VZ-PRO-ST SERIES

VIDEO WALL CONTROLLER SETUP & OPERATION

USER MANUAL

ViewZ PRO Series

ViewZ®
www.viewzusa.com

Please read this manual thoroughly before use, and keep it handy for future reference.

CONTENTS

SAFETY INSTRUCTION

Important Safety Instruction

1. Read all warnings and manuals before operation.
2. Follow all instructions to ensure longevity of product.
3. Do not place the VZ-PRO Controller near water.
4. Clean only with non-static electronic dry cloth.
5. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
6. Do not install near any heat sources such as radiators, heat registers, stoves, or other heat generating devices.
7. Do not override the safety purpose of the polarized or grounding-type plug.
8. A polarized plug has two blades with one wider than the other.
9. A grounding type plug has two blades and a third grounding prong.
10. The wide blade and the third prong are provided for your safety.
11. If the provided plug does not fit into your outlet, consult with electrician for replacement of the outlet.
12. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where it connects to the monitor.
13. Only use attachment/accessories specified by the manufacturer.
14. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the monitor. When a cart is used, use caution when moving the cart & monitor in combination to avoid injuries.
15. Unplug the VZ-PRO Controller during lightning storms or when unused for long periods of time.
16. Refer all servicing to qualified service personnel. Servicing is required when the VZ-PRO Controller has been damaged in any way.

The monitor shall not be exposed to dripping or splashing and objects containing liquids, such as vases shall not be placed near the monitor.

The VZ-PRO Controller should be installed with enough distance (e.g. 10cm) from the wall for sufficient ventilation.

SAFETY INSTRUCTION

Important Safety Instruction

Mark Indication and Substance

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION : TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT REMOVE COVER (OR BACK). NO USER
SERVICEABLE PARTS INSIDE. REFER SERVICING TO
QUALIFIED SERVICE PERSONNEL

This symbol is intended to alert the user to the presence of uninsulated & dangerous voltage within the monitor's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the monitor.

⚠ Warning

- Do not use damaged or loose cables and plug.
- Do not pull the plug out by the wire nor touch the plug with wet hands.
- Use only a properly grounded plug and receptacle.
- Do not connect too many extension cords or plugs to one outlet.
- Do not excessively bend the plug and wire.
- Do not disconnect the power cord while it's still plugged into the monitor.
- Do not place any heavy objects on the power cord. Damage to the cord may cause shock or fire.
- Never open the monitor. There are no user-serviceable parts inside and opening will void warranty.
- Removing covers may expose you to dangerous shock hazards or other risks.
- Keep any heating devices away from the power cable and VZ-PRO Controller.
- Do not place the VZ-PRO controller near water.
- Do not insert objects of any kind into the monitor's open slots, as they may touch dangerous voltage points.
- Please follow the laws and regulations of your municipality to dispose the VZ-PRO Controller properly.
- Do not use the monitor in high temperature, humid, dusty or oily areas.
- Do not install the monitor where it will be exposed to continual vibration.
- Keep the plastic packaging out of children's reach.
- If any damage is detected upon first opening the box, contact agency from which you bought the VZ-PRO Controller directly.
- If the VZ-PRO Controller does not operate normally – in particular, if there is any unusual sound or smell coming from the VZ-PRO Controller – unplug it immediately and contact an authorized dealer or the service center.

SAFETY INSTRUCTION

Important Safety Instruction

⚠ Caution

- If the connector between the plug and the pin is dusty or dirty, clean it properly using a dry cloth.
- Make sure to unplug the power cord before cleaning the VZ-PRO Controller.
- Do not drop the VZ-PRO Controller when moving it.
- Place the VZ-PRO Controller in a location with low humidity and minimum dust.
- Do not place the monitor on an unstable or small surface area.
- Disconnect the plug from the outlet during storms or lightning or if it has not been used for a long time.
- Do not try to move the VZ-PRO Controller by pulling on the power cord.
- Do not cover the vents on the VZ-PRO controller.
- When moving the VZ-PRO Controller, turn off and unplug the power cord. Make sure that all cables, including HDMI cable and cables connected to other devices, are disconnected before moving it.
- Place the VZ-PRO Controller out of children's reach, as they could damage it by hanging onto it.

⚠ Caution - Equipment Grounding Requirements

- Make sure that the power supply and chassis of the spliced processor (here in after, referred to as the equipment) are well grounded.
- Make sure the power supply and housing of the large screen connected to the device are well grounded.
- Port damage due to the Non-grounded or improper grounded equipment, the videowall monitor (or large screen) and videowall controller will not be covered by warranty.
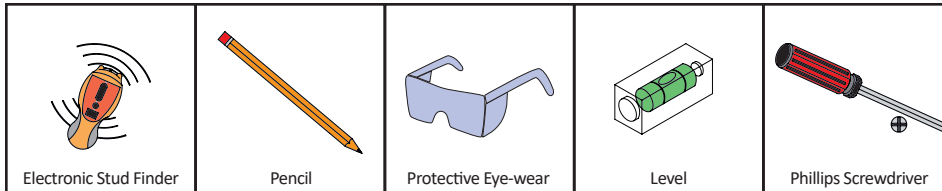
⚠ Available Temperature & Humidity

- Operating Temperature : 32°F ∼ 122°F / 0°C ∼ 50°C
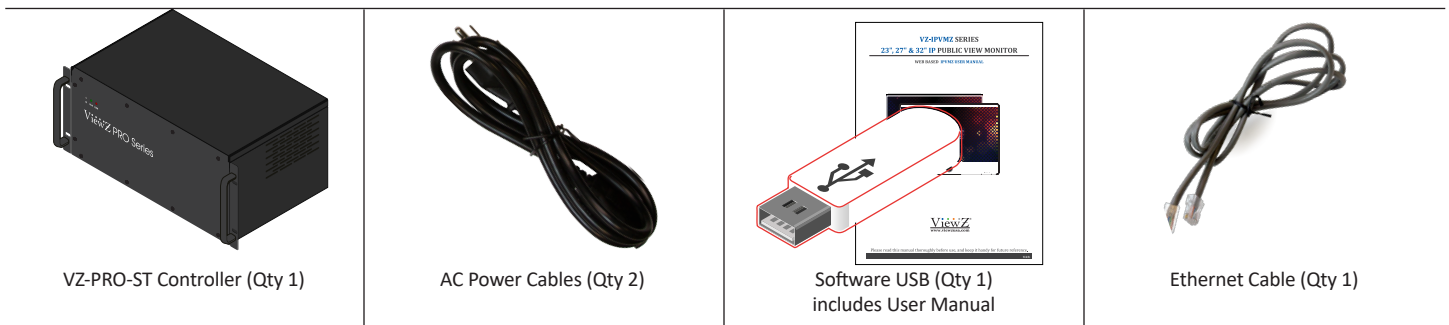- Operating Humidity : 5 ~ 95% RH

INSTALLATION

Installation Tools

The following tools may be required depending on your installation.

| Electronic Stud Finder	Pencil	Protective Eye-wear	Level	Phillips Screwdriver

Assembly Components - provided

Your ViewZ PRO series is shipped with all proper installation hardware and components. If there are parts missing and/or damaged, please stop the installation and contact ViewZ USA at (888)-998-4399.

VZ-PRO-ST Controller (Qty 1)	AC Power Cables (Qty 2)	Software USB (Qty 1) includes User Manual	Ethernet Cable (Qty 1)

SYSTEM REQUIREMENTS

Local Videowall Control PC H/W Requirement

1. Hardware Specification on local videowall control PC

2. Processor: Intel i3 4th Gen. or Higher | RAM: DDR4 8G or Higher
   HDD: SSD 128/256GB or Higher
   Network: General TCP/IP network with Gigabit LAN

3. OS Specification
   - OS: Windows 7 or later
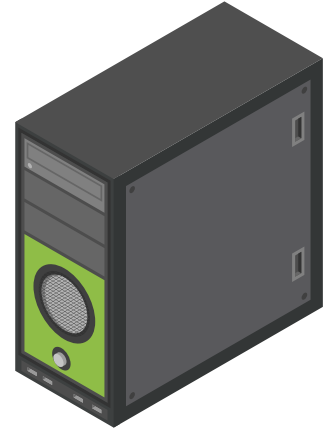
⚠ **Caution**

The media contents (images & videos) will not be saved into VZ-PRO-ST Controller.

BASIC FEATURES

VZ-PRO Architecture

1. The designed FPGA system provides stable image processing capabilities for 24/7 operation.

2. The VZ-PRO Controller adopts a modular design, which can be flexibly matched with a variety of input and output cards, which can be upgraded, expanded, and maintained;

Video Interface Signals

1. The standard VZ-PRO Controller comes with HDMI input & HDMI output cards to accept upto 1080p resolution. 4K HDMI input, DVI and IP decoder cards are also available as option. Please contact us to get more information.

BASIC FEATURES

Video Wall Functions

1. Achieve display functions of multiple signal sources on the wall, splicing, roaming, cross-screen, zoom-in, picture-in-picture, pictureout-picture, screen overlay, etc.
2. Support all signals in the full screen range to open window roaming, superimposing, zooming, no window position, size, scale restriction.
3. Support single-screen with multi-window.
4. Support special effect subtitle function, the font, color, size, scroll speed and direction of subtitles, background color, background transparency can be flexibly selected
5. Support ultra-high-resolution static pictures, pictures support multiple picture formats, support multi-window static layouts, quick and easy replacement, and make the big screen pictures more colorful
6. Support the presets (scene/layout) in advance & switching scene/layout based on the specific internval time.
7. Support multi-level user management, so each user can set different operation permissions

Other Functions

1. Intelligent fan speed adjustment function, which can automatically adjust the fan speed according to equipment configuration and temperature conditions in various areas to achieve green energy saving and environmental protection
2. Support output port mapping technology. There is no need for one-to-one correspondence between the connection cables between the VZ-PRO Controller and ViewZ videowall monitors. It is only necessary to ensure a valid connection. Port mapping settings are completed in the control software, which greatly simplifies the installation process and shortens the installation time.

CONNECT EXTERNAL EQUIPMENTS

Interface Input Ports - PRO-ST
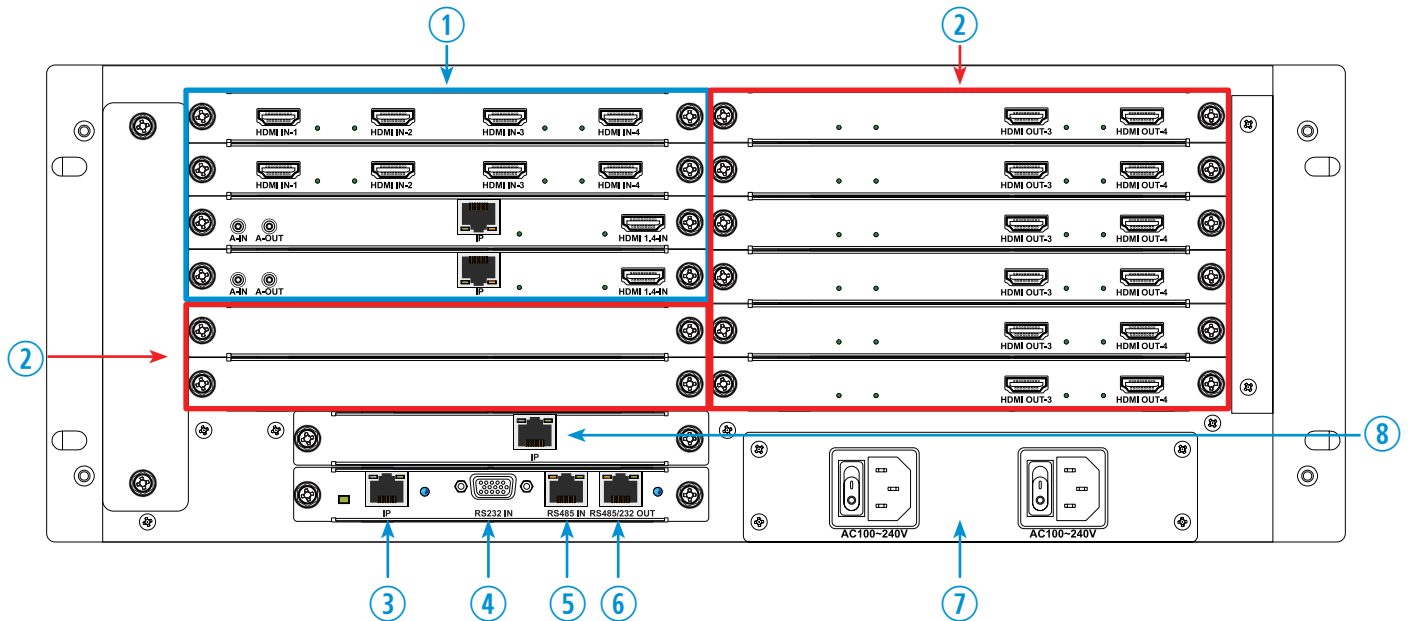
1. HDMI, IP, AUDIO IN - External Input Sources
2. HDMI OUT - Output for Videowall Monitors
3. ETHERNET 10/100 (RJ 45)
4. RS232 (RJ-45) IN - Serial Control / IR Receiver
5. RS485 (RJ-45) IN
6. RS232 (RJ-45) OUT

7. AC 100 - 240V IN x2
8. Web Control Interface (Option)
   Refer to '**VZ-PRO-ST_WebSW_UserManual**'. This is to control this unit using the WEB Browser supporting Windows, iOS or Android.

Communication Interface
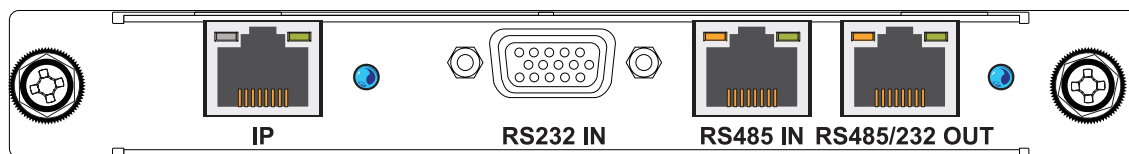
1. IP - IP network port, connect to switch/router, or directly connect to computer
2. RS 232 IN - RS232 port, connect to the computer serial port
3. RS 485 IN - Optional, reserved RS485 input control
4. RS 232 OUT / RS 485 OUT - Optional, RS232 loop out, control large screen, RS485 loop out port(reserved)
   The video wall controller default IP: 192.168.0.128, ports: 5000, 5100, 5200, 5300;
   The video wall controller default serial port (RS232), special rate: 115200bps;

The splicing processor default serial port (RS232), special rate: 115200bps; RJ45 line sequence of RS232 OUT

2	3	5
TX	RX	GND

CONNECT EXTERNAL EQUIPMENTS

Available Input Cards (Optional)

P/N	INTERFACE	PORT	MAX RESOLUTION / SUPPORTED FRAME RATE
VZ-H2K-IN4-60	HDMI	4	1920x1080p@ 60
VZ-H4K-IN1	HDMI	1	3840x2160p@ 30
VZ-D2K-IN4-60	DVI	4	1920x1080p@ 60
VZ-V2K-IN4-60	VGA	4	1920x1080p@ 60
VZ-S2K-IN4-60	SDI	4	1920x1080p@ 60
VZ-IP-IN1	RJ45	1	H.264/MPEG4, IP decoder for 1080p @30 upto 8 ch

Available Output Cards (Optional)

P/N	INTERFACE	PORT	MAX RESOLUTION / SUPPORTED FRAME RATE
VZ-H2K-OUT2-60	HDMI	2	1920x1080p@ 60
VZ-D2K-OUT2-60	DVI	2	1920x1080p@ 60

Power On - Connect All Cables

1. Connect a power from the Controller to the AC outlet.
2. Connect all of input source cables to the Controller.
3. Connect all of output cables to the videowall monitors.
4. Turn on the power of Controller.

SYSTEM DIAGRAM

Connection Diagram

Basic Concept

• VZ-PRO-ST can get external input sources and display on the videowall. ViewZ's control software (DIMS-Client) provides lots of function to control the videowall.

Main Video Wall

External Input
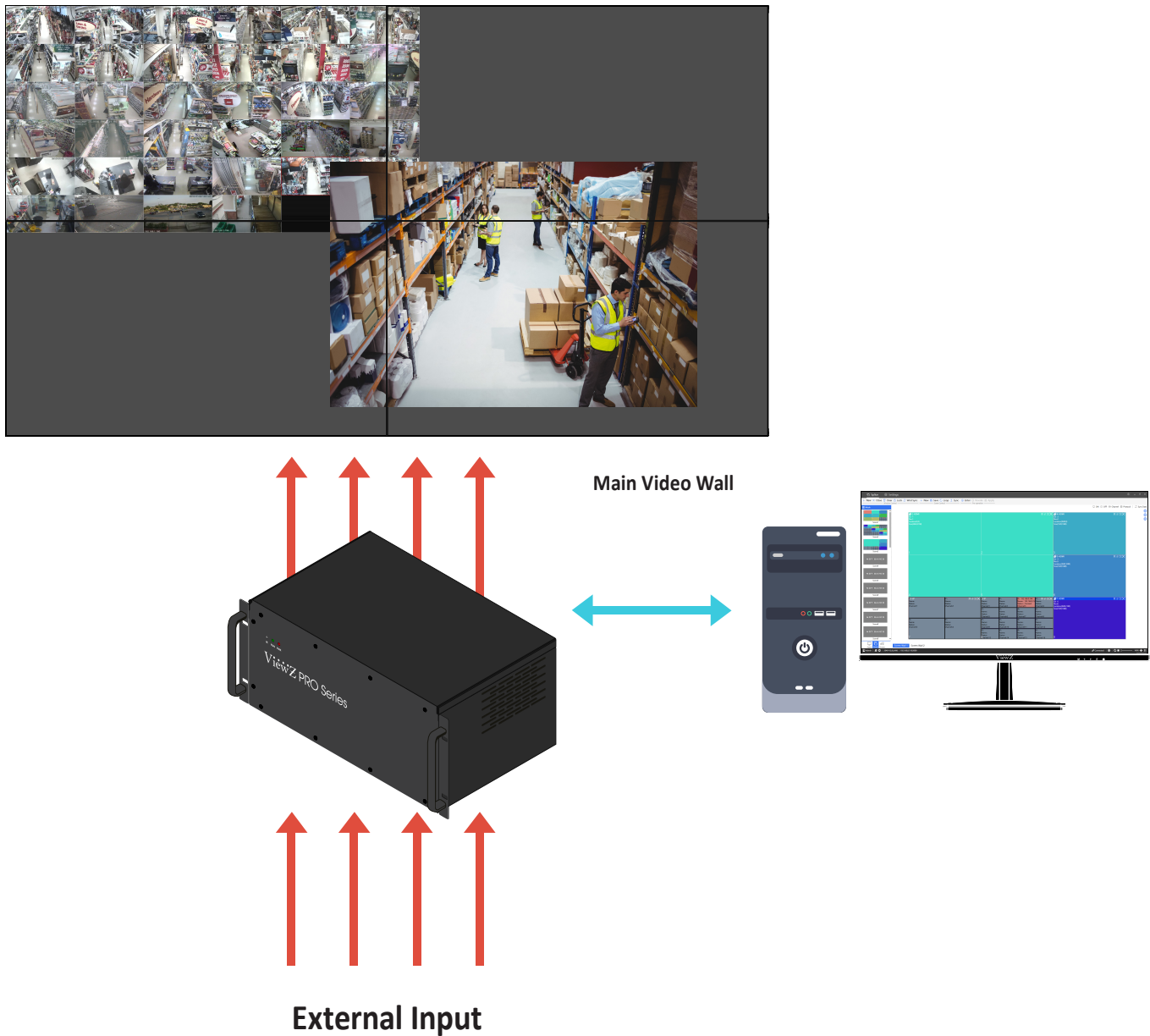
INSTALL CONTROL SOFTWARE

Setup DIMS-Client Software

1. Prepare the Local-Control PC with Window OS

- Before installation, ViewZ recommends using a clean PC. If you are using lots of program on the computer (which will be using for Local-Control PC), there might be an issue.

1.1. Install DIMS-Client Videowall Controller SW

- When you have the VZ-PRO-ST product package, use a USB to install the SW into the computer. Please run the "DIMS_Client_V.XXXXX_View_EN.exe" program and install it.
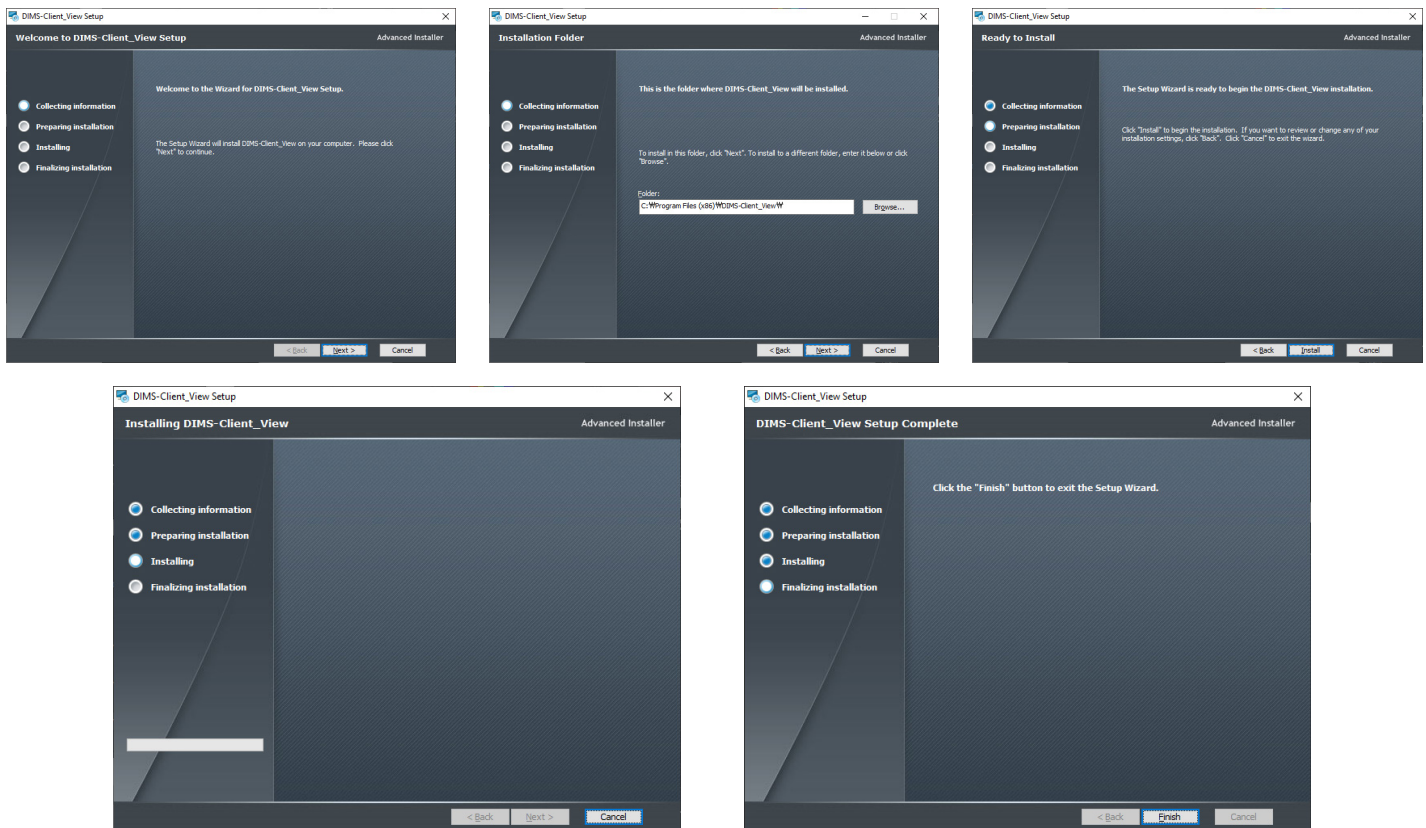
⚠️ **Caution**

Before login, you should also check the IP address of your PC (which **DIMS-Client** program will be installed). The VZ-PRO-ST's default IP address is '192.168.0.110'. So, please check your IP address of PC and do not let conflict each other. No DHCP connection is allowed.

