

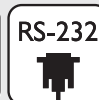


Control Your Video

**VIDEO WALLS VIDEO PROCESSORS
VIDEO MATRIX SWITCHES
EXTENDERS SPLITTERS WIRELESS
CABLES & ACCESSORIES**

SOFTWARE MANUAL

Model: XXX-AVXWALL-PLUS



4K Modular Video Wall Processor

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Revision History		
Rev.	Changes	Date
0.00	Initial Release	02/01/2018



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I. BEFORE INSTALLATION

ATTENTION

- To prevent airflow restriction, allow clearance around the ventilation openings to be at least: ONE Inch (25.4 mm).
- Unauthorized changes or modifications could void the user's authority to operate the equipment.
- Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.
- Place the product on an even and stable surface. If the product falls, it may cause an injury to a person or malfunction.
- Do not place the product in high temperatures (over 50°C), or low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the UTP/HDMI cable. It can cause malfunction.
- Keep the device away from water. If the unit becomes wet, power off immediately.
- Installation of the equipment must comply with local and national electrical codes.
- Take care when connecting units to the electrical power circuit, incase the maximum rated circuit is not overloaded

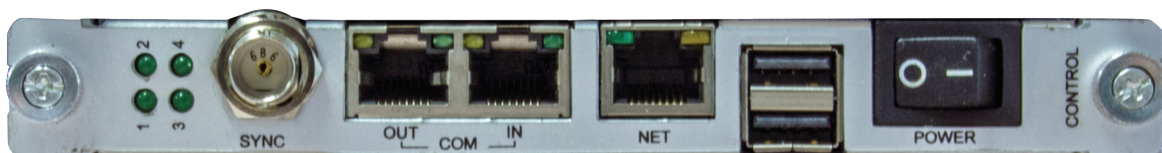
I.1 SETUP AND INSTALLATION

Before configuring your **AVXWALL+**, ensure that you have the following hardware:

- Windows PC or laptop
- UTP (Cat5e/6) Ethernet cable or USB to Serial device
- Latest version of the AVXWALL+ Controller software installed on your computer

To setup the Avenview AVXWALL+, follow these steps before configuring the device:

1. Turn off all connected devices including network switches, video sources and displays
2. Connect an ethernet cable from the RJ-45 port labeled NET to your computer or network switch
3. Connect the supplied RJ-45 to DB9 cable from the RJ-45 port labeled COM IN to your USB to Serial device if you intend to control the unit with serial commands
4. Ensure power cable is securely connected to the unit and plugged into an available outlet
5. Ensure all other cables are securely connected to the unit
6. Ensure the network settings of your computer are properly configured (see next section)



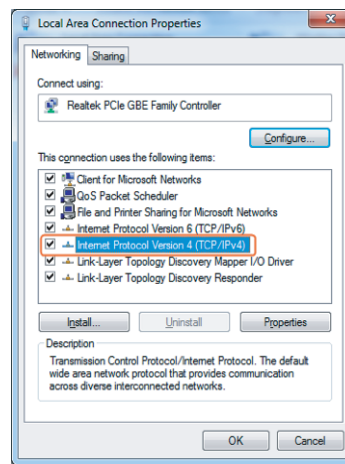
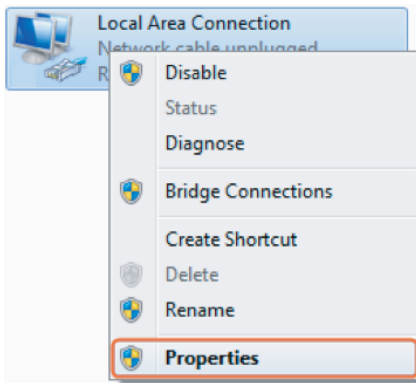
1.2 SETTING A STATIC IP ON YOUR COMPUTER

Before logging in to the AVXWALL+ via the Controller software or TELNET, ensure that your computer or controller and AVXWALL+ are on the same network segment.

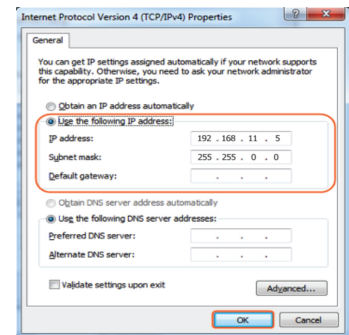
The default IP address of the AVXWALL+ is 192.168.1.65, port 2000.

Set your IP address in the 192.168.1.x range with a subnet mask of 255.255.255.0. To do this on a Windows PC, follow the instructions below:

1. Click **Start** menu, go to **Control Panel > Network and Sharing Center > Change Adapter Settings > Local Area Connection**. Right click and choose **Properties**.
2. Select **Internet Protocol Version 4 (TCP/IP)** then click **Properties**



3. Check **Use the following IP address**, for the IP address enter **192.168.1.x** (if unsure use 192.168.1.5) Enter subnet mask number **255.255.255.0** Click **OK**, then click **OK** again.



1.3 ENABLING TELNET CLIENT

You will need a Telnet client before logging in to the keypad. Make sure that the Telnet Client is enabled or you can download the terminal emulator program 'putty' from putty.org. By default the Telnet Client is disabled in Windows 7. Follow these instruction to enable the Telnet Client.

1. Choose **Start > Control Panel > Programs**.
2. In **Programs and Features**, click **Turn Windows features on or off**.
3. In **Windows Features** dialog box, select **Telnet Client** check box.



2. CONTROLLER SOFTWARE OVERVIEW

CONNECTION AND LOGIN

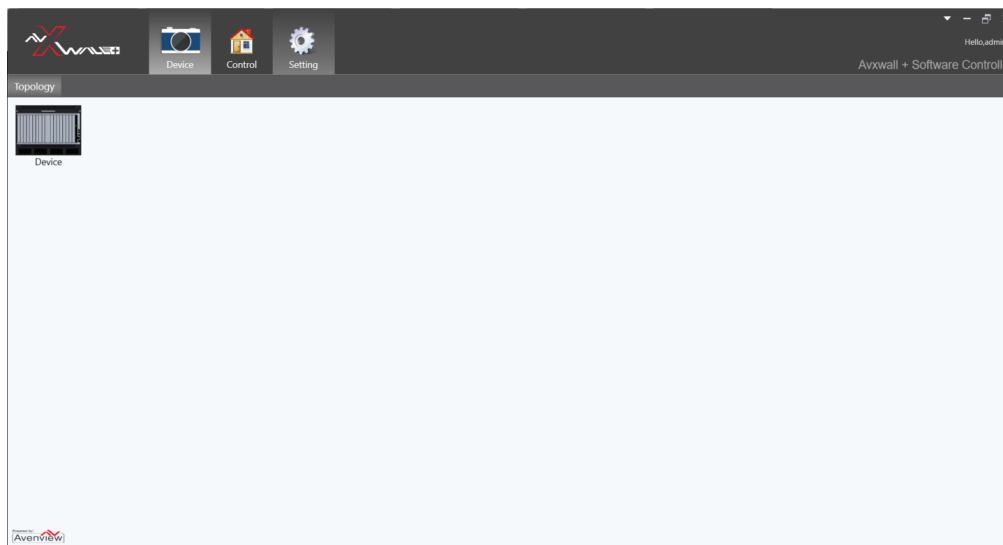
Start the AVXWALL Controller software and login into the unit with the following credentials:

User: admin

Pswd: 123456



You will be presented with the main screen below



Terminology	Description
Window	A section of the videowall dedicated to a one signal or signal group.
Channel	Any one of the video inputs to the AVXWALL+.
Screen	A collection of TVs or LED panels arranged in a videowall. Maximum of 4.
Scene	A specific collection of windows, channels and screens. The configuration of your AVXWALL+. Can be saved and recalled.



