

**Standard model splicing
processor
user's manual**

V2.0

Use this manual:

This manual is suitable for splicing processors, and thank you very much for purchasing our products. Please read this manual carefully before using the equipment.

All the pictures in this manual are for reference only, please take the actual product as appropriate.

The description in this manual may not correspond entirely one-to-one to your purchased product or its accessories. The Company reserves the right to modify any information in this manual at any time, and will regularly improve or update the contents in this manual based on the enhancement of the product functionality. Updates will be added in the new version of this manual without notice, understanding.

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1. Safety instructions

1.1. source

Please use the 220V AC power supply of single-phase three-wire system with protective ground, and ensure that the whole engineering system uses the same ground, no power supply without ground protection, and the grounding foot of the power cord can not be damaged.

1.2. interrupt

When the equipment moves or other situations requiring power off, turn off the power supply to ensure the safety of the equipment.

1.3. cable

Do not allow to press down items on the power line, signal line, communication line and other cables, should avoid the cable trampling and extrusion, in order to prevent leakage and short circuit and other dangerous situations.

1.4. signal

Ensure that the signal lines, communication lines and other lines are well connected, and then start up for operation.

1.5. heat radiation

The heat dissipation hole on the surface of the equipment should not be blocked to avoid heat accumulation and damage to the equipment.

1.6. environment

The working environment of the equipment should pay attention to dustproof and moisture-proof to prevent liquid immersion.

1.7. keep in repair

All maintenance work should be completed by professional personnel, without permission, no private maintenance, to avoid electric shock danger.

1.8. equipment installation

Equipment shall be installed on stable and stable worksurfaces or in standard racks, cabinets and chassis.

1.9. Safety precautions

- 1) There is high pressure in the equipment, and non-professional maintenance personnel are not allowed to open the chassis to avoid danger.
- 2) Do not place containers with liquid on and near the equipment.
- 3) Close equipment to fire source.
- 4) Ensure adequate ventilation and the front and rear panels shall maintain at least 20CM gap.
- 5) Unplug the power plug in case of lightning or long-term use.
- 6) Do not block the vent holes of the equipment to avoid causing damage to the equipment.
- 7) Do not place the device near the liquid.
- 8) Please place the power cord properly to prevent damage.
- 9) In the following cases, the power shall be immediately and submitted to professionals:
 - a) When the plug power cord is damaged or worn;
 - b) When the liquid is splashed into the equipment;
 - c) When the equipment falls or the chassis is damaged;
 - d) The equipment has obvious functional abnormalities or performance changes.

* Note: The equipment is not suitable for non-professional personnel and shall be trained or guided by professionals. Please read this manual carefully before using the equipment. It should be properly kept for later use.

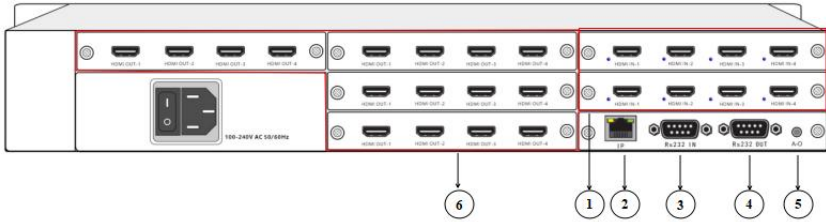
* Note: This is a Class A product, which may cause radio interference in the living environment. In this case, users may need to take practical measures against their interference

2. container loading list

project	name	quantity	unit
1	Splice the processor host	1	Pcs
2	AC 220V national standard power cord	1	Pcs
3	Quick entry	1	Pcs
4	parvicostellae	1	Pcs
5	Certificate warranty card	1	Pcs

3. Quick entry

3.1. Chatic of Schemdiagram



1	incoming channel	4	RS232 ring interface
2	Network control interface (integrated client and web page control)	5	Independent audio output port
3	The RS232 IN interface	6	outgoing channel

3.1.1. Interface location description

Output 13-16	Output 01-04	Input 01-04
Power	Output 05-08	Input 05-08
	Output 09-12	Control

Connection description: the computer is connected to the switch, the main control card IP interface is connected to the switch; or the computer is directly connected to the main control card IP interface, the directly connected equipment and computer needs to be configured with static IP.

3.2. Communication interface description

Master control card



IP	IP network interface, connected to the switch / router, but also directly connected to the computer, web page control
RS232 IN	RS232 interface, connect to the computer serial port
RS232 OUT	RS232 ring out, control the large screen
A-O joggle	Independent audio output port (audio bound to the output channel 4)

Splice processor: default IP: 192.168.1.182, port: 5000

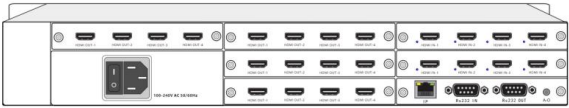
Splice processor: default serial port (RS232), baud rate: 115,200 b p s;

- **The RJ45 line order for RS232:**

foot position	definition	explain
2	TX	RS-232 protocol with, sending data
3	RX	RS-232 protocol is used, received data
5	GND	Signal ground

4. installation instructions

4.1. Schematic diagram of the connection



1	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Note: The input interface light is blue, from left to right, from top to bottom.

