Milestone PRO

MP-UHD810-VW 8x9 Seamless 1Multiview 4K Ultra HD Matrix and Video Wall Processor

User Manual M1.0

The meaning of symbols

■ Safety instructions

For your safe and correct use of equipments, we use a lot of symbols on the equipments and in the manuals, demonstrating the risk of body hurt or possible damage to property for the user or others. Indications and their meanings are as follow. Please make sure to correctly understand these instructions before reading the manual.

	This is A level product, which may cause radio interference in the living environment. In this case, users may need to take the feasible measures to get around the interference.
	Remind users that the dangerous voltage without insulation occurring within the equipment may cause people suffer from shock.
	CE certification means that the product has reached the directive safety requirements defined by the European Union. Users can be assured about the use of it.
	SGS certification means that the product has reached the quality inspection standards proposed by the world's largest SGS.
	This product passed the ISO9001 international quality certification (certification body: TUV Rheinland, Germany).
	Warning: in order to avoid electrical shock, do not open the machine cover, nor is the useless part allowed to be placed in the box. Please contact the qualified service personnel.

■ General information instructions

	It lists the factors leading to the unsuccessful operation or set and the relevant information to pay attention.

Important note

Warning

In order to ensure the reliable performance of the equipment and the safety of the user, please observe the following matters during the process of installation, use and maintenance:

The matters needing attention of installation

- Please do not use this product in the following places: the place of dust, soot and electric conductivity dust, corrosive gas, combustible gas; the place exposed to high temperature, condensation, wind and rain; the occasion of vibration and impact . Electric shock, fire, wrong operation can lead to damage and deterioration to the product, either;
- In processing the screw holes and wiring, make sure that metal scraps and wire head will not fall into the shaft of controller, as it could cause a fire, fault, or incorrect operation;
- When the installation work is over, it should be assured there is nothing on the ventilated face, including packaging items like dust paper. Otherwise this may cause a fire, fault, incorrect operation for the cooling is not free;
- Should avoid wiring and inserting cable plug in charged state, otherwise it is easy to cause the shock, or electrical damage;
- The installation and wiring should be strong and reliable, contact undesirable may lead to false action;
- For a serious interference in applications, should choose shield cable as the high frequency signal input or output cable, so as to improve the anti-jamming ability of the system.

Attention in the wiring

- Only after cutting down all external power source, can install, wiring operation begin, or it may cause electric shock or equipment damage;
- This product grounds by the grounding wires .To avoid electric shocks, grounding wires and the earth must be linked together. Before the connection of input or output terminal, please make sure this product is correctly grounded;
- Immediately remove all other things after the wiring installation. Please cover the terminals of the products cover before electrification so as to avoid cause electric shock.

Matters needing attention during operation and maintenance

- Please do not touch terminals in a current state, or it may cause a shock, incorrect operation;
- Please do cleaning and terminal tighten work after turning off the power supply. These operations can lead to electric shock in a current state;
- Please do the connection or dismantle work of the communication signal cable , the expansion module cable or control unit cable after turning off the power supply, or it may cause damage to the equipment, incorrect operation;
- Please do not dismantle the equipment, avoid damaging the internal electrical component;
- Should be sure to read the manual, fully confirm the safety, only after that can do program changes, commissioning, start and stop operation.

Matters needing attention in discarding product

- Electrolytic explosion: the burning of electrolytic capacitor on circuit boards may lead to explosion;
- Please collect and process according to the classification, do not put into life garbage;
- Please process it as industrial waste, or according to the local environmental protection regulations.

Preface

This manual mainly describes the use, performance parameters and troubleshooting of Milestone Pro MP-UHD810-VW 8x9 seamless 1 Multiview 4K Ultra HD matrix and video wall processor. .

If the technical parameters and system usage in this manual are changed, the manufacturer will update the version of the manual. Please use the latest user manual.

Version	Update	Date
1.0	Released	2025.08.14

CONTENTS

1. Overview

MP-UHD810-VW HDMI Seamless Matrix Switcher features 8 HDMI inputs, 9 seamless HDMI outputs, and 1 HDMI preview output for 9-split signal monitoring, along with analog audio output. It supports 4K@30Hz 4:4:4 and enables real-time seamless switching. It offers IP-based visual preview, flexible layout, and multi-layer display, as well as image editing, video wall splicing, multiple control methods, and intelligent management, making it ideal for diverse application scenarios.

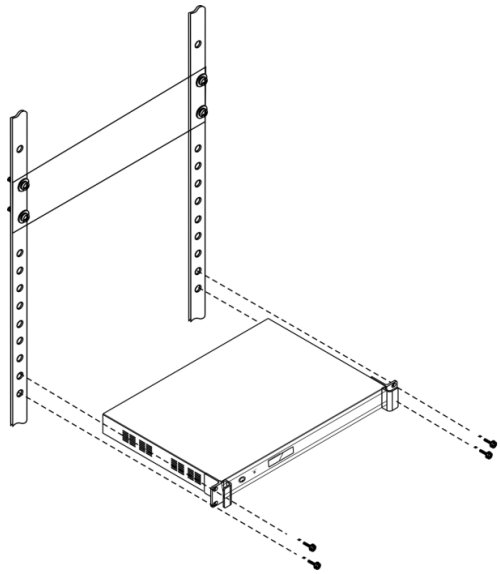
Property

- Features 8 HDMI inputs and 9 HDMI outputs,, and 1 HDMI preview output for 9-split signal monitoring, along with analog audio output.
- Supports up to 4K@30Hz 4:4:4 input and output, compatible with HDMI 1.4 and HDCP 1.4.
- Offers flexible layout options, including windowing, roaming, scaling, seamless switching, and layer overlay.
- Each interface supports up to 8 layers, and the entire video wall supports up to 16 layers.
- Built-in IP-based visual preview enables real-time monitoring of input signals and displays current video wall status.
- Supports three display modes: Matrix, Video Wall, and Multi-View, catering to diverse application needs.
- Multiple control methods: front panel with LCD and buttons, RS232, TCP/IP, web interface, and PC software control.

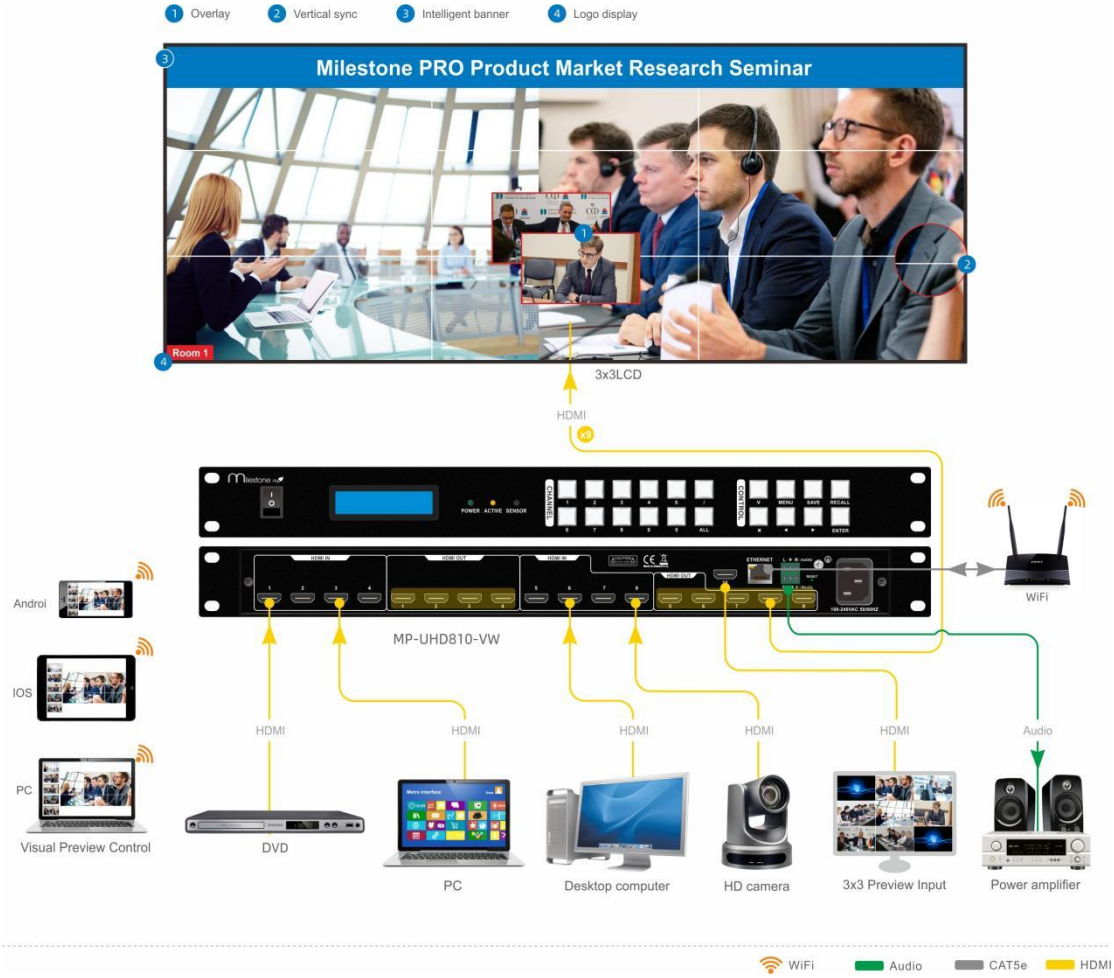
Features

- 8 HDMI inputs and 9 HDMI outputs,, and 1 HDMI preview output for 9-split signal monitoring, along with analog audio output.
- Input/output supports up to 4K@30Hz, 4:4:4, compliant with HDMI 1.4 and HDCP 1.4.
- Visual management with built-in preview for real-time monitoring and video wall status feedback.
- Flexible layout: customizable windows, roaming, scaling, seamless switching, and layer overlay.
- Layer management: up to 8 layers per output, max 16 layers across the wall (Inputs 1–8 share 16 layers; Output 9 shares 8 layers with Inputs 5–8).
- EDID management: selectable built-in EDID, reads and applies display EDID, supports updates.
- Image cropping: allows partial input image display.
- Logo overlay: supports custom logos with adjustable language, font, and size.
- Built-in test patterns: 11 professional signals for system diagnostics.
- Seamless LED/LCD video wall processing with sync display.
- Scrolling text overlay: supports multilingual, scalable fonts on video wall.
- Graphical UI: intuitive control via web interface or PC software.
- Audio control: software-based per-channel volume control and one-touch mute.
- Multiple control options: front panel with LCD, RS232, TCP/IP, web control.
- Output mapping: flexible output port configuration.
- Smart device monitoring: real-time input status, temperature, and version info.
- User access control: multi-user management with permission and port range settings.
- Preset management: save and recall scenes with one click.
- Bezel compensation: adjusts for display gaps to optimize visual performance.

1.1 Installation



1.2 Diagram



2. Hardware description

Product parameters:

Model	MP-UHD810-VW
Input	8 HDMI
Output	10 HDMI, 1 Analog Audio
Video Protocol	HDMI 1.4, HDCP 1.4
Max Resolution	4096 x 2160@30 Hz
HDMI Interface	Type A, 19-pin female connector
Serial Interface	RS-232
Input Cable Length	10m
Output Cable Length	10m
Impedance	100±15 Ω
RJ45 Control Protocol	TCP/IP Protocol
Ethernet Speed	Adaptive 10M/100M/1000M
Storage Environment	Temperature: -20°C ~ +70°C, Humidity: 10%~90%
Operating Environment	Temperature: 0°C ~ +50°C, Humidity: 10%~90%
Power Supply	AC100~240V 50/60Hz
Maximum Power Consumption	65W
Chassis Type	1U
Dimensions (W × D × H)	482x350x46.3mm
Weight	3.5 kg
MTBF	30,000 hours
Warranty	1 year warranty with lifetime maintenance

3. Description of the front and rear panels

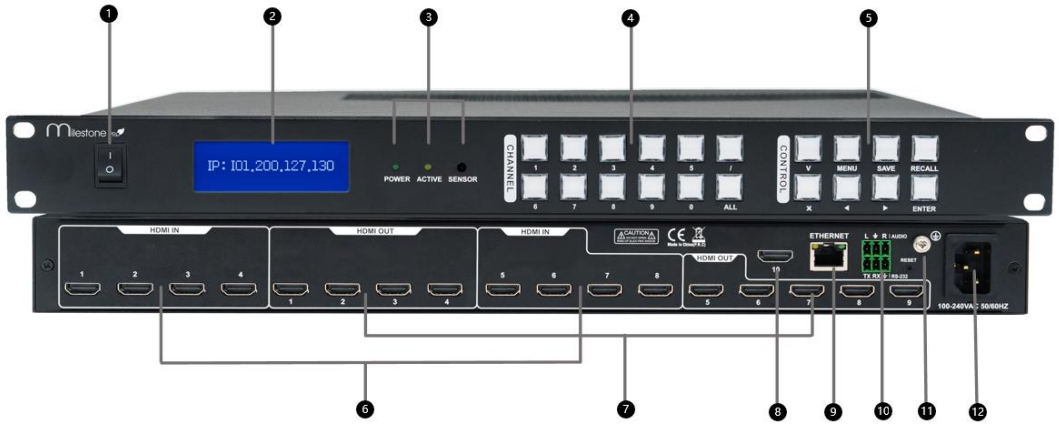


Figure 1 MP-UHD810-VW front panel and rear panel

The front and rear panels of the MP-UHD810-VW seamless UHD Matrix switcher include:

1. **Power switch** - Power on or off the matrix switcher.
2. **Display** - Current matrix status and command input and result display.
3. **Signal indicator** -POWER: power indicator; ACTIVE: indicates the status indicator for receiving commands. SENSOR: infrared receiving status indicator.
4. **0 to 9 Number of channels** - Number of Input channels and number of output channels the/and button is used to select the isolation symbol of multiple channels at the same time. The ALL button is used to select all output channels.
5. **Control Command buttons** - Change IP, V switch command, SAVE save scene, RECALL call scene, and left and right menu selection buttons.
6. **HDMI IN** - Signal input source, provides 8 HDMI input ports for connecting to the corresponding input source device.
7. **HDMI OUT** - signal output source, providing 9 HDMI output ports for connecting the corresponding output device.
8. **HDMI Out-**1 HDMI output port for multiview preview
9. **ETHERNET** RJ45 Network port - An Ethernet port used to connect the local area network (LAN) to the Internet. If the green indicator is on, the connection is normal. If the orange indicator is blinking, data is being received or sent.
10. **Phoenix connector-**Audio output to the loudspeaker amplifier system.
11. **Ground pole**
12. **Power input port** - System power supply, support AC100~240V 50/60Hz input.