2. CONTROLLER SOFTWARE OVERVIEW (CONT)

MAIN SCREEN

There are 4 tabs which allow access to all user controls



1. Device - This section allows the Admin to setup all videowall parameters including:

- View the hardware configuration of the AVXWALL+
- Configure I/O cards
- Configure network settings
- Add video wall and screen configurations

2. Control - When the AVXWALL+ center control system is installed (optional) this section allows control of:

- Lighting systems
- IR devices
- Network settings
- Add video wall and screen configurations

3. Settings - This section allows the Admin to change system configurations such as:

- User management
- System password
- Firmware updates
- Download/upload videowall configurations
- Add/update input license files for IP decode card

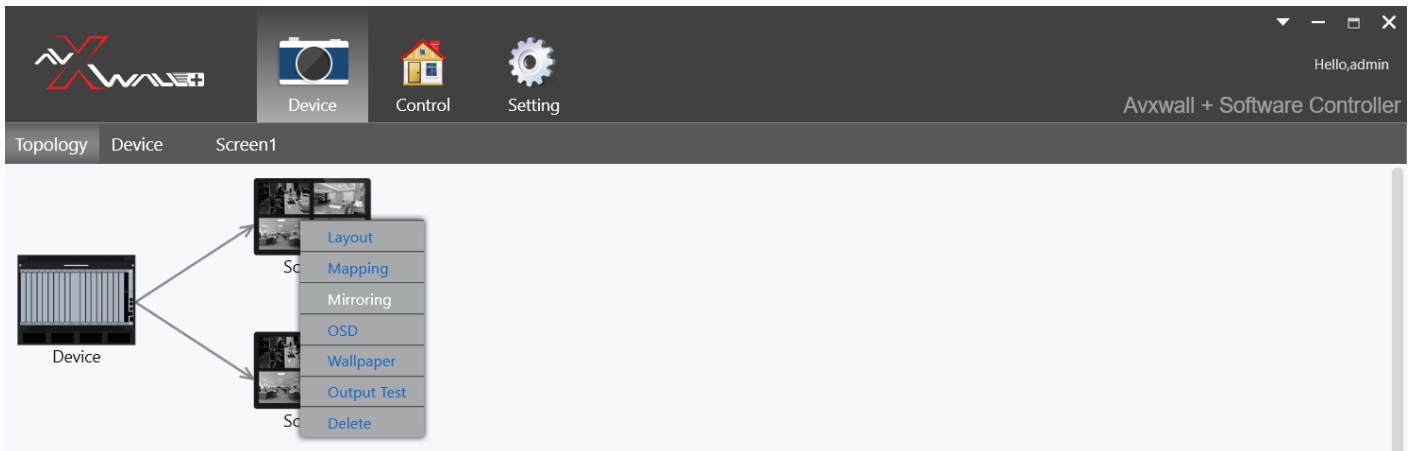
4. Logoff - Logs the user out of the AVXWALL+, also shows software version and build number



2.1 DEVICE TAB OVERVIEW

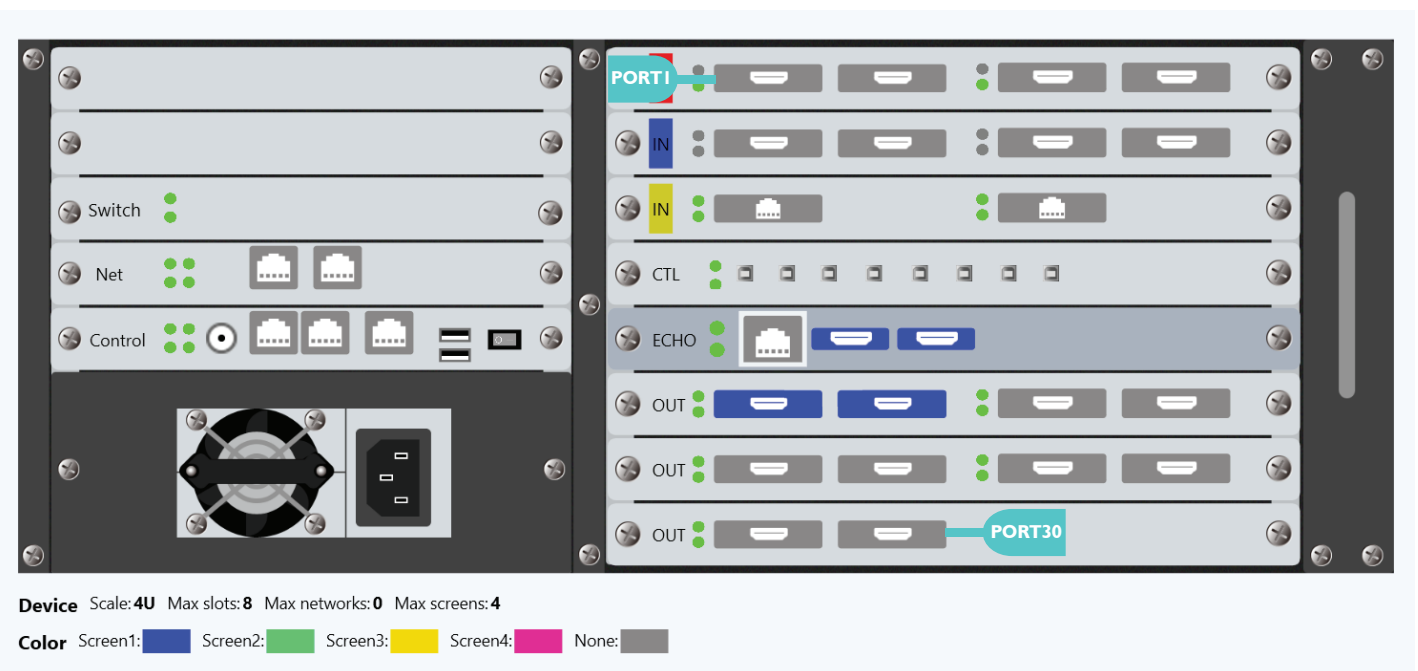
TOPOLOGY SUBTAB

This is the main screen for the AVXWALL+ software. From this menu, you can add screens, change videowall options, adjust bezel gap settings, map outputs to videowalls, and view the overall layout of your AV installation.



DEVICE SUBTAB

This is the main screen for the AVXWALL+ software. From this menu, you can add screens, adjust individual card settings, create a multiview, adjust input/output settings and view the status of your system.