5. Web version control

5.1. give tacit consent to IP

The default IP is 192.168.1.182

5.2. How to get and modify the WEB card IP address

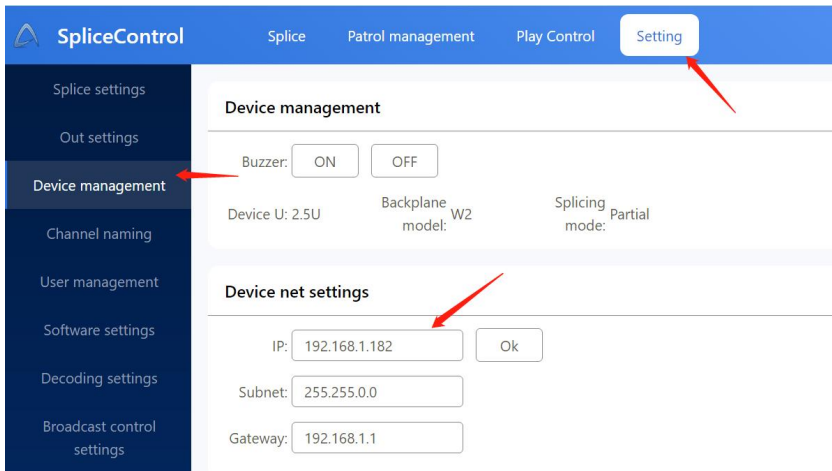
5.2.1. Use the IPCTool tool to search for the WEB card IP addresses

Open IPCTool, click Auto Search, the device version shows Web-CON-xxx for the device

IPCTool download address: <http://www.smartrgb.com/upload/file/1647318930.zip>

5.2.2. Log in to the web page to modify the WEB card IP address

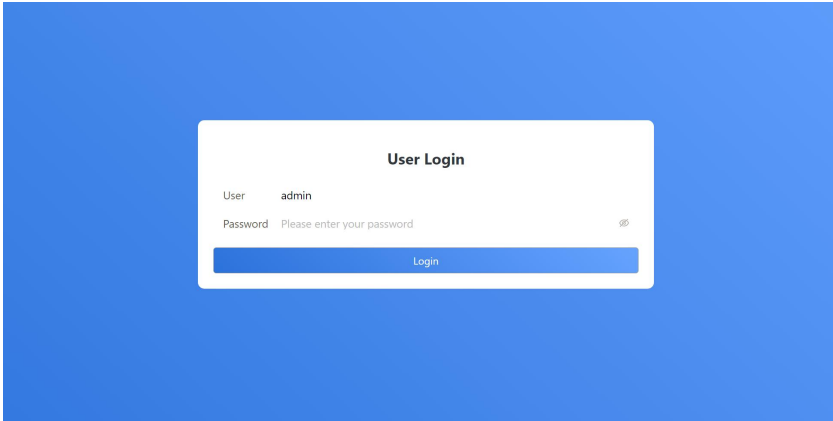
Enter the web page, enter the device management, the device network settings can modify the WEB card IP address



The screenshot displays the SpliceControl web interface. The top navigation bar includes 'SpliceControl' and several menu items: 'Splice', 'Patrol management', 'Play Control', and 'Setting'. The 'Setting' menu item is highlighted with a red arrow. On the left side, a dark blue sidebar contains a list of settings categories: 'Splice settings', 'Out settings', 'Device management', 'Channel naming', 'User management', 'Software settings', 'Decoding settings', and 'Broadcast control settings'. The 'Device management' category is selected and highlighted with a red arrow. The main content area is divided into two sections: 'Device management' and 'Device net settings'. The 'Device management' section shows 'Buzzer' with 'ON' and 'OFF' buttons, and device information: 'Device U: 2.5U', 'Backplane model: W2', and 'Splicing mode: Partial'. The 'Device net settings' section contains input fields for 'IP: 192.168.1.182', 'Subnet: 255.255.0.0', and 'Gateway: 192.168.1.1', along with an 'Ok' button. A red arrow points to the IP input field.

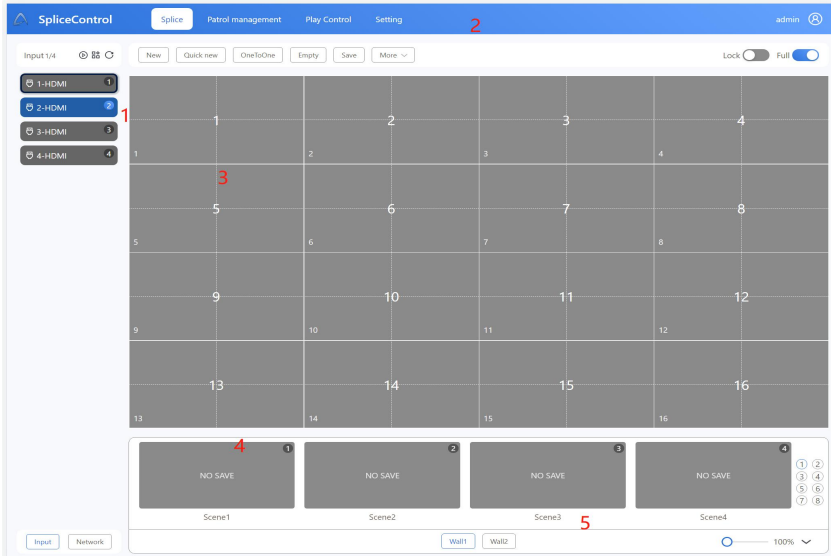
5.3. Access the browser to enter the operating interface