LAUNCH CLIENT SOFTWARE

Setup the Connection between VZ-PRO Controller and Control Software

1.2. Launch the Vdeo Wall Controller Software

- After the installation and you can launch the program - run '**DIMS-Client.exe**' icon on desktop.
- Then, you will see the below interface.
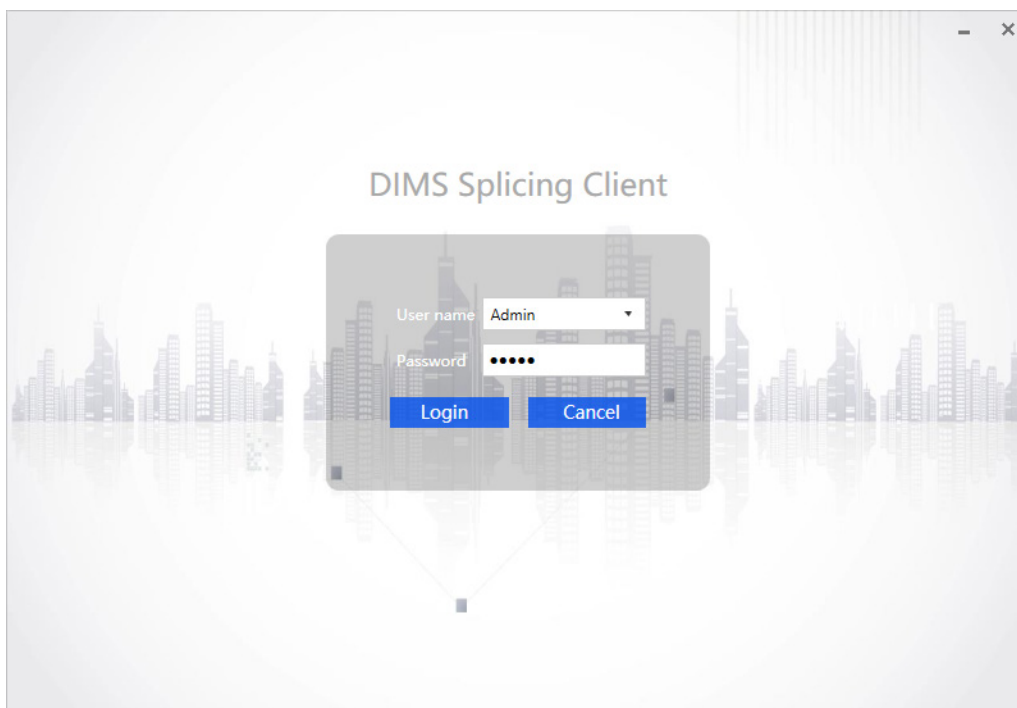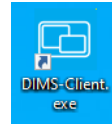
⚠ **Caution**

The **default IP address** of VZ-PRO controller is '**192.168.0.110**'
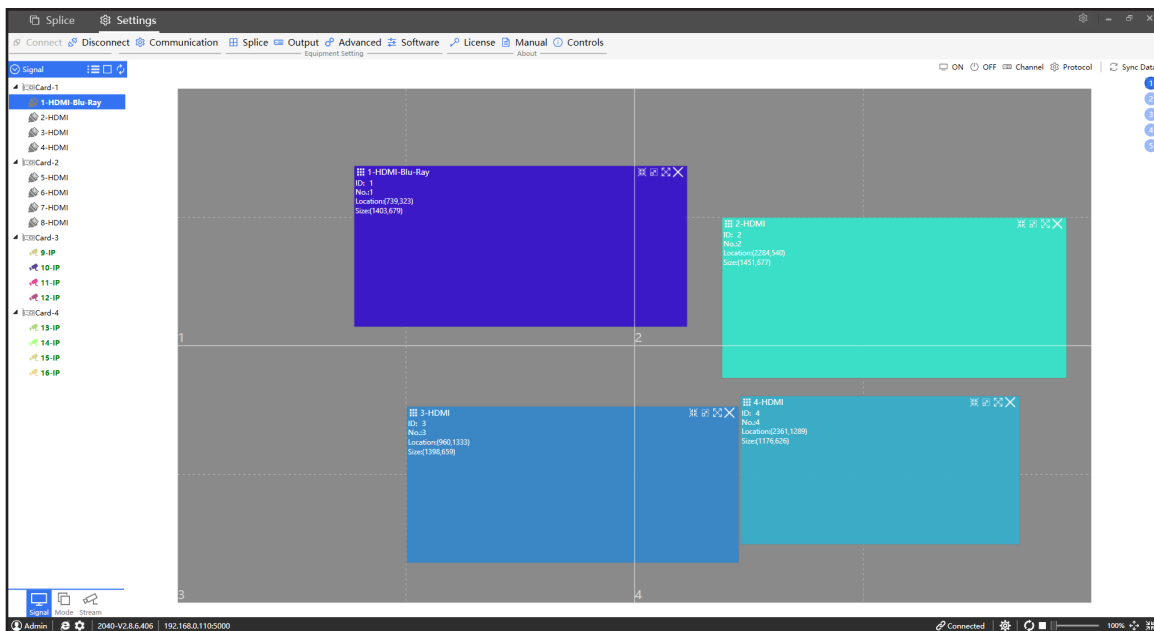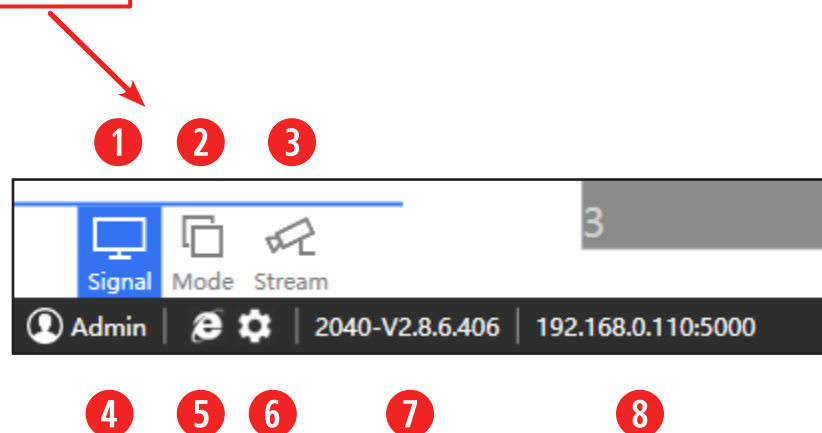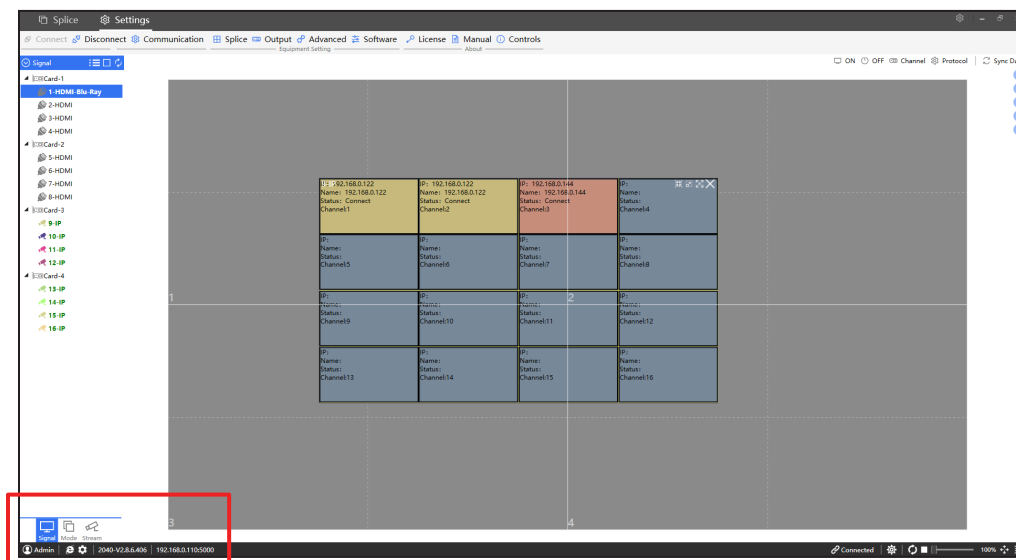The **default Username & Password** is '**admin**' & **admin**.

INTERFACE

Interface of DIMS-Client Software

1.3. Interface of the Vdeo Wall Controller Software

- On **DIMS-Client** software window, you need to figure it out about the functional area.
- The software has 3 main areas - Status Bar, Menu, Input and Screen Layout areas

① SCREEN LAYOUT ② INPUT ③ MENU ④ STATUS BAR
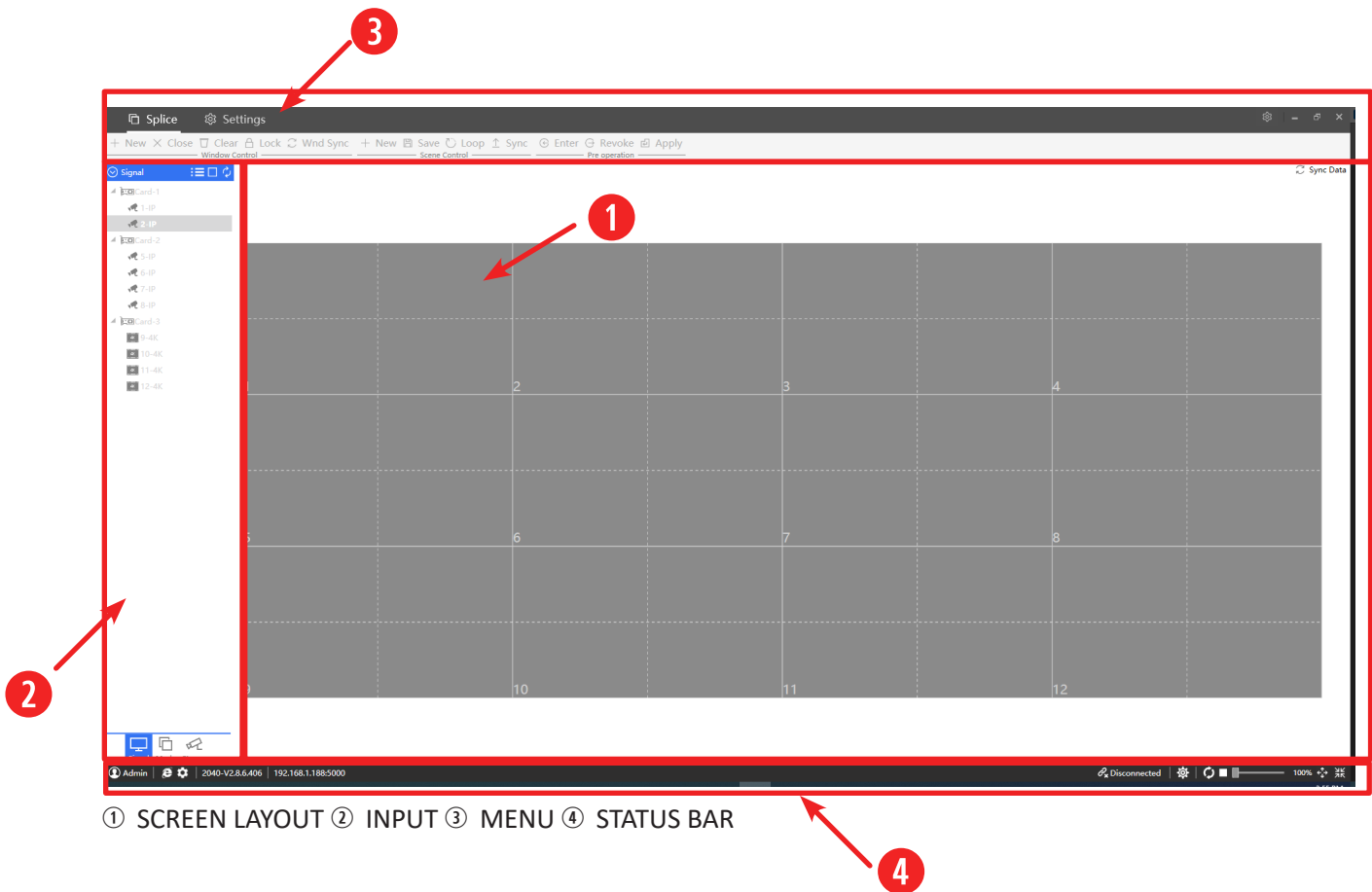
- The videowall controller software is composed by 3 parts - Main Navigation, Screen Layout and Quick Menu.

1.**SCREEN LAYOUT** will dsiplay current display setup on monitors.
2.**INPUT** (left area) has "**Signal (Input)**", "**Mode (Schedule & Preset)**" and "**Stream (IP Camera or media)**".
3.**MENU** (top area) has "**Main Function**", "**Communcation (Connection)**", "**Advanced**", "**License**", "**Splice Setup**", "**Output**", "**IP Camera or Stream Media**", "**User Account Setup**" and "**Controls**".
4.**STATUS BAR** has "**Version Info**", "**IP & Port Info**", "**Connection Status**", "**Connection Setup**" and "**Zoom**".

INTERFACE

Interface of DIMS-Client Software

1.3. Interface of the Vdeo Wall Controller Software

- On **DIMS-Client** software window, see the right-top corner.
  1. **On & Off**: User can turn on & off the PRO-ST controller.
  2. **Channel**: User can show which output use HDMI, DVI or VGA output card.
  3. **Protocol**: User can select the screen protocol.
  4. **Sync Data**: User can synchronize the current layout or display schedule to the actual monitor (on DIMS-Client software) or download the current displaying (of actual monitor) layout to the DIMS-Client software.
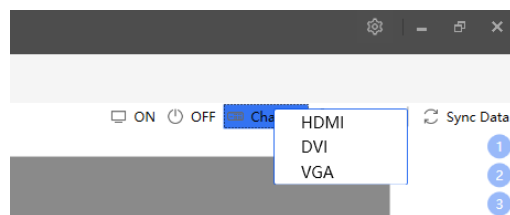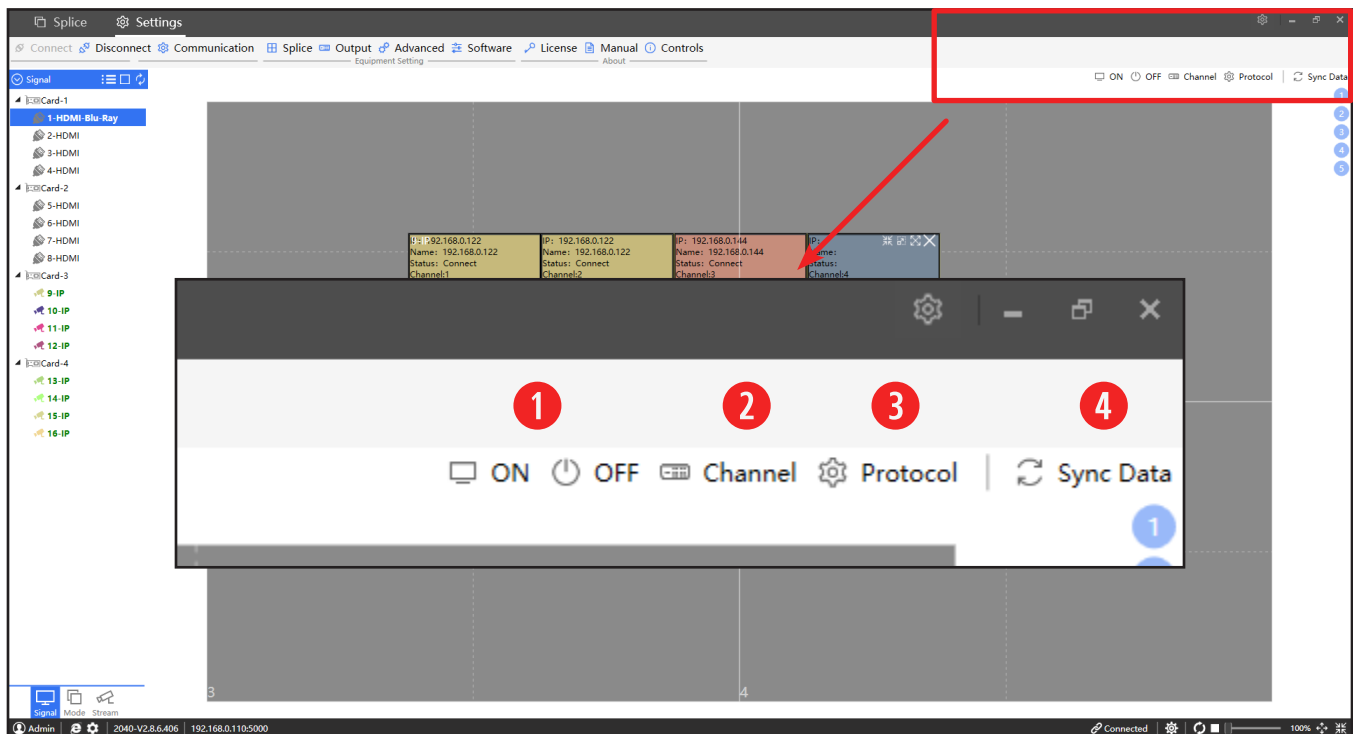
Channel popup window
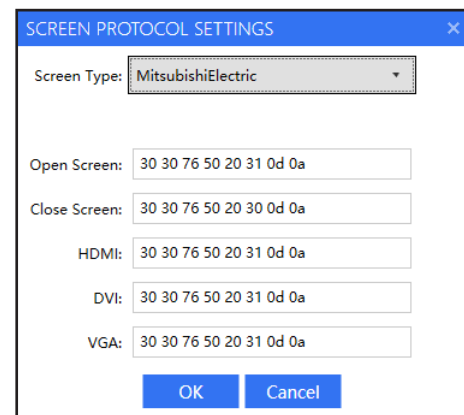
Screen Protocol Settings window

INTERFACE

Interface of DIMS-Client Software

1.3. Interface of the Vdeo Wall Controller Software

- On **DIMS-Client** software window, see the right-top corner.
  If you saved presets, you can see the circled number and click one of them. Then, the saved preset will be loaded into the main screen.
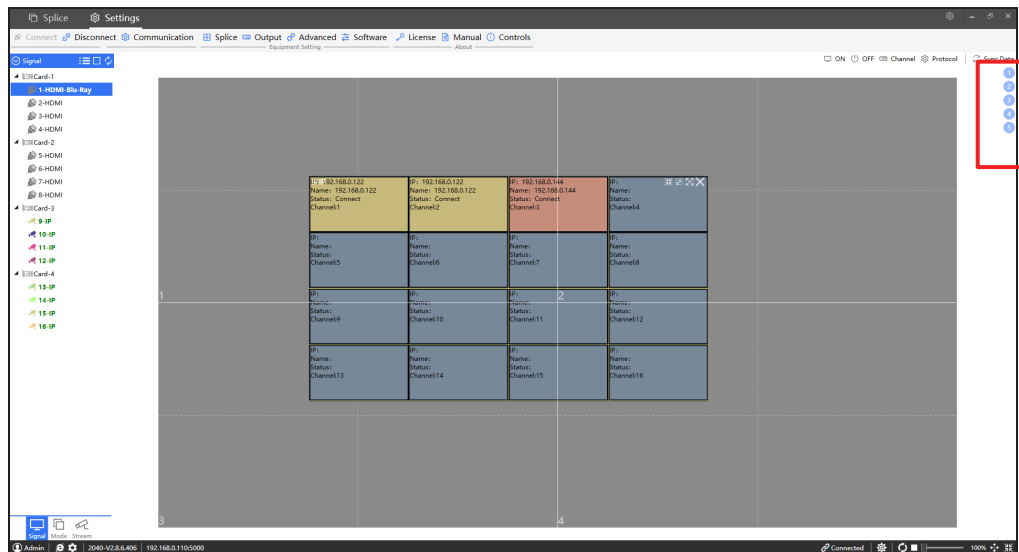
Saved **Preset**

INTERFACE

Interface of DIMS-Client Software

1.3. Interface of the Vdeo Wall Controller Software

- On **DIMS-Client** software, see the left-bottom corner.
  1. **Signal** Input: User can see all connected input card.
  2. **Mode** Selection: User can make desired layout as scenes and also make the loop-schedule by using these.
  3. **Stream** Input: User can see the connected IP camera or streaming media.
  4. **Account**: It shows who is the current operator.
  5. **Info**: The current PRO-ST controller does not support this function.
  6. Get **Info**: The current PRO-ST controller does not support this function.
  7. **Version**: It shows the current PRO-ST controller software version.
  8. **IP Info**: It shows the IP address & port number of connected PRO-ST controller.

INTERFACE

Interface of DIMS-Client Software

1.3. Interface of the Vdeo Wall Controller Software

- On **DIMS-Client** software window, see the right-bottom corner.
  1. **Connection**: User can see the connection message between PRO-ST controller and DIMS-Client software.
  2. **Communication** Setup: User can setup the IP connection.
  3. **Preview** Play: User can control the preview play or stop.
  4. **Zoom**: User can zoom in or out the main screen by mouse scroll or moving this bar.
  5. **Mouse Cursor / Drag**: Use can switch between general mouse control and main-software screen drag hand.
  6. Fit: When user zoom in and want to go back to the full screen, click this icon.
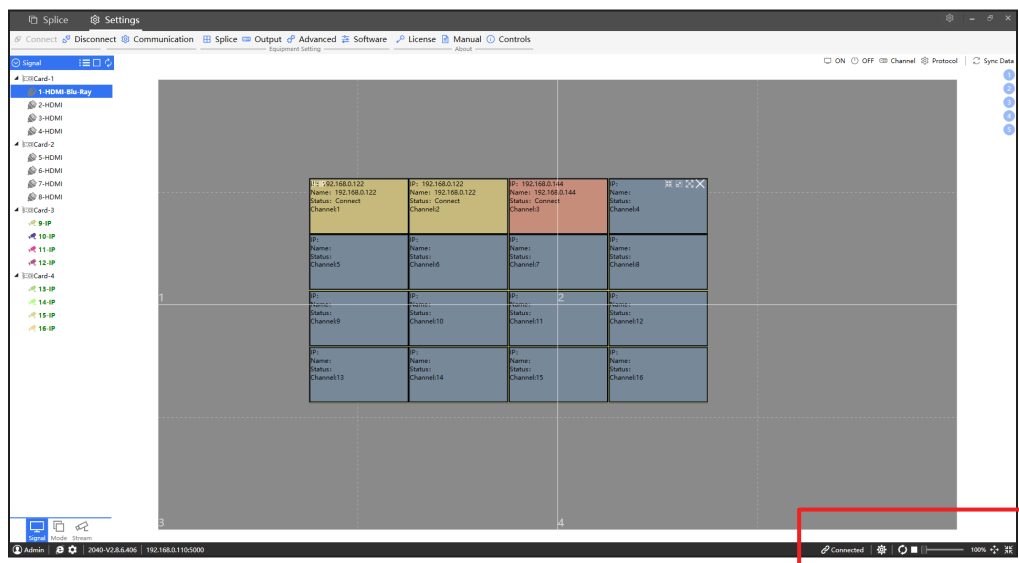
CONTROLLER IP ADDRESS

Setup IP Address

1.4. IP Setting

- If you want to configure the IP address of VZ-PRO Controller, please use DIMS-Client software.
- On the network system, you shuold use the proper IP address for VZ-PRO Controller.

- On **Setting**, click '**Communication**' button, then '**Communication**' window will pop up.
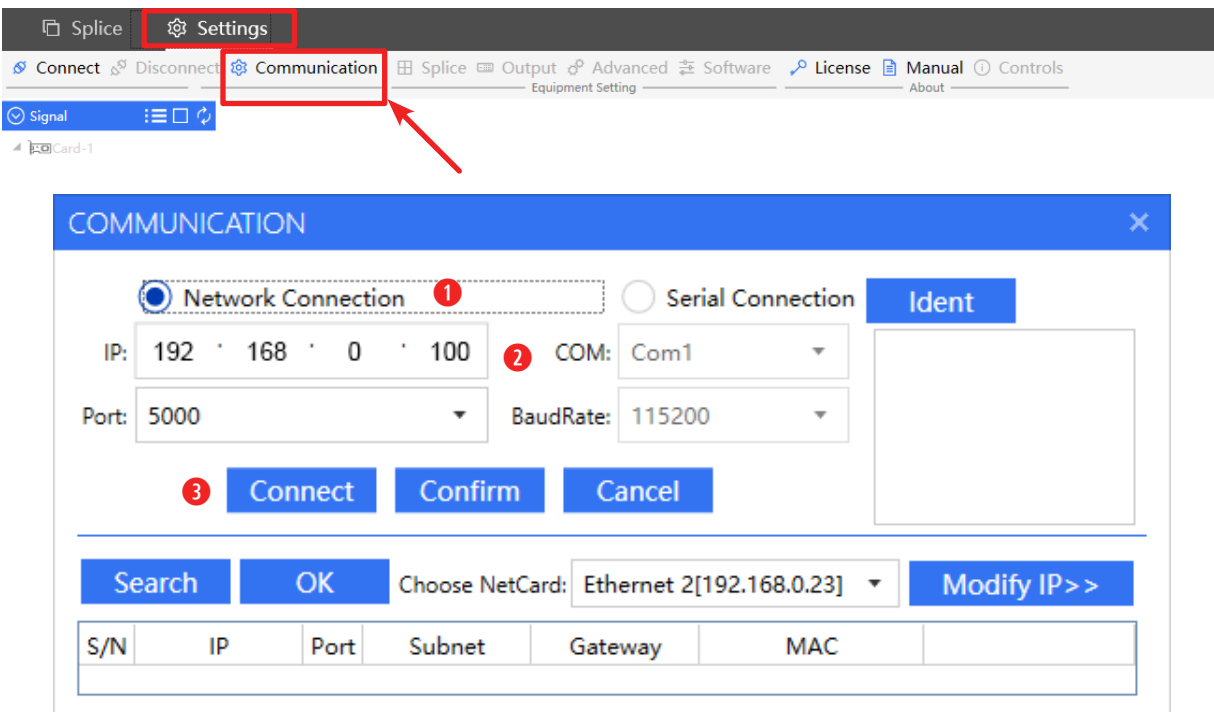
- On **Communication**, check the **'Network Connection'** and follow the next step;

1. Type the deafult or desired **'IP'** address;
   Default IP address: 192.168.0.110 | Default Subnet Mask: 255.255.255.0
   Default Gateway: 192.168.0.1 | Default Port Number: 5000, 5100, 5200 or 5300
2. Port number is automatically identified.
3. Click the 'Connect' button

CONTROLLER IP ADDRESS

Change IP Address

1.4. IP Setting - Modify

- On **Communication**;
  1. Click the **'Search'** button to change the IP address manually.