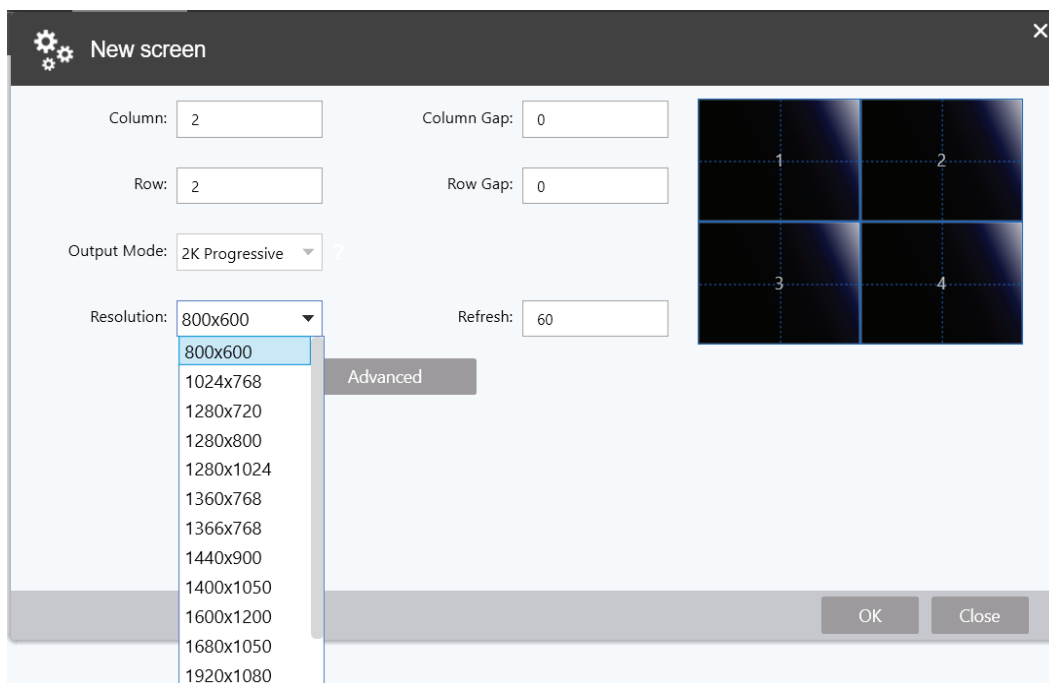
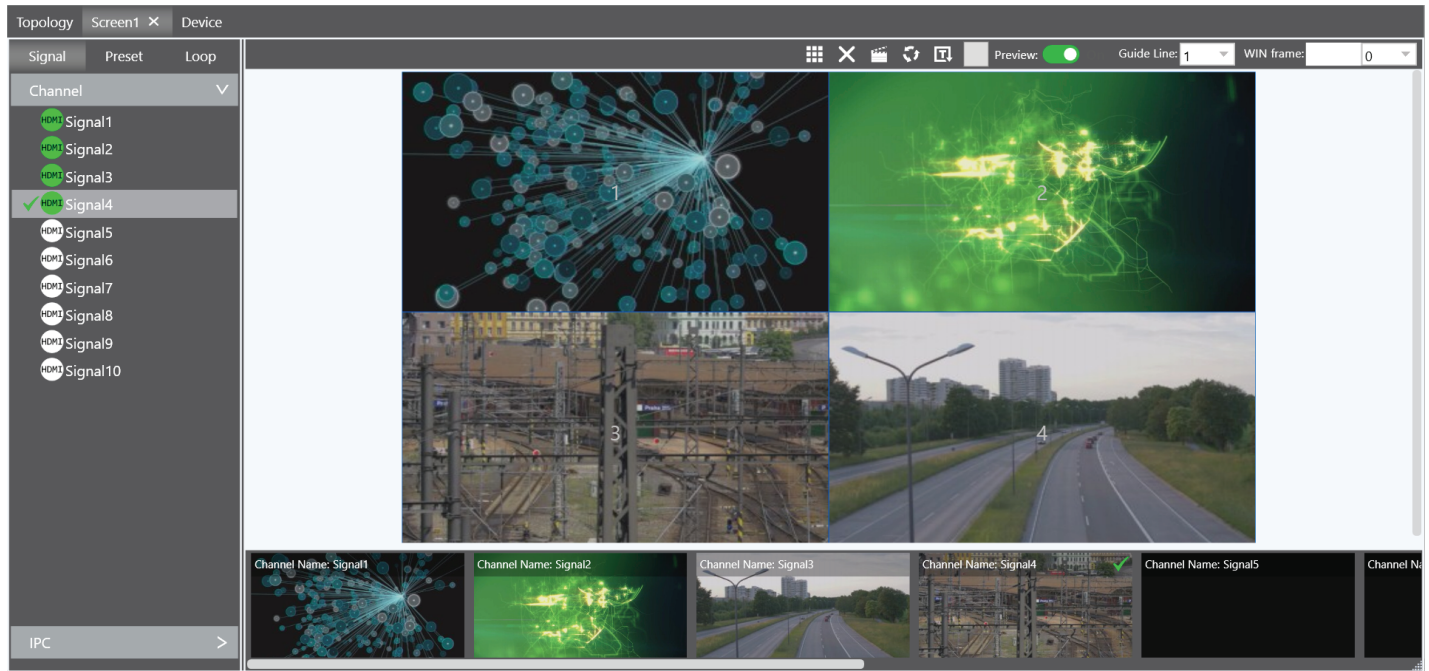
Note: In the AVXWALL+ software, all input and output cards are assigned 4 logical ports per card regardless of type. Ports are numbered sequentially starting with the first input card.



2.1 DEVICE TAB OVERVIEW (CONT)

SCREEN SUBTAB

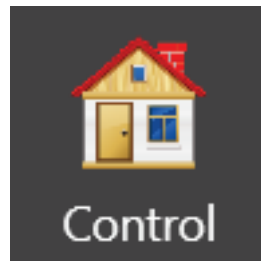
In the AVXWALL+ software, “screens” are a collection of displays or LED panels with a section of inputs and outputs assigned to them. Different “screens” represent different individual videowalls and allow for better organization of videowall content. “Screens” are created from the Topology tab and can be modified afterwards. From the Screens subtab you can change the output resolution, set the number of displays in the videowall, change the background image and view a live preview of the output.



2.2 CONTROL TAB OVERVIEW

UNDER DEVELOPMENT

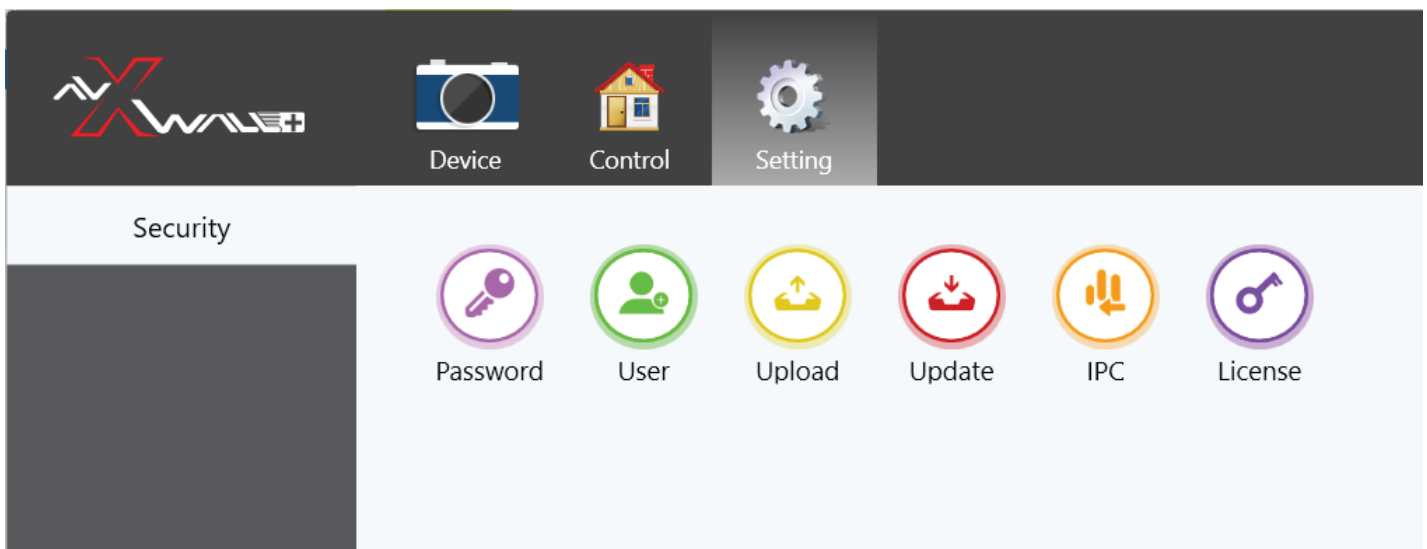
This tab is only active when the optional AVXWALL+ Central Control System is installed (under development). The Central Control System allows for the control and programming of connected devices such as IR emitters, relays for high-power devices, software commands and more.