Connect the visitor end (mobile phone, computer, or tablet) and the device to a LAN offline, open the browser access: 192.168.1.182, the default user name: admin, password: admin, and Google browser is recommended



Note An IE browser or an IE kernel browser is not supported

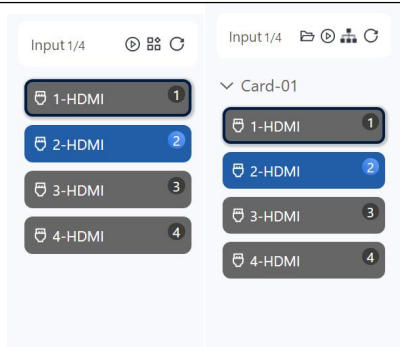
5.3.1. Software Area Description



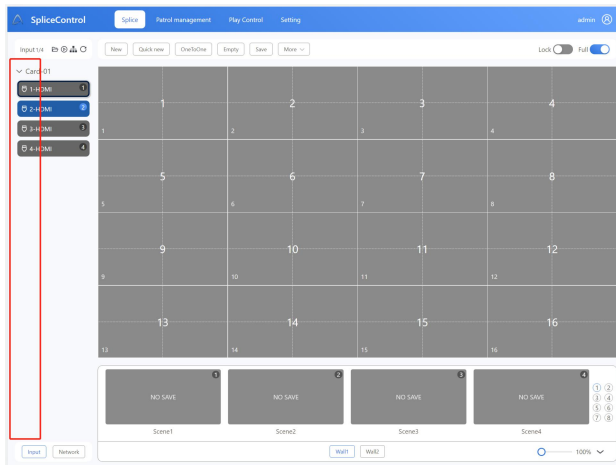
1	Signal bar	Enter the signal list, and the webcam list
2	tool bar	New, empty, fast new, screen channel, open, off, more
3	Virtual screen wall	Window operation area
4	Plan column	Plan preview map, click to switch the plan
5	Screen switch	Multi-screen wall switching

5.3.2. Signal bar

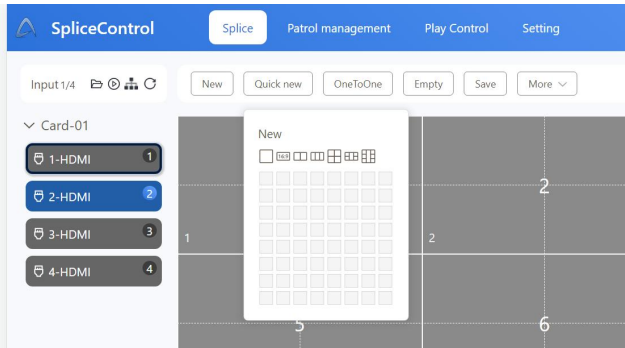
1. Displays the total number of signals and the current number of signals available
2. From the currently selected input signal, switch to the window in the current screen
3. Tree and list mode switching
4. Input signal refresh
5. The input has a signal that is colored, and has no signal that is colored gray



6. Sliding instructions: If the signal number exceeds the layout in the Pad, you can slide the red area to adjust the layout



5.3.3. Function button

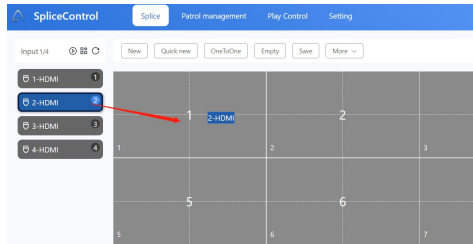


new-built	Create a new window for the selected signals in the screen sequence
Quick construction	Quick window opening function Quickly create a split distribution window
one-for-one	Create the new one-to-one new window by following the input signal source
empty	Empty the screen wall screen
Save the plan	Save the current picture to the preplan
synchronization	Synchronize the relevant data for the device
more	Switch / off screen (require device ring outgoing screen 232 and protocol to match on)
Window lock	Lock the current screen wall, move or close seamlessly, switch signal
The logic is full	The mouse slides the window, according to the logical dotted line of the screen automatically spread the window
more	Pair of all: switch the selected input to all windows
	Ring control on / off

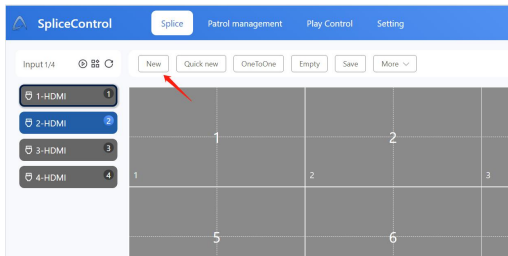
5.4. Window and signal operation

5.4.1. How to signal to open the window

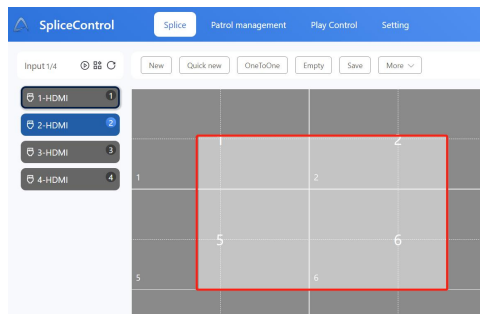
1. Drag the signal source to the blank area and open the window