2. If your computer (which installed SW) are connected on the same network, SW will show the connected PRO-ST.

⚠️ **Caution**

Before updating IP address, please make sure about connecting to the same network. If the computer (which install the SW) is not under the same network, the SW cannot find the PRO-ST controller.

CONTROLLER IP ADDRESS

Change IP Address

1.4. IP Setting - Modify

3. Select the IP address which you want to edit.
4. Click 'Modify IP' button.

5. Click 'Edit' button and type the IP address, subnet mask or gateway info.
6. After updating info, click 'Modify' button to save the info.

⚠️ Caution

Before updating IP address, please make sure about IP address range, subnet mask and gateway info matching. If you do not know about this, please discuss with your network administrator.

CONTROLLER SERIAL CONNECTION

Change Serial Connection

1.5. Serial Port Setting

- If you want to configure the serial port of VZ-PRO Controller, please use DIMS-Client software.
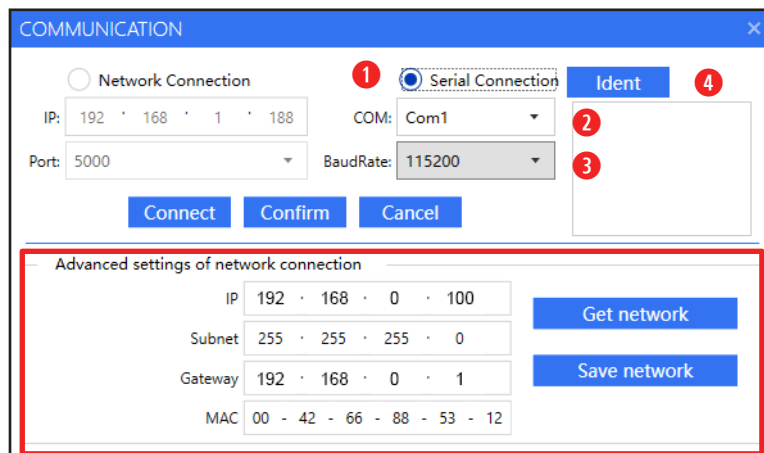
Advanced settings of network conection

- On **Communication**, check the **'Serial Connection'** and follow the next step;

1. Check the Serial Connection
2. Select the COM port.
3. Select Baud rate: 115200 or 9600. The default is 115200
4. Click 'Ident' - this button can automatically identify the connected serial port.

1.5. Connection Status

- If you succefully connect the SW to the PRO-ST controller, you can see the updated status bar on the right bottom corner.
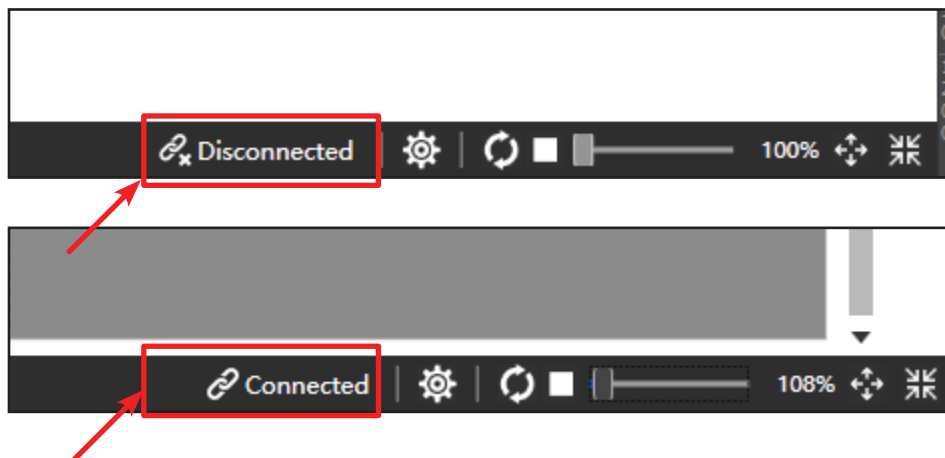
VIEWING WINDOW SETUP

Zoom the Screen Layout

1.6. Zoom In and Out the Screen Layout

- You can control zoom-in & out by scrolling the wheel of mouse or moving the bar on zoom status bar
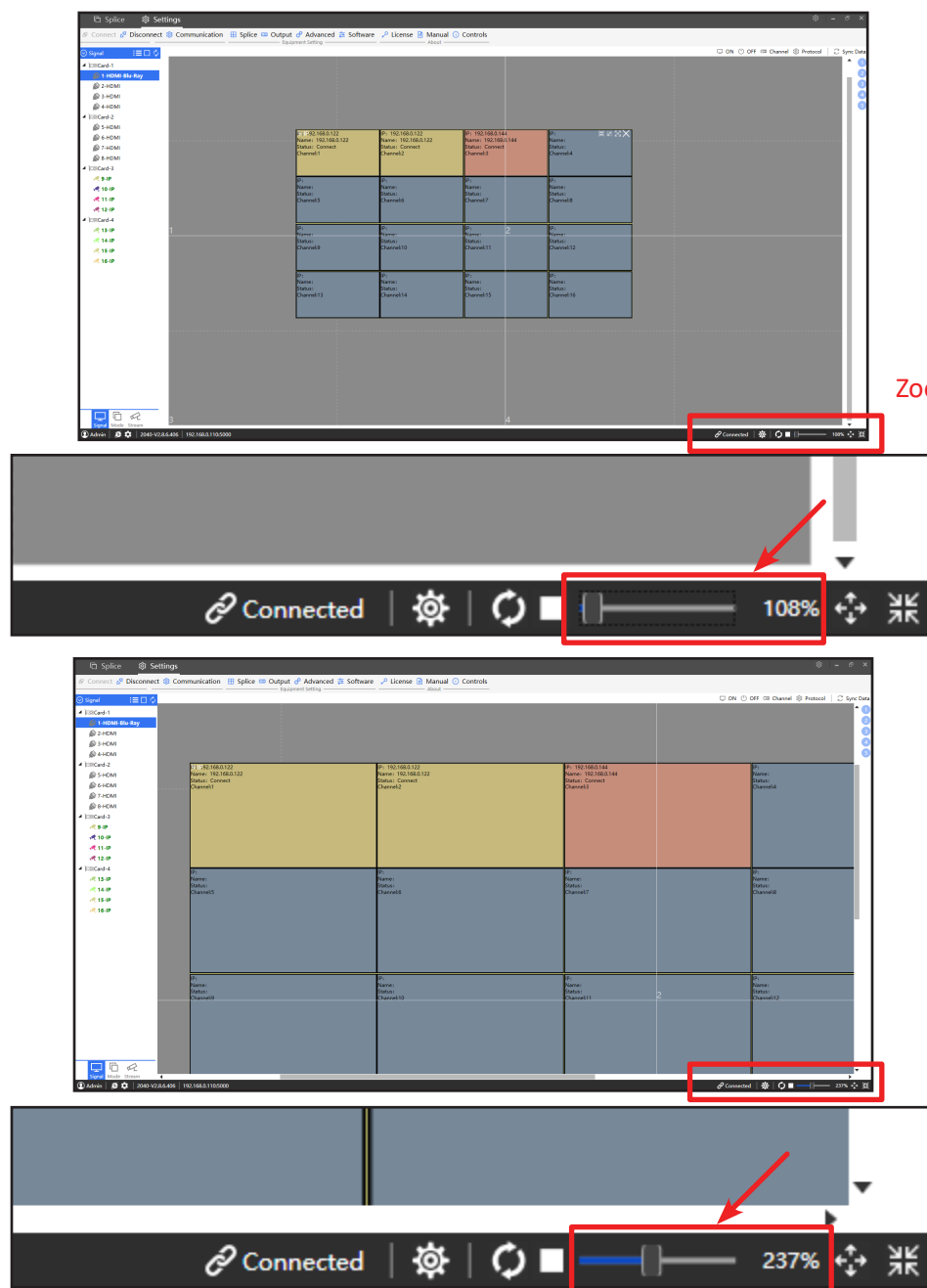
Zoom status bar

Scroll Up: Zoom in

Scroll Down: Zoom out

CONTROL OPERATION

Videowall Monitor Setup

2.1. Synchronize Monitors with Control Software - Logical & Physical Setup

- After successful connection between SW and PRO-ST, you need to setup the physical & logical screen number via **'DIMS-Client'** software.
- On **Setting**, click **'Splice'** button, then **'Splice'** window will popup.
- On **Splice**, check the **'Enable Screen Group'** and follow the next step to finish the videowall screen setup;

1. **Display Wall Enablement:** PRO-ST controller can make 4 sets of video wall display. You can simply check up the check box among Screen Wall 1, 2, 3 & 4. These 4 sets of screen wall can be using for looping display. If you just need to use 1 layout, check up 'Screen Wall 1' and type the next information.

2. **Splice Mode:** This section will setup the **'Physical (Actual) Screen'** and **'Logical Screen'** number.
   'Physical Screen' ROW/COL(Line) number - actual horizontal (ROW) and vertical (COL or Line) monitor number
   'Logical Screen' ROW/COL number - how many inputs will be assigned in the video wall. This function will let you have max 4 screen inputs (layer) per each monitor.
   For example, if you have 3 x 2 video wall, you need to type '2' Line & '3' Row. And if you want to display 4 inputs in each monitor, you need to type '2' Line & '2' Row. If you want to display only 1 input in each monitor, you need to type '1' Line & '1' Row.
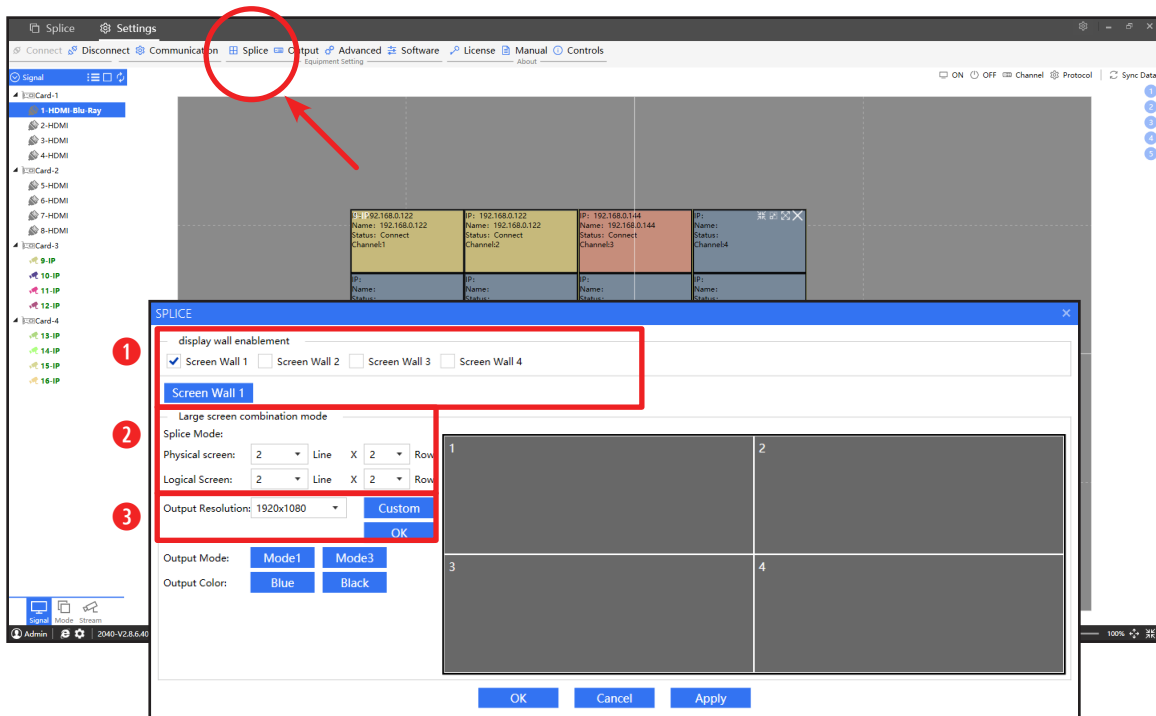
⚠️ **Caution**

PRO-ST input card currently support max 2x2 layers per each monitor.

CONTROL OPERATION

Videowall Monitor Setup

2.1. Synchronize Monitors with Control Software - Logical & Physical Setup

3. **Output Resolution:** Choose the resolution you want to display or make the custom resolution. If you click 'Custom' button, Resolution Setting window will popup and you can adjust it.

4. **Output Mode:** Select the frequency - Mode 1 (60Hz), Mode 2 (50Hz), Mode 3 (30Hz)
5. **Output Color:** Select the background display color of actual monitor. When the input source has no background and the signal is not fully covered on the actual screen, this selected color will be filled on the rest of area.You can choose blue or black color.

⚠️ **Caution**

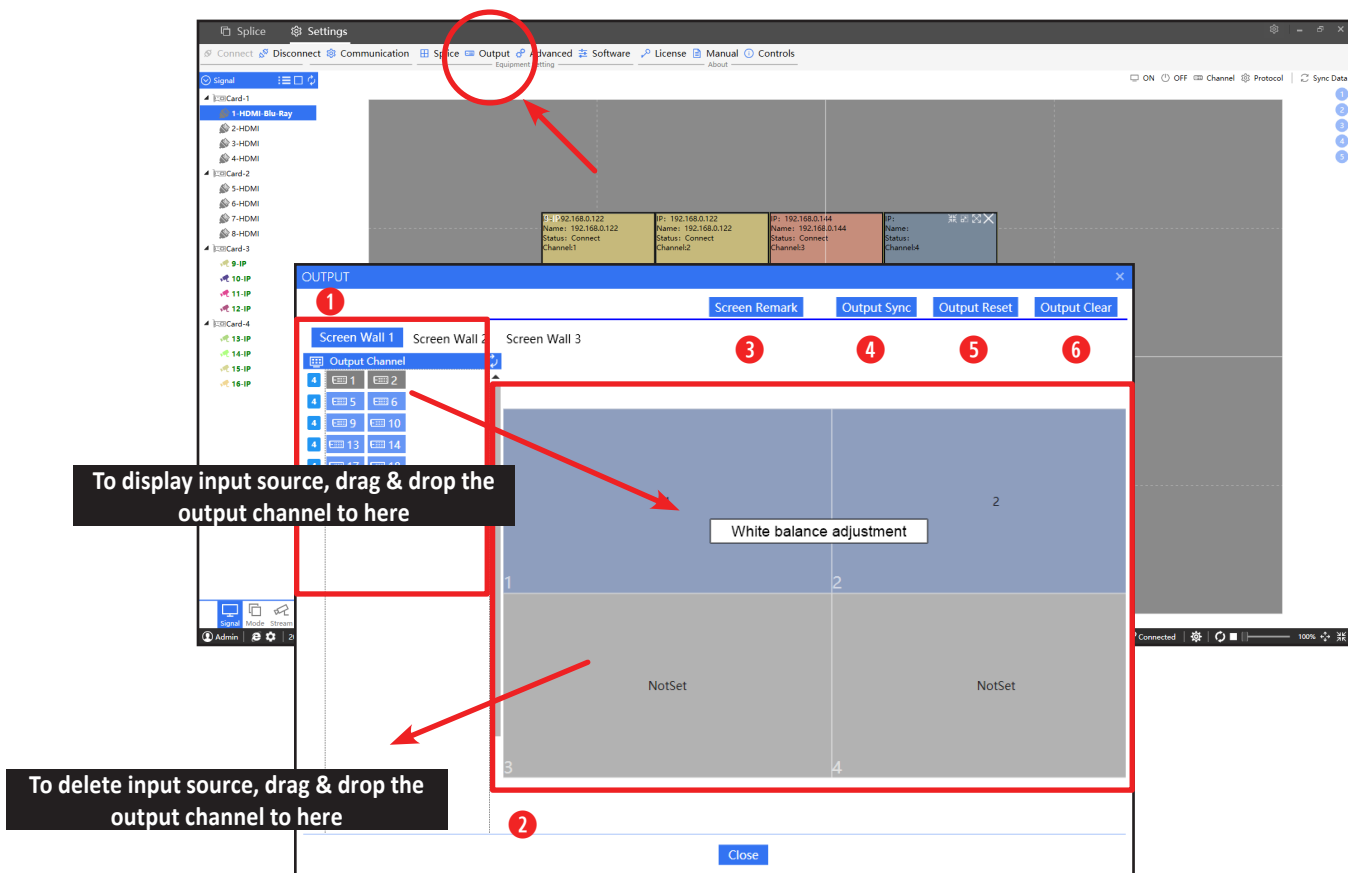Before displaying, you should setup this step.

CONTROL OPERATION

Assign Output to Monitor

2.2. Assign Output to Monitor - Output Source Mapping

- After setup of physicla & logical monitor number, you need to assign the output to each monitor. Without this step, you cannot display the input source to the monitor.
- On **Setting**, click **'Output'** button, then **'Output'** window will popup.
- On **Output**, select one of output channel and drag & drop into the right screen area. This screen row & colum is made by the logical & physical monitor setup on page 20;

1. **Output Channel:** PRO-ST controller will show the current output interface on the output channel ❶. The selected (or used) output interface will be displayed like this; 〔⌨ 1〕. The unselected output interface will be displayed like this; 〔⌨ 13〕

2. **Videowall Monitor Layout:** Based on the setup of physical & logical screen, this layout will show the physical & logical screen. You can put or delete the output by drag & drop.

CONTROL OPERATION

Assign Output to Monitor

2.2. Assign Output to Monitor - Output Source Mapping

After locating output interface on videowall monitor layout ❷, you should double-click each output-assigned monitor on videowall monitor layout for mapping the output with actual monitor. Without this step, you cannot see the input source on the actual monitor.

① Double Click this area

DIMS-Client Software
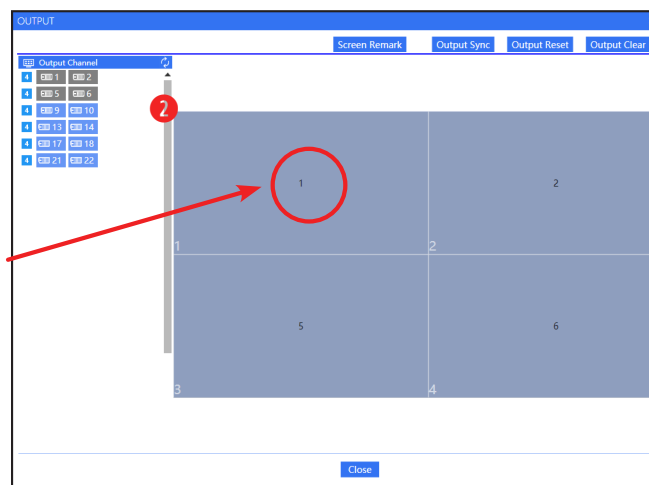
② The actual monitor will show white cross line

③ Repeat this process for all monitor

Actual Monitor

⚠️ Note
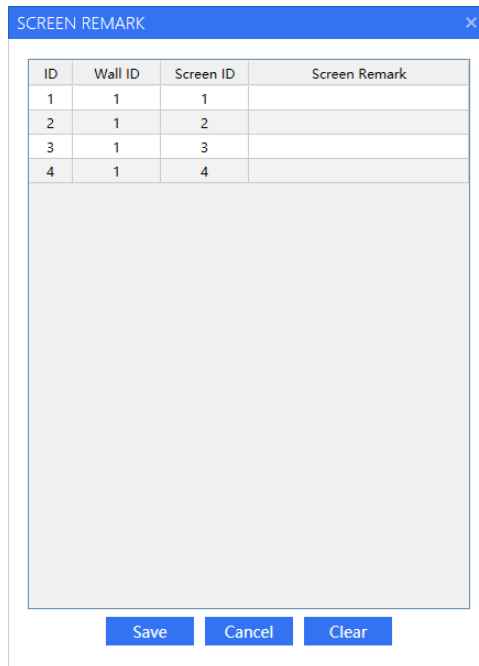
1. After mapping on the last monitor, please double click on the last monitor to disappear the white cross line.
2. When you changed the splicing, please power off the controller to restart.

CONTROL OPERATION

Assign Output to Monitor

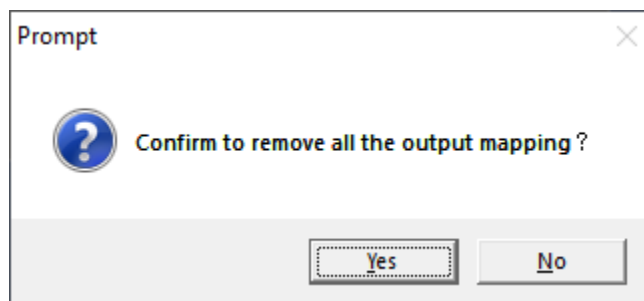### 2.2. Assign Output to Monitor - Output Note, Reset, Sync and Clear

3. **Screen Remark:** Display the Screen ID (on the Videwall Monitor Layout) and Wall ID(Screen Wall Group number). You can type the note on each ID.

SCREEN REMARK ✕

ID	Wall ID	Screen ID	Screen Remark
1	1	1	
2	1	2	
3	1	3	
4	1	4	

Save   Cancel   Clear

4. **Output Sync:** Synchronize the current output mapping (on the software) with actual monitors' display info.
5. **Output Reset:** Reset the entire video wall output setup
6. **Output Clear:** Clear the current display mapping data. If you click this button, you will see below popup. Click 'Yes' to clear all current mapping.

Prompt ✕

? Confirm to remove all the output mapping ?

Yes   No

CONTROL OPERATION

Assign Output to Monitor

2.2. Assign Output to Monitor - Adjust White Balance

- On this setup, you can adjust the white balance of monitor.

  1. On **Screen Area,** right-click and click 'White balance adjustment' button and the 'White balance adjustment' window will pop up.
  2. On **White Balance Adjustment:** you can adjust white balance of videowall monitors.