2.3 SETTING TAB OVERVIEW

SECURITY

The AVXWALL+ allows for multiple users to use and control the system simultaneously using the AVXWALL+ software. User management, software and firmware updates and decoder licenses are managed in this tab.



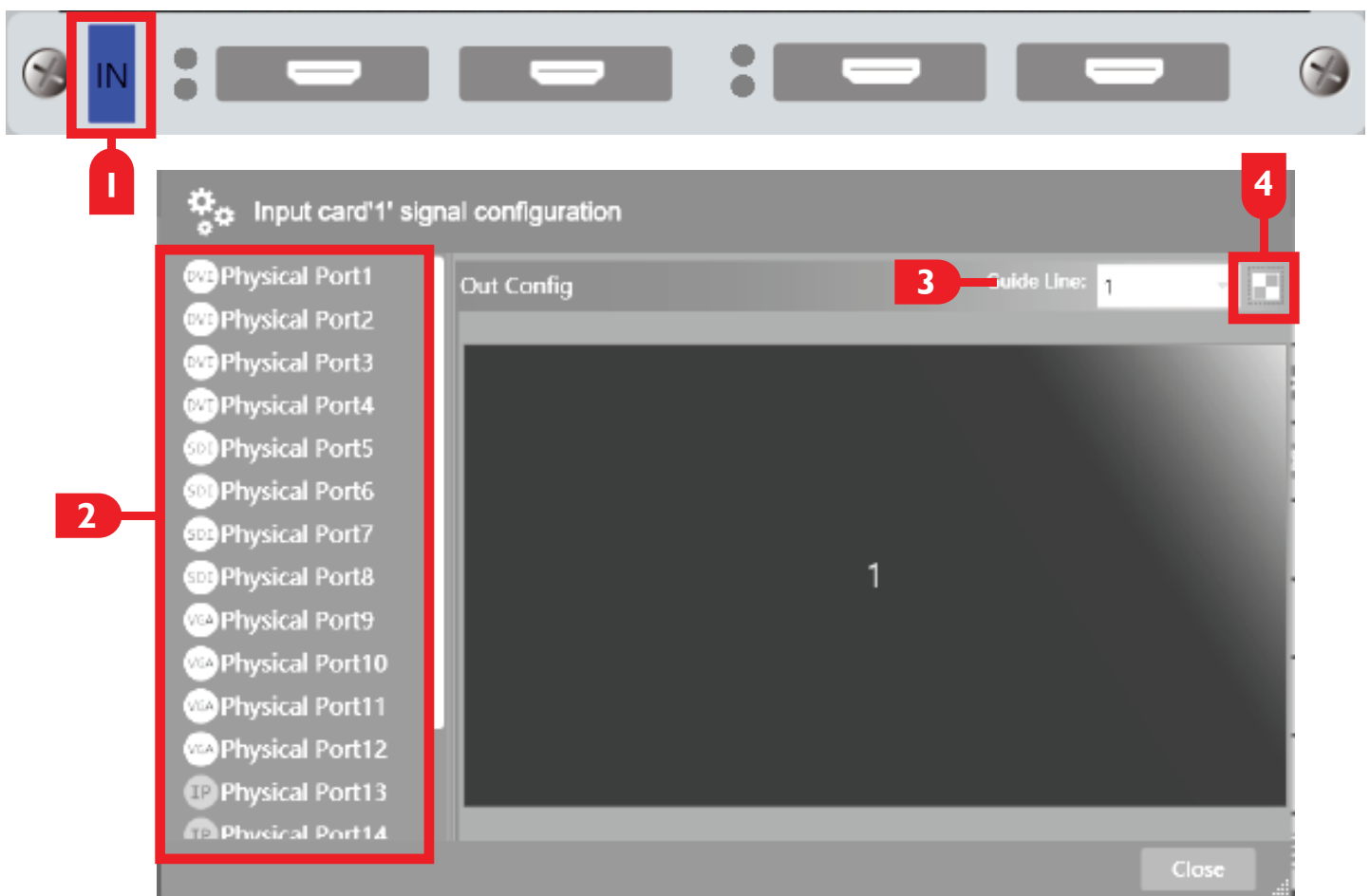
3. DEVICE SUBTAB - CONFIGURE INPUT/OUTPUT CARDS

DEVICE SUBTAB

Before adding a screen and creating a videowall, it is recommended that the input, output, KVM and confidence cards be configured with the desired settings for operation. This section describes how to configure each of the different type of IO card. All input configuration settings are accessed from the Device subtab.

3.1 VIDEO INPUT CARD CONFIGURATION

1. **Double-click** - on the desired input card from the Device subtab. Click “Input Configuration”.
2. **Physical Port List** - Displays a list of all the input ports on the card available for configuration.
3. **Guide Lines** - Enable grid lines to assist with signal grouping (1/4/9/16).
4. **Mode Edit** - Enables signal grouping mode and allows the user to edit which physical ports are mapped to the group. Signal groups allow multiple inputs to be displayed as a single source, similar to a multiview, for better organization and viewing on a videowall. Only one signal group can be created per card. (Signal groups are separate from channel groups).