4. Network protocol

Protocol: TCP, IP: 192.168.1.188, port: 80
Protocol table:

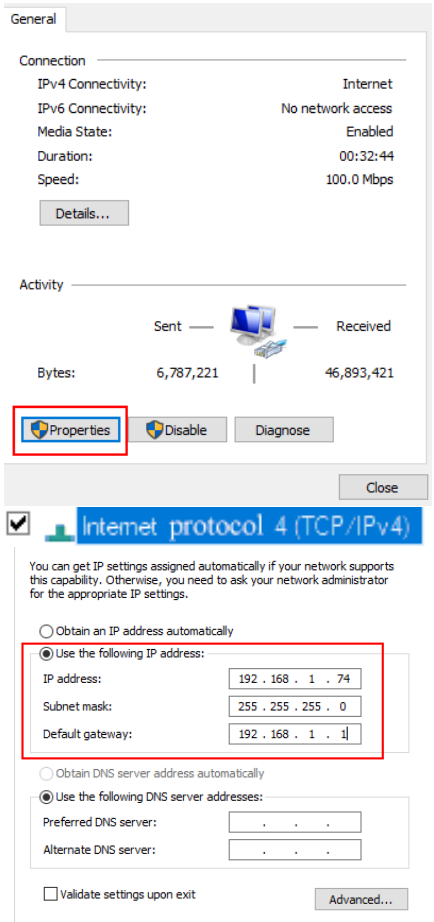
Order	Function description	Parameter description	Return information
{param=version}	Version query	NO	{“type”： ”UHD0809”,“MCU”： ”Ver1.2/Ver1.1/Ver1.3”,“FPGA”： ”Ver1.2/Ver1.1/Ver1.3/Ver1.2” }
{param=status}	Switch the status.	Mode: Y 0: Single screen mode，1: One row and two columns 2: Two row and one columns 3: Two row and two columns 4: Two row and three columns 5: Three row and two columns 6: Three row and three columns	{“video1”:X1, “video2”:X2, “video3”:X3, “video4”:X4, ... “video9”:X9,”mode”:Y} {“audio1”:X1,“audio2”: X2, “audio3”:X3, “audio4”:X4, ... “audio9”:X9} {“IR1”:X1, “IR2”:X2, “IR3”:X3, “IR4”:X4, ... “IR9”:X9}
{param=resolution}	Resolution information.	No	{“in1”:1920x1080x60Hz, ... “in8”:3840x2160x60Hz,“out1”:1920x1080x60Hz,... ... “out9”:3840x2160x60Hz }//noinput or corresponding
{param=inputinfo}	Input signal status	No	{“input-1”:true/false, “input-2”:true/false, “input-3”:true/false, “input-4”: true/false, “input-5”: true/false, ... “input-8”: true/false }
{param=netInfo}	Settings->Query network parameters	No	{“ip”:”X”,”gateway”:”Y”,”subnet”:”A”,”mac”:”B” }
{param=&ip,ip=%d.%d.%d.%d,gateway=%d.%d.%d.%d,subnet=%d.%d.%d.%d,mac=%x:%x:%x:%x:%x:%x},	Settings->Set network parameters	No	No
{param=XVIDEOY}	Video source switching	X：input，Y：output	No
{param=XAUDIOY}	Audio switching	X：input audio （1-8）	No
{param=XIRY}	Infrared switch	X：input infrared （1-8）	No

{param=modeX}	Splicing settings	X： Splicing rows and columns （0--6）	No
{param=Default}	Reset	No	No
{param=In_Pattern[x]/[y]}	Input test pattern settings	X： Channel y： Test graphics mode（0--11）	No
{param=Out_Pattern[x]/[y]}	Output test pattern settings	X： Channel y： Test graphics mode（0--11）	No
{param=BellOn}	Buzzer setting	BellOn/BellOff	No
{param=Save[x]}	Save plan	X：Plan serial number （0--9）	No
{param=Recall[x]}	Plan call	X：Plan serial number （0--9）	No
{param=Clear[x]}	Plan cleared	X：Plan serial number （0--9）	No
{param=Get_Volume}	Get input volume	x: Volume 0--100	{“Volume1”:X1, “Volume2”:X2, “Volume3”:X3,, ... “Volume8”:X8}
{param=Volume[x]/[y]}	Input volume adjustment	x: Input channel y: Volume 0--100	No
{param=MuteOn[x]}	Output mute on	x: Output channel	No
{param=MuteOff[x]}	Output mute off	x: Output channel	No
{param：Port[x]/[y]}	Set output resolution	x: Output channel y:1920x1080x60Hz!/3840x2160x60Hz! Resolution list reference UHD_HDMI	No
{param：Analog_sel[x]/[y]}	Set output audio selection	x: Output channel y: 0: number 1：Simulation	No
{param：All[x]}	Switches the specified input to all outputs	x: Input channel	No

5. PC software introduction

5.1 Connection

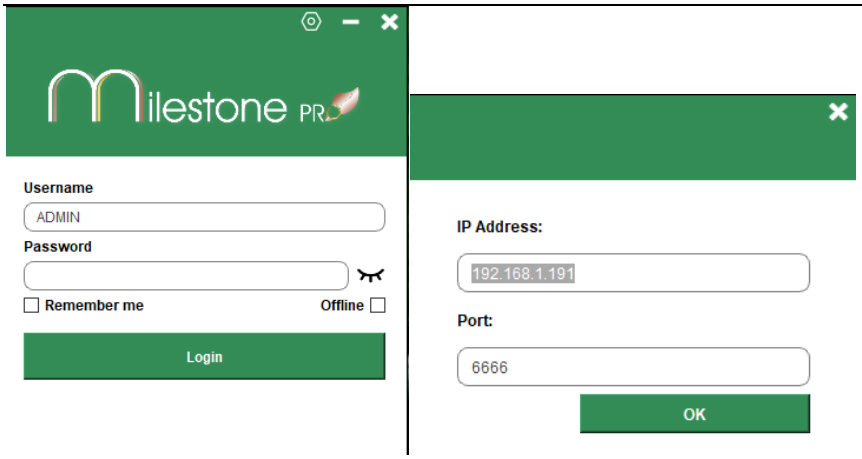
1. The router is connected to the CAT5 network cable for TCP/IP communication.
The default IP address of the matrix is 192.168.1.191. The IP addresses assigned by routers must be on the same network segment.
2. To use the PC side control, open the "Network and Internet" Settings," Change Adapter Options "set the following IP.



5.2 Login

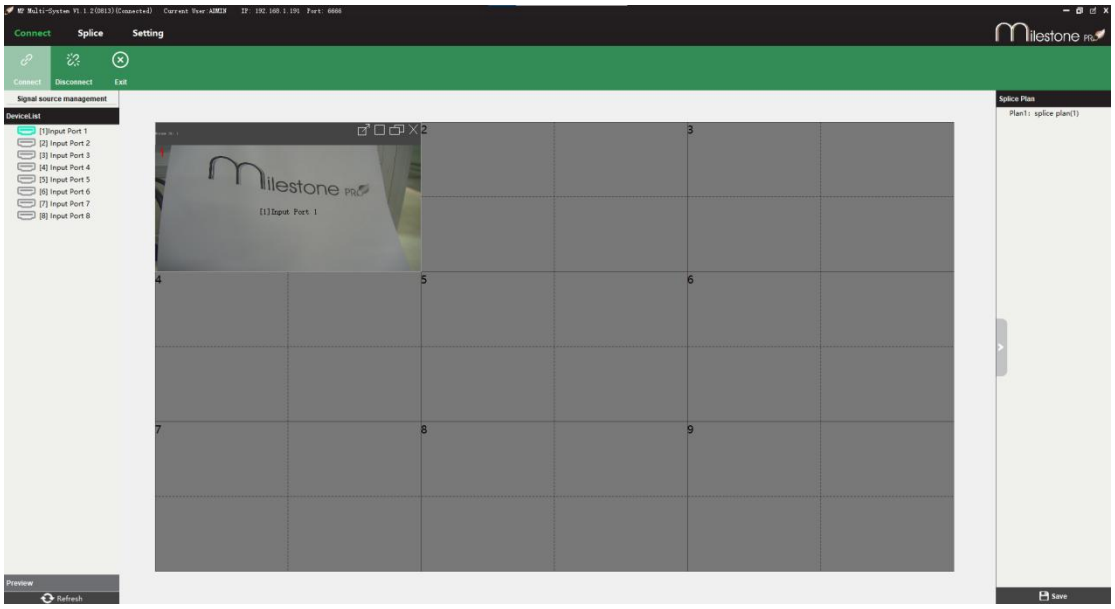
Download and install the “MP Multi-System”, double-click to open the software "MP Multi-System"

Check whether the device IP address and port number are correct, and then enter the password of the default account.



IP address: 192.168.1.191, port number: 6666. Login and password is ADMIN and admin123

5.3 Connect Tab



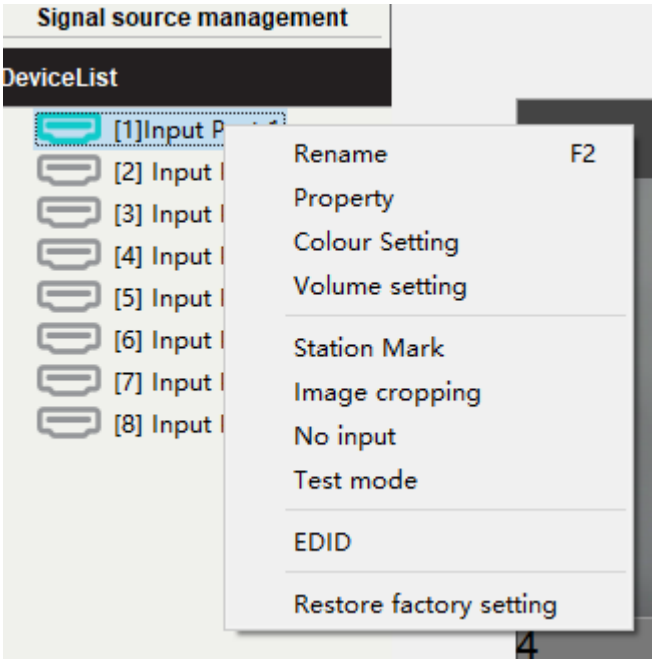
1."Connect": You can click this button to connect your device. In general, the software connects to your device after you log in. The icon is in green when the device is successfully connected.
2. "Disconnect": You can click this button to manually disconnect the device.
3. "Exit": You can click this button to exit the software.

In the "Signal Source Management" column on the left, "Device List" displays the type and status of input cards connected to the matrix. Gray indicates that no input source is connected and green indicates that an input source is connected.
"Preview": To view signals in preview mode, connect a preview card. "Refresh": You can click this button to refresh the status of the device list.

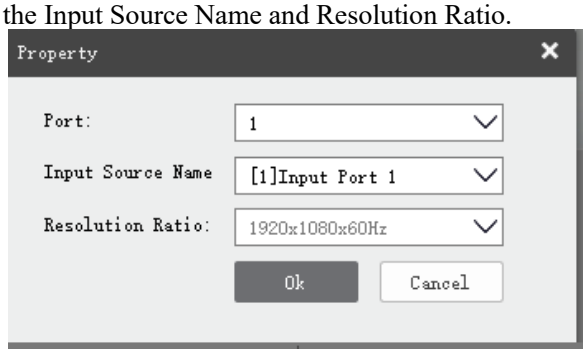
5.4 Signal Source Management

1. Device List-8 Inputs

8 Inputs: It will be green color if the input signal connection successfully, signal list right click function as shown below:



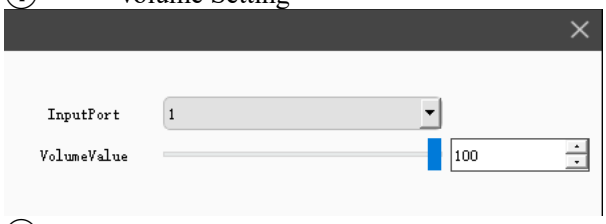
① Rename(F2): Can change the input signal name.
② Property: Can check the Input Source Name and Resolution Ratio.



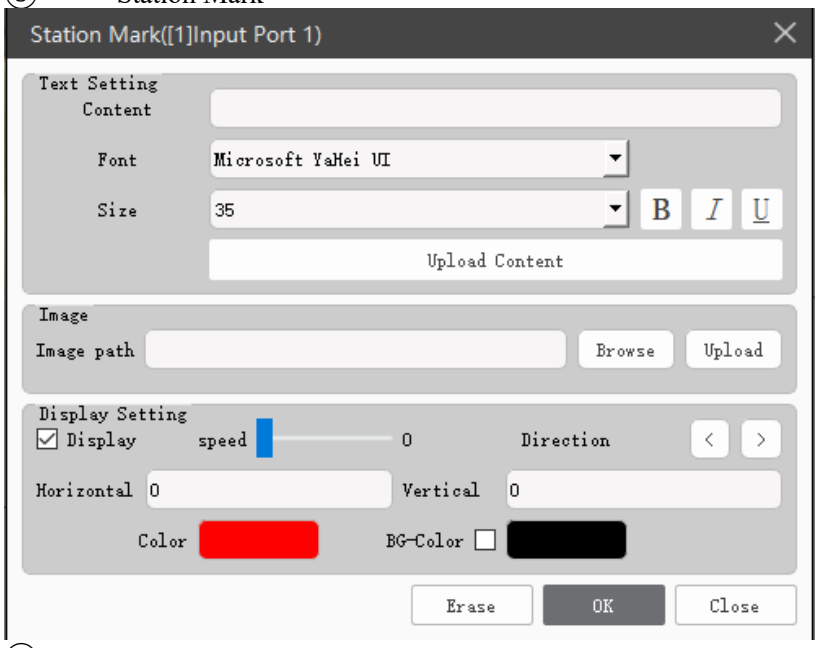
③ Color setting: Can change the color of input source name.