Click 'White balance adjustment'
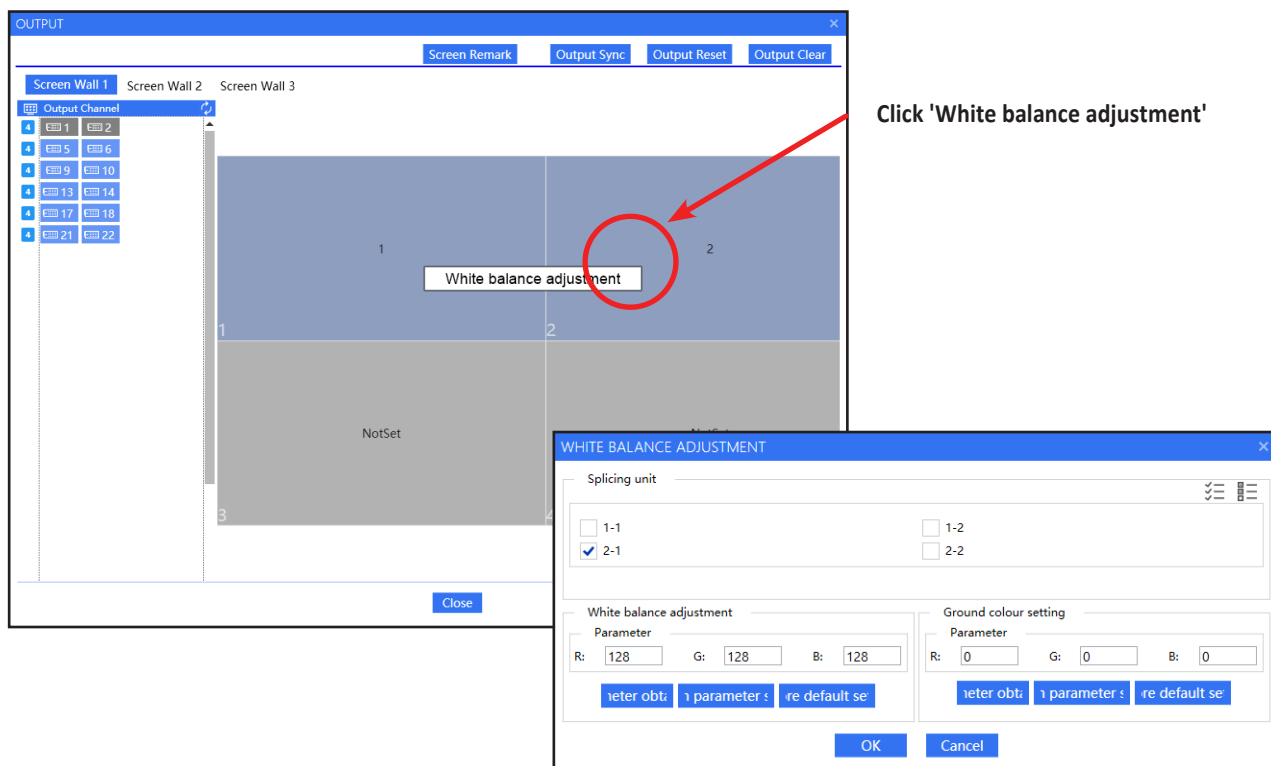
CONTROL OPERATION

Advance

3.1. Setup the Advance

- On Setting, click **Advnace**, then 'Advance' window will pop up.

1. **Control model**: Show the connected PRO-ST controller's chassis type.
2. **Buzzer switch**: When you check this, PRO-ST controller will sound when the control protocol is received.
3. **Read time**: Fixed time format to ensure the consistency of displayed signal.
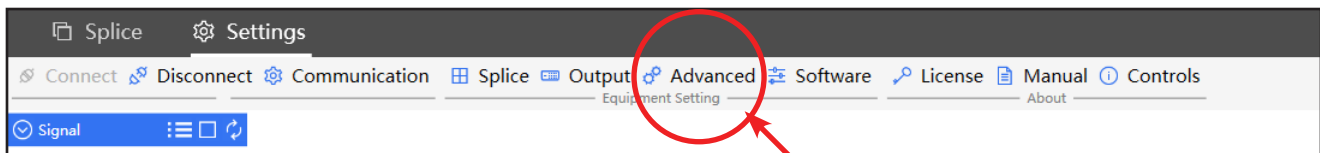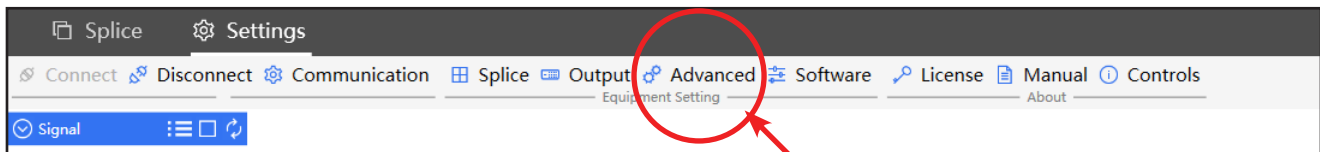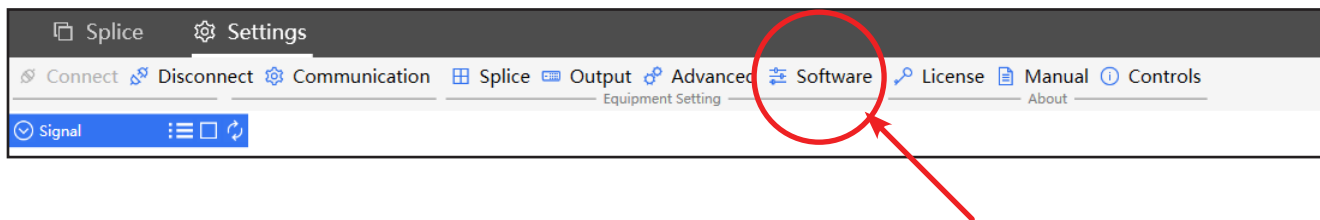
CONTROL OPERATION

Software

3.2. Setup the Software

- On Setting, click **Software**, then 'Software' window will pop up.

1. **Window logic full mode**: When dragging a signal to the window, the opened window is directly covered with the logical window, and the window size cannot be customized when it is opened
2. **Window on top**: When check-up, **DIMS-Client** software will be layered on the top of other programs.
3. **IP mode**: Refer to "**Signal source operation**"-"**Signal right key function**"-"**Add signal mode**".
   When check up "IP mode" and re-launching **DIMS-Client** software, you can crop the IP input signal source.
4. **Prompt setting**: This function has 2 options - menu and scene prompt. When check-up, you can see the description when you mouse over on menu or contents.
5. **Heartbeat setting**: This function is not supported on PRO-ST series
6. **Background display setting**: You can display the background image or text. But, this function require a dedicated input card for background image or text. It means 1 input card will be only using for this.
7. **Advanced software setting**: Enable/Disable control the character overlay, output resolution, screen control, signal angle and client echo.
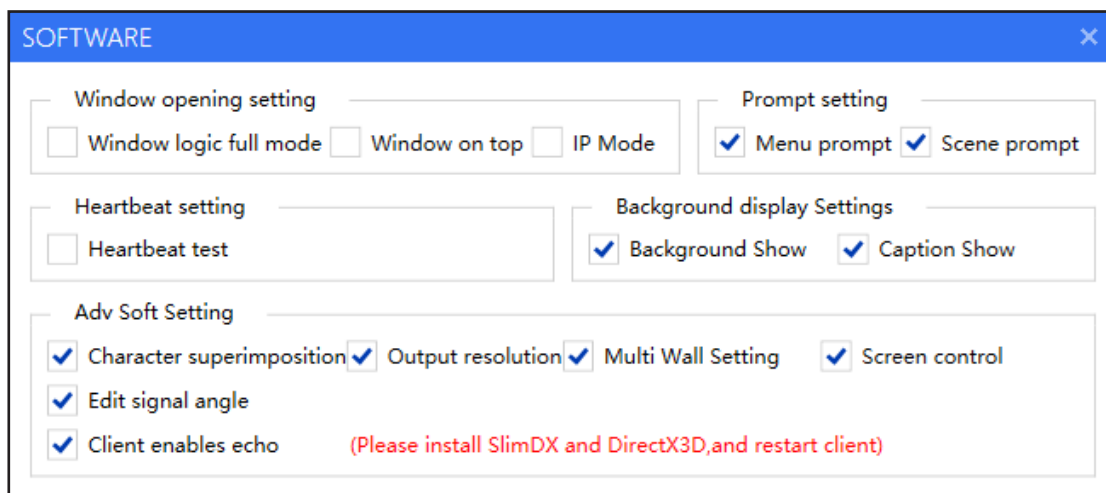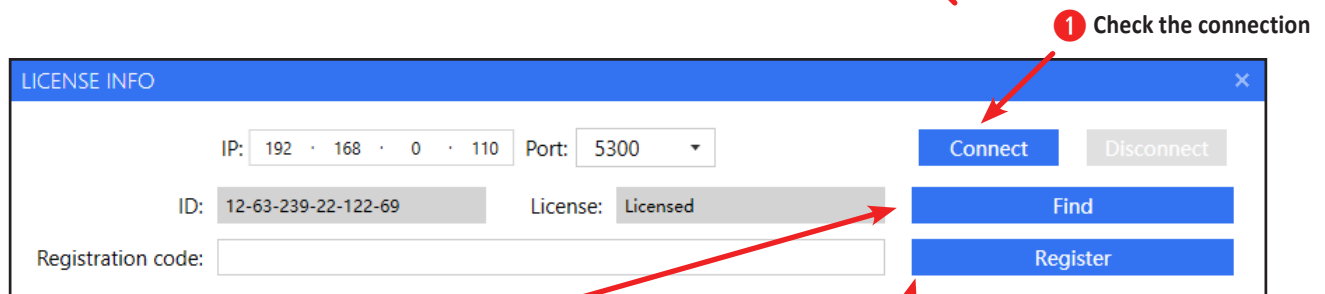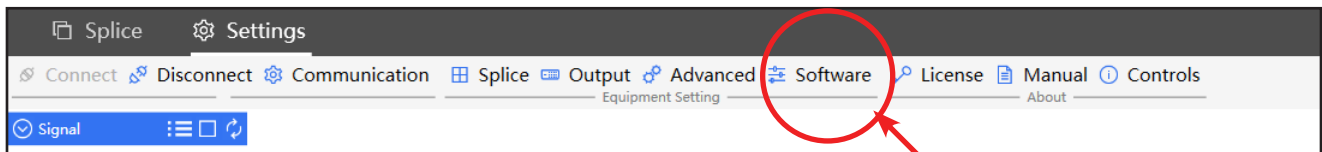
CONTROL OPERATION

License

3.3. Activate/Deactivate PRO-ST Controller

- This function was setup by factory and also the registration code was generated at that time. After setup, this function let user use PRO-ST. If the license is expired, then user will see the error message. In case, plz contact ViewZ to get a registration code to reactivate.

  1. On Setting, click **License**, then 'License' window will pop up.
  2. On License, click 'Connect' to confirm the connection between PRO-ST and DIMS-Client software.
  3. Click 'Find' and find a license file.
  4. If you find a correct file and click to select, then you will see the registration code is located on the window.
  5. Click 'Register' and check the DIMS-Client software.

① Check the connection

② Click 'Find' to select a license file

③ Click 'Register' to activate PRO-ST

⚠ **Caution**

On Left / Right independent screen setup, you cannot adjust the position & size of ouput. You can only assign an ouput to a screen.

CONTROL OPERATION

Controls

3.4. Check the Info of PRO-ST Controller

- This function will show the connected PRO-ST information and installed input/output card information.

    1. On Setting, click **Controls**, then 'Controller version' window will pop up.
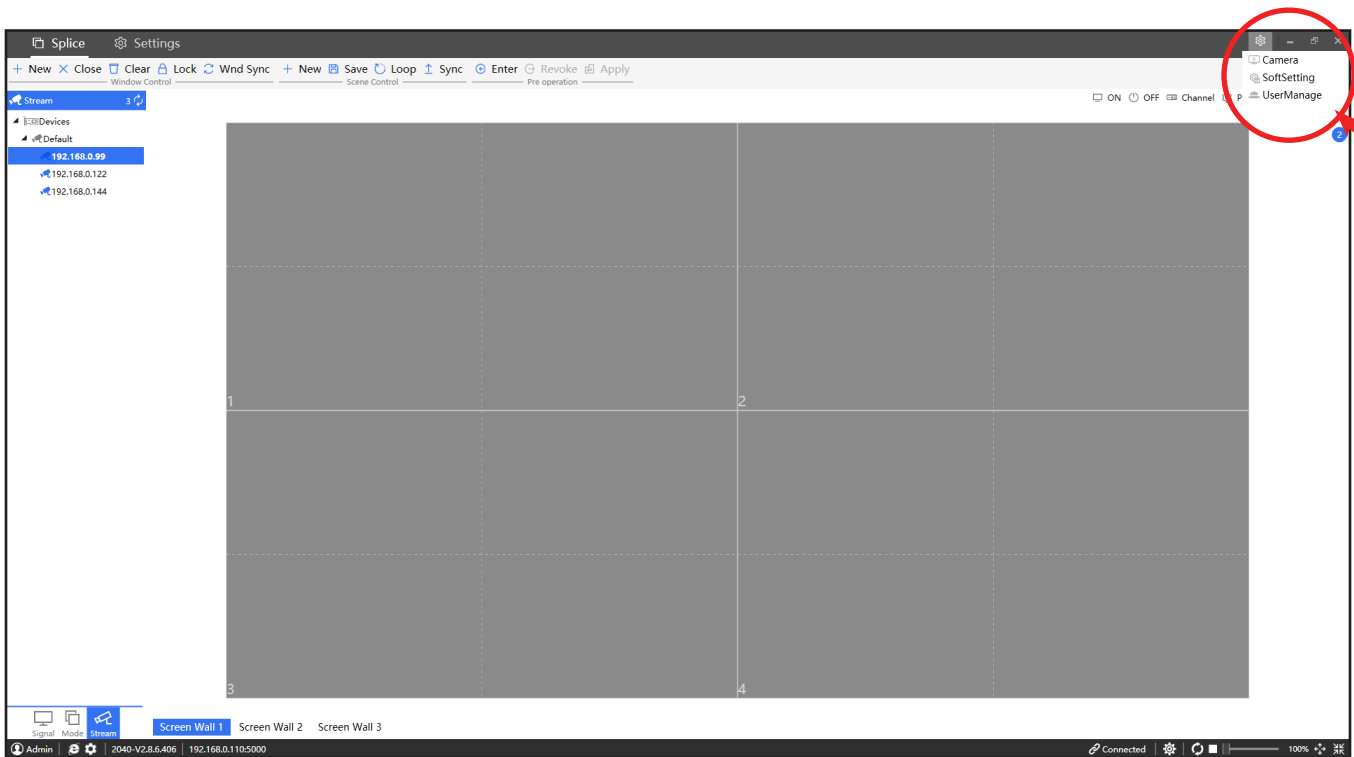   2. On Controller version, the information will be automatically scanned and displayed.
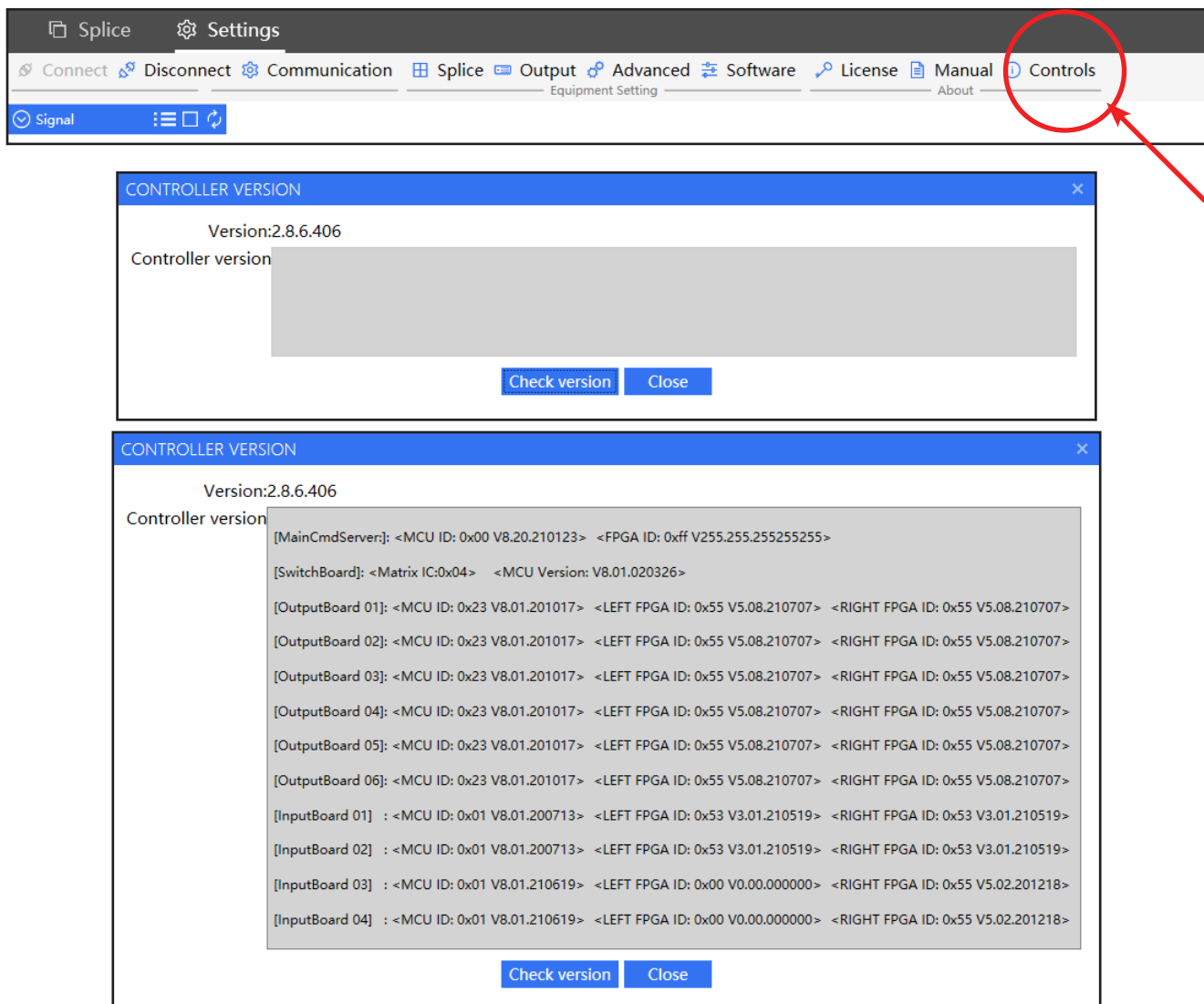
CONTROL OPERATION

Software Setting

3.5. Software Setting - Mouse/Touch Control

- This function let user change color of software, language and mouse / touch control.

    1. On DIMS-Client software, click **Gear** icon at the right-top corner. Then, you will see 3 options.
    2. Click 'SoftSetting' icon, then 'SOFTSETTING' window will popup.
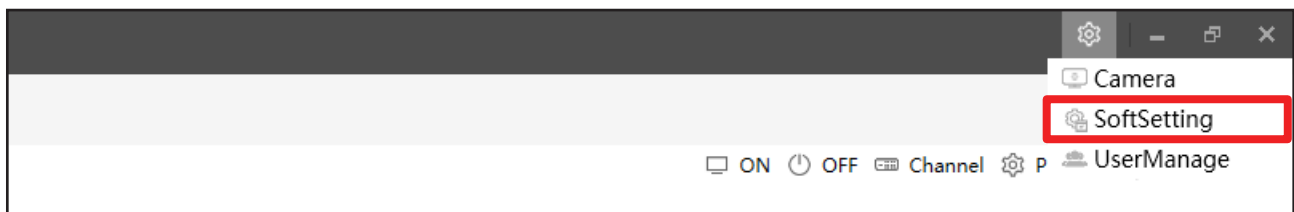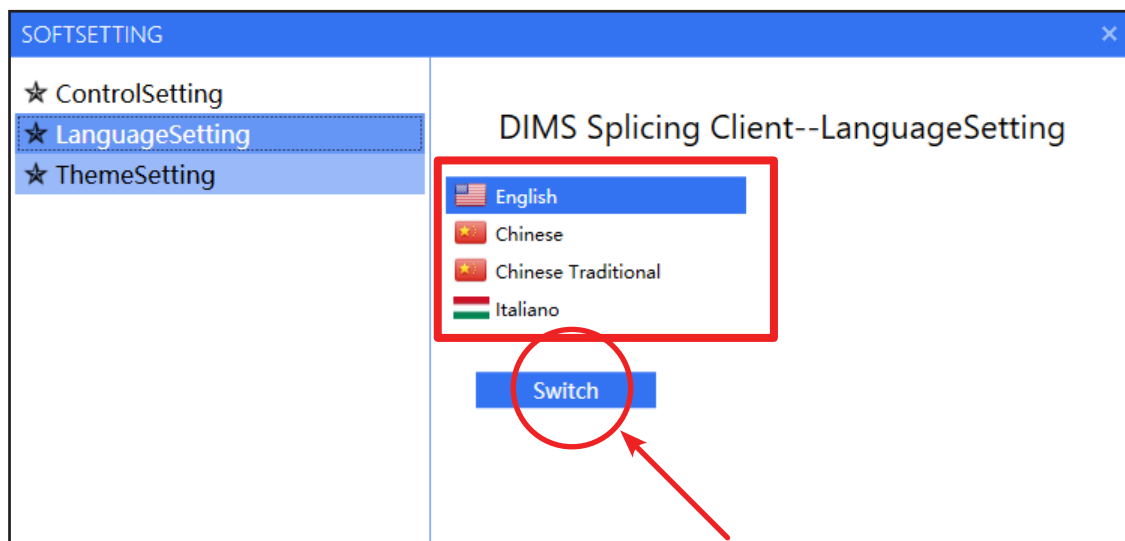
CONTROL OPERATION

Software Setting

3.5. Software Setting - Mouse/Touch Control

3. If your monitor support touch funtion, you can select 'Touch Control' and then click 'Switch'.
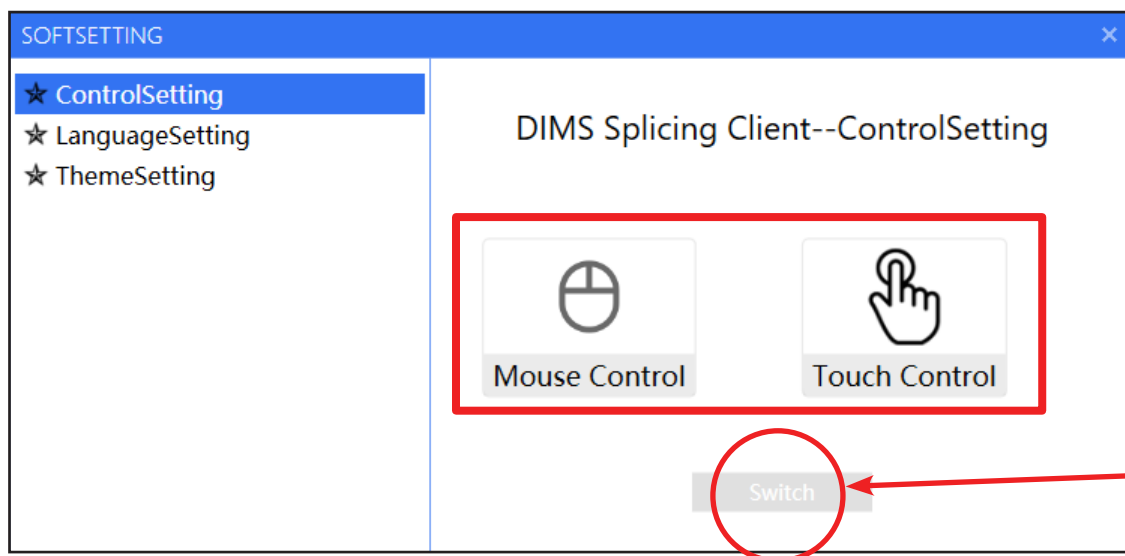
3.5. Software Setting - Change the Language

- You can switch the language on the listed option.

CONTROL OPERATION

Software Setting

3.5. Software Setting - Theme Setting

- You can change the theme color. You just click the favor color on the list.

  1. Select the favor color and click it. Then, the theme color will be changed as your selection.
  2. Close it. The setting will be applied on the entire software.

CONTROL OPERATION

User Manage

3.6. User Account Setup

- This function let user add/remove/edit user account & role.