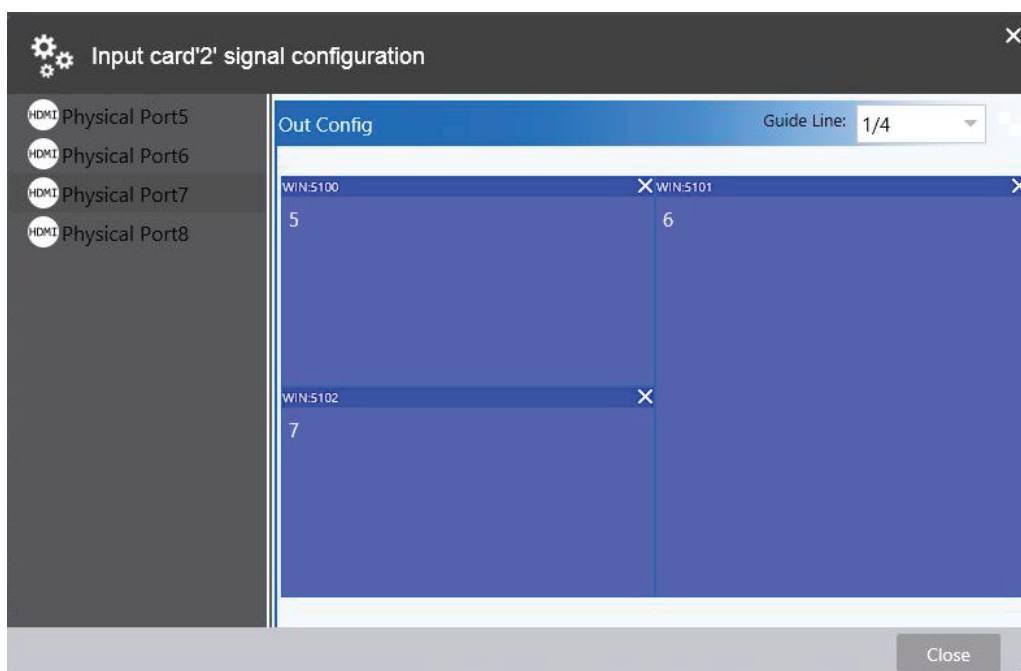
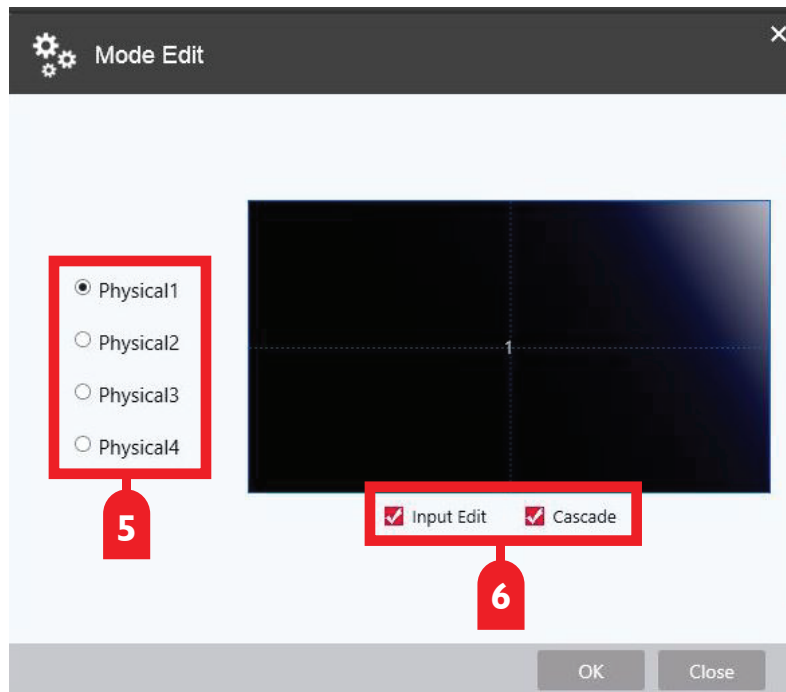


3.1 VIDEO INPUT CARD CONFIGURATION (CONT)

Mode Edit - Signal Group Settings

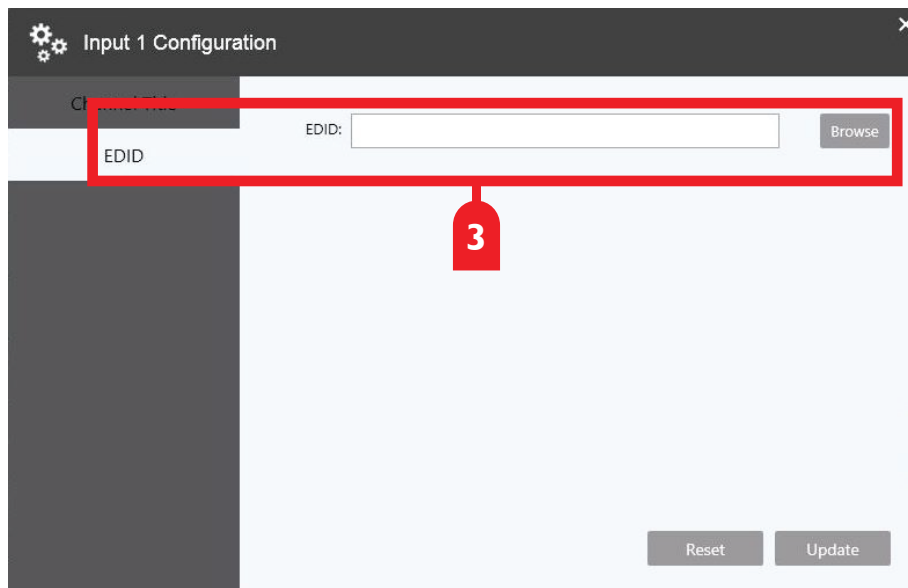
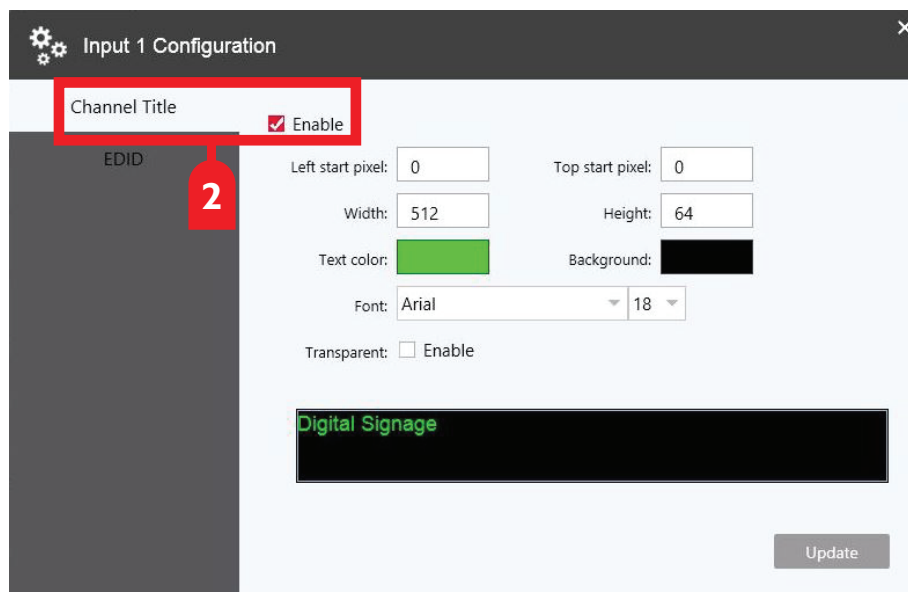
5. **Physical Port List** - Select the port to be assigned the signal group. Select this signal from the Screen subtab.

6. **Input Edit | Cascade** - These two functions must be enabled to start signal grouping on that card. Click OK to open the signal group menu. In the below example, Input Card 2 has ports 5, 6 and 7 in a signal group. Drag and drop the physical ports onto the window to configure how the inputs are layed out. Signal groups are designated in the Screen subtab by the port selected in the Mode Edit window.