2. Click New, Quick, or one-to-one window

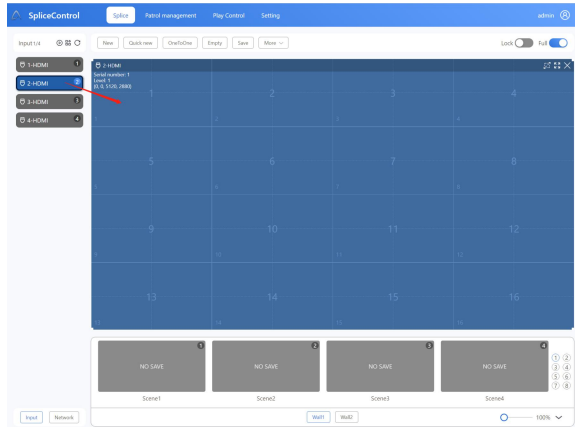


3. Slide the mouse window in the blank area

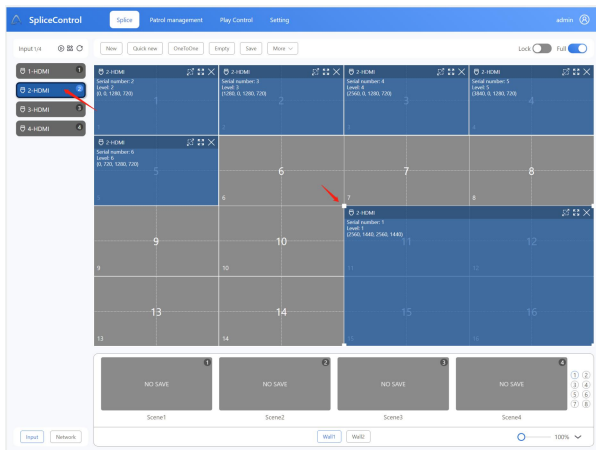


5.4.2. How to switch over the window signal

1. Drag the signal source switch

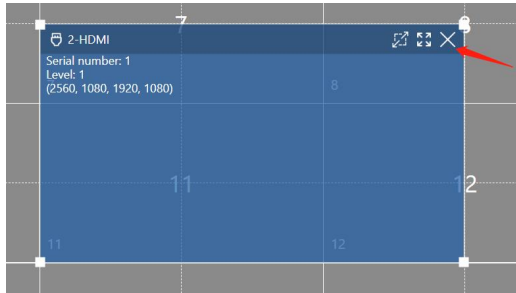


2. Select the window to double-click the signal source toggle

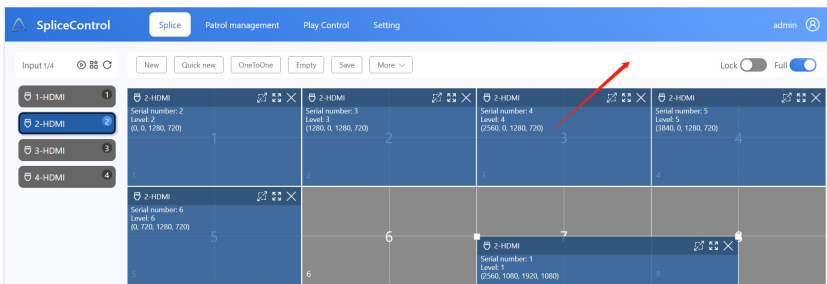


5.4.3. How to close the window

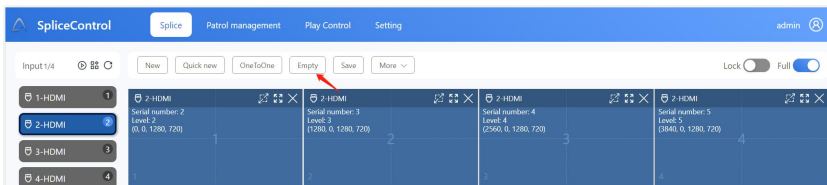
1. Click on the window's X



2. Drag the window to the outside of the screen wall



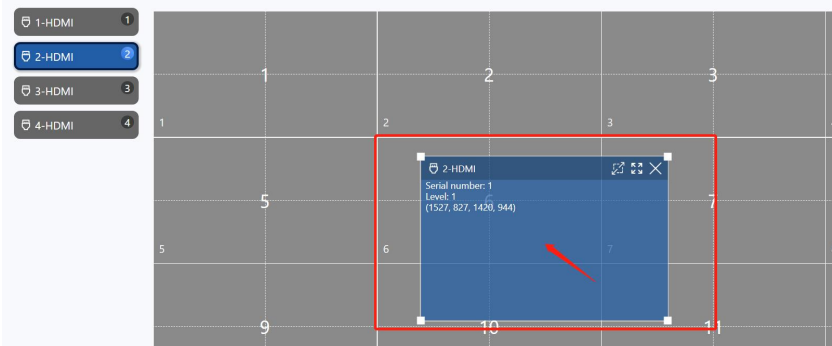
3. Click empty



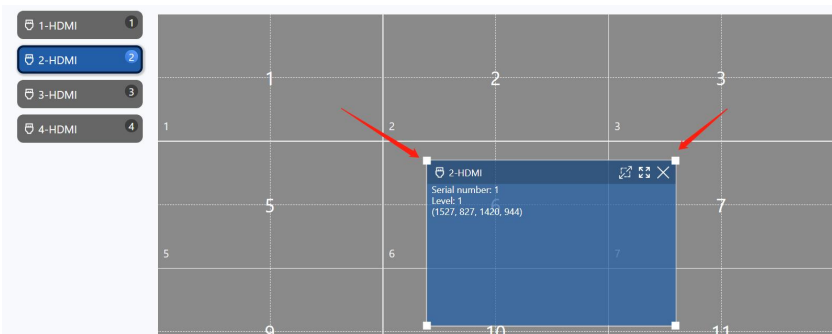
4. The Window is right-click to close

5.4.4. Window size and position modification

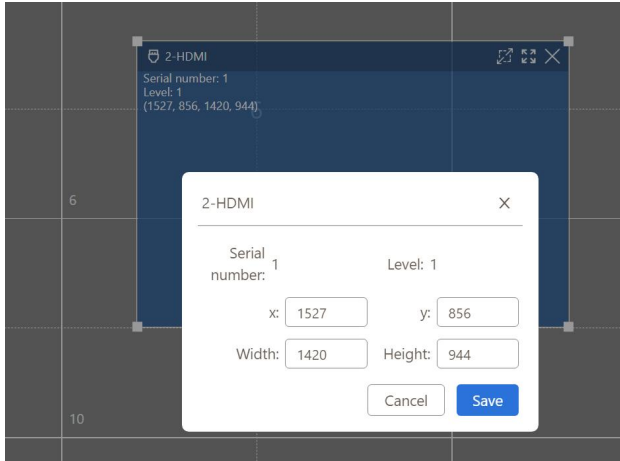
1. **Move the window:** Click the mouse window to move the mouse to move the window position