Original

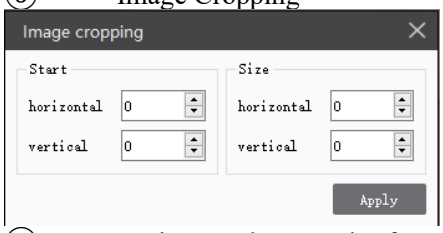
④ Volume Setting



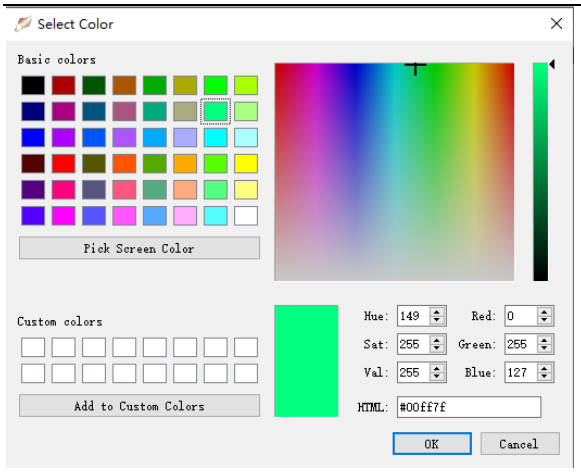
⑤ Station Mark



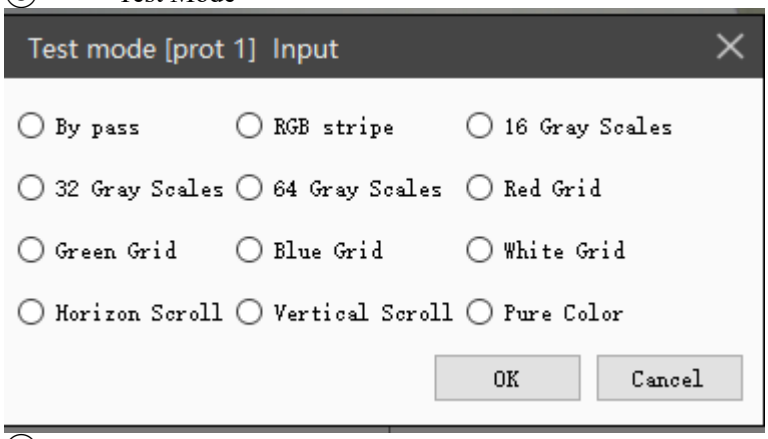
⑥ Image Cropping



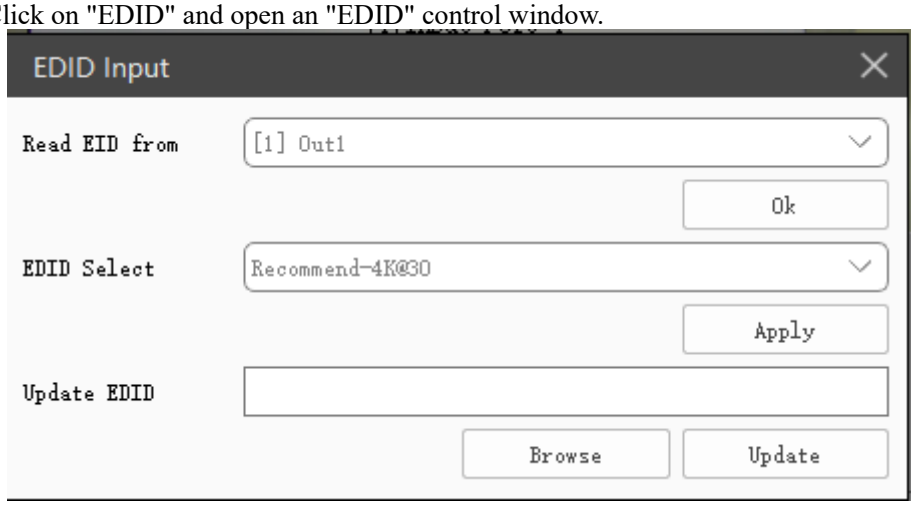
⑦ No input: Choose color for each input when no input signal source



⑧ Test Mode

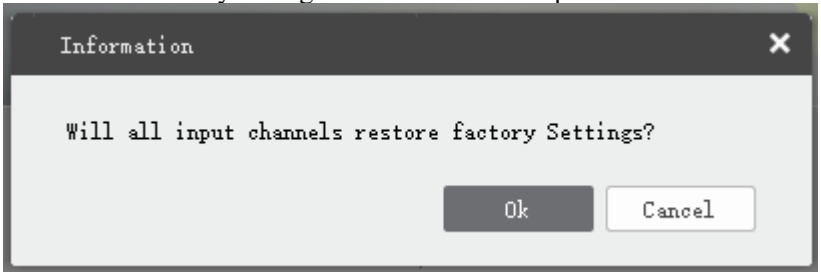


⑨ EDID: Click on "EDID" and open an "EDID" control window.



Select an input in the signal list and click "EDID"
"Read Edid From" Output Port 1 or 2...
"EDID selection"-select different resolution and best recommended resolution
"Update EDID" Click "Browse", select the EDID file to be updated to open, and click "Upload".

⑩ Restore factory setting solution: View the input resolution.



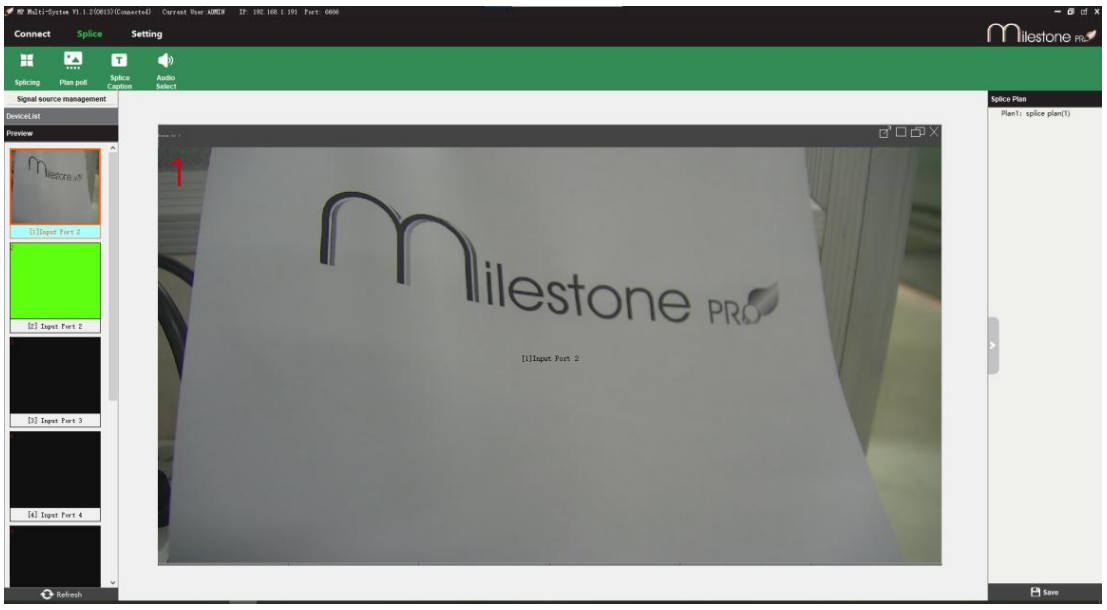
2. Preview

8 inputs with 8 preview window, and can check or set Rename/Property/Station Mark/Image Cropping/No Input/Test Mode/EDID/Restore Factory Setting same as device list directly.

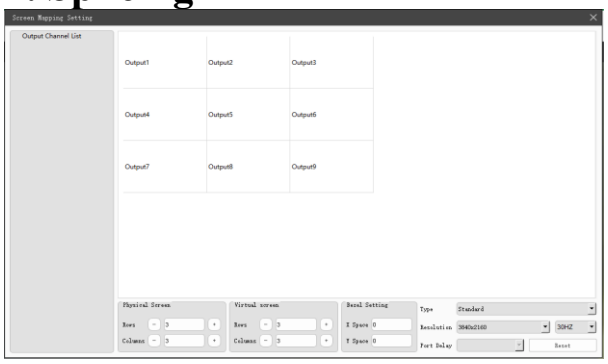
3. Output Multiview Preview

Connect to the 10th HDMI output port for multiview preview

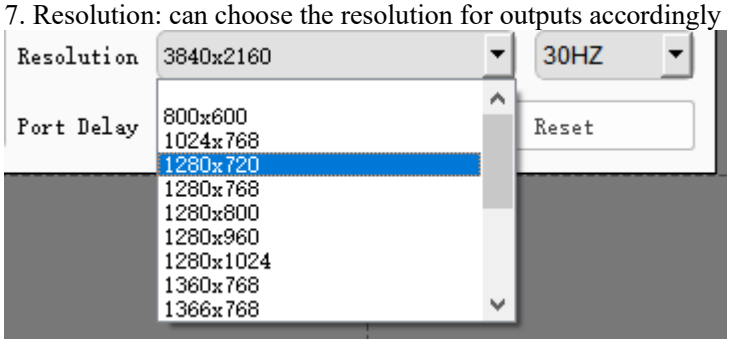
5. 3 Splice



1. Splicing

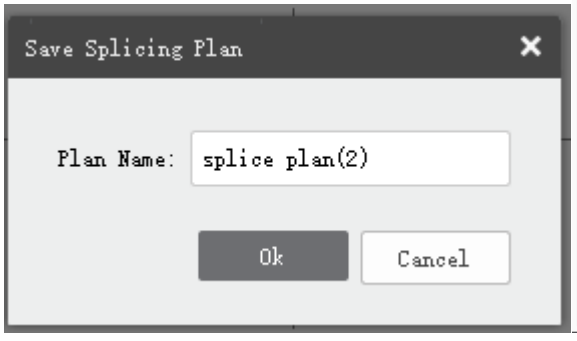


1. "Output Channel List": Lists the signal ports of an output splicing card. Output splicing signals can be dragged to the screen wall grid on the right for mapping.
2.Physical Screen: There are five screen walls. Up to 4 rows and 9 columns are supported for physical screens, depending on the number of grids on the screen walls.
3.Virtual Screen: Indicates the size of analog screen. For example, to display four 2×2 physical screens quickly on the screen wall, each screen shall be filled with four sub-screens. In this case, set Virtual Screen to 3 rows and 3 columns. The screen will be re-divided into 3×3 sub-screens and the software will use this 2×2 screen as 3×3 screen.
4. Bezel Setting: Used to set the spacing between screens.
5. Type: In LCD mode, "Screen Coordinate Position" is unavailable to set the screen resolution. You have to use output resolution to set the resolution. The selected resolution takes effect immediately in LCD mode. You have to set the output resolution after the values of rows and columns under "Physical Screen" are changed. Otherwise, the output resolution will not come
into effect. In LED mode, the output resolution is unavailable to set the resolution. You have to use "Screen Coordinate Position" to set the resolution.
6. Type: “Standard” or “Non-standard”
7. Resolution: can choose the resolution for outputs accordingly



7. Port Delay: Click the splicing grid corresponding to the screen for which port delay will apply. The port delay feature will be activated. Then, select the appropriate delay to synchronize the screen frames.

2. Plan Poll

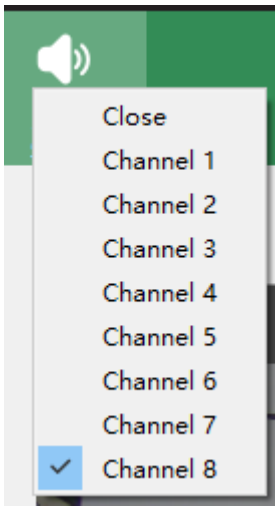


a)Activate splice plans in order as shown in the figure at specified intervals. The display time of each plan is determined by the value in the rightmost column in the list. For example, the value in the rightmost column of plan 1 is 10, then plan 1 will display for only 10 seconds and then switch to Plan 2, and so on in a similar fashion. When the last plan is activated and 10 seconds have passed, you can decide when to recycle the poll according to the interval time. For example, as shown in the figure the poll interval is 0, the poll will be recycled immediately upon completion of the previous poll.
b)In Open Slideshow Mode, the poll interval and the display time of each plan will be invalidated. Then, you can switch to the next plan only by pressing the space key.
c)You can do Multiple Scheduled Polling Plan.

3. Splice Caption

(1)Screen Wall Settings
Screen wall settings: Allow you to switch to your desired screen wall. Display switch: Used to turn on/off subtitle on the current screen wall. Erase: Used to delete the subtitle of the current screen wall.
(2)Subtitle Text Settings
Content: Used to fill in subtitle contents to be displayed. Font: Used to set the font style of the subtitle.
Size: Used to set the font size of the subtitle. B (bold): Used to make the text bold.
I (italic): Used to make the text italic.
U (underline): Used to underline the text.
Upload Content: Used to upload text settings to the current screen wall. It should be noted that the text shall be set as you desire before being uploaded. For example, the text will not be displayed in bold if it is not made bold before being uploaded. As a result, properly set the text before uploading. Otherwise, you have to upload new subtitle again.
(3)Image
Image path: Allows you to upload an image to the screen wall as subtitle. It should be noted that the image shall not be oversized. Otherwise, a display error may occur. Image formats
including .bmp, .png, .jpg, .jpeg, .tga, .tiff, etc. can be supported.
(4)Display Settings
Speed: Used to set the subtitle movement speed. 0 indicates that the subtitle is motionless and 10 indicates that the subtitle moves in the highest speed.
Direction: Used to specify the subtitle movement direction. You can click the direction arrow as you need to change the subtitle movement direction.
Horizontal: Used to set the horizontal position of the subtitle on the screen wall. It should be noted that the horizontal position is invalid if the subtitle speed is not 0.
Vertical: Used to set the vertical position of the subtitle on the screen wall.
Color: Used to set font color. You can change the font color of the subtitle on the current screen wall.
BG-Color: Used to set background color. You can change the background color of the subtitle on the screen wall. There is a switch next to the selected color to display or hide background color.

4.Audio Select

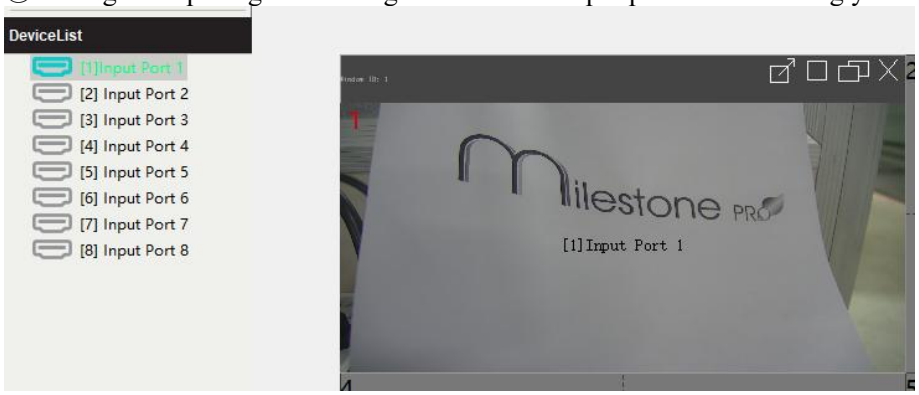


Select the input audio (8 channels) to play.

