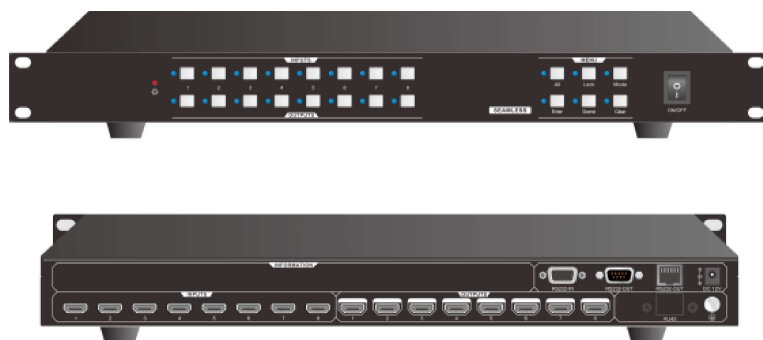

Fixed seamless switching matrix Specification sheet



This article applies to the following types of fixed seamless matrices:

Number	name	Panel color	height	Maximum number of input channels	Maximum number of output channels	source
one	4x4 fixed seamless switching matrix	black	1U	four	four	DC5V
two	8x8 fixed seamless switching matrix	black		eight	eight	DC12V
three	16x16 fixed seamless switching matrix	black		sixteen	sixteen	

catalogue

1.	INTRODUCTION	1
1.1.	PRODUCT INTRODUCTION	1
1.2.	FUNCTIONAL FEATURES	1
1.3.	PACKAGING LIST	2
2.	PRODUCT APPEARANCE	3
2.1.	FRONT PANEL	3
2.2.	REAR PANEL	5
3.	SERIAL PORT CONTROL	6
4.	TECHNICAL PARAMETERS	7
5.	DIMENSIONAL DRAWING	9

1. introduction

1.1. Product Introduction

Fixed seamless switching matrix is a professional 4K high-definition fixed seamless switching matrix that supports multiple HDMI inputs and outputs. Input and output support HDMI1.4, with a maximum output resolution of 3840x2160@30Hz . The device control methods are flexible and diverse, including bidirectional serial port control, panel button control, etc. The product has intelligent EDID management to ensure compatibility with signal sources and operations in various application scenarios.


This series of products is suitable for multimedia conference rooms, lecture halls, multifunctional halls, performing arts halls, electronic classrooms, exhibition displays, command centers, and other places.

1.2. Functional characteristics

- Support seamless and fast switching from multiple inputs to multiple outputs;
 - Support multiple fixed splicing modes;
 - Supports input and output, supports HDMI1.4, with the highest resolution 3840x2160@30Hz ;
 - The color space supports RGB4:4:4, YCbCr4:4:4, YCbCr4:2:2, etc.;
 - Enter 7 built-in EDIDs, 1920x1080@60Hz Dual channel (default), supports custom EDID;
 - Input compatible DVI/HDMI signals;
 - 9 default output resolutions are optional;
 - The output signal format supports HDMI and DVI;
 - Support power-off memory function;
 - Supports continuous hot swapping of HDMI interfaces;
 - Supports standby and low-power standby;
 - Supports bidirectional serial port control, panel button control, and optional network port control;
- 19 inch standard cabinet installation chassis with a height of 1U;

