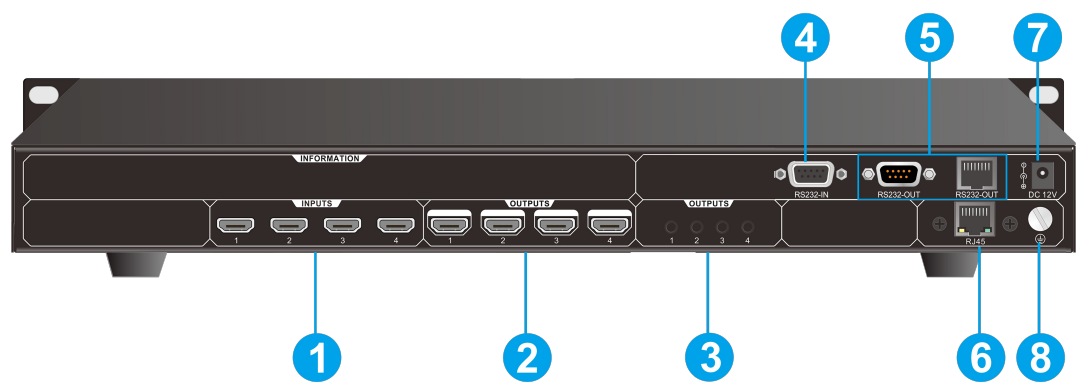
[Front Panel]



Serial number	Name	Description
①	LCD Display	- Display the real-time operation status of the system; - Support device signal and IP address display;
②	Power Indicator Light	- The device works normally, and the indicator light is always on red. - In the standby state, the indicator light is off; The power is off and the indicator light is off;
③	VIDEO INPUTS	Input channel switch key;
④	VIDEO OUTPUTS	Output channel switch button;
⑤	MENU Functional Key Area	All: Select all buttons, Switch an input signal to all output channels;
		- Lock: Press and hold the lock button for 3 seconds; - Unlock: Long press for 3 seconds to unlock the key;
		- Mode: Scene preservation; - Mode+IN digital key combination+Enter=scene save;
		ENTER: Command to confirm the key;
		- SCENE: Scene call; - SCENE+IN numeric key combination + Enter = scene call;
		CLEAR: Clear the key and clear an unfinished action;
⑥	ON/OFF Switch	Power On or Shut down the machine

INTERFACE DESCRIPTION

[Rear Panel]

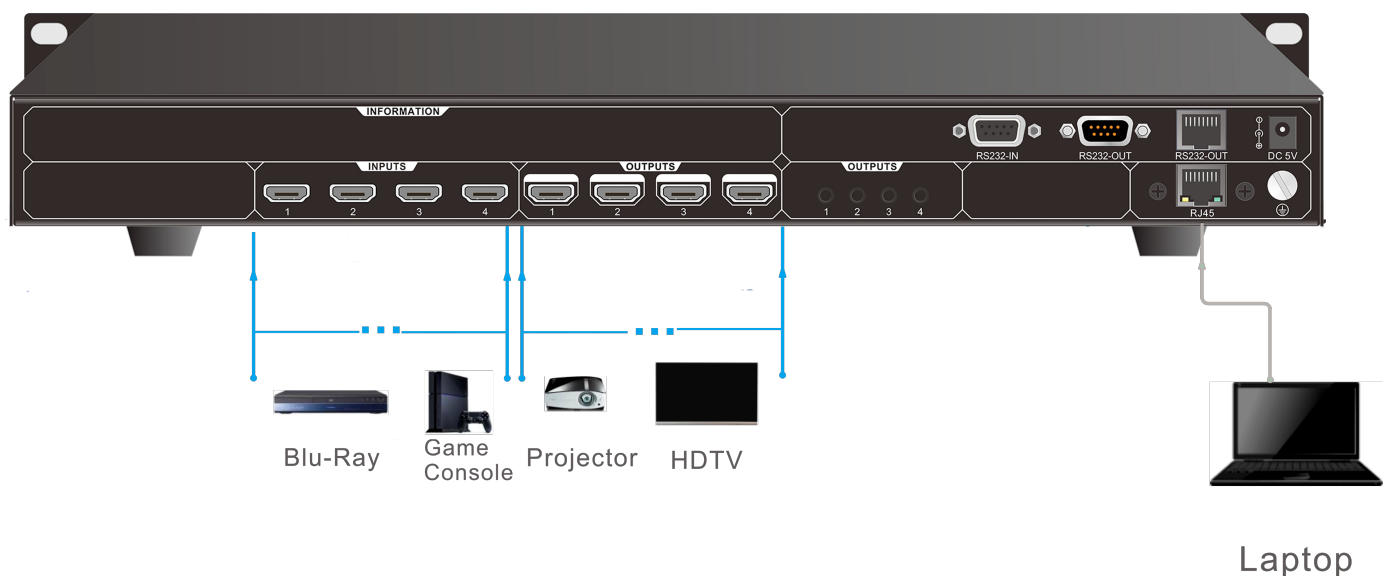


Serial number	Name	Description
①	VIDEO INPUT	• HDMI input port, connecting HDMI signal source, automatic detection of connection status;
②	VIDEO OUTPUT	• HDMI output port, connect the display, and automatically detect the connection status;
③	AUDIO OUTPUT	• 3.5 analog audio output port, corresponding to 4 HDMI outputs
④	RS232-IN	• Connect control devices, such as PC computers, and control the local machine through upper computer software;
⑤	RS232-OUT	• Connect other peripherals, such as matrix, splicer, etc., to control peripherals; choose between network port and DB9
⑥	RJ45	• TCP/IP control.
⑦	Power	• Connect the power supply DC5V
⑧	Grounding Terminal	• Grounding terminal

CONNECTION DIAGRAM

Note:

- The installation and use environment of the system should be kept clean and tidy, with appropriate temperature and humidity, and good ventilation, and not blocking the heat dissipation holes;
- All power switches, plugs, sockets and power cords of the equipment in the system must be insulated safely;
- Connect the peripherals and finally power on the system.



Connection steps:

- Step 1:** Use an HDMI cable to connect HDMI Sources such as DVD to the HDMI input port in the inputs area;
- Step 2:** Connect the HDTV and other display devices with the HDMI output port in the outputs area with an HDMI cable;
- Step 3:** Use RS232 serial cable to connect the control device (e.g. PC) to the RS232 IN port;The machine can be controlled by command or host computer;
- Step 4:** Connect the power adapter to the power connector.