5.Quick Seamless Switch and Splice

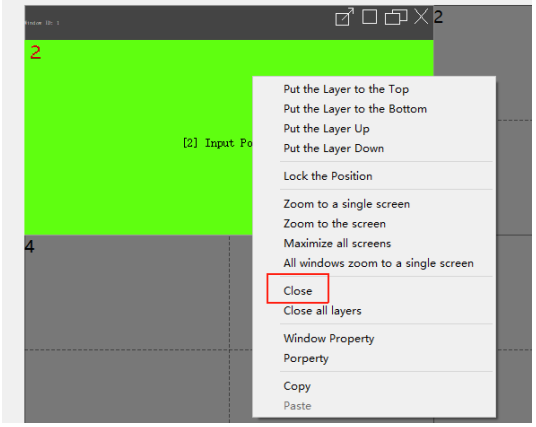
1. Quick Switch

① Drag the input signal from signal list to the output port side accordingly.



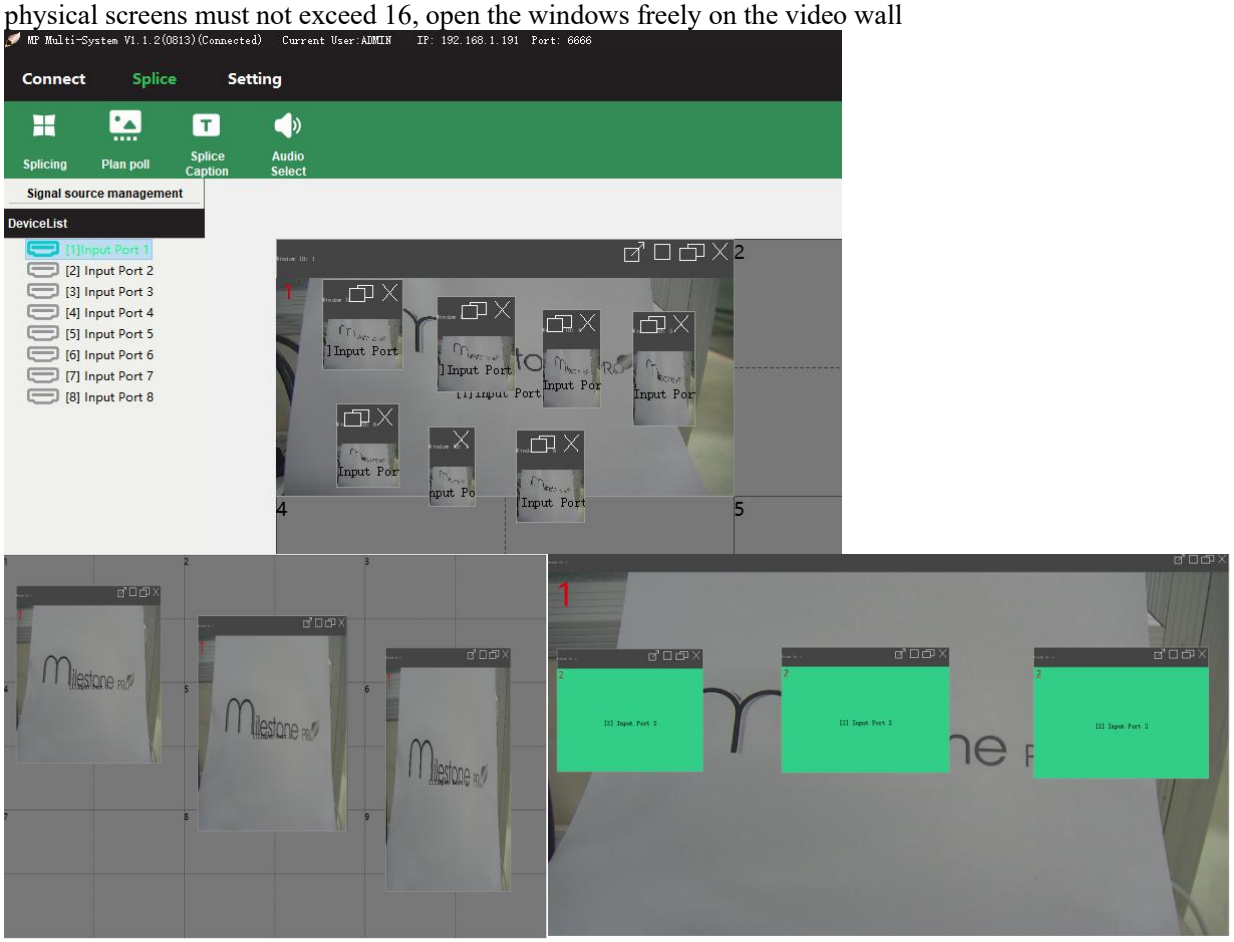
② Change the signal directly by drag other input signal to the output port.

③ Close the signal by right click of the output port,click to “close”

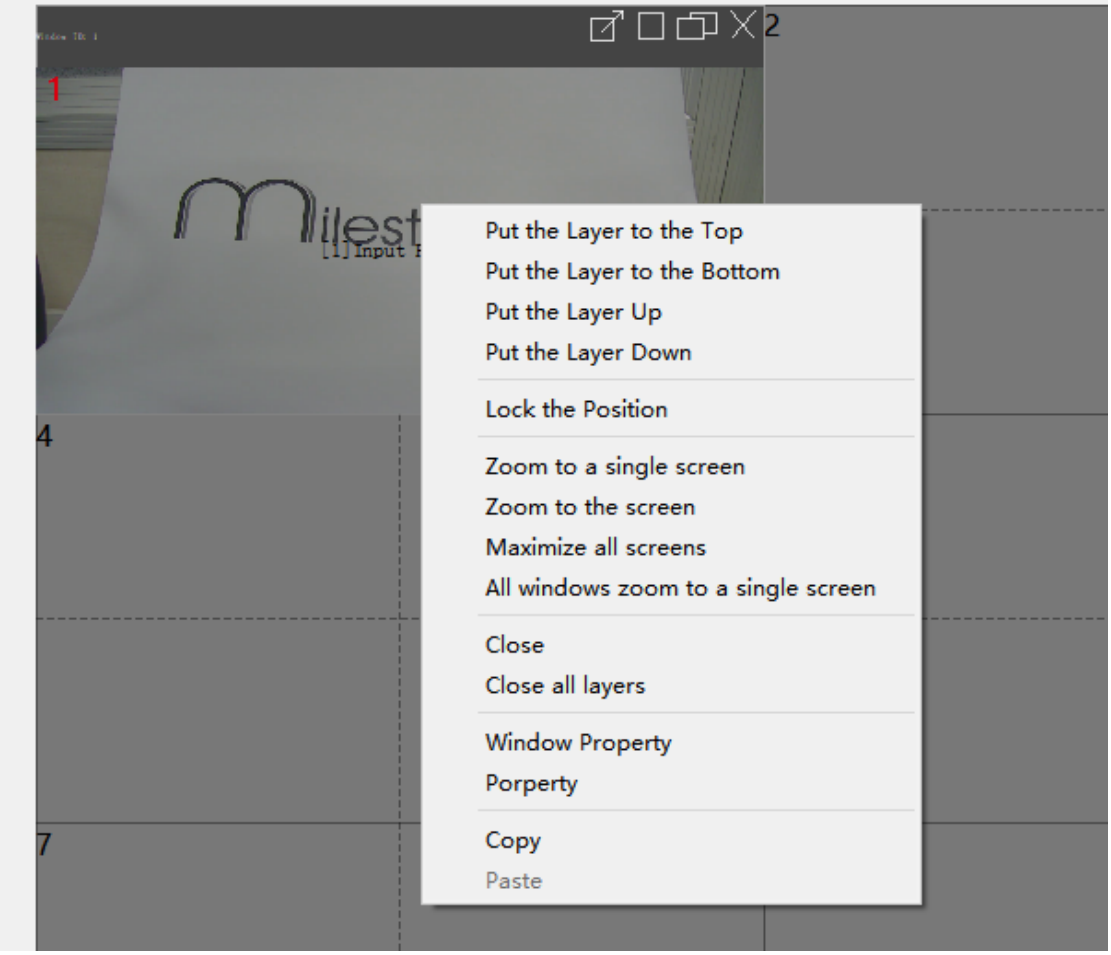


2. Fast splicing control

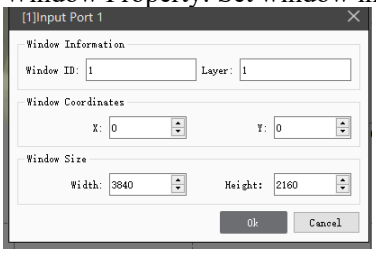
1. Can open max 8 video windows on a single physical screen;the total number of video windows across all physical screens must not exceed 16, open the windows freely on the video wall



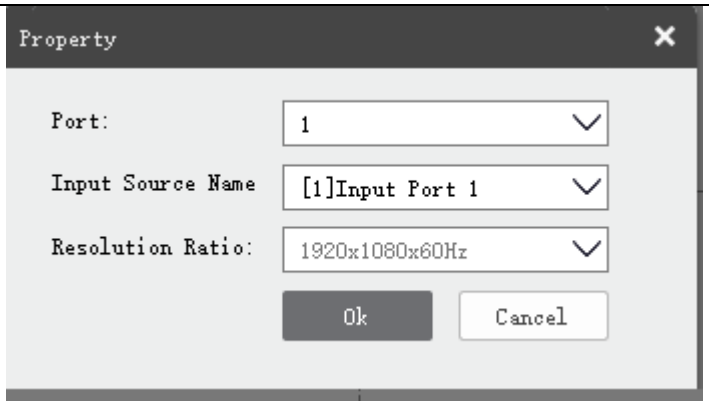
2. When there are signals in, can do the setting of



1. Put the Layer to the Top: when multi-layers,can bring specific layer to the front.
2. Put the Layer to the Bottom:when multi-layers,can bring specific layer to the back.
3. Put the Layer Up:when multi-layers,can bring specific layer up to the other layers.
4. Put the Layer Down:when multi-layers,can bring specific layer down to the other layers.
5. Lock the Position: Lock the specific layer position
6. Zoom to a single screen: zoom the specific layer to the single screen
7. Zoom to the screen:zoom the specific layer to whole video wall.
8. Maximize all screens: Maximine all layers to the whole video wall.
9. All windows zoom to a single screen: Minimize the layer to specific single screen.
10. Close: Close the specific layer
11. Close all layers
12. Window Property: Set window information