  1. On DIMS-Client software, click **Gear** icon at the right-top corner. Then, you will see 3 options.
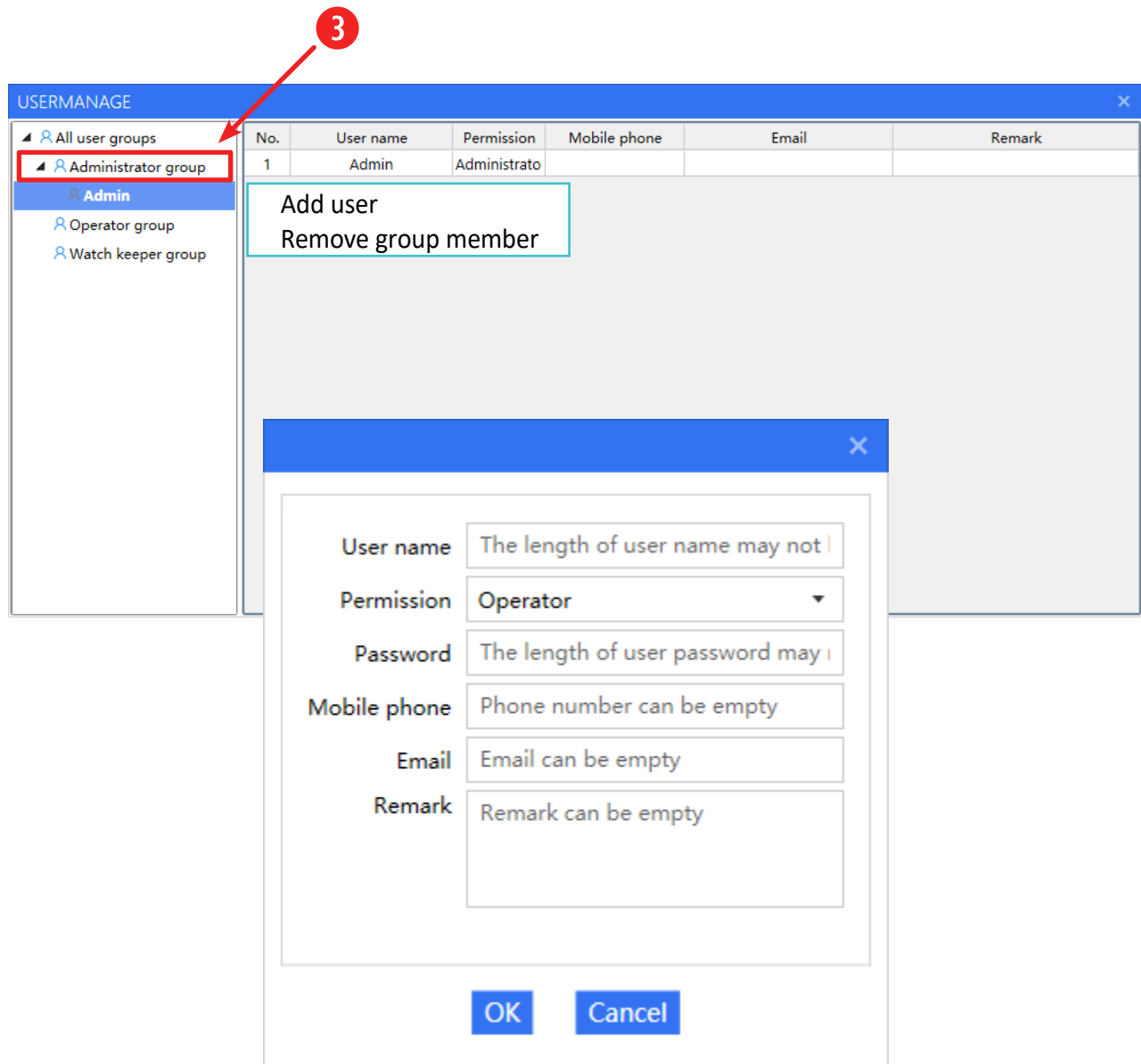 2. Click 'UserManage' icon, then 'USERMANGE' window will popup.
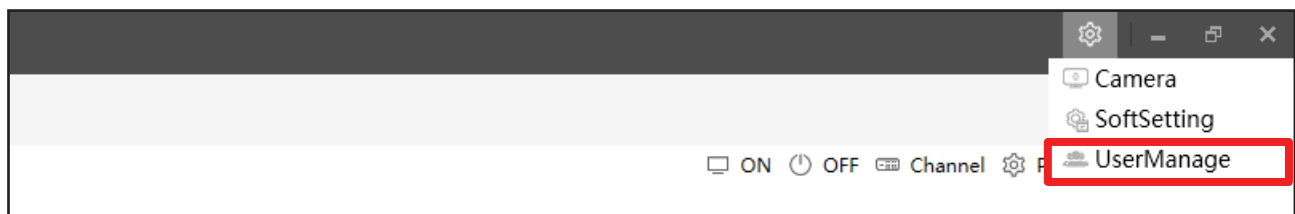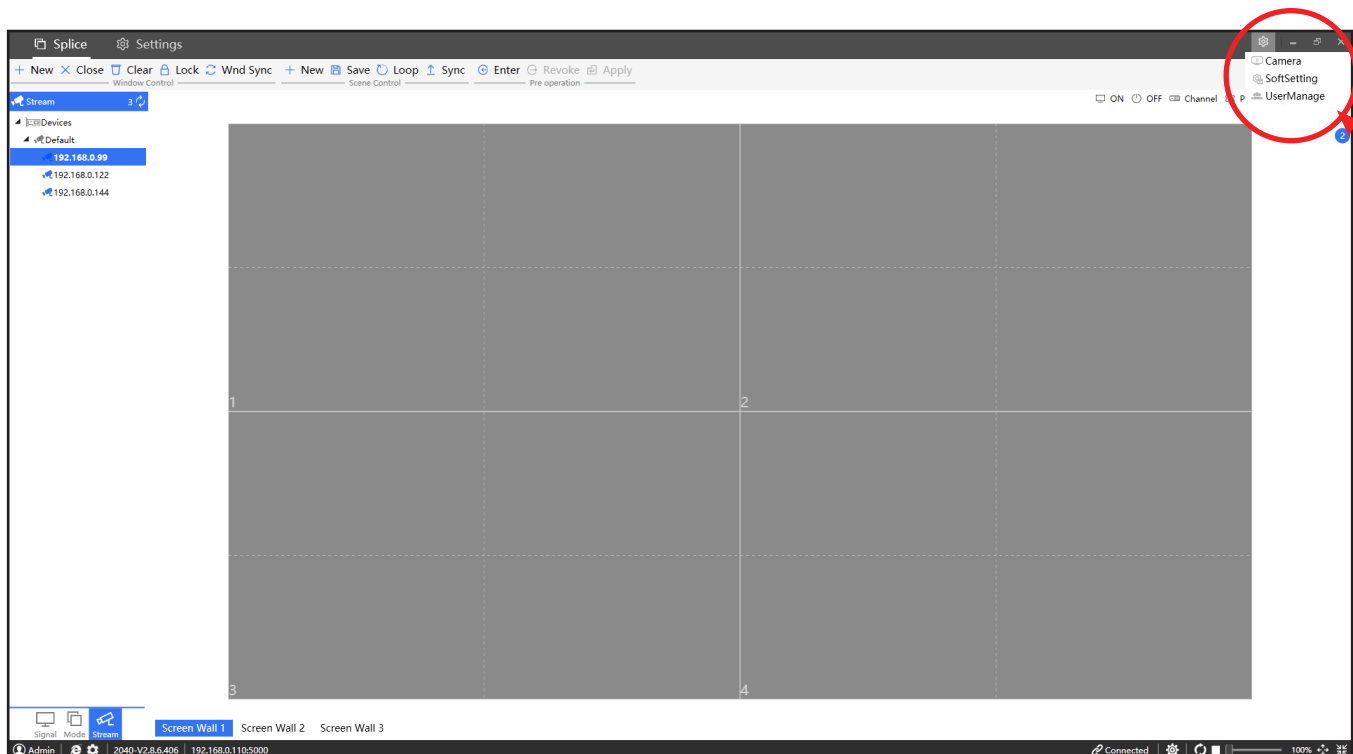
CONTROL OPERATION

User Manage

3.6. User Account Setup

3. Right-click the Administrator, Operator or Watch keeper group. Then, you will see a popup window. You can add or remove the user account.

CONTROL OPERATION

User Manage

3.6. User Account Setup

4. Rigt-click the user account. Then, you will see a popup window and you can edit user info, password or role function.
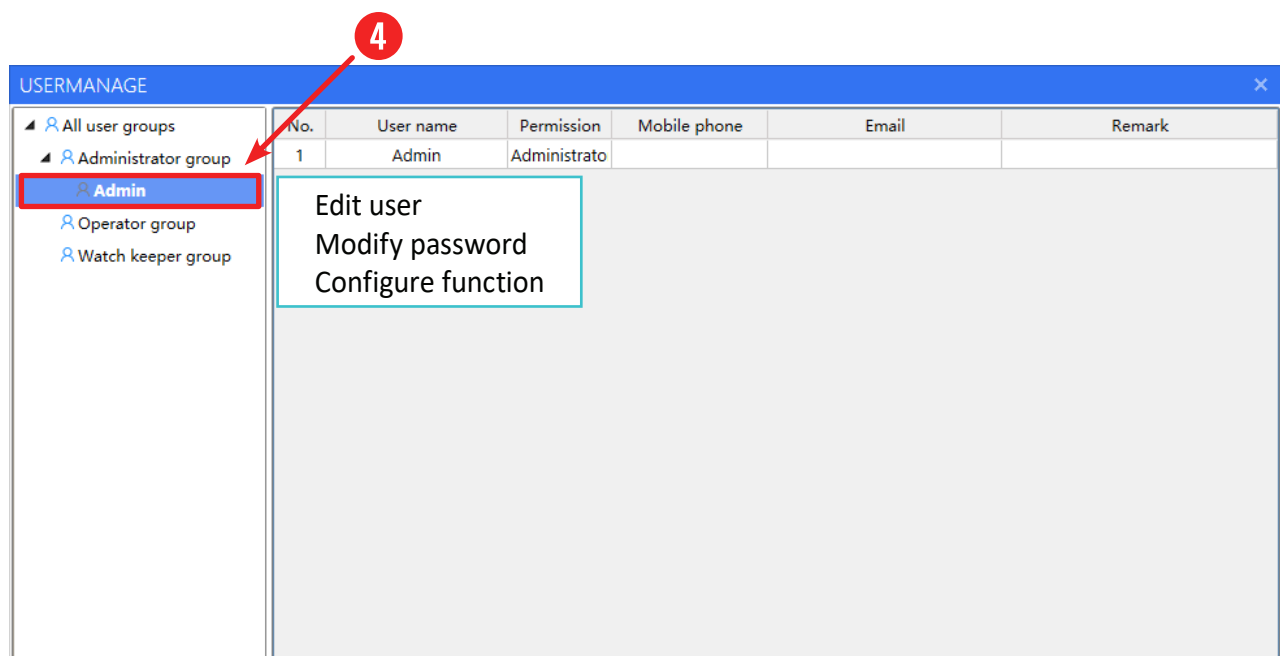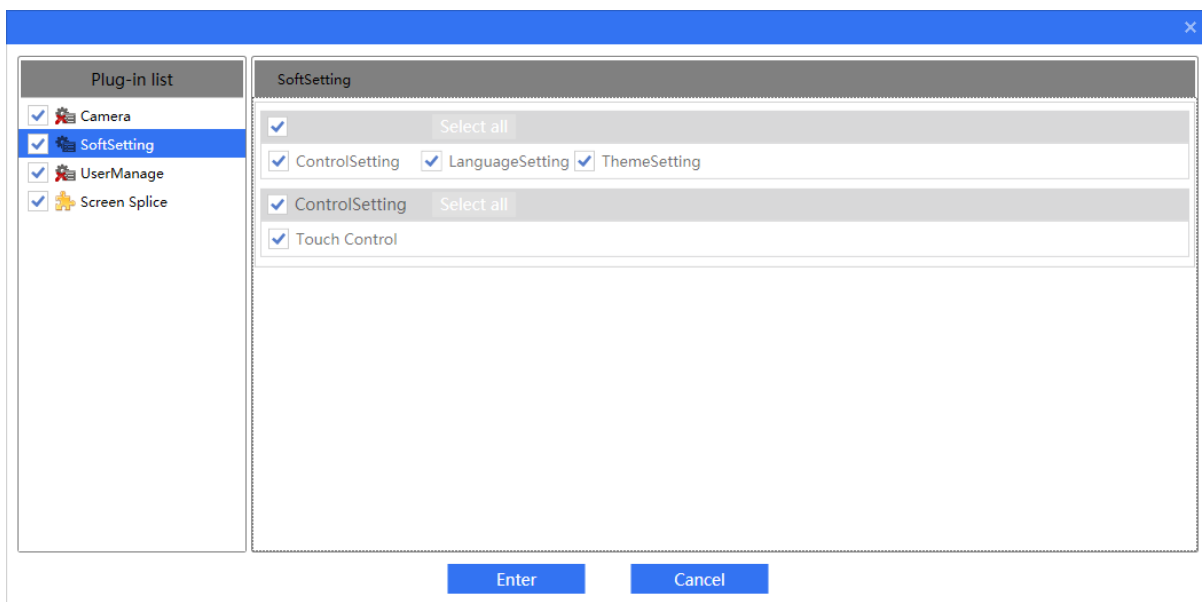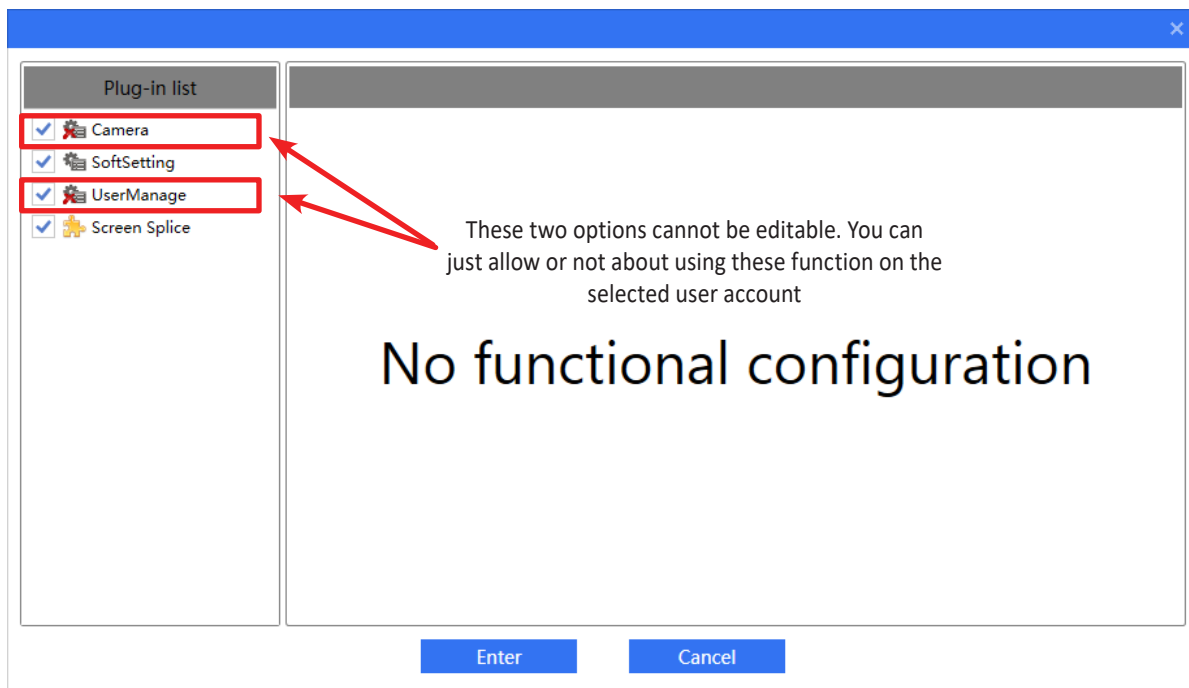

Edit user window

Modify password window

CONTROL OPERATION

User Manage

3.6. User Account Setup

If you want to edit the configure the role of user account, plz make sure about each role's limitation.

These two options cannot be editable. You can just allow or not about using these function on the selected user account

No functional configuration

Configure function window

CONTROL OPERATION

User Manage

3.6. User Account Setup

**Screen Splice** option will let you change the most important role of videowall editing.
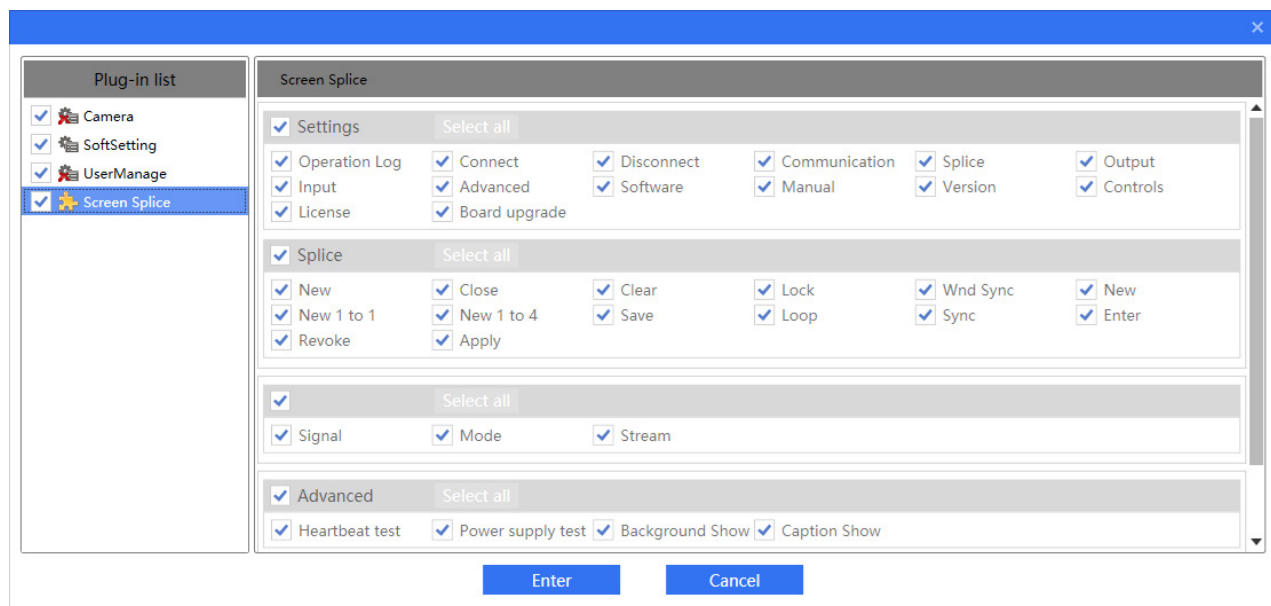
CONTROL OPERATION

Videowall Setup

4.1. Window Control

- Splice function let user create a display layout and scheduled plan.

- **New**: Click 'New' button to make a new souce on the videowall layout or drag the box after select the souce from 'Signal Window'. Basically, you can put 4 input sources per monitor (by using HDMI input card) or 16 input sources (by using IP input card with D1 resolution).
- **Close**: Close the selected input source window on the videowall layout.
- **Clear:** Clear the whole input source located on the current videowall layout.
- **Lock:** Lock the selected input source window. After locking, user cannot move or resize the window.
- **Wnd Sync:** Synchronize with current monitor display.
   That is, if you want to put a contetnt during running the current display layout with some contents, use this function to apply updated layout immediately.
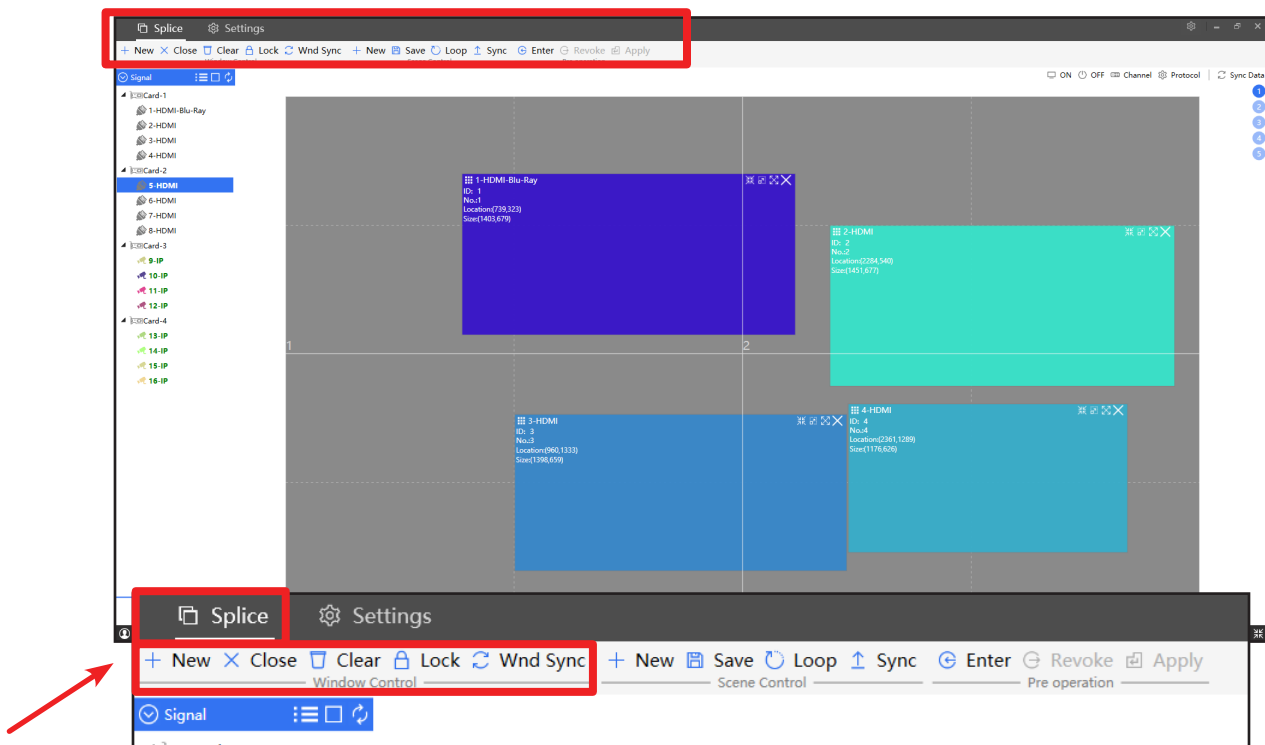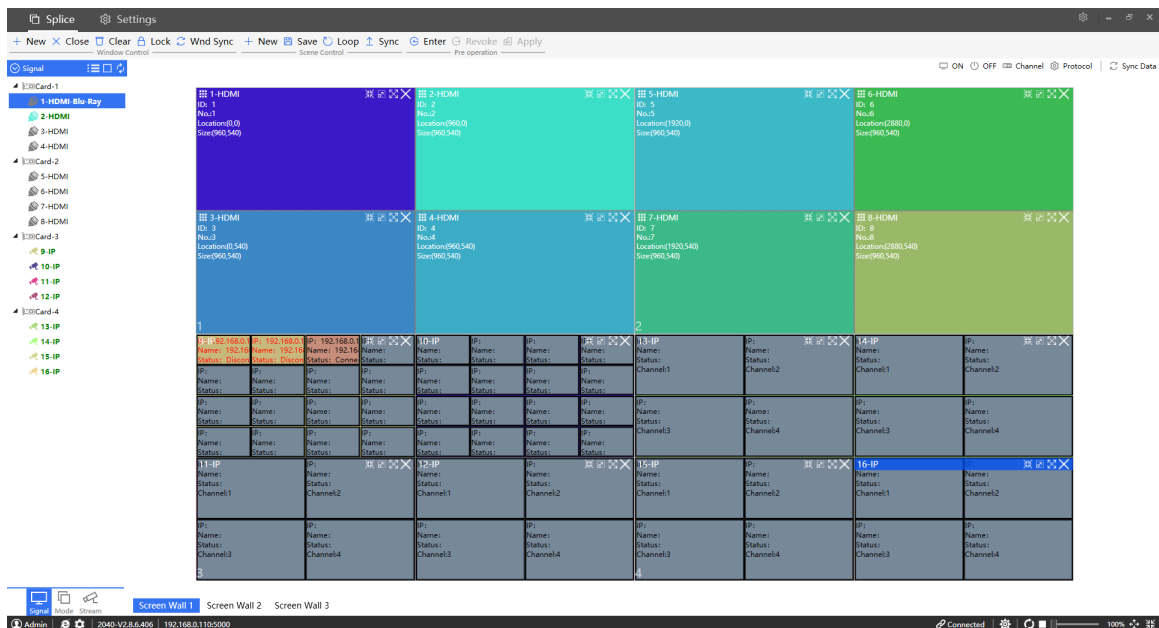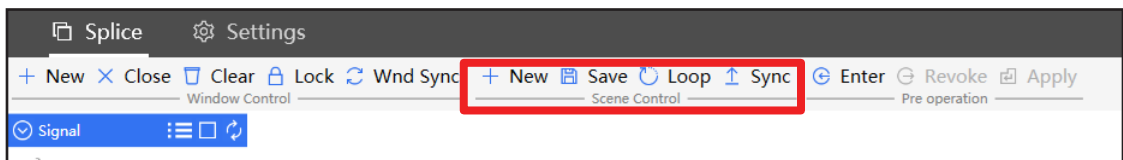
CONTROL OPERATION

Videowall Setup

4.2. Scene Control

- Scene control will let user operate & manage the display plan.

- **New:** User can automatically create 1-to-1 or 1-to-4 window layout based on the current input sources. User can customize the name of plan and add a description.
  For example, if you have 3 row and 3 column videowall layout and select 1-to-1, then each monitor will have 1 input. However, if you select 1-to-4, each monitor will have 4 inputs.
- **Save:** Save the current display layout (scheme) of videowall.
- **Loop:** Repeat the current display layout scene.
- **Sync:** Upload the updated display layout plan or download the current display layout plan (which is now displaying).
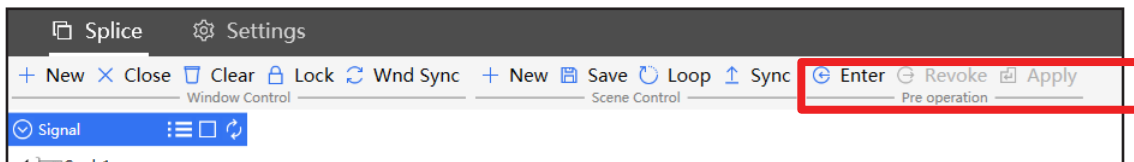
CONTROL OPERATION

Videowall Setup

4.3. Pre Operation

- This pre-operation is using for simulation. User can set & test display-contents that needs to be posted on the videowall.