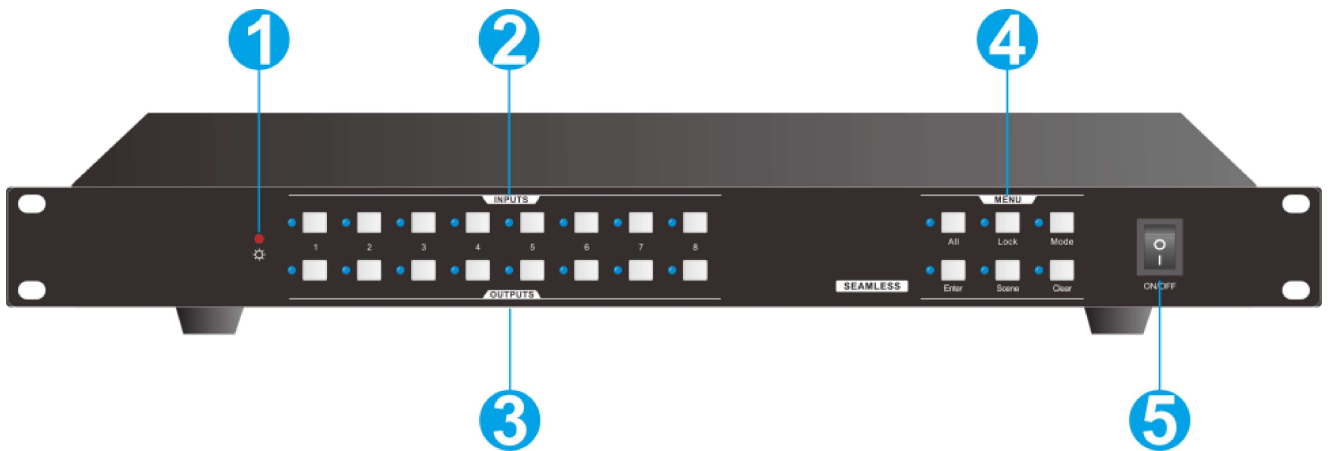
1.3. Packaging List

➤ 1 x host	➤ 1 x Certificate of Conformity&Warranty Card
➤ 1 x serial cable	➤ 1 x power adapter
➤ 1 x power adapter	

 **Explanation:** *This machine is strictly packaged before leaving the factory. Before using the product, please confirm whether the ordered product and accessories are damaged, deformed, or missing. If there is any damage, discrepancy or missing, please contact the product supplier.*

2. Product appearance

2.1. front panel

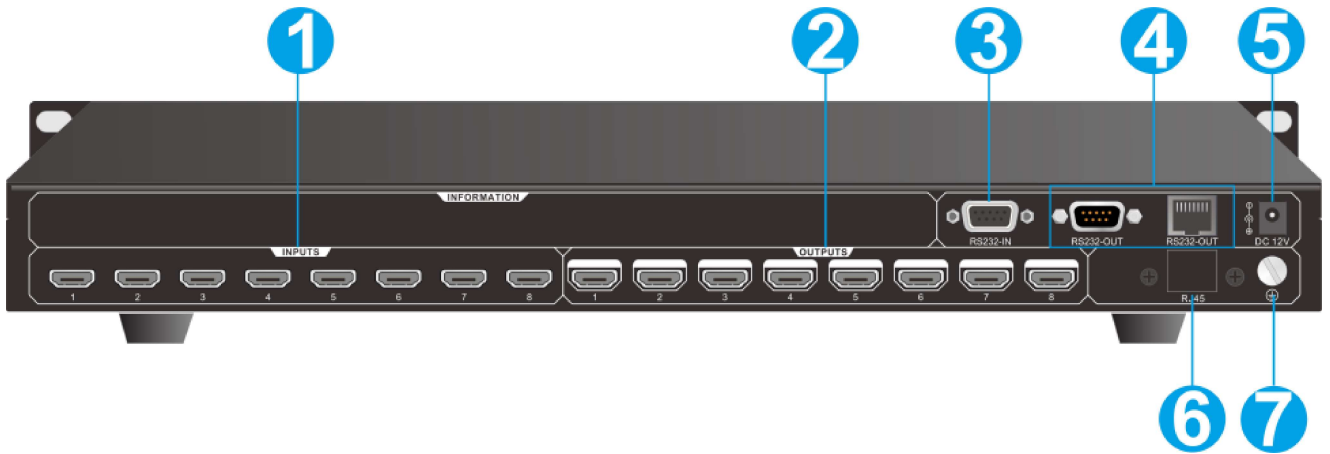


Number	name	describe
①	Power indicator light	<ul style="list-style-type: none"> ● The equipment is working normally, and the indicator light is always red; ● In standby mode, the indicator light is off; ● Power off, indicator light goes off
②	Inputs	<ul style="list-style-type: none"> ● White input channel switch button;
③	OUTPUTS	<ul style="list-style-type: none"> ● White output channel switch button;
④	MENU function button area	<ul style="list-style-type: none"> ● All: Select All button ● Switch all input signals to all output channels; ● Lock: ● Lock: Press and hold the lock button for 3 seconds; ● Unlock: Press and hold for 3 seconds to unlock the button; ● Mode: Scene saving ● Mode+IN numeric key combination+Enter=Scene save, ● Enter: ● Command confirmation button; ● SCENSE: Scene call button, calling scene; ● CLEAR: Clear button to clear an unfinished action.