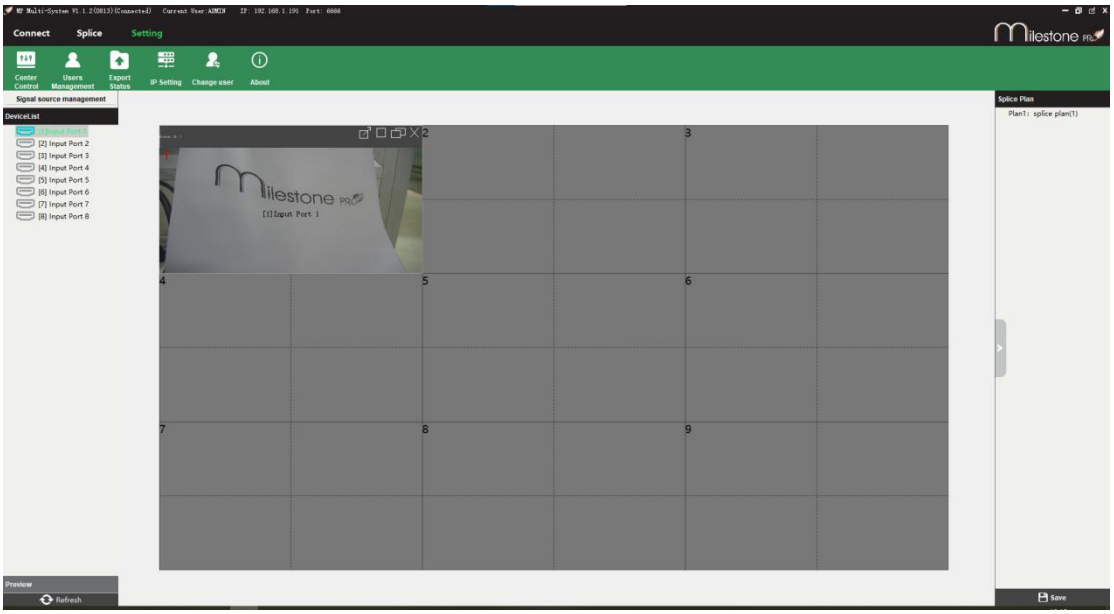


13. Property: check the layer input source.

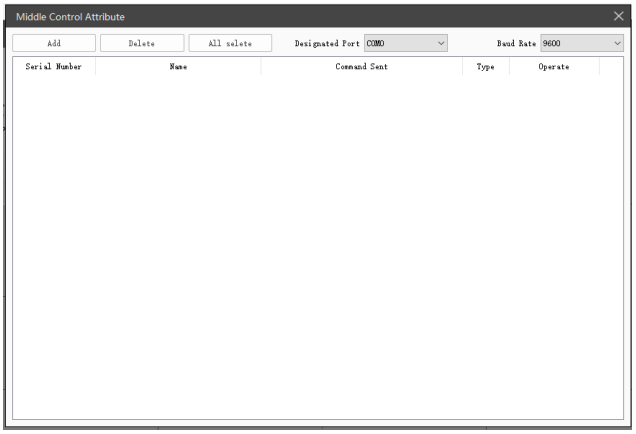


14. Copy: copy the input source
15. Paste: open the window for same input source

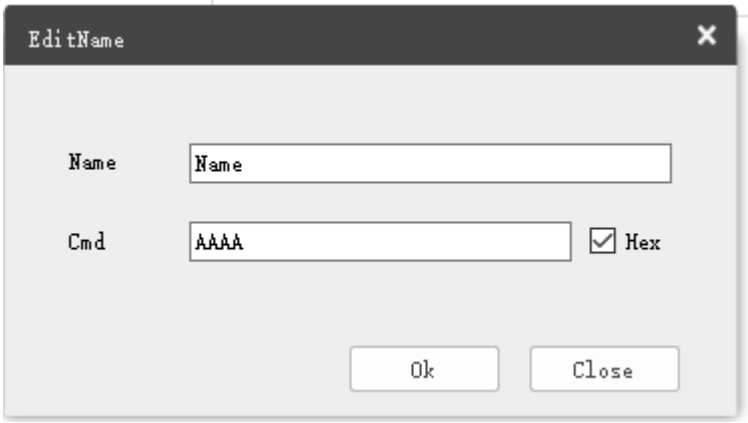
5.6 Setting



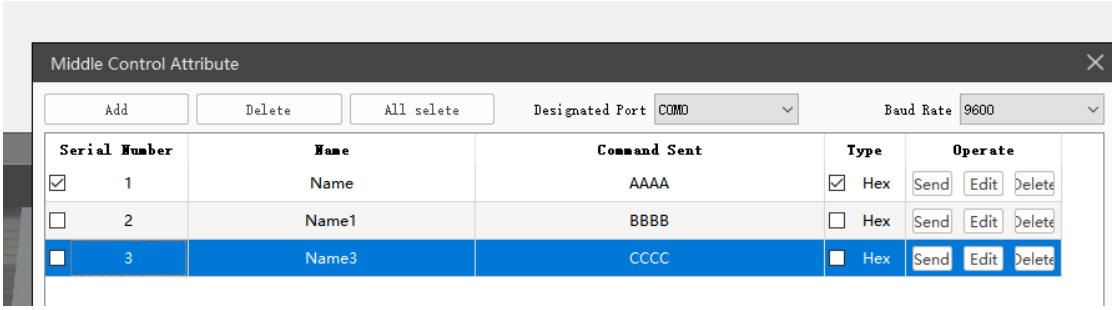
1. Center Control



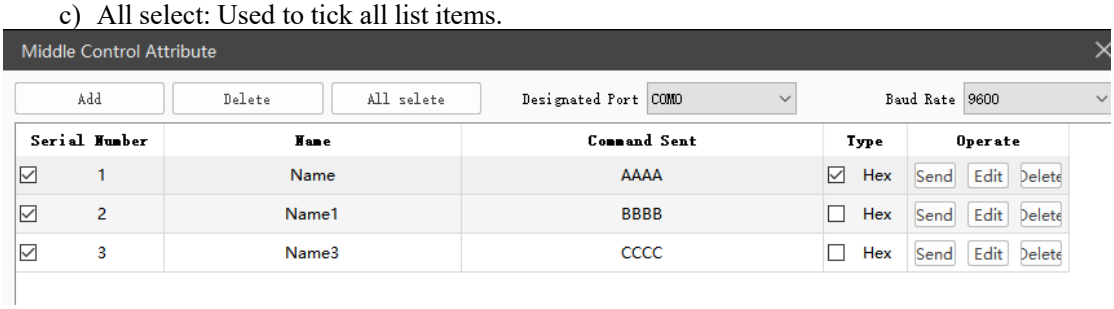
a) Add: Used to enter name and command. Choose whether to tick the Hex box and click OK tocomplete addition.



b) Delete (not the delete action in the list): This delete action deletes only selected list items andwill not be applicable to unselected list items.

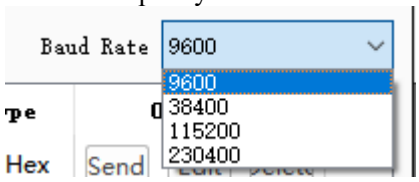


c) All select: Used to tick all list items.



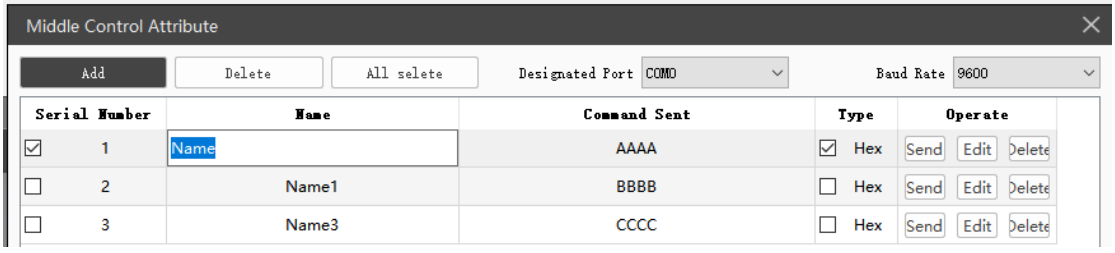
d) Designated Port: Used to designate a port for center control.

e) Baud Rate: Used to specify a baud rate at the current port for center control.

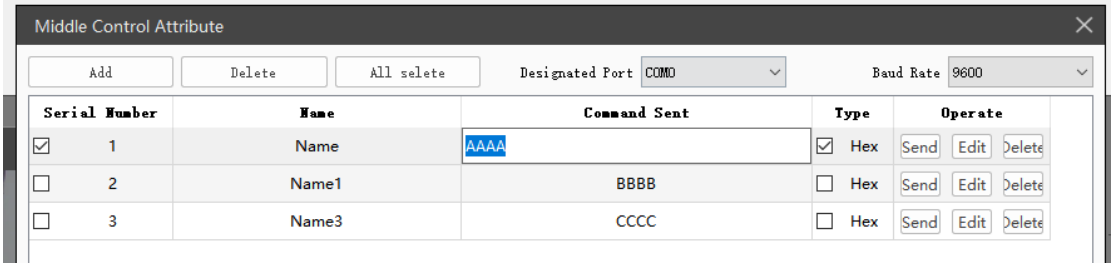


f) List items:

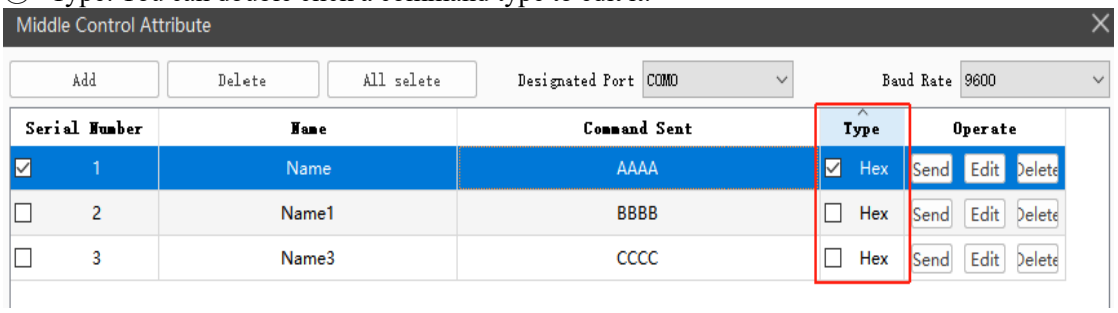
① Name: You can double click an item name to edit it.



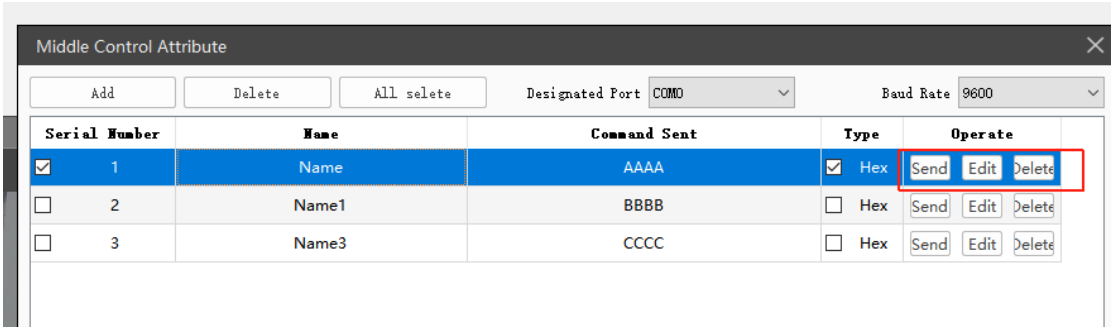
② Command Sent: You can double click the command sent to edit it



③ Type: You can double click a command type to edit it.



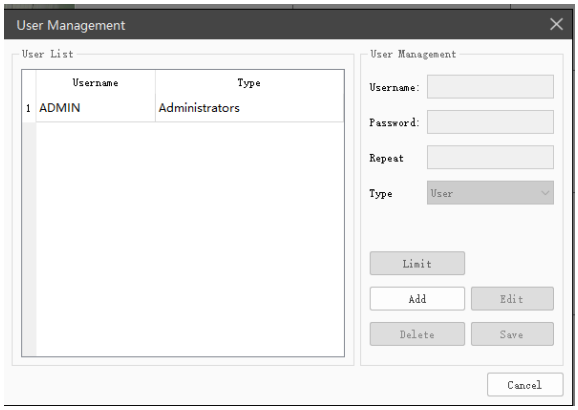
④ Action: Send, Edit, and Delete.



Send: Sends the center control command of the current item.

Edit: Edits the name, center control command, and command type of the current item. Delete: Deletes the current item. Only the current item can be deleted

2. User Management



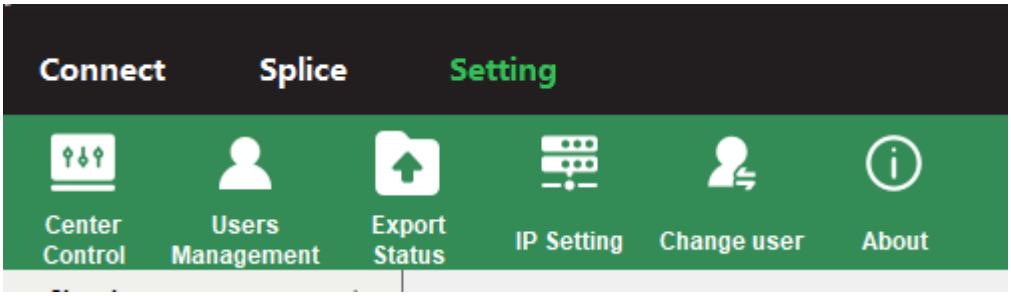
Add: You can set new username and password under User Management by clicking the Addbutton, and then click Save to save your action.

Edit: An administrator can edit all user passwords, and users with management permission can edit their own passwords.

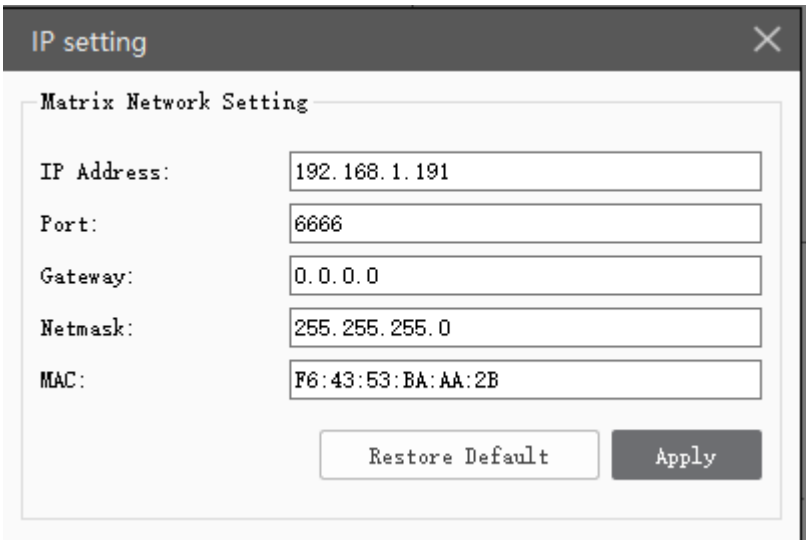
Delete: You can select a user and click Delete to delete this user.

3.Export Status

Use to export the hardware information of the connected device, such as board temperature and resolution.



4. Ip Setting

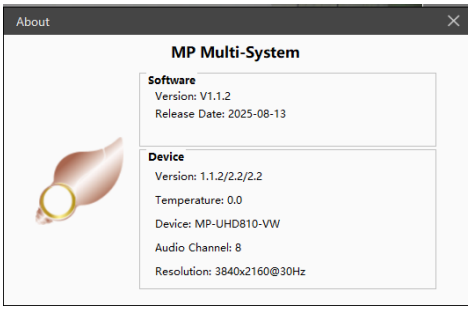


Used to set the IP address and port number, and other information of the device. Default IP address: 192.168.1.191, default port number: 6666.

5.Change User

Use to switch added users, will exit directly to the login page.

6. About



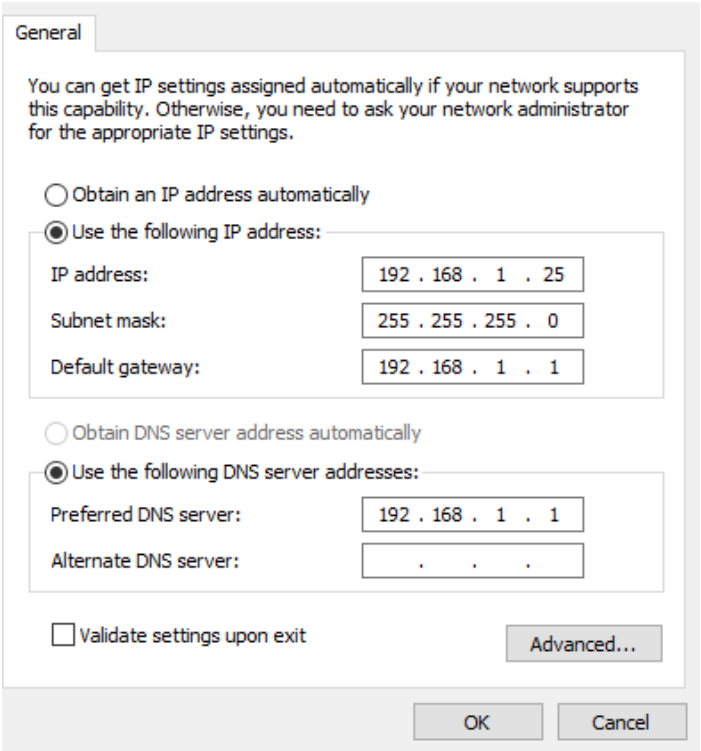
6. Web control

6.1 Connection

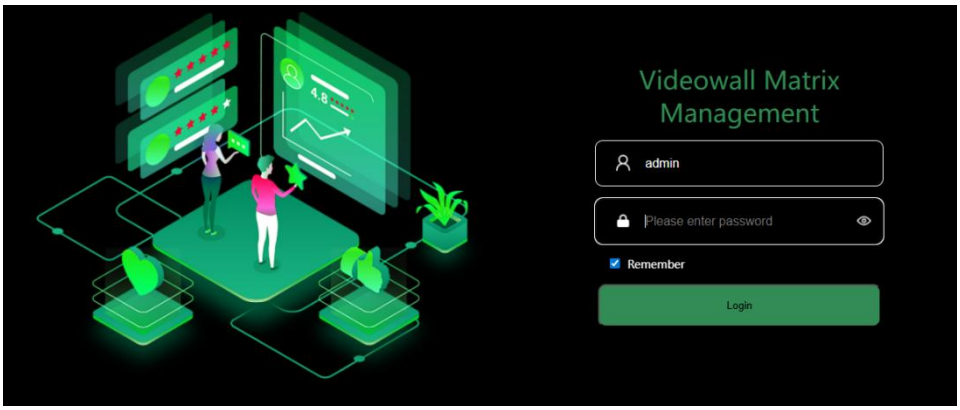
1. Can be connected to the router via CTA5 Ethernet cable for TCP/IP communication.