- **Enter/Exit:** Enter or Exit the pre operation
- **Remove:** Undo the actions that have been pre-operated
- **Apply:** During operation, the pre-operational simulation will not take an effect immediately, it will take an effect all at once after click "**Apply**"
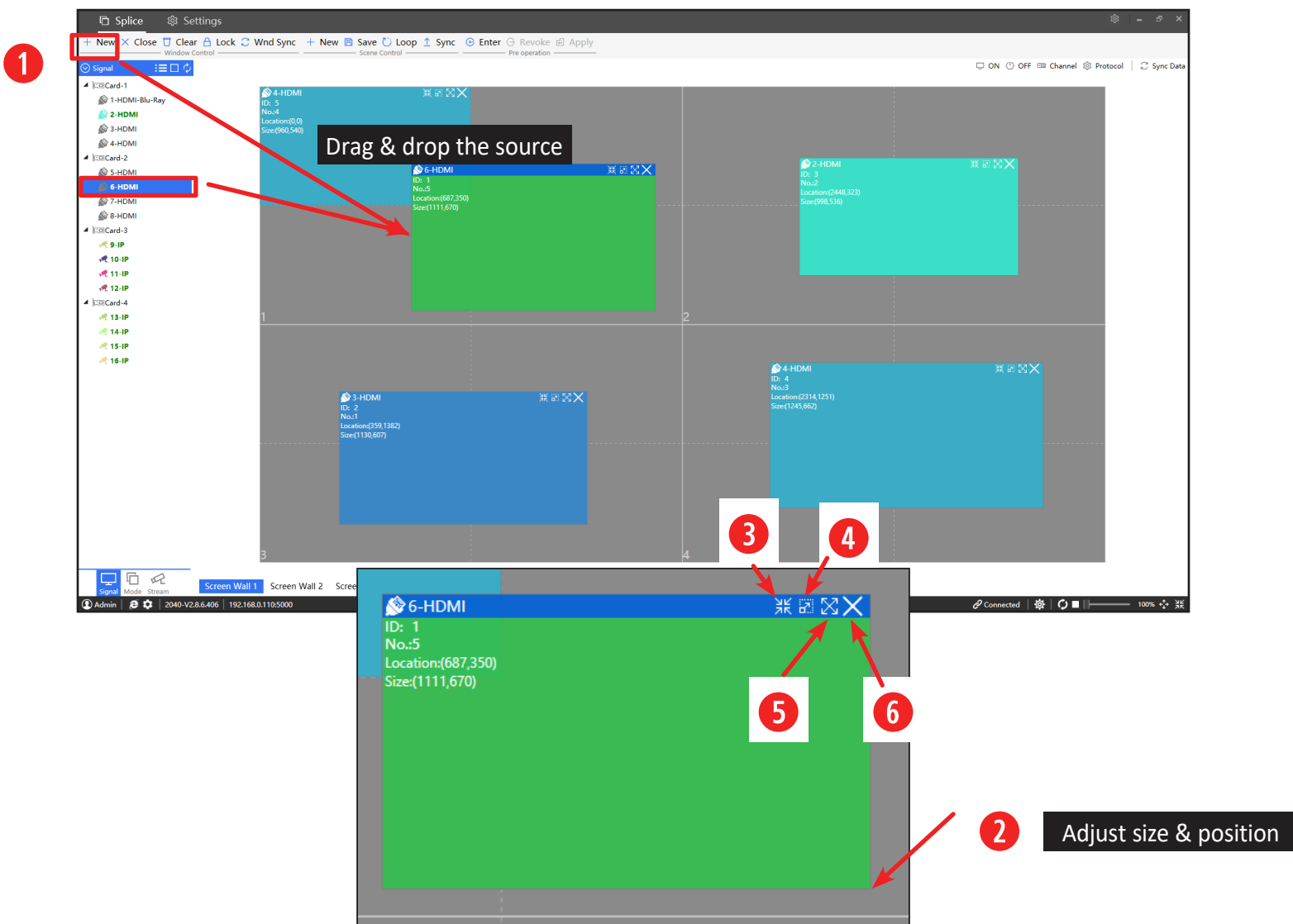
CONTROL OPERATION

Videowall Setup

4.4. Main Screen Layout Window

1. **New**: On Splice, click 'New' button to make a new souce on the videowall layout or drag the input source tab from from 'Signal Window'.
2. **Adjust**: User can resize the window size by dragging the frame of window and also adjust its postion.
3. **Back**: Go back previous status (Size & Position) of selected window
4. **Maximum**: Make the selected window as the maximum size
5. **Full Screen**: Make the selected window to fill the entire monitor area
6. **Close**: Close the selected window

CONTROL OPERATION

Videowall Setup

4.4. Main Screen Layout Window

7. **Right-click of the selected window**: user can edit the order of layer & etc.
Top: Move up the selected window on the top of all windows. It means the selected will not be hide
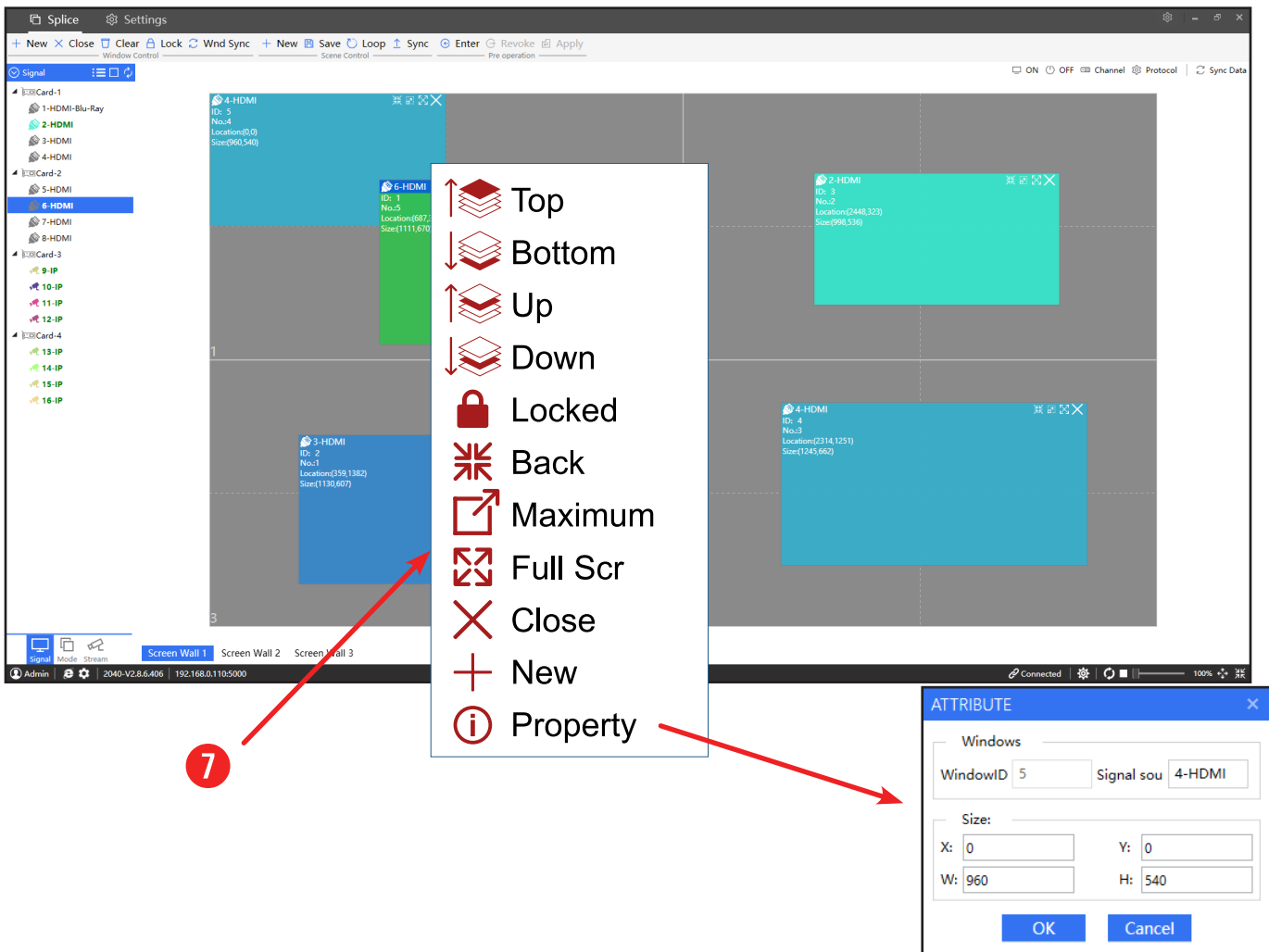**Bottom**: Move down the selected window on the bottom of all layers. It means the selected would be hidden by other layers
Up: Move up the selected window - 1 level higher
Down: Move down the selected window - 1 level lower
Locked: Lock up the selected window
Back: Go back to the previous size or position of selected window

CONTROL OPERATION

Videowall Setup

4.4. Main Screen Layout Window

Maximum: Make the max size of selected window. If the selected window size is smaller than 1 monitor, the selected window will fit into 1 monitor size. If the selected window size is bigger than 1 monitor size and overlap in 4 monitors, the selected window will fit into 4 monitor size.
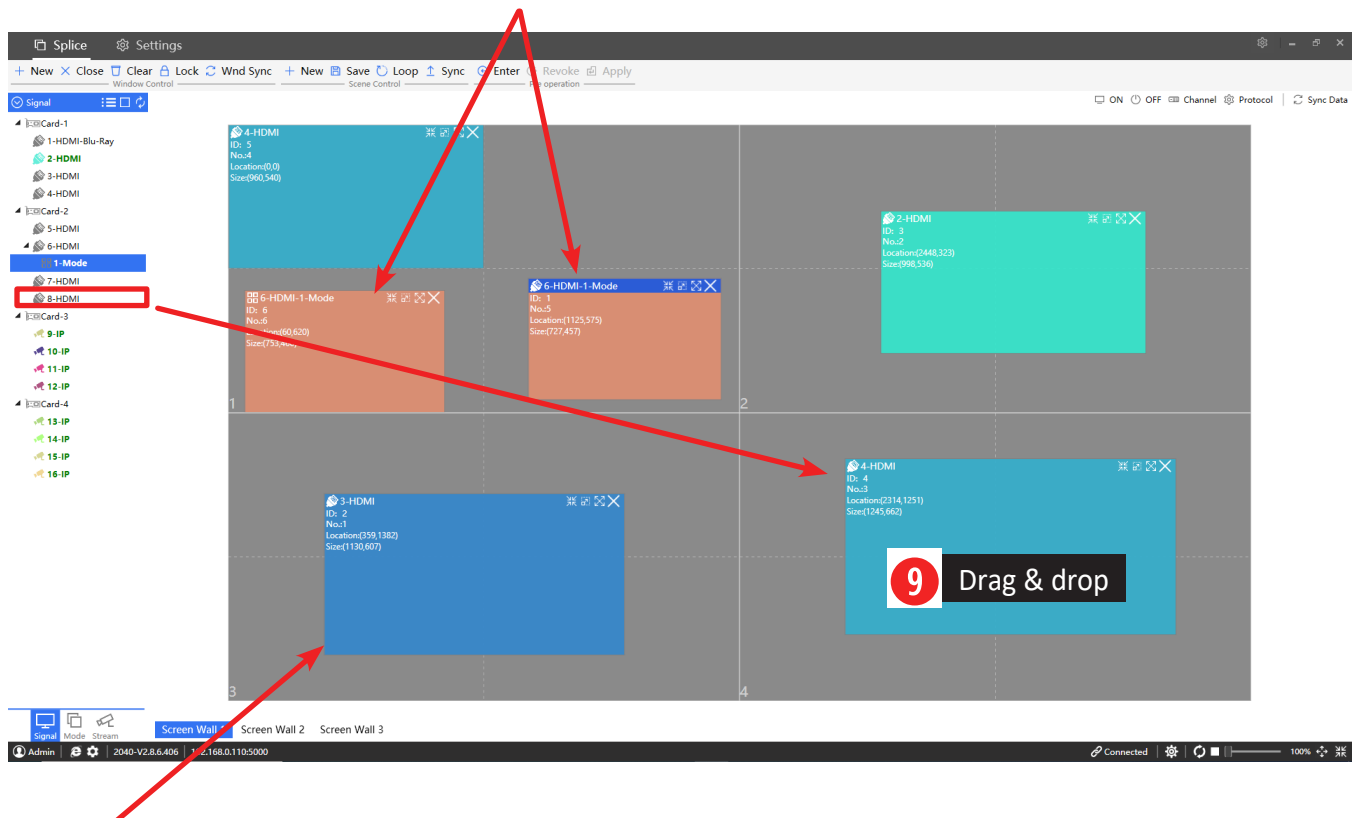**Full Scr**: Make the selected window cover the entire videowall
Close: Close the selected window
New: Create a mode of selected window. Refer to 'Mode' section.
Property: Show the selected windows information - size, location, signal input and ID

8. **Double-click the selected window:** the selected window will fit into the full or restore the original size.
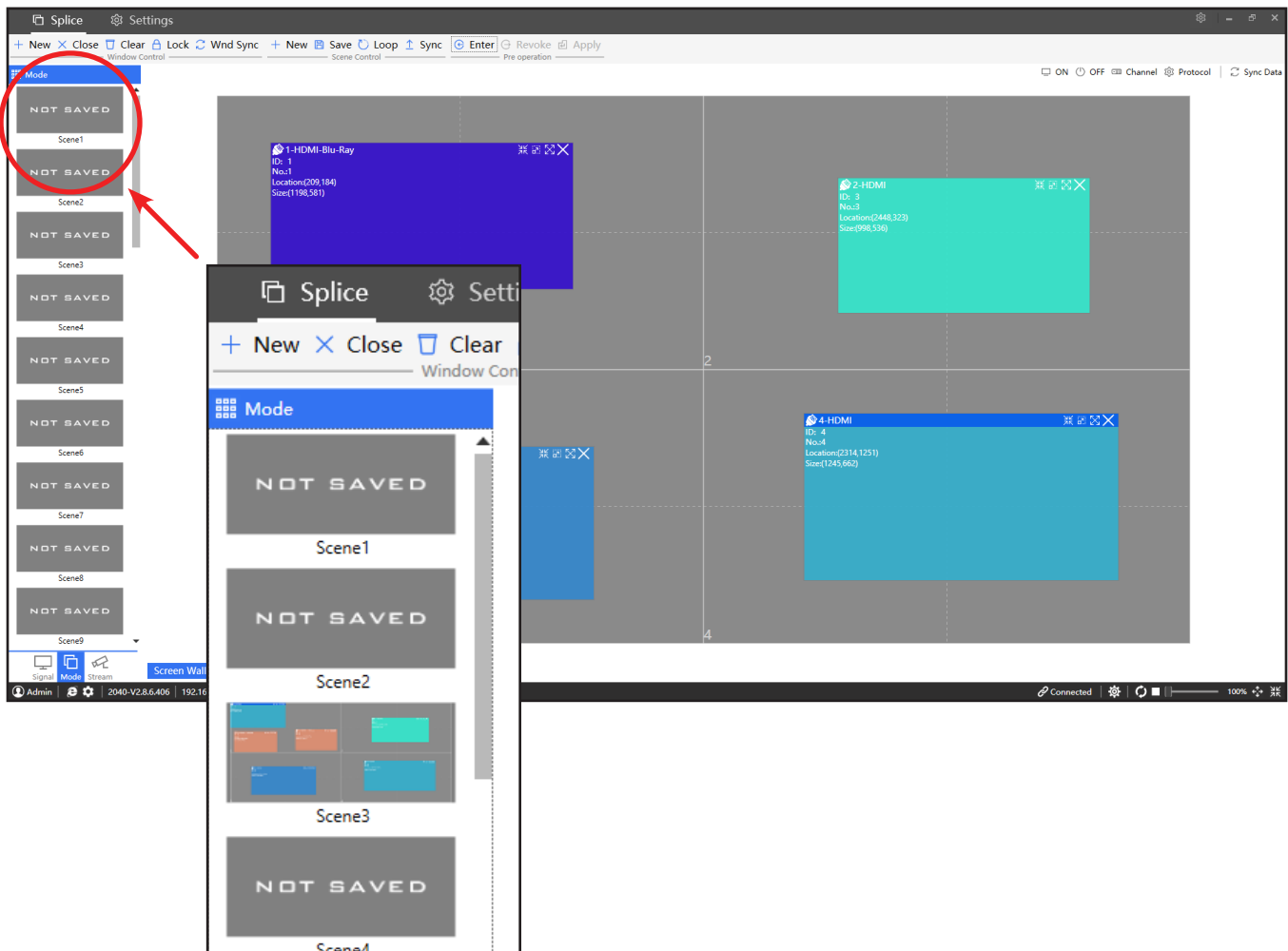9. **Replace an input source:** if user drag & drop the new input source into the selected window, the input of selected window will be changed.

CONTROL OPERATION

Videowall Setup

5.1. Plan Mode

- User can make a schedule for playing different layout of input sources. By using 'Mode', user can easily create, save or update the layout and make the schedule for playing.
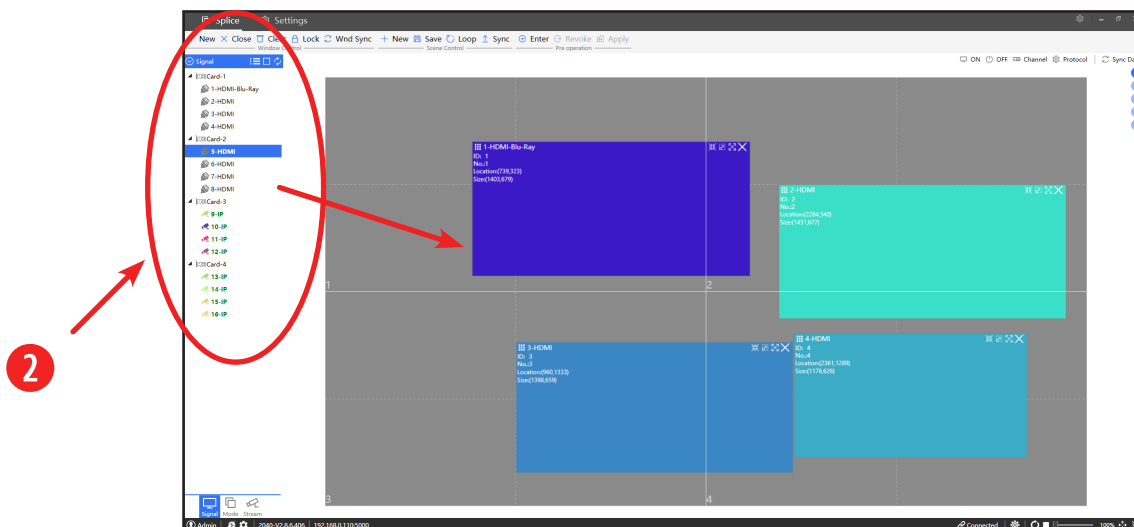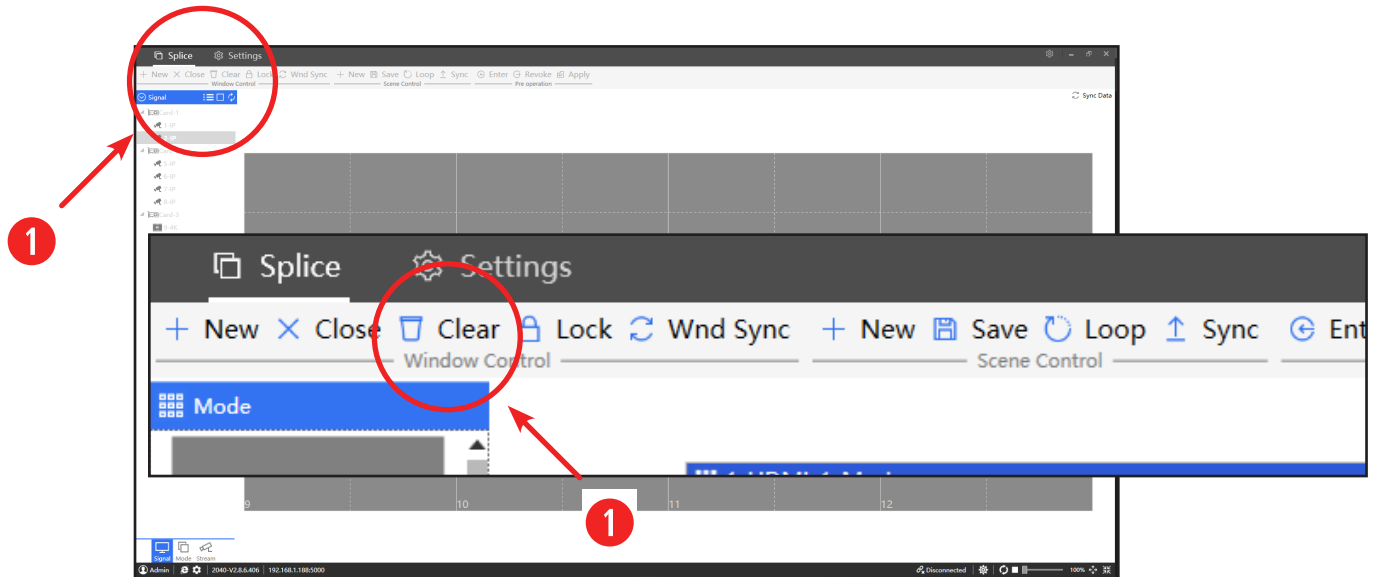
CONTROL OPERATION

Videowall Setup

5.1. Plan Mode - Create a Scene

- Please follow the step to use **Mode** function**;**

1. On Menu, click 'Clear' button to create empty layout.
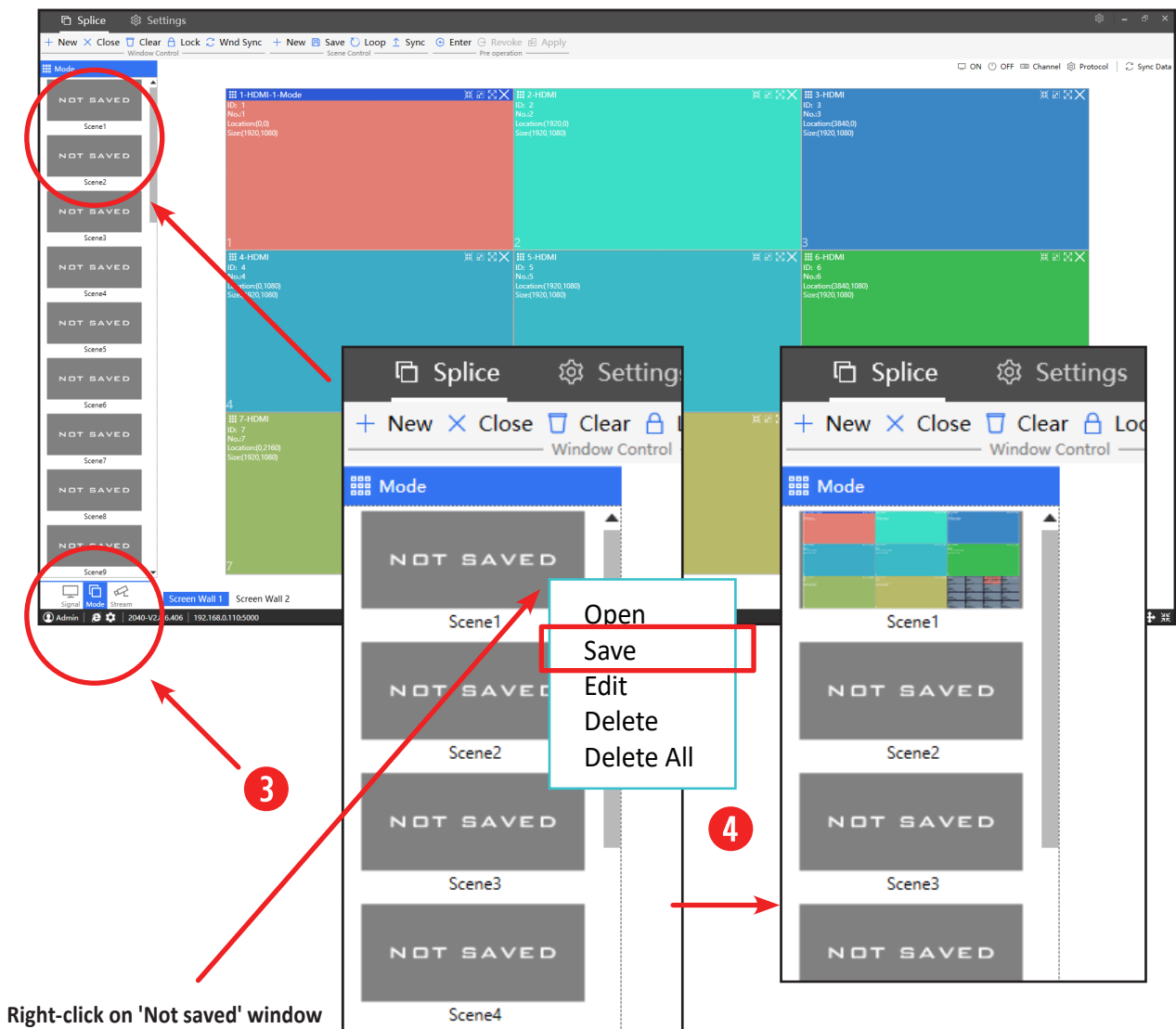2. Create a layout with input source windows

CONTROL OPERATION

Videowall Setup

5.1. Plan Mode - Create a Scene

3. When you done with layout position & size, select the **Mode** tab (left panel) and mouse over the '**Scene #**' area.
4. Right-click on the 'Scene #' panel and then you can save the current layout in any 'Not Saved' scene panel.