2. **Drag the window:** Drag the 4 corners of the window to modify the window size

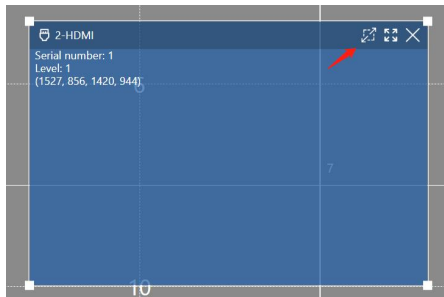


3. **Edit coordinates:** Right-click to edit the window to modify the exact coordinates of the window



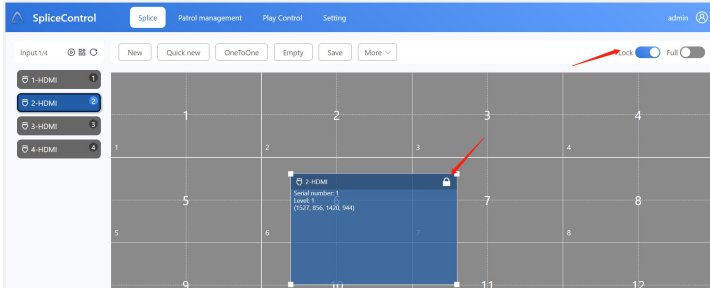
4. Window icon

They are: the logical area is full, the whole screen is full screen, close the window

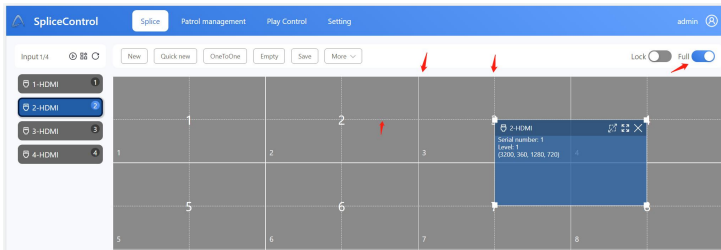


5.4.5. Window is locked and logically full

- Window lock: after the window lock cannot drag the window, can switch the window input signal source

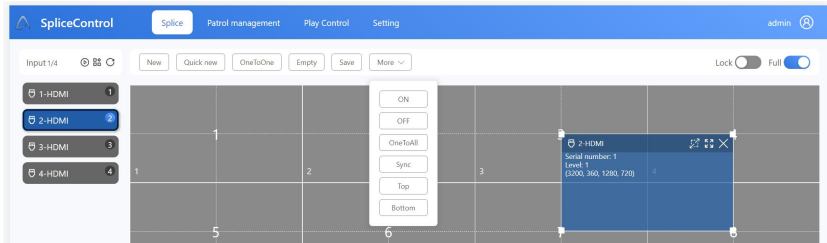


- Logic full: open the logic full, will be the screen dotted line and solid line for the unit of automatic full window



5.4.6. More operations

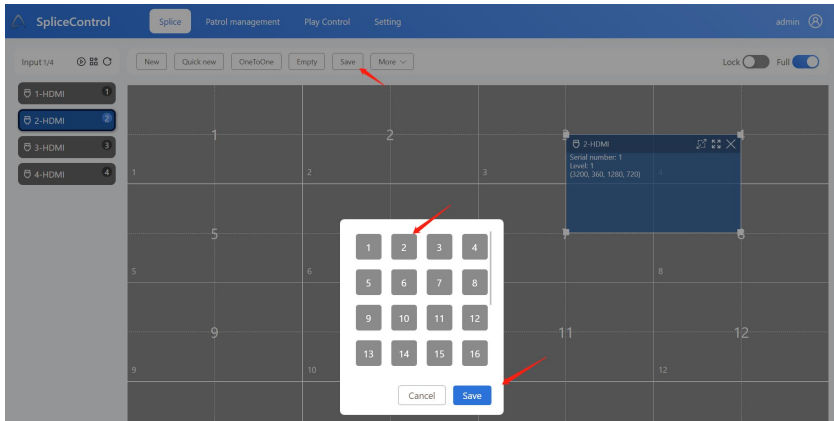
Ring out control large screen switch screen