The matrix's default IP address is 192.168.1.191. Please configure the connected router to be in the same network segment.

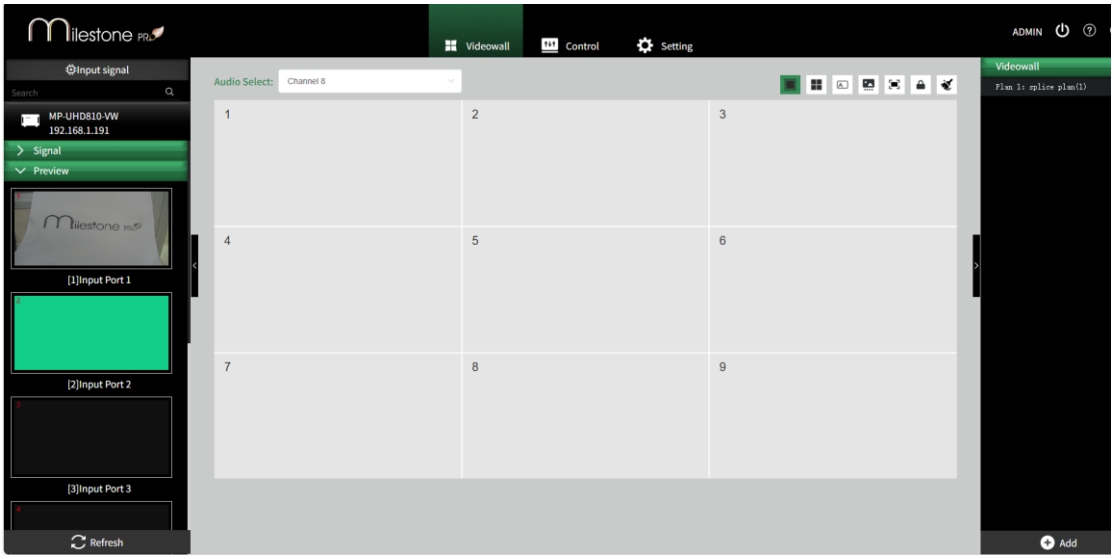
2. If controlling from the PC, please set the following IP.



3. Open the mobile or PC browser and enter the matrix IP: 192.168.1.191 to directly access the control interface.
4. Password:admin123

5. 

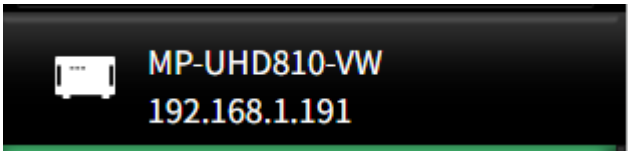
6.2 Videowall



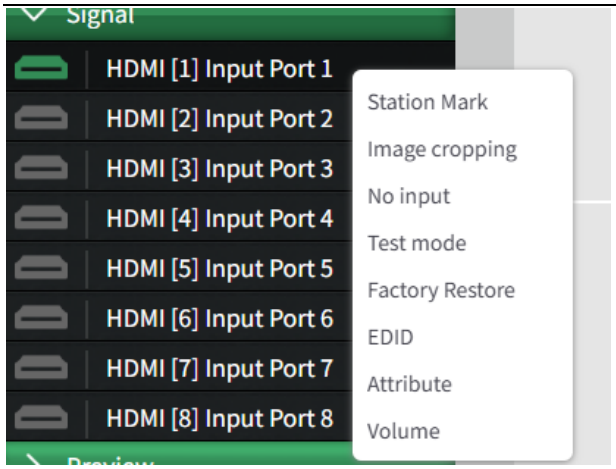
1. Input Signal

A. Search：search the signal

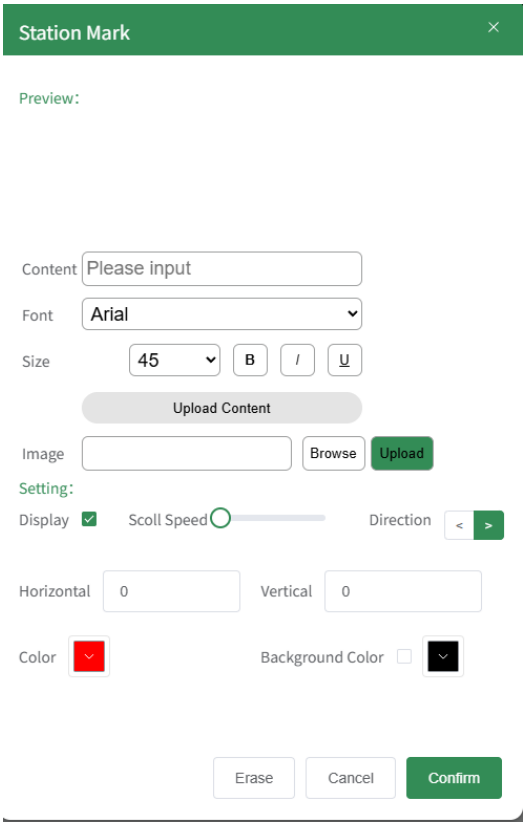
B. Product Model



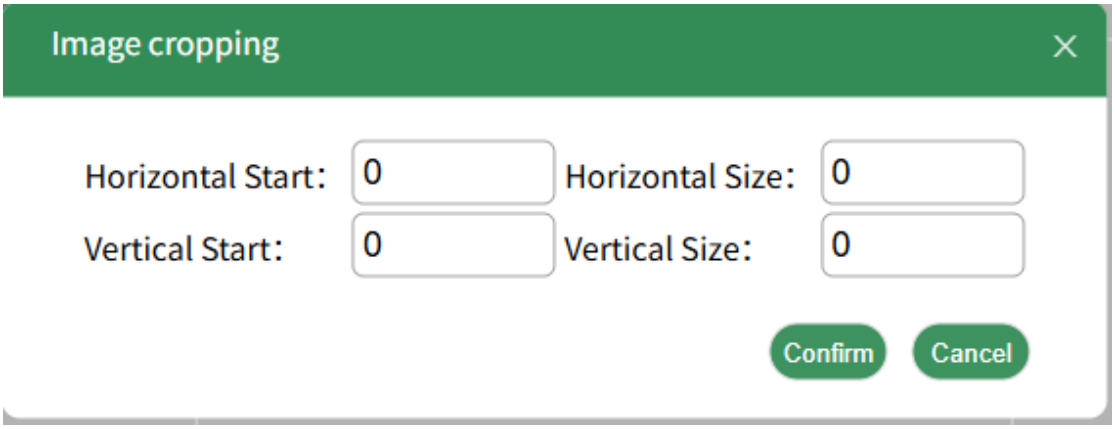
C. Signal



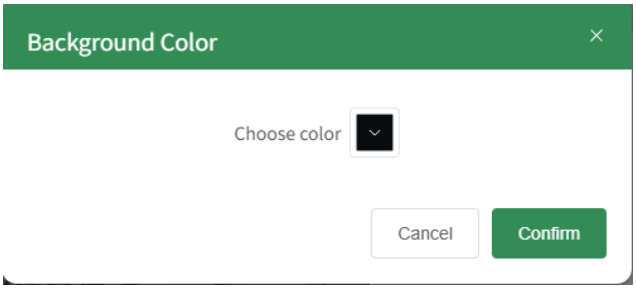
a). Station mark



b). Image Cropping



c). No Input

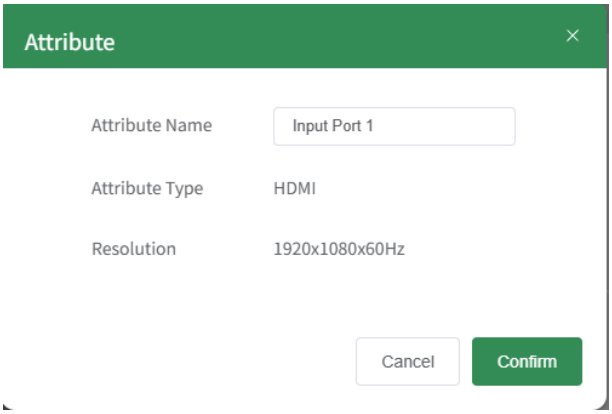


d).Test Mode

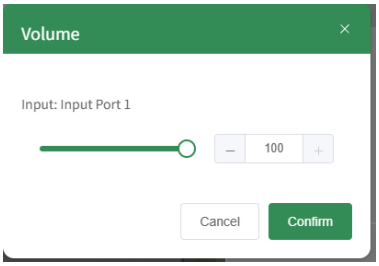
e). Factory Restore

f). EDID

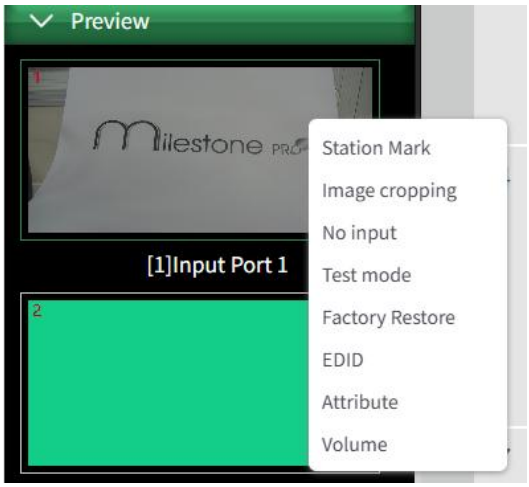
g).Attribute：you can change the input port name and check the type and resolution.



h).Volume



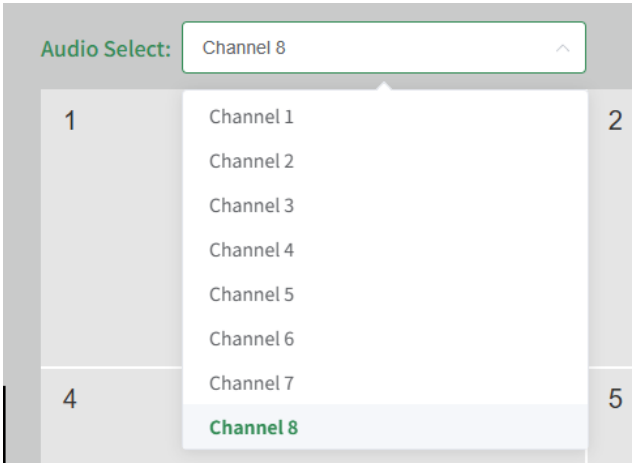
D. Preview



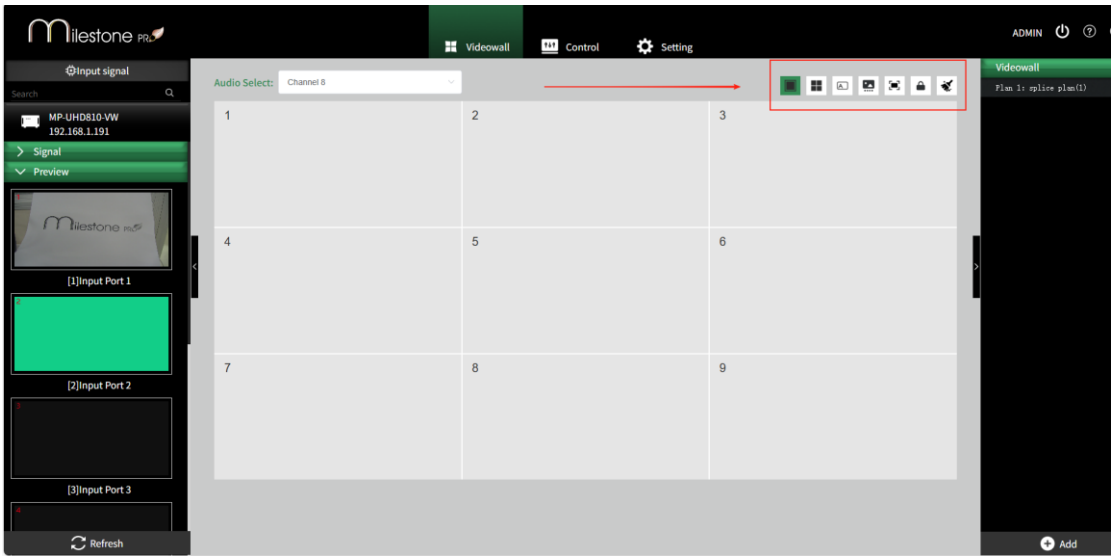
Can do the same setting in the preview side same as input signal.

E. Refresh

F. Audio Select: choose the audio out



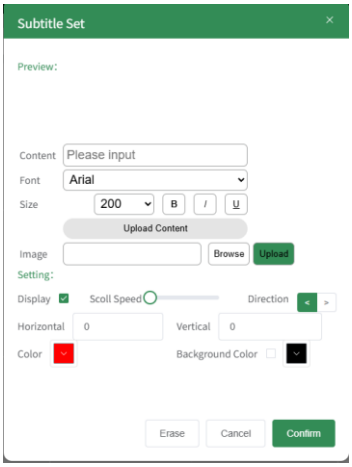
G. Shortcut Key



a). Single Split

b). Quad Split

c). Subtitle Set



Content: Used to fill in subtitle contents to be displayed.

Font: Used to set the font style of the subtitle.

Size: Used to set the font size of the subtitle. B (bold): Used to make the text bold.

I (italic): Used to make the text italic.

U (underline): Used to underline the text.

Upload Content: Used to upload text settings to the current screen wall. It should be noted that the text shall be set as you desire before being uploaded. For example, the text will not be displayed in bold if it is not made bold before being uploaded. As a result, properly set the text before uploading. Otherwise, you have to upload new subtitle again.