⑤	ON/OFF switch	● Power on/off
---	---------------	----------------

Attention: *The product images are for reference only, please refer to the actual product.*

2.2. Rear panel

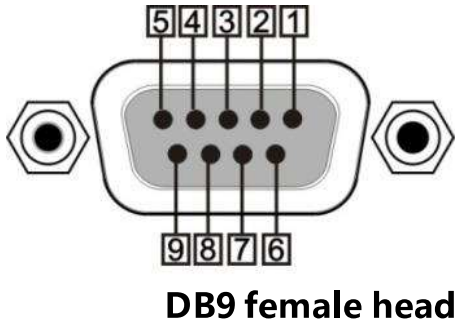


Number	name	describe
①	Input	<ul style="list-style-type: none"> ● HDMI input port, connected to HDMI signal source, automatically detects connection status;
②	OUTPUT	<ul style="list-style-type: none"> ● HDMI output port, connect to display, automatically detect connection status;
③	RS232-IN	<ul style="list-style-type: none"> ● Connect control devices, such as PC computers, and control the local computer through upper computer software;
④	RS232-OUT	<ul style="list-style-type: none"> ● Connect other peripherals, such as matrices, splicers, etc., and control the peripherals; Choose between Ethernet port and DB9 <p>Note: 16x16 without control network port</p>
⑤	Power interface	<ul style="list-style-type: none"> ● Connect the power supply DC5V;
⑥	RJ45	<ul style="list-style-type: none"> ● Optional, enhanced support for network control .
⑦	Grounding terminal	<ul style="list-style-type: none"> ● Grounding terminal

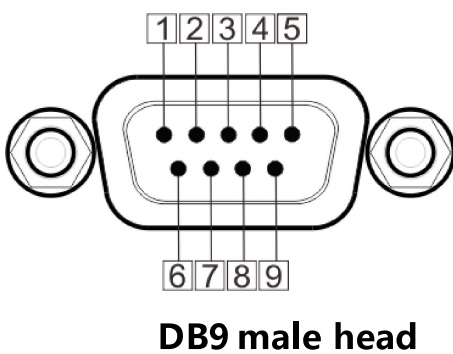
Attention: The product images are for reference only, please refer to the actual product.

3. Serial Port Definition

The host is connected to the control computer and can be controlled through RS232 serial port software. The RS232 IN port is a 9-pin female connector, and the RS232 OUT port is a 9-pin male connector; The RS232 OUT1 port is a network port, and the pin description is as follows:



Pin	name	function
one	N/u	empty
two	Tx	send
three	Rx	receive
four	N/u	empty
five	Gnd	Public areas
six	N/u	empty
seven	N/u	empty
eight	N/u	empty
nine	N/u	empty



Pin	name	function
one	N/u	empty
two	Rx	receive
three	Tx	send
four	N/u	empty
five	Gnd	Public areas
six	N/u	empty
seven	N/u	empty
eight	N/u	empty
nine	N/u	empty