5.4.7. Plan operation

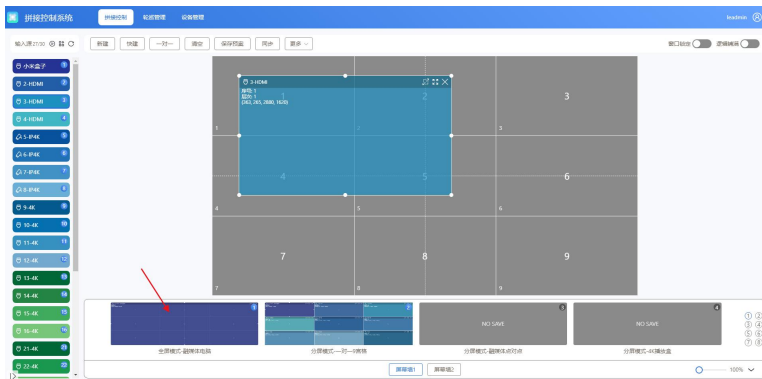
- Save the plan

Click the plan box to be saved and save it



- Loading plan

Click the plan preview chart or the plan serial number



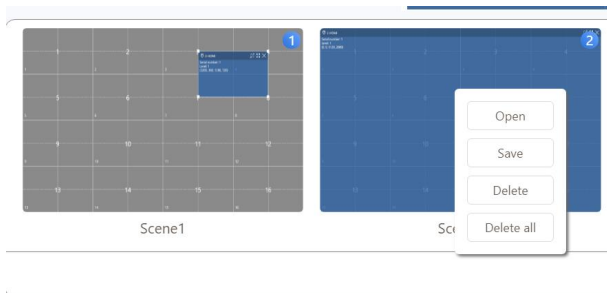
5.4.8. Modify the name of the plan

Device Management-> Channel Naming-> Scene Plan

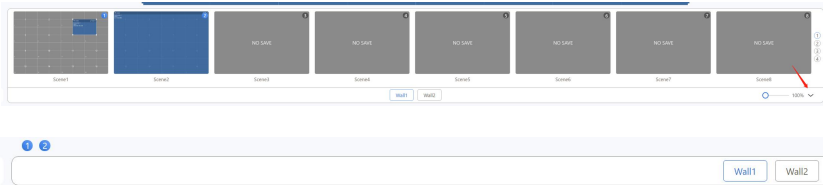
The screenshot shows the SpliceControl interface with the 'Setting' tab selected. The left sidebar contains a menu with 'Channel naming' highlighted. The main content area is titled 'Channel Naming' and is divided into three sections: 'Input channel', 'Output channel', and 'Scene'. Each section contains a grid of 20 input fields (01-20) for naming channels. The 'Scene' section has tabs for 'Wall1', 'Wall2', 'Wall3', and 'Wall4'. At the bottom right, there are buttons for 'Clear', 'Loading', and 'Save'.

- Delete the plan

Right-click to delete or click on the pop-up box to delete;



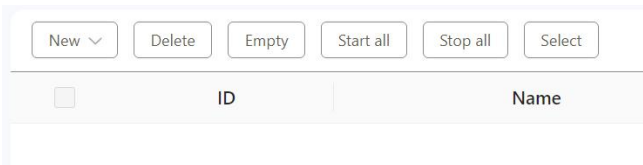
- Hide the plan bar



Note: The preview map and name of the plan saved by the client cannot be synchronized with the WEB side. You need to load the plan and then save it

5.4.9. Round patrol management

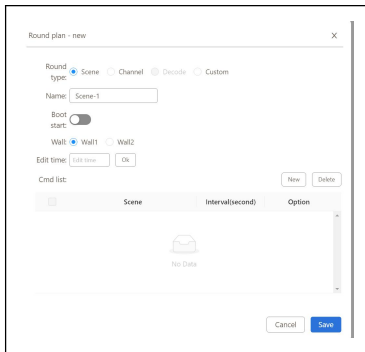
- **Menu function**



New: new wheel patrol; delete: delete the currently selected wheel patrol; empty: empty wheel patrol data;
 Start all: open all rounds of patrol data; stop all: stop all rounds

- **Scene round patrol**

Select the saved scene for the loop switch display

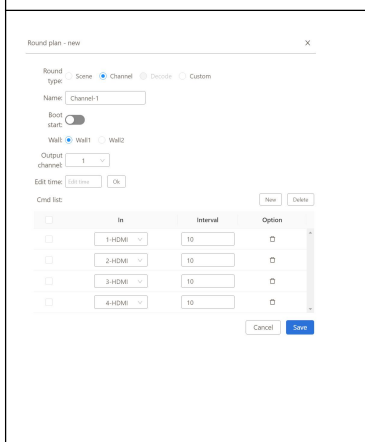


function declaration

- Round patrol type: scene wheel patrol
- Round patrol name
- Start automatically
- Mode: Mosaic mode / matrix mode
- Screen wall
- Batch modification interval time
- Add the scene