Right-click on 'Not saved' window

CONTROL OPERATION

Videowall Setup

5.2. Plan Mode - Edit / Delete

5. If you need to update '**Scene (layout) name**' and add description, right click on the desired scene and click '**Edit**'. Then, '**Scene**' window will popup.

6. User can also delete a scene or all scenes.

7. The saved scene will be also showing on the top-right cornet. These are shortcut and you can load these in anytime - click the circled number.
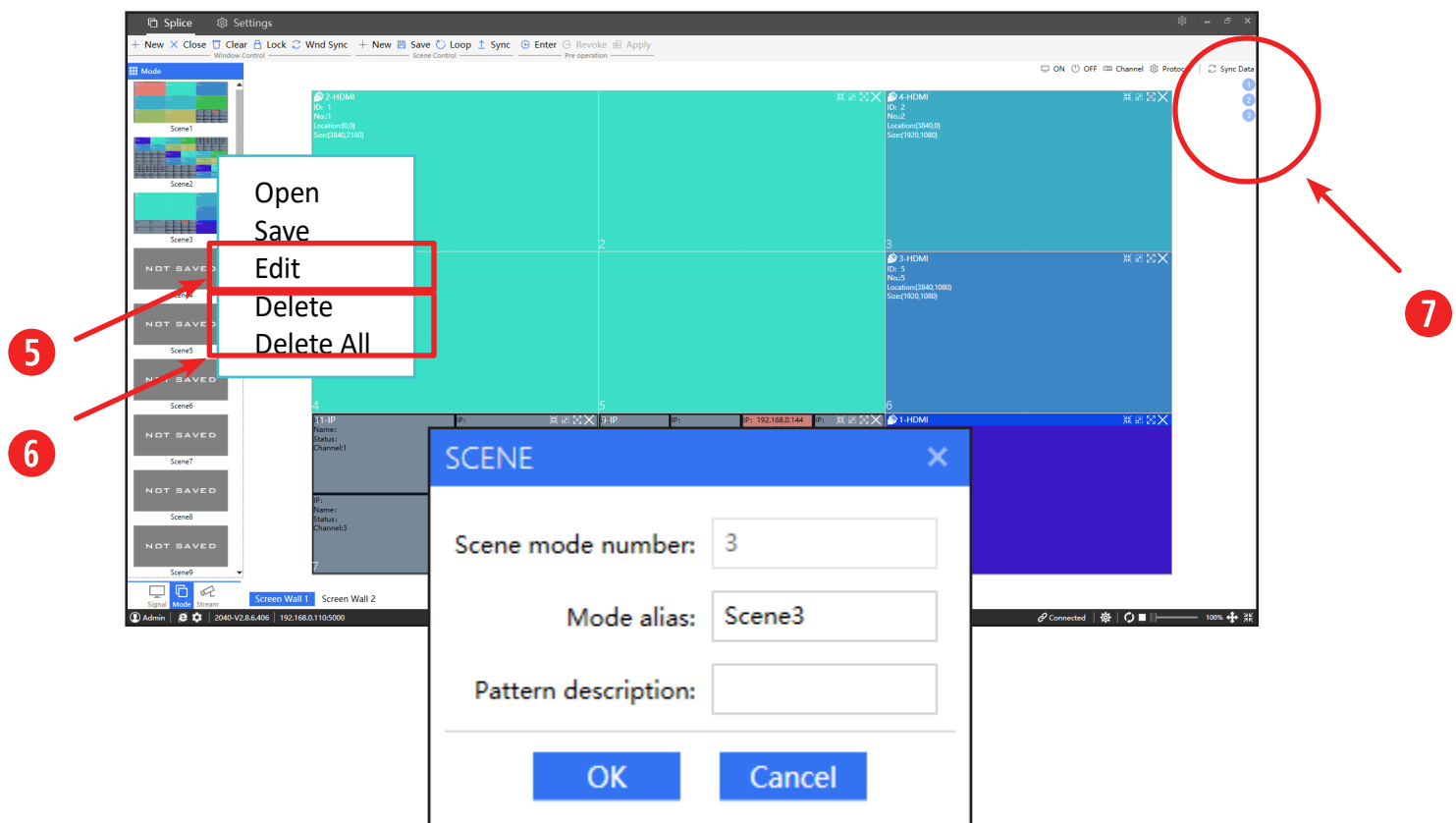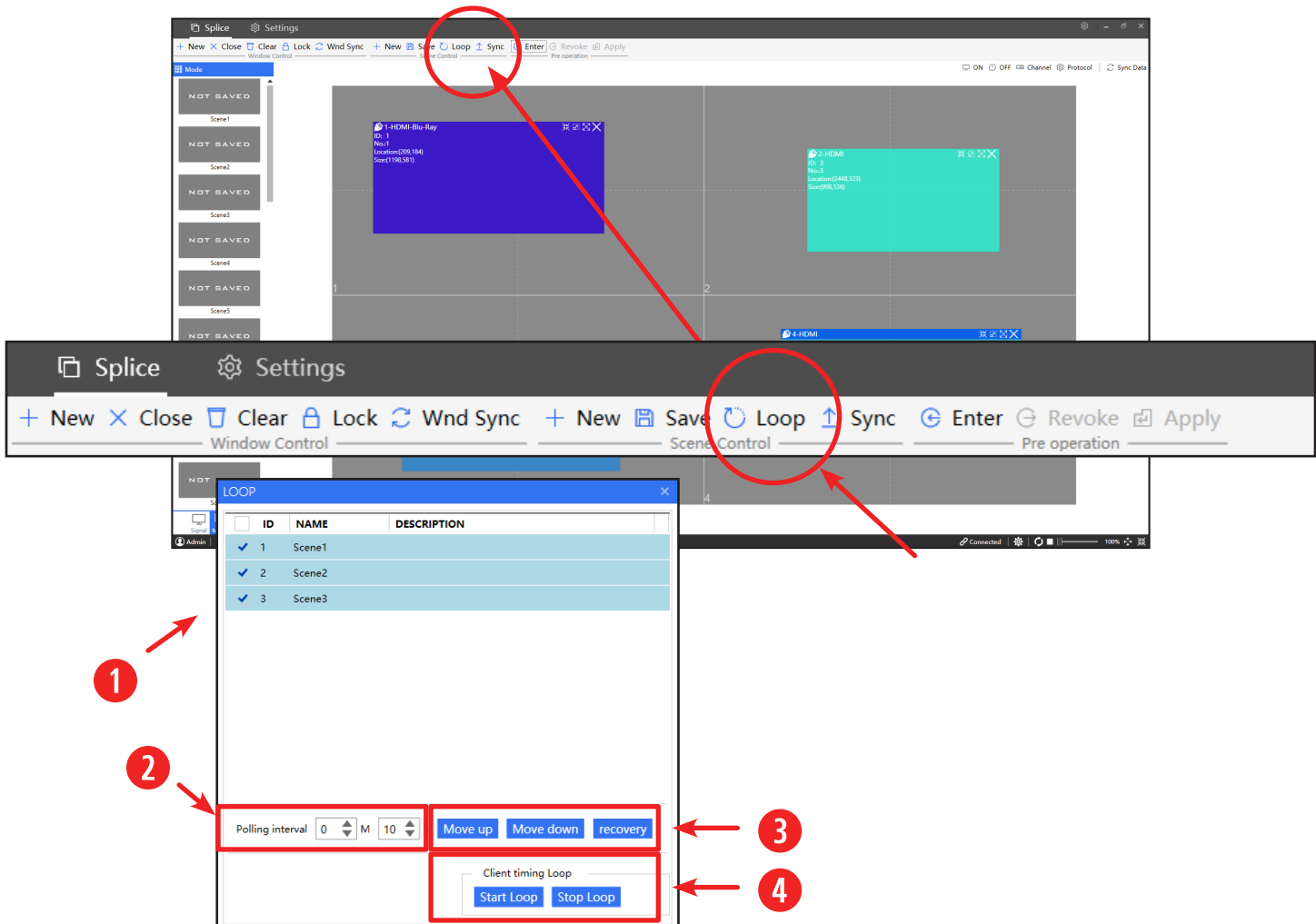
CONTROL OPERATION

Videowall Setup

5.3. Plan Mode - Loop

- By using **Mode** function, user can make the scheduled display.
- On **Splice**, click '**Loop**' on **Scene Control.**
- On **Loop** window, select the desired scenes, set the time interval, make the scene order and click '**Start Loop**' to play scenario.

1. **Scene**: saved scene will be listed here
2. **Polling interval**: the looping time per scene. If you setup this as 20sec, Scene 1, 2 & 3 will be changing per 20 sec. The minimum time interval is 10 sec.
3. **Move up & down**: the selected scene will be going up or down on the list
   Recovery: reset the list as the basic order
4. **Start & Stop Loop**: start or stop the loop

CONTROL OPERATION

Videowall Setup

5.3. Plan Mode - Sync

- After setup of the scene, user can check the selected scene on the actual monitor. Or user can make the scene from the current display of actual monitor.

1. On **Splice**, click '**Sync**' on **Scene Control.**
2. On **Sync** window, select the desired scenes and click '**Sync scenes**' button to upload the current scene (on the DIMS-Client SW) to the acutal monitor.
3. On **Sync** window, select the desired scenes and click '**Read scenes**' button to download & write the data to the selected scene. Then, the selected scene will show the current display of actual monitor layout.

   For example, the selected scene (on Sync window) is #2 and the actual monitor's layout display #3 scene.
   When user click 'Read scenes' button, the current display (scene #3) will overwrite and scene #2 will be erased.
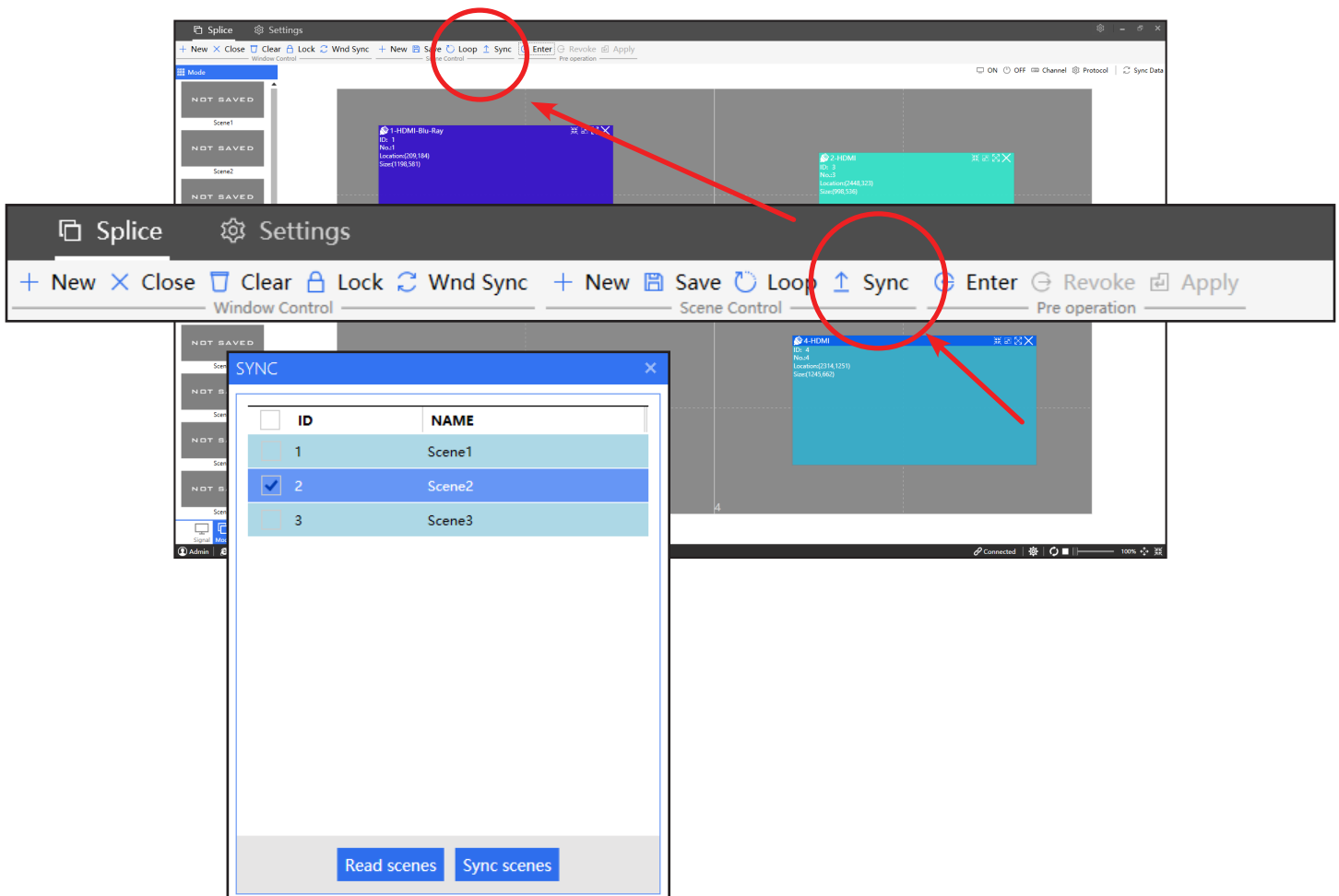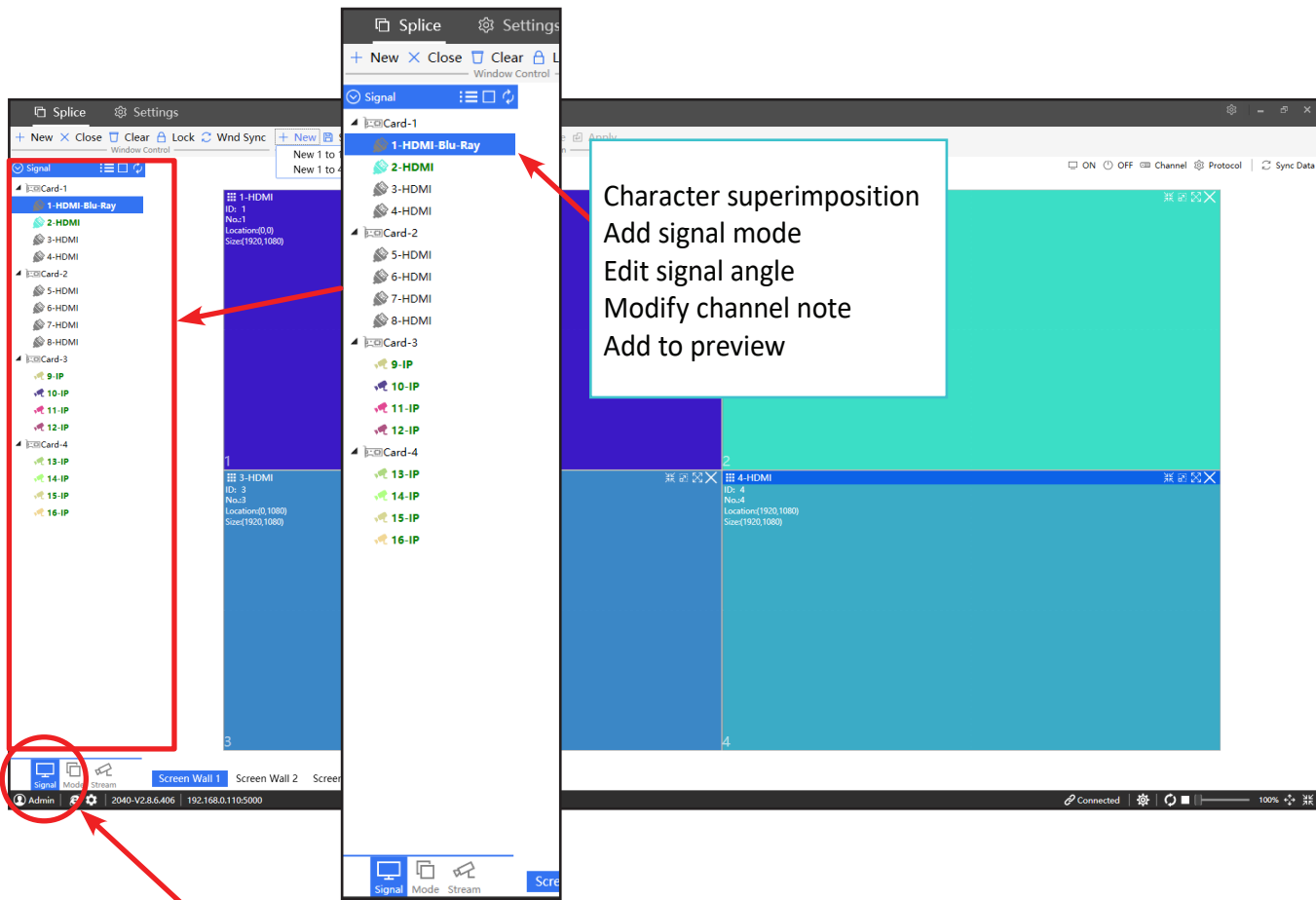
CONTROL OPERATION

Videowall Setup

5.4. Input Source Option

- User can add scrolling text over the display, add input-source mode, change the angle of input-source, add/update input-source note and make a preview of selected input-source.
- On **Signal**, select a desired input-source and right click the selected input-source. Then, option window will popup.

1. **Character superimposition**: the selected input-source will display the character overlay.
2. **Add signal mode**: user can crop the selected input-source and show the desired area only.
3. **Edit signal angle:** user can change the display angle of input-source.
4. **Modify channel note**: user can add the description on input-source name.
5. **Add to preview**: add the selected input-source on preview.

Character superimposition
Add signal mode
Edit signal angle
Modify channel note
Add to preview

CONTROL OPERATION

Videowall Setup

5.4. Input Source - Text Overlay

• Character superimposition - character overlay on input-source window or side by side display

1. **Channel Number**: input source number
2. **Sub Channel**: input source sub number
3. **X & Y**: Horizontal & vertical postion by pixel
4. **Width & Height**: character display area size by pixel
5. **Wide & High Area**: system will display based on width & height
6. **Foreground & Background**: font & background color
7. **Font Family**: select a font of character - Consolas, Impact and Times New Roman
8. **Overlay mode**: **Non overlapping character** (character will not be overlapping), **Transparent overlay character** (display character only), **Opaque overlay character** (display character with background color)
9. **Stack stiring**: type the character what you want to display
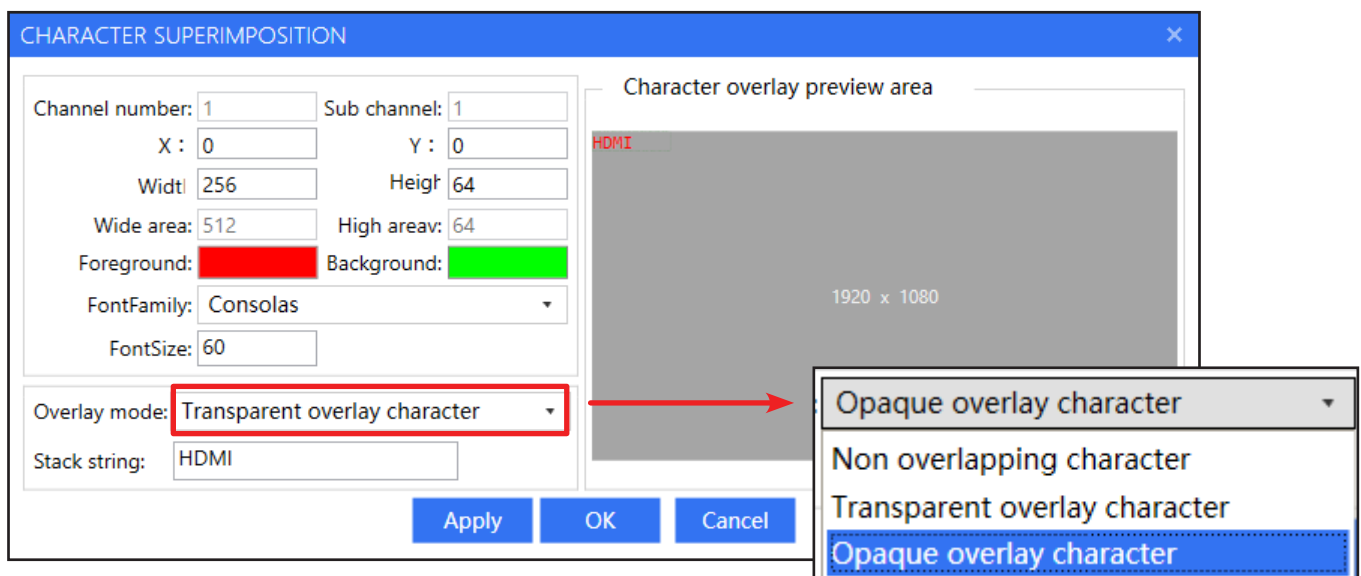
CONTROL OPERATION

Videowall Setup

5.4. Input Source - Add Mode

• Add signal mode - user can crop the input source and display the desired area only.