4. technical parameter

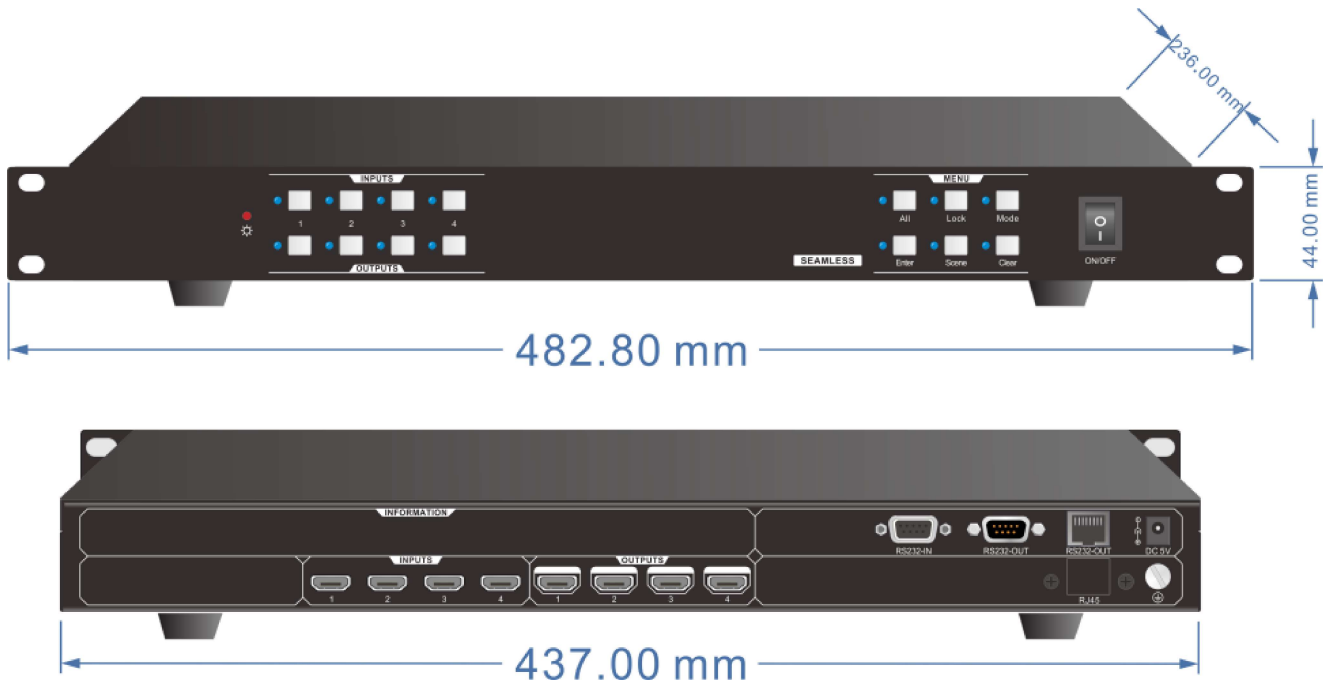
Pin	color	name	function
one	Orange white	N/u	empty
two	orange	Tx	empty
three	Green and white	Rx	TX sending
four	blue	N/u	Public areas
five	Blue and white	Gnd	Public areas
six	green	N/u	RX reception
seven	Brown white	N/u	empty
eight	Brown	N/u	empty

	0404	0808	one thousand six hundred and sixteen
Input signal	(4) Road HDMI	(8) Road HDMI	(16) Road HDMI
Input connector	Type A 19 pin female head		
Input resolution	highest 4K@30Hz RGB4:4:4, YCbCr4:4:4, YCbCr4:2:2		
output signal	(4) Road HDMI	(8) Road HDMI	(16) Road HDMI
Output connector	Type A 19 pin female head		

Output resolution	highest 4K@30Hz RGB4:4:4,		
HDMI standard	HDMI1.4		
HDMI embedded audio	PCM		
control			
Control Port	(2) RS232, (1) Ethernet port		
Port connector	(1) DB9 RS232 input female connector, (1) DB9 RS232 output male connector, (1) RJ45 232 output		
Keys	White button, supports switching and scene calling		
routine			
transmission distance	1080P ≤ 15m; 4K ≤ 5m; 1080P fiber optic cable HDMI interface with a maximum length of 50m; 4K fiber optic cable HDMI interface with a maximum length of 30m;		
bandwidth	10.2Gbps		
working temperature	0 °C~+40 °C		
Storage temperature	-10 °C~+50 °C		
relative humidity	10%~90%		
source	DC 5V 1A	DC 12V 2A	DC12V 2A
Size (W * D * H)	437mm * 236mm * 44mm		
Net weight	Approximately 2 kg	Approximately 3kg	Approximately 3.5kg

5. Dimensional drawing

4x4 fixed seamless switching matrix



8x8 fixed seamless switching matrix



16x16 fixed seamless switching matrix