Channel round patrol

The selected input rounds are switched in an output (window)

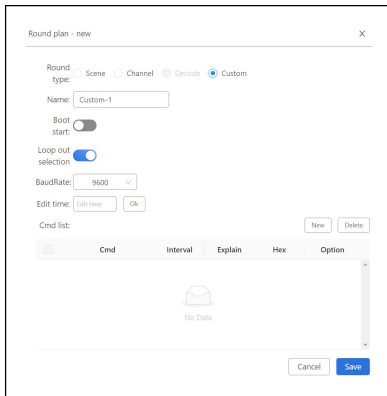


function declaration

- Wheel patrol type: channel wheel patrol
- Round patrol name
- Boot up and start up
- Mode: Mosaic mode / matrix mode
- Screen wall
- Windows window a rotation rounds (output)
- Batch modification interval time
- Add input source

Custom wheel patrol

Follow up the central control protocol, customize the wheel patrol protocol, can support the third party equipment



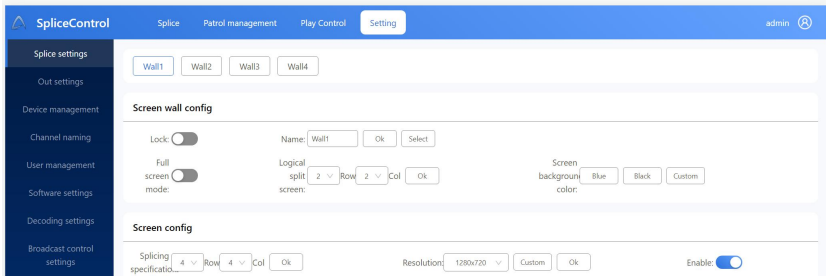
function declaration

- Wheel patrol type: custom wheel patrol
- Round patrol name
- Ring selection (control third party device)
- Ring outaud rate selection
- Batch modification interval time
- Add a custom wheel patrol protocol

Note: If this function is required, it is recommended for users with integrated development capabilities

5.5. device management

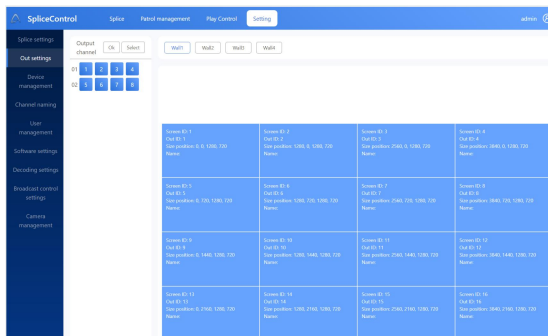
5.5.1. Split setting



Screen wall configuration: screen wall name, logical split screen, screen background color

Screen configuration: splicing specifications

5.5.2. Output management



1. Click empty output or drag the screen wall out of the screen wall
2. Double-click on the left output channel,

3. Watch the big screen, which screen has a black and white cross
4. Drag the output channel to the corresponding screen

5.5.3. device management

- The buzzer switch
- unit type
- WEB board network settings
- Ring-out splicing protocol setting
- Board card version query
- motherboard network settings

Device management

Buzzer ON OFF

Device ID: 2350 Backplane mode: W2 Splicing mode: Partial

Device net settings

IP:

Subnet:

Gateway:

BaudRate: 115200

Protocol interval: 30

Board version

Main control board network settings

IP:

Subnet:

Gateway:

5.5.4. Channel naming

Customize the input, output, and plan name

The screenshot shows the 'Settings' page in the SpliceControl interface. The left sidebar contains navigation options: 'Global settings', 'Unit settings', 'Device management', 'Channel naming', 'Unit management', 'Software settings', 'Decoding settings', 'Board card version settings', 'Current management', and 'Scene management'. The 'Channel naming' section is active and displays three main areas:

- Input channel:** A grid of 20 input fields labeled 01 through 20.
- Output channel:** A grid of 20 output fields labeled 01 through 20.
- Scene:** A row of four buttons labeled 'Wait', 'Wait', 'Wait', and 'Make', followed by a grid of 20 scene fields labeled 01 through 20.

At the bottom right of the settings area, there are 'Clear', 'Loading', and 'Save' buttons.

5.5.5. Software Settings

- Set the language
- Theme color setting
- Software Background Settings (virtual screen wall)
- Software name modification
- WEB software release
- UI software release
- Software function switch
- Software logo settings

Software settings

Lang:

Theme:

Software background color:

Name:

WEB version:

UI version: 1.0.12-0331

Fun: Sub input Multi Wall Independent output Screen control IPC Mode 4K Mode Window topping

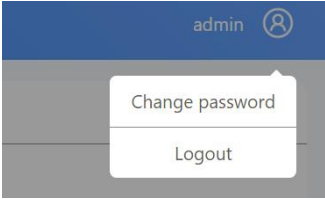
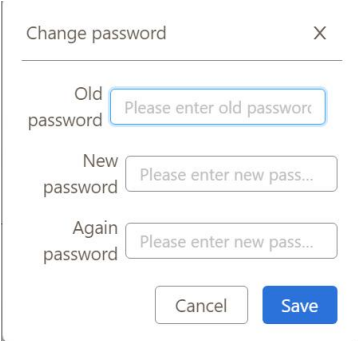
System time