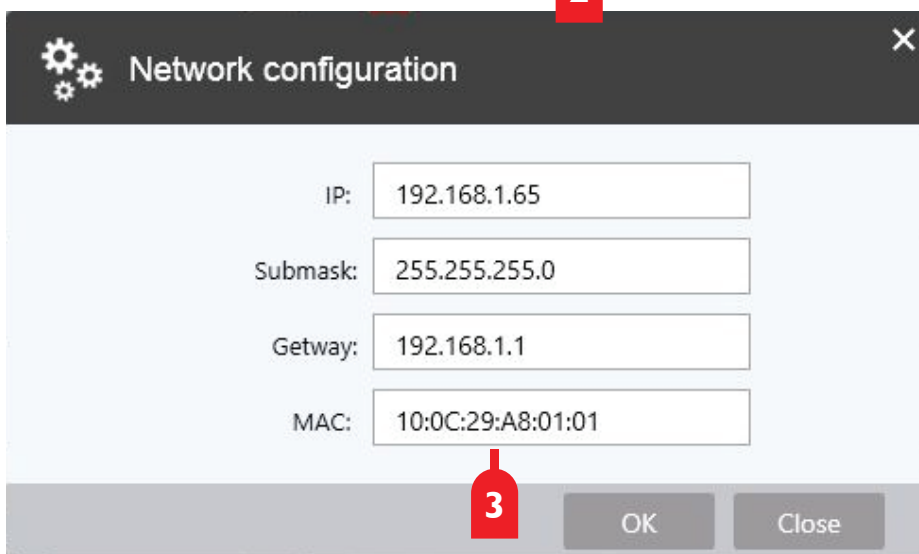
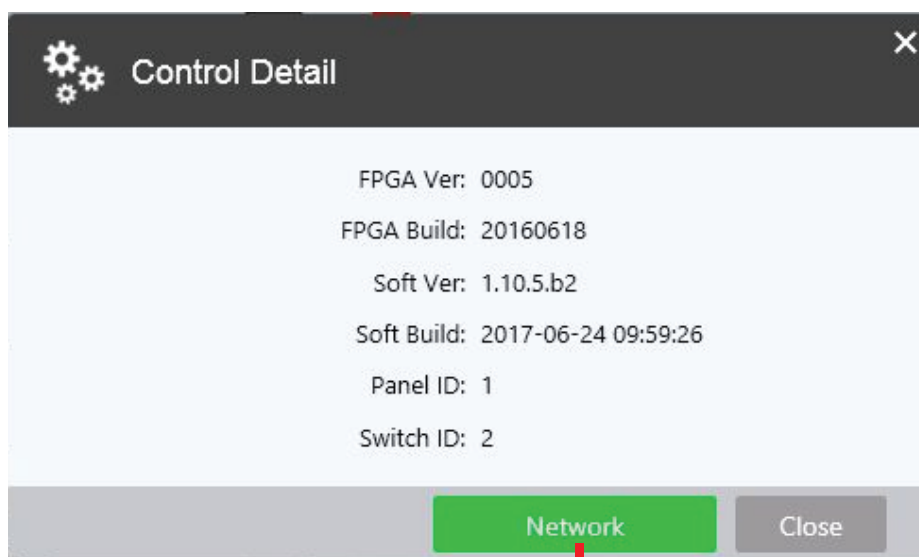
3.2 VIDEO INPUT PORT CONFIGURATION

1. **Double-click** - on the desired input port from the Device subtab.
2. **Channel Title** - Overlay text on a video input. Click the check box to enable. Click update to save changes.
3. **EDID** - Upload a custom EDID timings file for the input source.



3.3 CONTROL CARD CONFIGURATION

1. **Double-click** - on the control card from the Device subtab
2. **Click** - on “Network”.
3. **Network Configuration** - Change the network settings of the AVXWALL+.

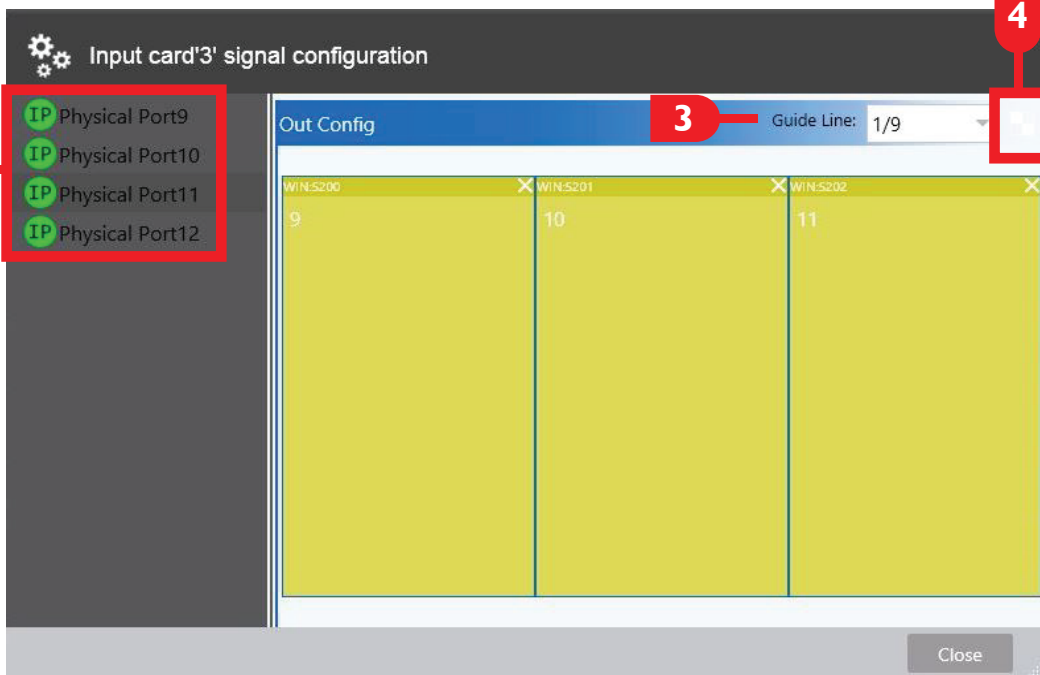


3.4 IP DECODE CARD CONFIGURATION

1. **Double-click** - on the desired input card from the Device subtab. Click “Input Configuration”.
2. **Physical Port List** - Displays a list of all the input ports on the card available for configuration.
3. **Guide Lines** - Enable grid lines to assist with signal grouping (1/4/9/16).
4. **Mode Edit** - Enables signal grouping mode and allows the user to edit which physical ports are mapped to the group. Only one signal group can be created per card. (Signal groups are separate from channel groups).