1. Select the input-source and right click to popup an option window.
2. Click '**Add signal mode**', then '**ADD SIGNAL MOD**E' window will popup.
3. User can type the **horizontal & vertical starting point** (to crop the input-source) and size of window.
4. User can type any name on **Mode name**.
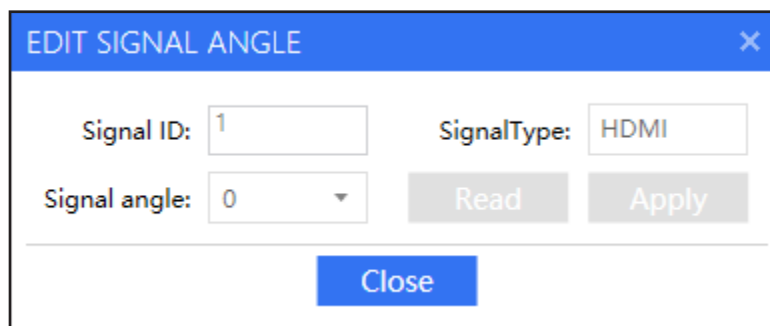5. Click '**OK**' to add it. And drag & drop the mode (under input-soruce) to the main screen.
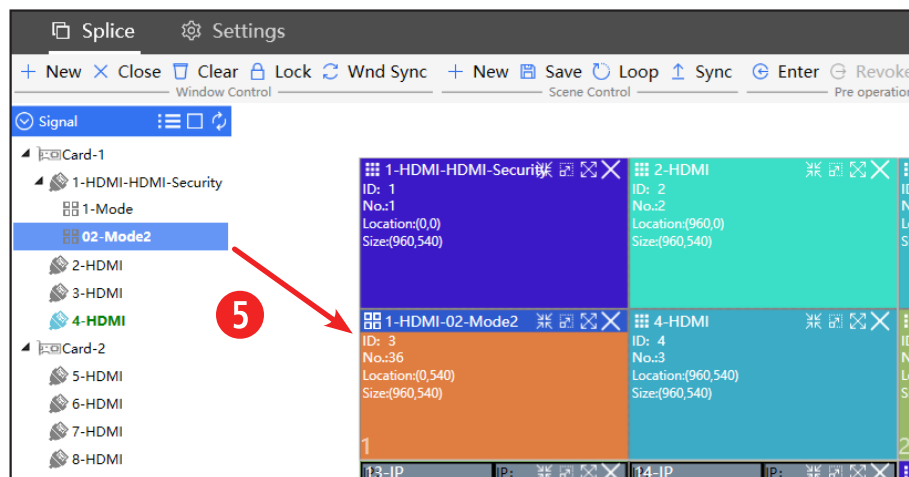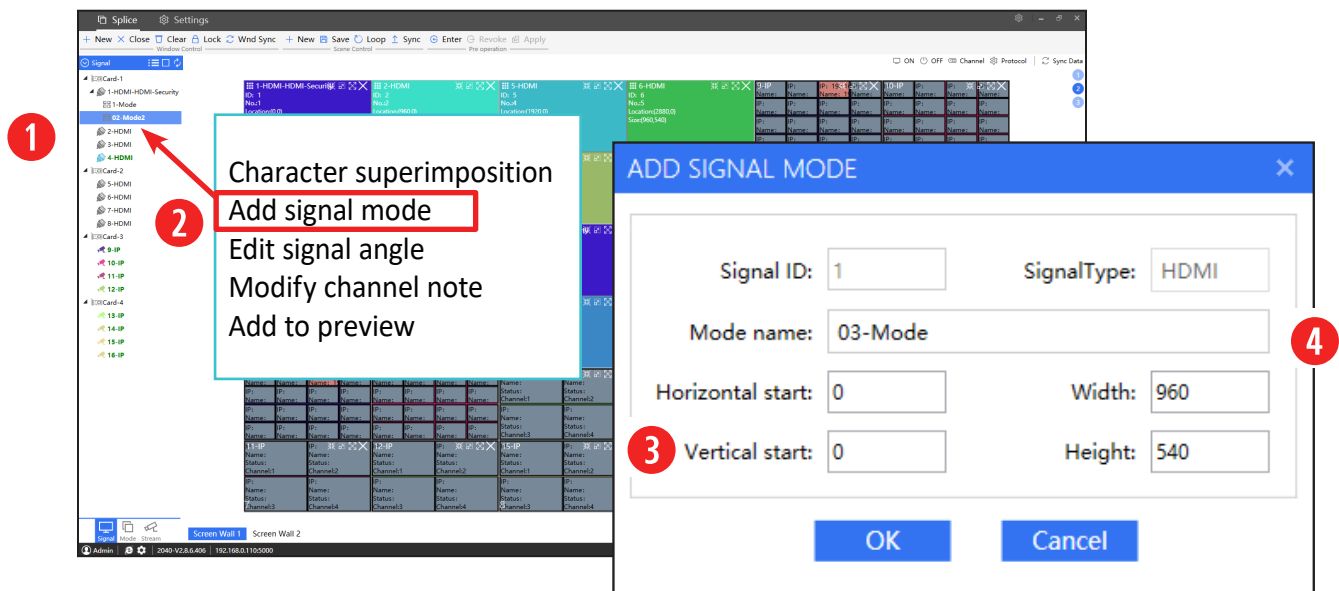
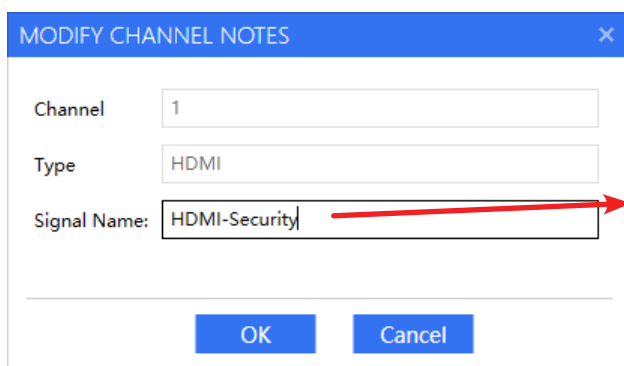# CONTROL OPERATION

Videowall Setup

5.4. Input Source - Change Angle & Channel Note

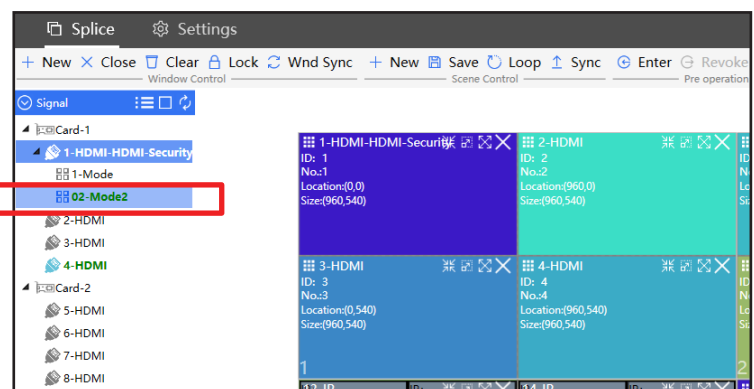- Edit signal angle - input-source can be angled by this function. It's only supported by special order.

- Modify channel note - input-source can be angled by this function.
  On 'Modify channel notes' window, user simply type the signal name and click 'OK' to apply it.
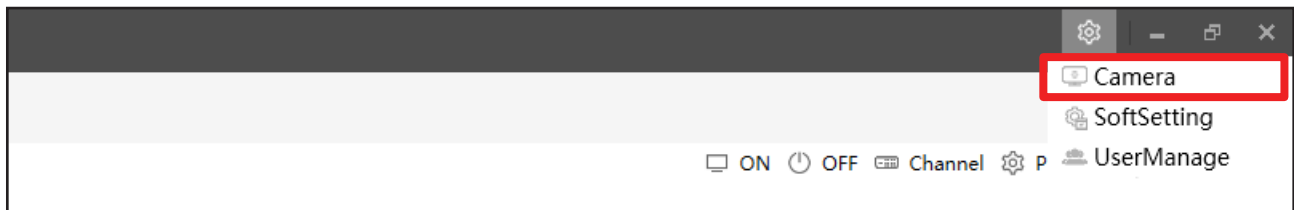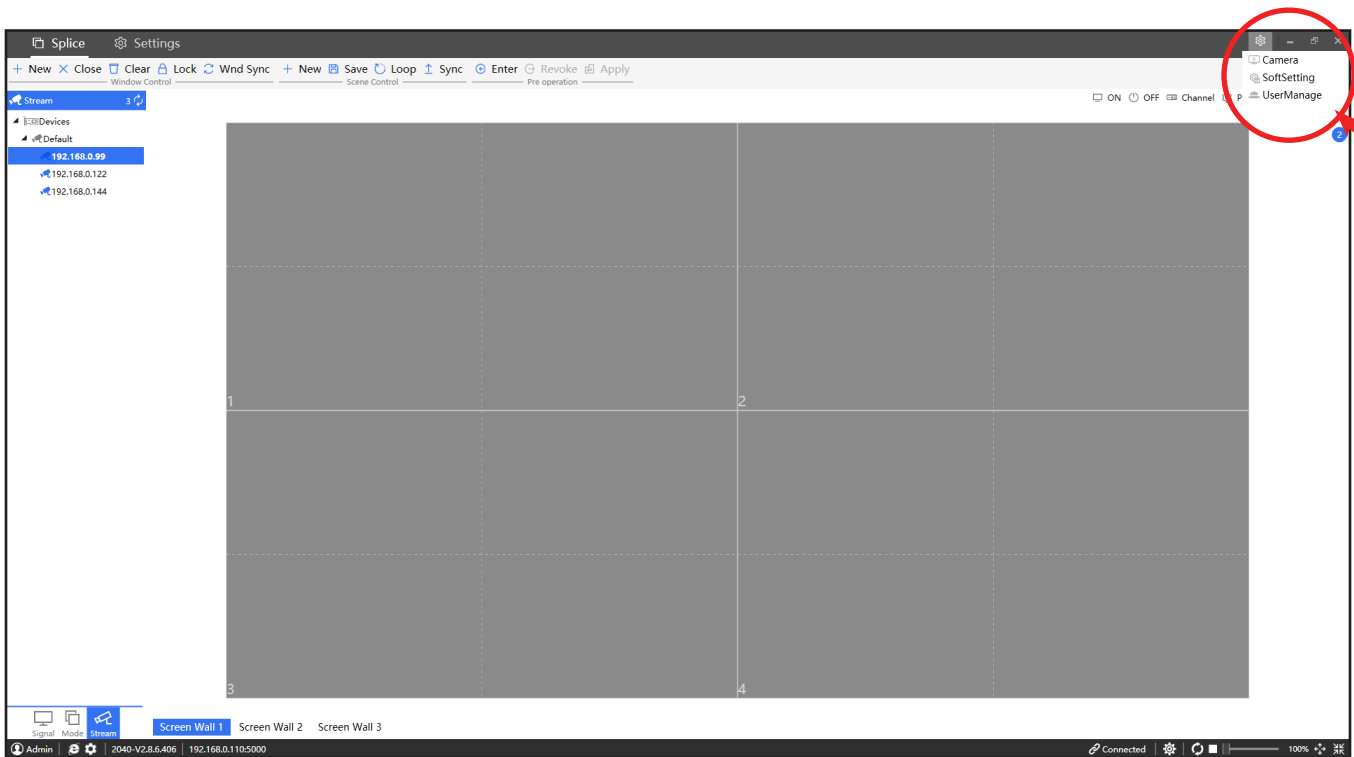

- Add to preview - selected input-source will be added into the preview

CONTROL OPERATION

IP Camera - Option

5.5. Input Source - Add IP Camera

- This function let user add the IP camera onto the software

  1. On DIMS-Client software, click **Gear** icon at the right-top corner. Then, you will see 3 options.
  2. Click 'Camera' icon, then 'Network Equipment' window will popup

CONTROL OPERATION

IP Camera - Option

5.5. Input Source - Add IP Camera

3. On Network Equipment window, click 'Search for Onvif' button
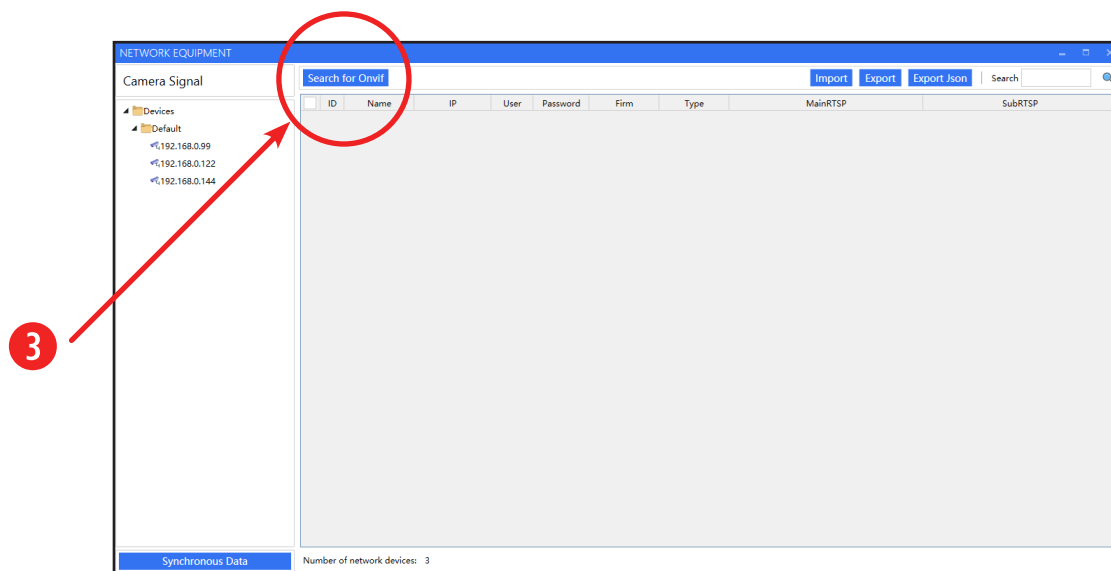
4. On Search for Onvif window, click 'Search' button
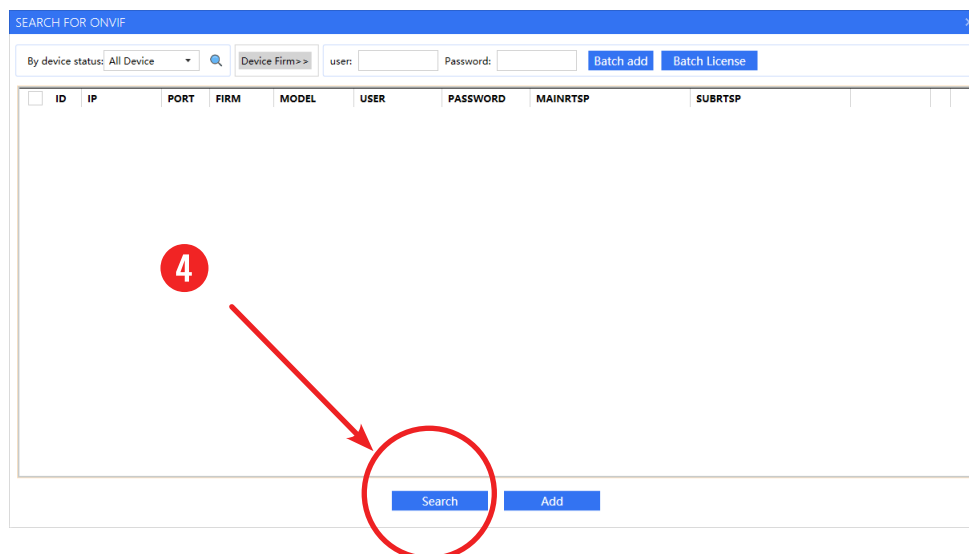
CONTROL OPERATION

IP Camera - Option

5.5. Input Source - Add IP Camera

5. When you click the 'Search' button, DIMS-Client software will find every IP camera under the same network.
6. You can add the camera by clicking 'Add' button
7. You can also add the camera by 'Batch Add'. If your camera is required to get ID & password, please type here.
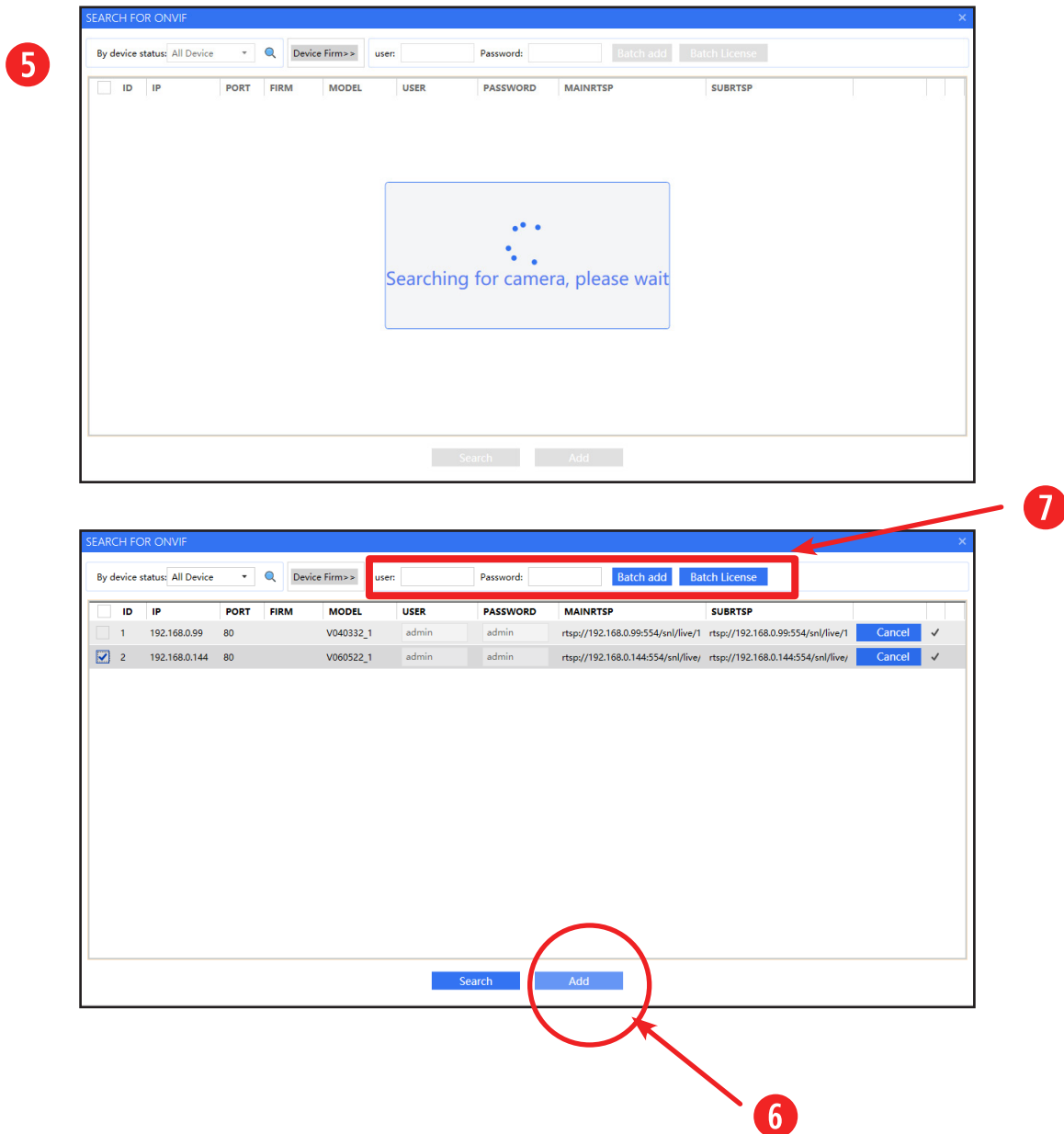
CONTROL OPERATION

IP Camera - Option

5.5. Input Source - Add IP Camera

• After adding the camera, you should click 'Synchronous data' in the lower left corner to add these camera into the system.

• You can check the added IP camera on the **Stream** tab. If you see the added IP camera, it's ready to use it.

ViewZ

TROUBLESHOOTING GUIDE

- Check the following before calling for service.
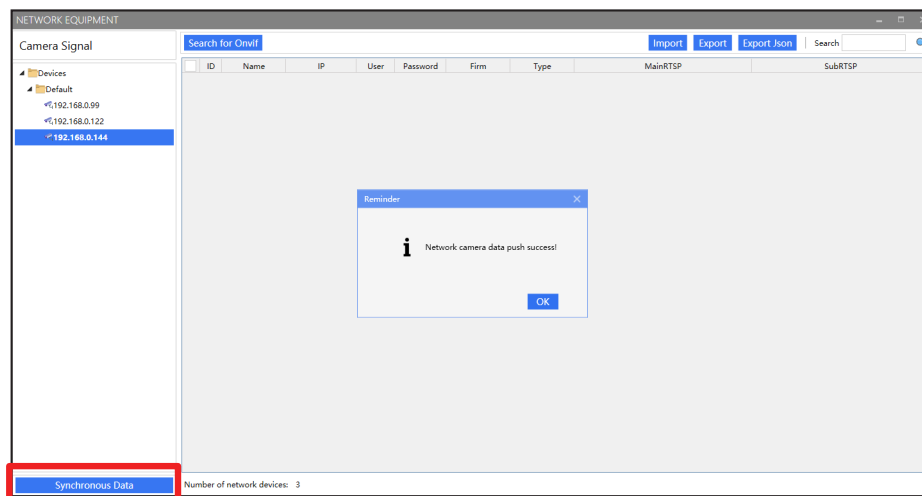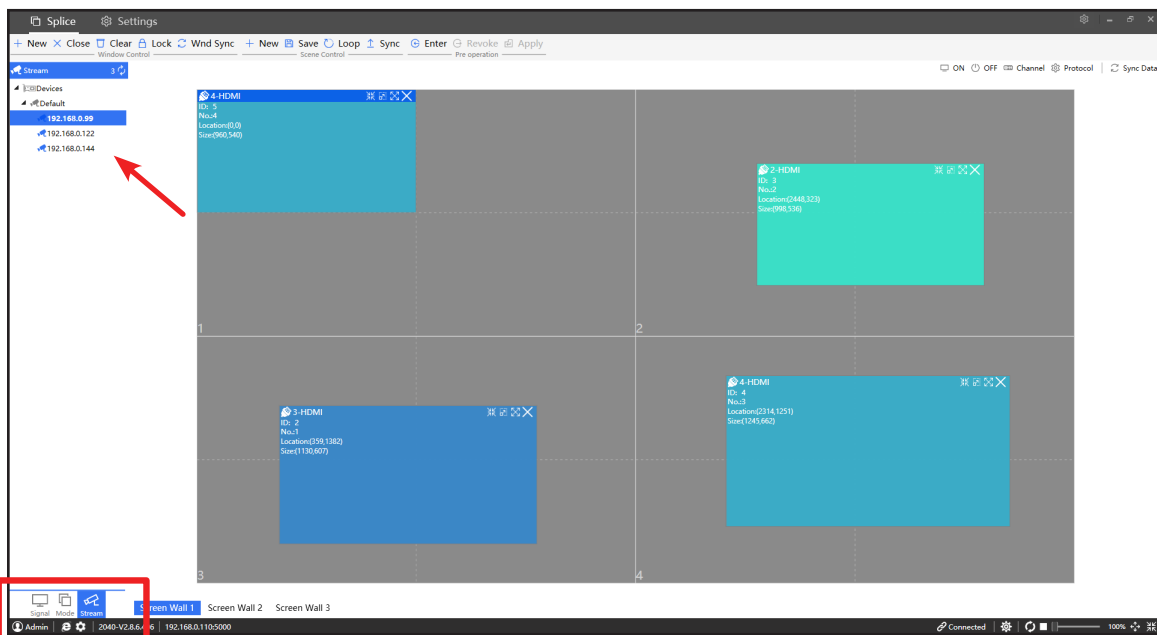- If the same problems continue after checking, contact the reseller you purchased the controller from.

At start	Use this troubleshooting guide to help fix issues you have. If symptom persists, follow the instructions below. After following the instructions below, please contact your reseller or call us at 1-888-99-VIEWZ.
The source layer creation fails in a simple scenario, and nothing is displayed on the screen	Click the reset button (on the back of controller) or check the input souce
Power light is off	Check if the power cable is plugged in firmly
Big screen black	Check if the corresponding video connection of the device is reliable
Board stuck abnormally	Power off and restart, if you can't solve the problem, please contact your supplier
Video input source detection is invalid	Check the video input card is securely installed or the video input format is supported
Unable to start	Please reset the power and check it. If the controller is still not recovered, please contact your supplier.
Videowall Control SW cannot connect VZ-PRO Controller	Please check the network address, both VZ-PRO Controller and Local Videowall Control PC, is located in the same network. Ex. both devices should have like 192.168.0.XXX & 192.168.0.XX

Please check the cable connection. |

❗ Caution

• Before contacting us, please find out the product name/model and serial number.

NOTE

WARRANTY

ViewZ USA
LIMITED 3 YEAR WARRANTY

What and Who is Covered by this Limited Warranty and for How Long
ViewZ USA warrants this product to be free from defects in material and workmanship for 3 years to the original owner of this product. The limited warranty is valid only for the original purchaser of the product.

What ViewZ USA Will Do
At the sole discretion of ViewZ USA, ViewZ USA will repair or replace any product or product part that is defective. If ViewZ USA chooses to replace a defective product or part, a replacement product or part will be shipped to you at no charge, but you must pay any labor costs.

What is Not Covered; Limitations
ViewZ USA disclaims any liability for damage to mounts, adapters, displays, projectors, other property, or personal injury resulting, in whole or in part, from improper installation, modification, use or misuse of its products.

ViewZ USA disclaims all other warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. ViewZ USA is not responsible for incidental or consequential damages, including but not limited to, inability to use its products or labor costs for removing and replacing defective products or parts. Some states do not allow the exclusion or limitation of incidental or consequential damage, so the above limitation or exclusion many not apply to you.

What Customers Must Do for Limited Warranty Service
If you discover a problem that you think may be covered by the warranty you MUST REPORT it in writing to the address below within thirty (30) days. Proof of purchase (an original sales receipt) from the original consumer purchaser must accompany all warranty claims. Warranty claims must also include a description of the problem, the purchaser's name, address, and telephone number. General inquiries can be addressed to ViewZ USA Customer Service at 1-888-998-4399. Warranty claims will not be accepted over the phone or by fax.

> ViewZ USA
> Attn: Warranty Claim
> 177 W. Orangethorpe Ave.
> Placentia, CA 92870

How State Law Applies
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Disclaimer

ViewZ USA intends to make this manual accurate and complete. However, ViewZ USA makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this monitor. The information contained in this document is subject to change without notice or obligation of any kind. ViewZ USA makes no representation of warranty, expressed or implied, regarding the information contained herein. ViewZ USA assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

Contact Us

NORTH AMERICA
177 W. Orangethorpe Ave.
Placentia, CA 92870
USA and Canada

rma@viewzusa.com
Phone: 1-888-998-4399
Fax: 1-714-996-1138

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