Image: Allows you to upload an image to the screen wall as subtitle. It should be noted that the image shall not be oversized. Otherwise, a display error may occur. Image formats including .bmp, .png, .jpg, .jpeg, .tga, .tiff, etc. can be supported.

Display Settings

Speed: Used to set the subtitle movement speed. 0 indicates that the subtitle is motionless and 10 indicates that the subtitle moves in the highest speed.

Direction: Used to specify the subtitle movement direction. You can click the direction arrow as you need to change the subtitle movement direction.

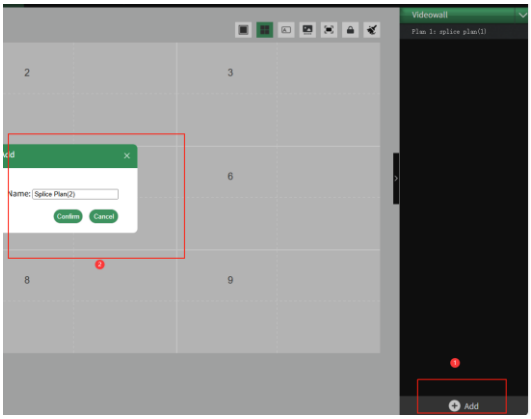
Horizontal: Used to set the horizontal position of the subtitle on the screen wall. It should be noted that the horizontal position is invalid if the subtitle speed is not 0.

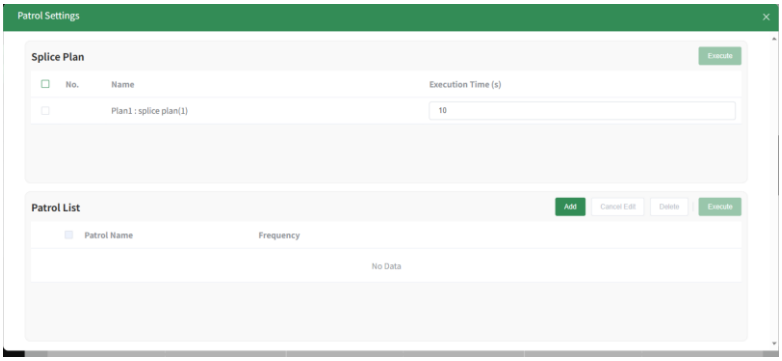
Vertical: Used to set the vertical position of the subtitle on the screen wall.

Color: Used to set font color. You can change the font color of the subtitle on the current screen wall.

Background Color: Used to set background color. You can change the background color of the subtitle on the screen wall. There is a switch next to the selected color to display or hide background color.

d). Plan Poll : Patrol Setting



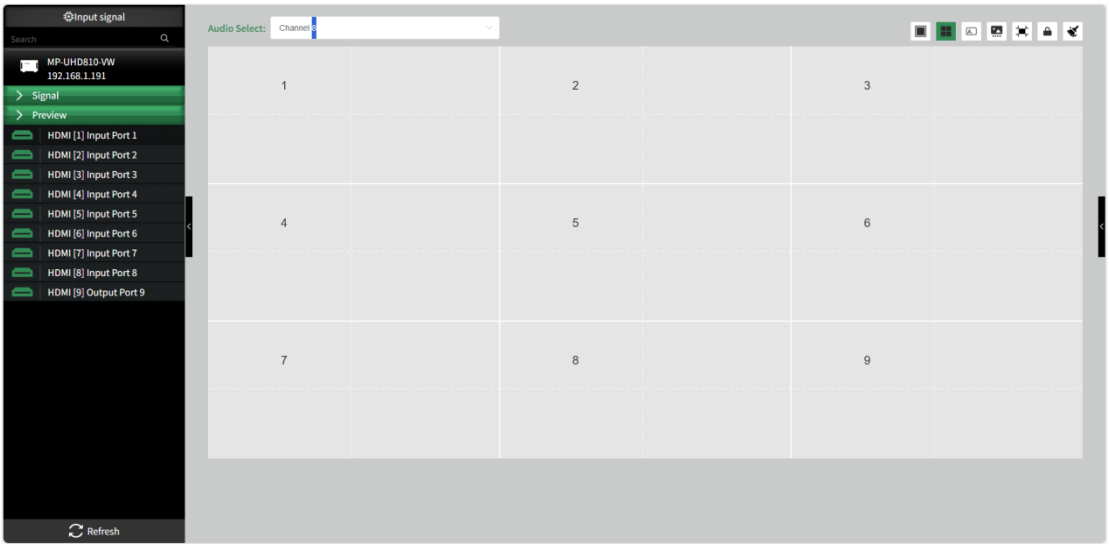


1)Activate splice plans in order as shown in the figure at specified intervals. The display time of each plan is determined by the value in the rightmost column in the list. For example, the value in the rightmost column of plan 1 is 10, then plan 1 will display for only 10 seconds and then switch to Plan 2, and so on in a similar fashion. When the last plan is activated and 10 seconds have passed, you can decide when to recycle the poll according to the interval time. For example, as shown in the figure the poll interval is 0, the poll will be recycled immediately upon completion of the previous poll.

2)In Open Slideshow Mode, the poll interval and the display time of each plan will be invalidated. Then, you can switch to the next plan only by pressing the space key.

3)You can do Multiple Scheduled Polling Plan.

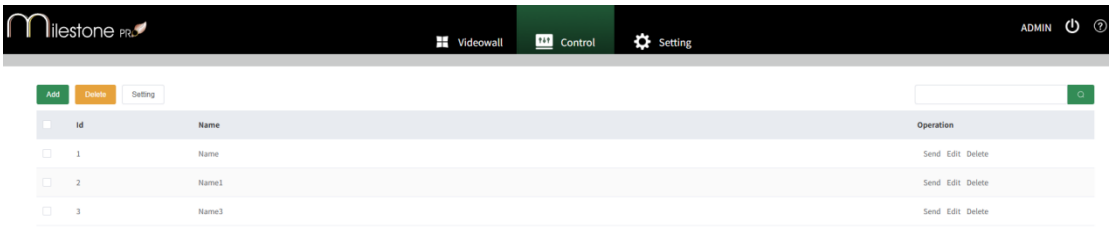
e) Full Screen/Exit Full Screen: Maximize the screen for operation



f). Lock: lock all layers Position

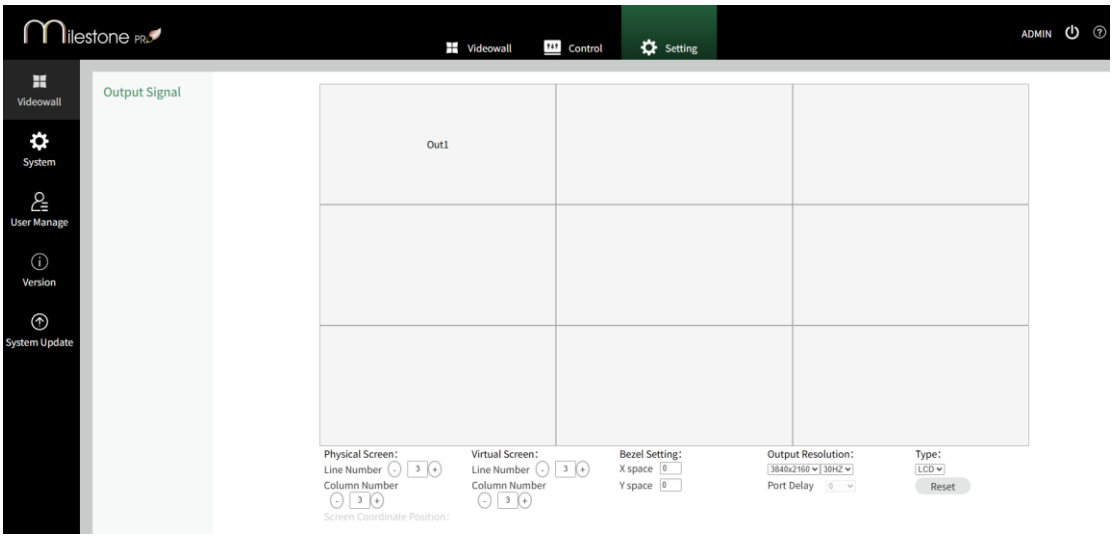
g). Disable all windows

6.3 Control

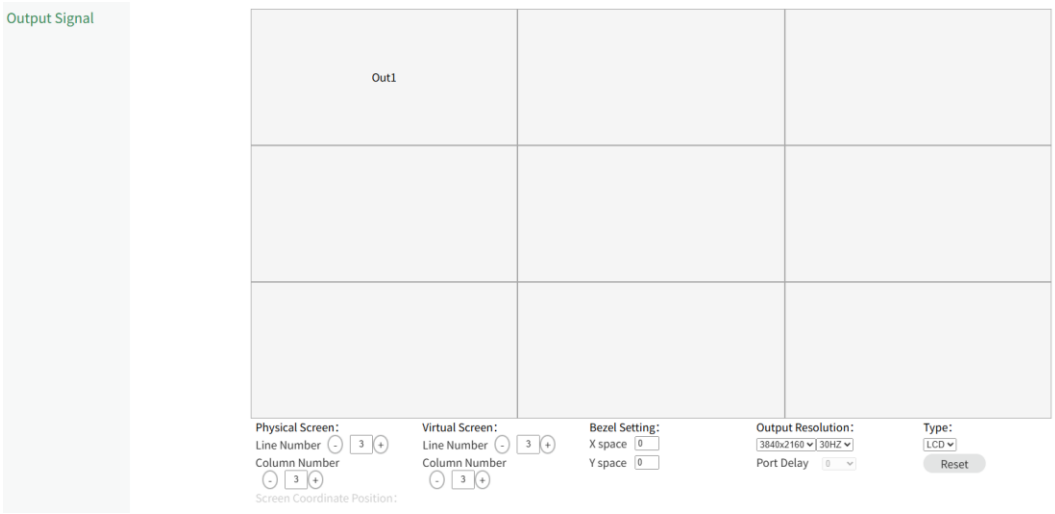


① About: Quickly switch to the version viewing interface.