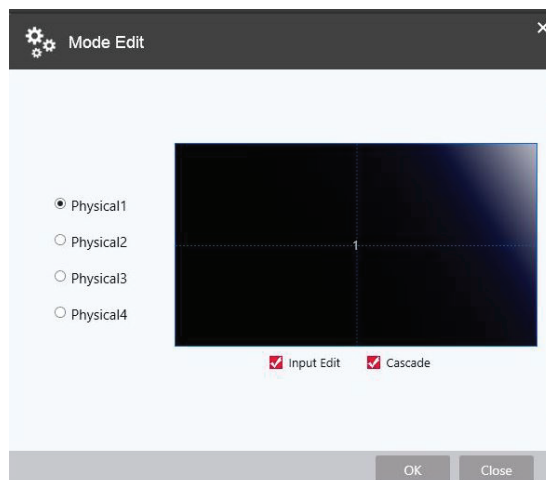
1



2

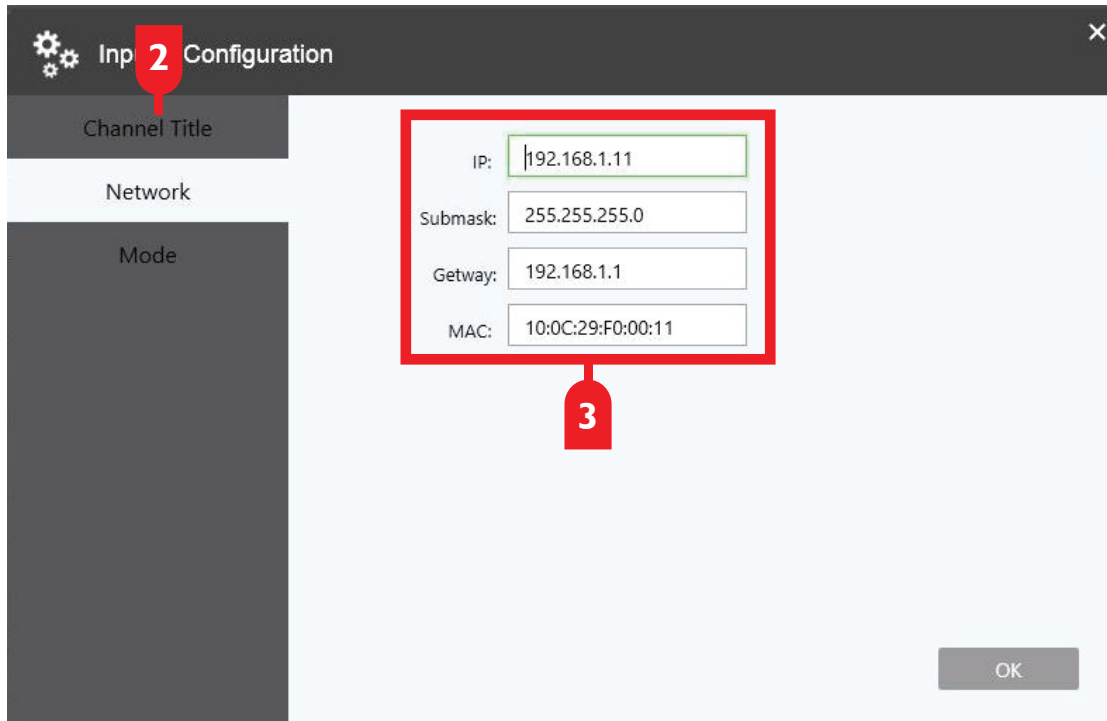
3

4



3.5 IP DECODE PORT CONFIGURATION

1. **Double-click** - on the desired input port from the Device subtab.
 2. **Channel Title** - Overlay text on a video input. Click the check box to enable. Click update to save changes.
 3. **Network** - Shows the IP config of the card installed. Edit settings to match the IP range of your setup.
- Each port contains two subchannels. Each subchannel can be configured independently.



3.5 IP DECODE PORT CONFIGURATION (CONT)

4. **Mode** - The mode determines the number of different IP streams per port. Maximum of 36 streams per card.

4a. **Mode 1** - 1x 1080p@60Hz per subchannel (2 per port, 4 per card)

4b. **Mode 2** - 2x 1080p@30Hz per subchannel (4 per port, 8 per card)

4c. **Mode 4** - 4x 720p@30Hz per subchannel (8 per port, 16 per card)

4d. **Mode 9** - 9x 704 x 480@30Hz [DI CCTV] per subchannel (18 per port, 36 per card)

5. **URL** - The URL of the camera stream. e.g. rtsp://admin:12345@192.168.1.24:554

admin= IP camera user name

12345= IP camera password

192.168.1.24= IP camera IP address

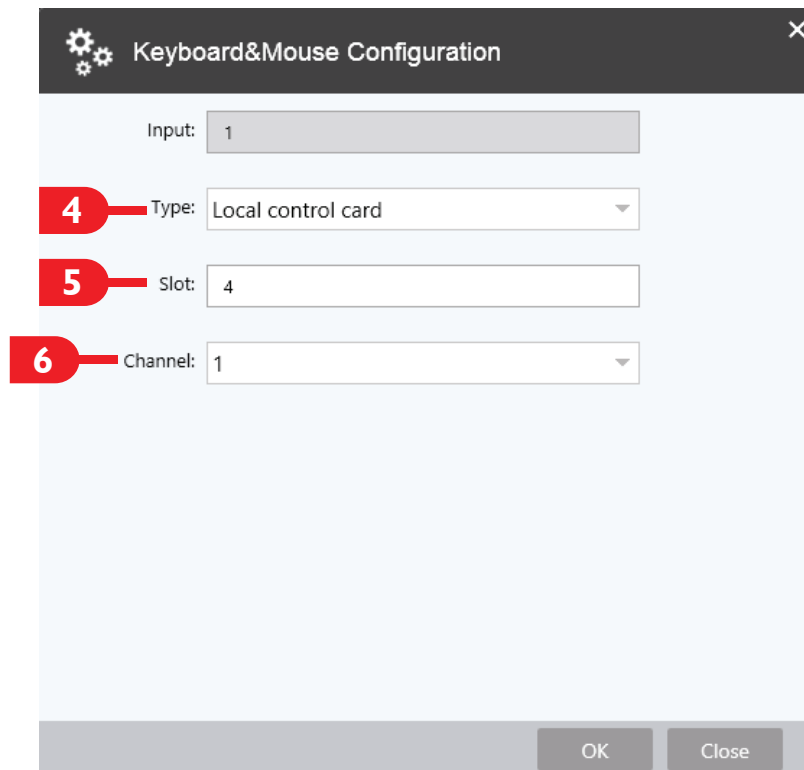
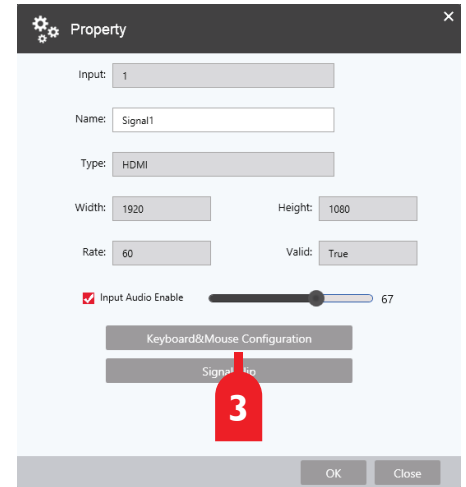
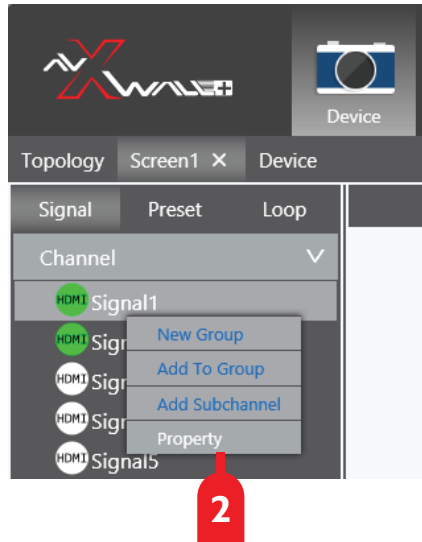
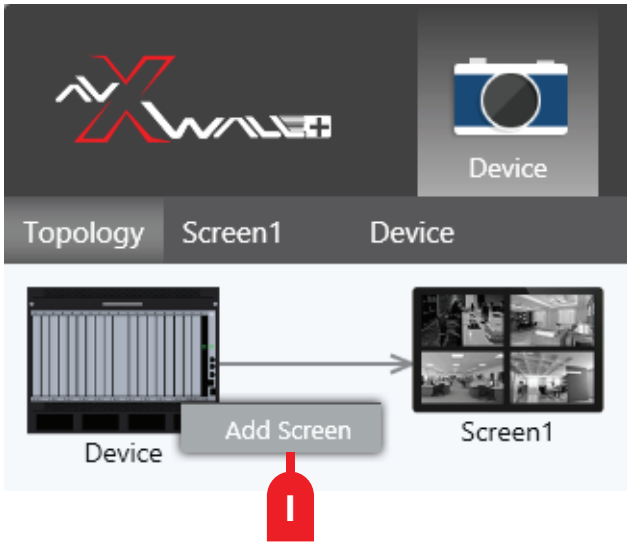
554= Default port of the IP camera