System time: 2022-11-22 10:16:05

System upgrade

System upgrade:

5.5.6. How to modify a user password

<p>1. Click on the user icon</p>  <p>The screenshot shows a user profile header with the name 'admin' and a user icon. A dropdown menu is open, showing two options: 'Change password' and 'Logout'.</p>	<p>2. Enter a new password</p>  <p>The screenshot shows a 'Change password' dialog box with a close button (X) in the top right corner. It contains three input fields: 'Old password' (with placeholder text 'Please enter old password'), 'New password' (with placeholder text 'Please enter new pass...'), and 'Again password' (with placeholder text 'Please enter new pass...'). At the bottom, there are two buttons: 'Cancel' and 'Save'.</p>
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6. Central control agreement

6.1. communication port

- Serial port configuration, the port rate: 115200bps; communication format: 1 bit start bit, 8 bit data bit, 1 bit stop bit, no check
- Network port configuration, ports: 5000,5100,5200,5300
- The protocol format is ASCII, if the central control can only support 16 x can be converted to 16 precimal

6.2. Switch the input source command for the window

instruction format	<switch,wall_id ,win_id ,src_id ,src_x ,src_y ,src_w ,src_h >		
Directive definition	This instruction indicates switching the contents of a window to the specified input source		
protocol specification	form	explain	remarks
	<	Protocol Start	fixed value
	switch	Agreement instruction	Fixed protocol value
	wall_id	Screen wall ID	From 0, with a maximum of 3
	win_id	window ID	From 0, the maximum size is 255
	src_id	signal source ID	From 1, with a maximum of 144
	src_id ,src_	Signal cropping size	Default values are 0,0,0,0

	x ,src_y ,src _w ,src_h		
	>	Protocol end	fixed value
returned value	<switch cmd done>		
Refer to the agreement	Refer to the agreement	explain	
	<switch,0,0,3,0,0,0,0>	Wall 1, the signal source of the window	
	<switch,0,1,3,0,0,0,0>	Wall 1, the signal source of the window	
	<switch,1,3,1,0,0,0,0>	Wall 2, the signal source of the window	

6.3. Call the preplan mode command

instruction format	<call,Wall_ID,Scene_id>		
Directive definition	This instruction indicates the scenario mode where the specified screen group calls the specified number saved.		
protocol specification	form	explain	remarks
	<	Protocol Start	fixed value
	call	Agreement instruction	Fixed protocol value
	Wall_ID	Screen wall ID	From 0, with a maximum of 3
	Scene_id	plan ID	From 1, the maximum size is 32
	>	Protocol end	fixed value
returned value	<call cmd done>		
Refer to the command	<p>[Example 1] <call, 0,1></p> <p>It means that the no. 1 plan mode of the group 1 display wall is retrieved, and the plan scene preservation and deletion need to be saved in advance through the client software.</p>		

Note: The default mode 1 is 1 for all, or all outputs show 1 input

6.4. test tools

- **Conversion tool (string to 16 x)**

<https://www.asciitohex.com/>

7. Common fault analysis and resolution

7.1. Cannot run after software

Possible reasons: The customer computer is missing the relevant software running support component (Microsoft.NET. The exe); blocked or deleted by anti-virus software;

resolvent: Enter the software installation directory, in the Tool folder, install. Net40. Temporary close antivirus software or computer butler, or add the program to the computer butler exception.

7.2. Cannot search for or connect to the device

Possible reasons: Network or serial port is blocked; the IP address conflicts with other devices on the LAN; the network card on one LAN with the device is not selected

resolvent: Using the command prompt, the Ping device's IP checks whether the network is connected; changes the IP address to reconnect; and reselects the computer network card

7.3. The output picture is not displayed for any reasons

Possible reasons: No signal input; output line is damaged or beyond the transmission distance; output mapping is not configured correctly.

resolvent: Check the input signal, confirm that the input signal channel is normal, check whether the LED indicator of the port lights; confirm that the OUT connection is the output device and IN connects to the input device;

7.4. The reason for the color deviation phenomenon of the picture

Possible reasons: Interface is not well connected, loose and cause poor contact; signal cable damage; display equipment color adjustment is incorrect; the use of incorrect software color adjustment.

resolvent: 1) After the interface is connected, tighten the bolts to prevent loosening due by pulling;
2) Adjust the color balance of the display equipment according to the operation manual of the display equipment;

7.5. The picture shakes or has some flowers

Possible reasons: Too long cable causes serious signal loss; the equipment of the input signal is unstable or the wire is damaged.

resolvent: It is recommended to use signal extender to ensure minimum line loss; debug the functional definition of input signal and use high quality wire.

7.6. The picture is not complete in the display device

Possible reasons: Your display has removed the back end of the signal; you adjust the image too much with the control software

resolvent: Follow the instructions for the display device, adjust the default settings in the software; readjust the image position through the control software to achieve the effect you need.

7.7. Picture splicing shows dislocation

Possible reasons: The screen is spliced, and the output mapping does not match

reasons: the physical connector

resolvent: Turn the screen to single-screen mode; check the setup output mapping



Instructions to update the QR code

Thanks for the use of our company