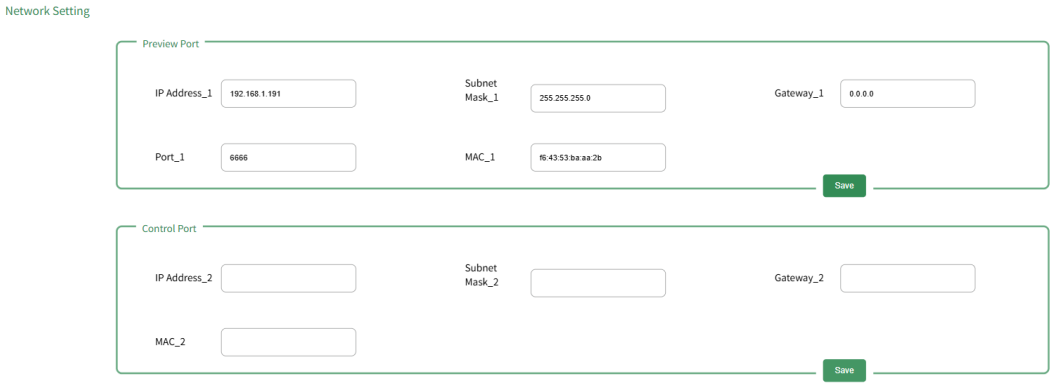
6.4 Setting



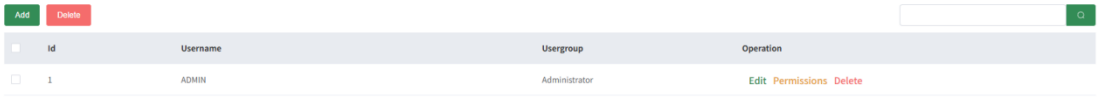
1. Output Signal-Video Wall



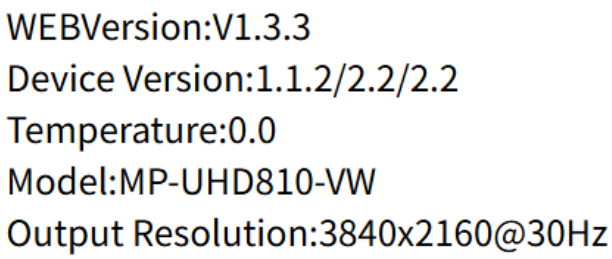
2. System



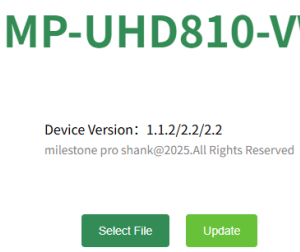
3. User Manage



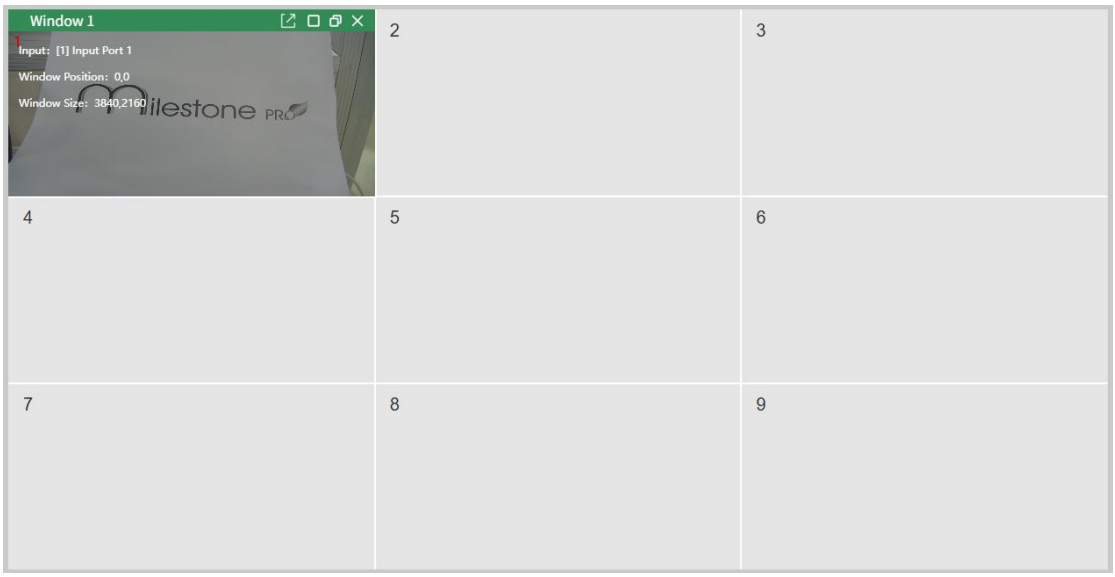
4. Version



5. System Update

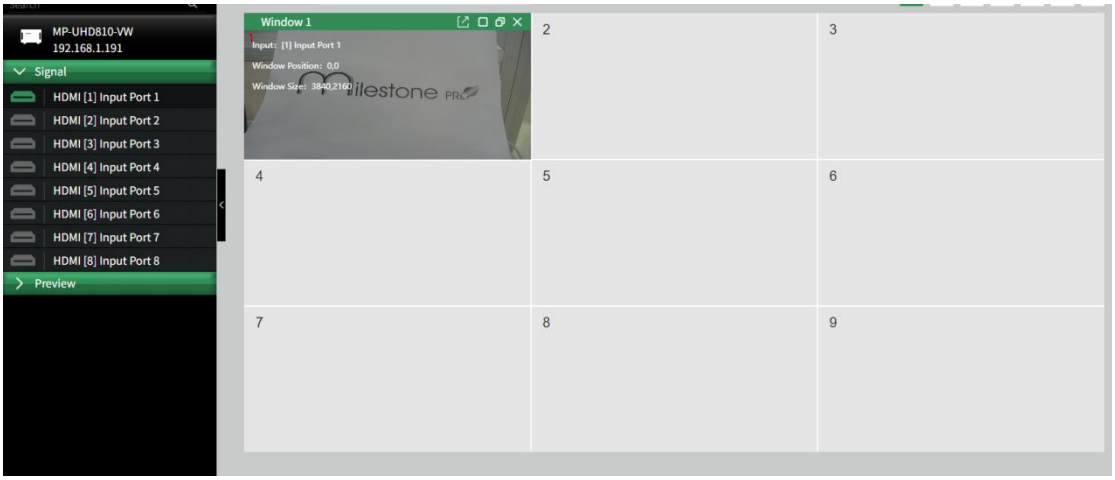


7. Quick Switch and Splicing

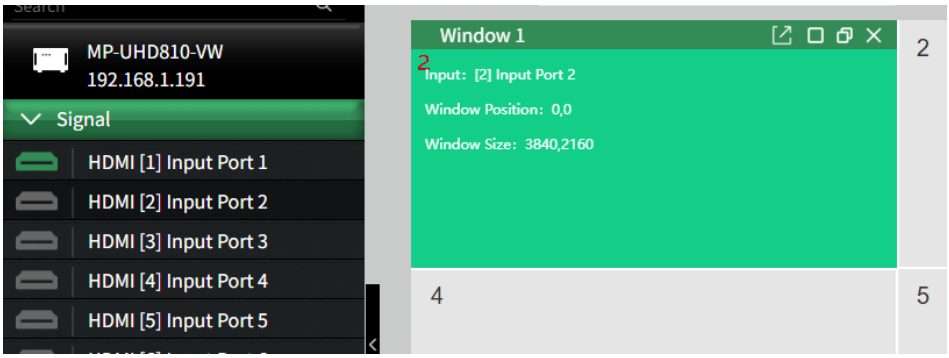


1. Quick Switch

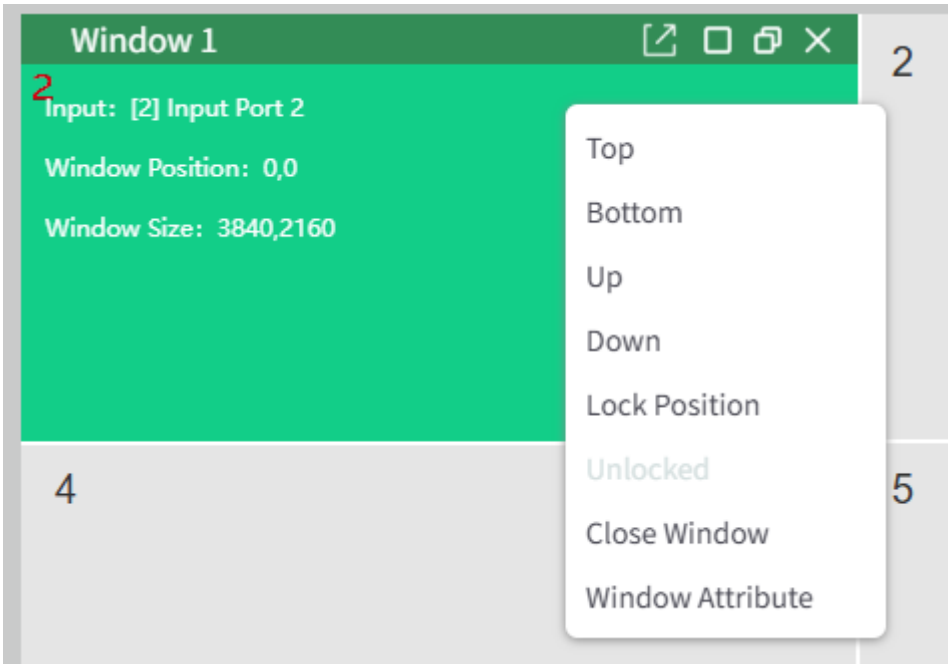
① Drag the input signal from signal list or from preview list to the output port side accordingly.



② Change the signal directly by drag other input signal to the output port.

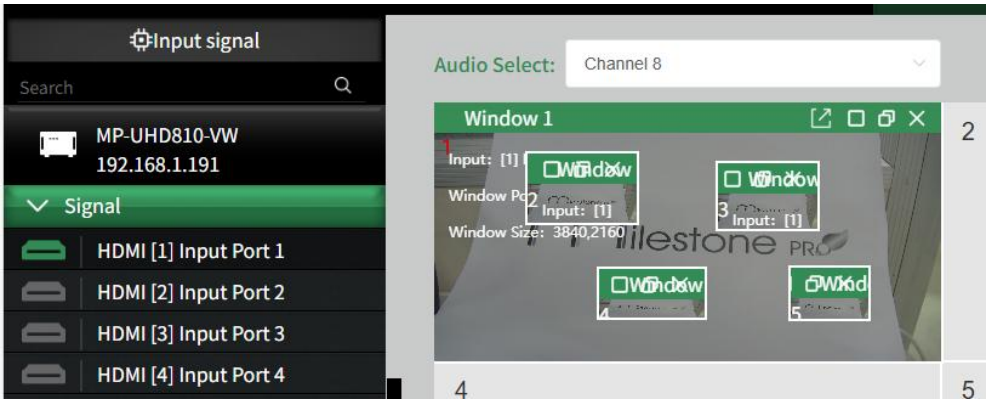


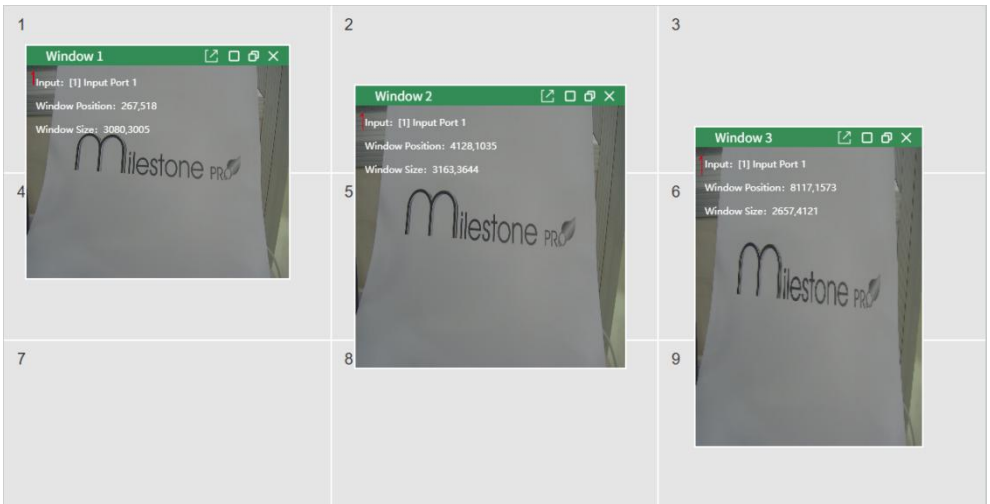
③ Close the signal by right click of the output port,click to “close window”



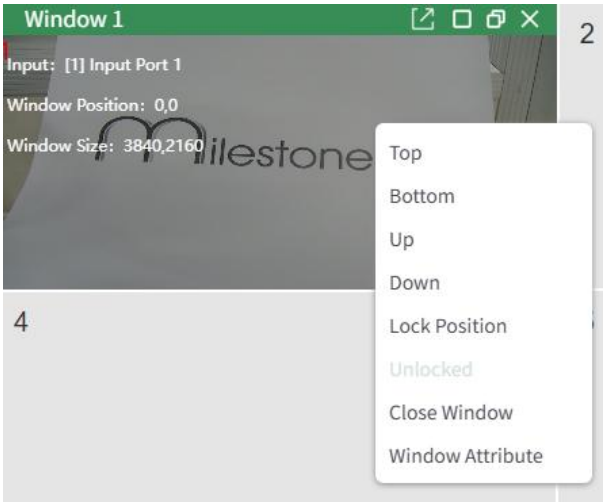
2. Fast splicing control

1. Can open max 8 video windows on a single physical screen;the total number of video windows across all physical screens must not exceed 16, open the windows freely on the video wall

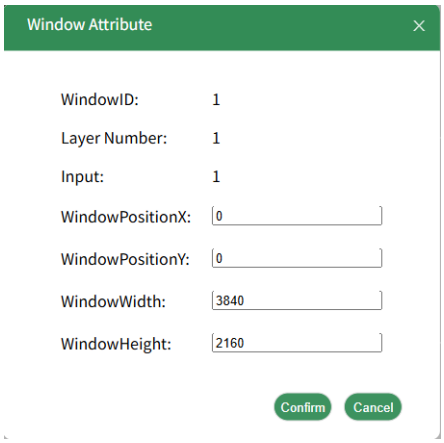




2. When there are signals in, can do the setting of



1. Top: when multi-layers,can bring specific layer to the front.
2. Bottom:when multi-layers,can bring specific layer to the back.
3. Up:when multi-layers,can bring specific layer up to the other layers.
4. Down:when multi-layers,can bring specific layer down to the other layers.
5. Lock Position/Unlock: Lock the specific layer position
6. Close Window
7. Window Attribute



8. Front Panel Button Operations Guide

8.1 Matrix switching

Example 1: To switch the matrix from "Input 1" to "Output 2", follow these button operations:

Press sequentially.	Display Screen Printing	Comments
1	1	Select "Input 1"
V/M	1V	Press once for the matrix switch symbol "V."
2	1V2	Select "Output 2"
ENTER	Switch OK !	Switching complete

Example 2: To switch the matrix from "Input 1" to both "Output 2" and "Output 3," follow these button operations:

Press sequentially	Display Screen Printing	Comments
1	1	Select "Input 1"
V/M	1V	Press once for the matrix switch symbol "V."
2	1V2	Select "Output 2"
,	1V2,	Delimiter
3	1V2,3	Select "Input 3"
ENTER	Switch OK !	Switching complete

Example 3: To switch the matrix from "Input 1" to "All Outputs," follow these button operations:

Press sequentially	Display Screen Printing	Comments
1	1	Select "Input 1"
All	1All	Switching complete

8.2 Save Switching and State Invocation

1. Save the current matrix switching state, with a maximum of 10 states, corresponding to keys 0-9. To save the current matrix switching state, the key operation is:

Press sequentially	Display Screen Printing	Comments
SAVE	Save Switch Plan	
2	Save Switch Switch OK !	Saved to "State 2" successfully

2. Call the matrix switching state
Invoke the saved matrix state, the key operation is:

Press sequentially	Display Screen Printing	Comments
RECALL	Recall Switch Plan	
2	Recall Switch Switch OK !	State 2" successfully invoked

3. Save the current concatenation mode switching state.
Save the current matrix switching state; the key operation is:

Press sequentially	Display Screen Printing	Comments
SAVE	Save Switch Plan	Press once to save the seamless output card state.
SAVE	Save PJ Wall: Plan:	Pressing again saves the Splicing mode state.
1	Save PJ Wall: 1 Plan:	Select " Splicing wall 1
1	Switch OK !	Select to save it in "Plan 1."

	Wall: 1 Plan:1	

4. Invoke the concatenation mode switching state.

Invoke the saved matrix state; the key operation is:

Press sequentially	Display Screen Printing	Comments
RECALL	Recall Switch Plan	Press once to invoke the seamless output card state.
RECALL	Recall PJ Wall: Plan:	Pressing again invokes the Splicing mode state.
1	Recall PJ Wall:1 Plan:	Select the invoked " Splicing Wall 1.
1	Switch OK！ Wall: 1 Plan:1	Select the invoked "Plan 1.

8.3 Inquiry and Settings

Inquire Network Parameters

Press sequentially	Display Screen Printing	Comments
MENU	IP SETTING 192.168.001.188	Display IP Address
MENU	GATEWAY SET 192.168.001.001	Display Gateway
MENU	Subnet Mask SET 255.255.255.000	Display Subnet Mask
MENU	PORT SETTING 80	Display Port Number

Modify Network Parameters

Example of Changing IP Address, modifying the original IP address from 192.168.001.188 to 192.168.001.180, the button operations are as follows:

Press sequentially.	Display Screen Printing	Comments
IP	IP SETTING 192.168.001.188	Display IP Address
◀		Enter modification; the cursor for editing will appear
◀ or ▶		Move the cursor to the desired modification position.
0		Input the desired modification value
ENTER	Set Succeed!	Setting Successful

Modify the port number, gateway, and subnet mask using the same steps as before. Press "IP" to enter the relevant interface, then navigate and modify as needed.

NOTE: Modifying network parameters requires a restart for the changes to take effect.

9. Common Faults and Solutions

Symptoms of Malfunctions	Solutions
Matrix Unable to Switch	● Check command accuracy
	● If there's no response, verify the device wiring.
	● Ensure the device is receiving proper power.
Matrix Output Without Image	● Verify the proper functioning of the device's respective ports and firmware version through command transmission or PC web inspection.
	● Check for input signals entering the matrix. Use matrix output or PC web switching to observe; 'No Input' will be displayed when there's no signal input.
	● The matrix generates a black signal automatically when there's no input source. Confirm if the display detects this signal.
	● If everything is normal but no signal is detected, check if the display device works by connecting a signal directly. Ensure the display supports the matrix's current output resolution; if not, adjust the matrix's output resolution. Alternatively, test the matrix by connecting it directly to a display.