The screenshot shows the 'Input 9 Configuration' window. On the left, there is a sidebar with 'Channel Title', 'Network', and 'Mode' sections. The main area contains a 'SubChannel' dropdown menu set to 'SubChannel1' and a 'Mode' dropdown menu set to 'Mode9'. A red rectangular box highlights these two dropdowns. Below them are seven 'url' input fields. The first field contains the text 'rtsp://192.168.1.100/12345678901320000004'. A red callout bubble with the number '4' points to the first field. The second field contains 'rtsp://'. A red callout bubble with the number '5' points to the second field. The remaining fields (url3 through url7) also contain 'rtsp://'. At the bottom right of the dialog is an 'OK' button.



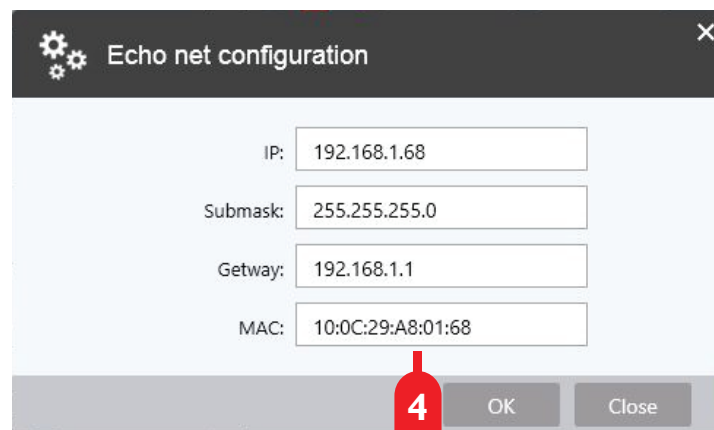
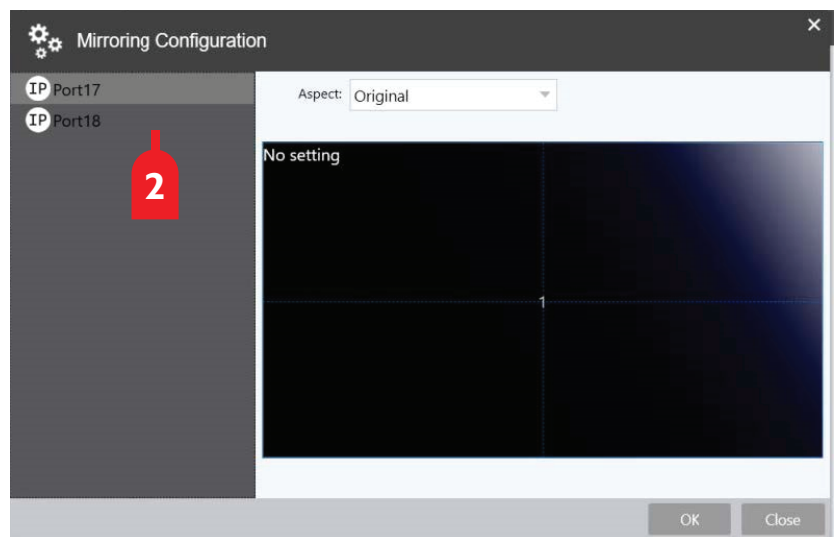
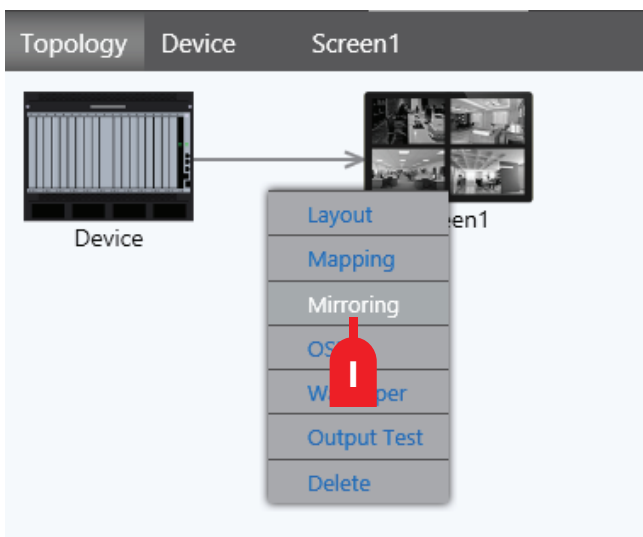
3.6 KVM CARD CONFIGURATION

1. **Create a Screen** - Add a screen from the Topology Tab (Chapter 4.1).
2. **Right Click** - On the signal source to be controlled from the Screen subtab.
3. **Click** - “Property” then “Keyboard & Mouse Configuration” in the “Property” window.
4. **Type** - Local KVM card or External AVXWALL+ control box (sold separately).
5. **Slot** - The slot the KVM card is installed in.
6. **Channel** - The desired port on the KVM, connected to the device to be controlled.



3.7 CONFIDENCE CARD CONFIGURATION

1. **Right-click** - on the Screen to be monitored from the Topology subtab. Click Mirroring.
2. **Drag** - and drop the desired HDMI port to mirror the videowall. Aspect ratio can be changed.
3. **Double-click** - on the network port of the desired confidence card from the Device subtab.
4. **Echo Net Configuration** - Change the network settings of the confidence card output.
 - 4a. **IP Stream URL** - `rtsp://IP:554/Channel(1 or 2)/StreamType(0 or 1)`
 - 4b. **Channel 1/2** - for Screen 1 or 2 (Screens 3 and 4 can be mirrored with a second confidence card)
 - 4c. **Stream Type 0/1** - 0=Main stream(1080p@30Hz, 10Mbps); 1=sub stream (704x576@60Hz, 4Mbps)
e.g. `rtsp://192.168.1.100:544/1/0`



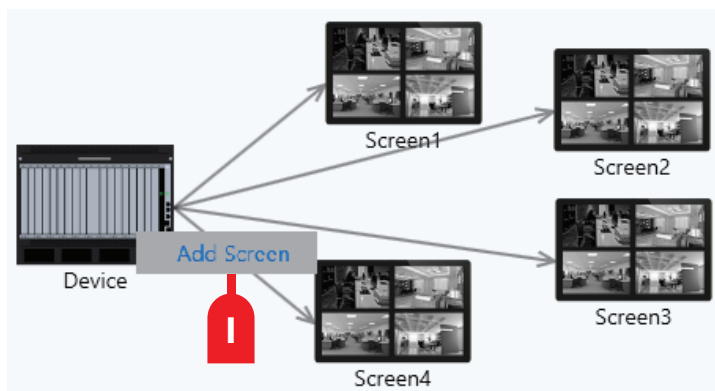
4. TOPOLOGY SUBTAB - CONFIGURE VIDEO WALLS

TOPOLOGY SUBTAB

The creation of videowalls and the changing of layout settings, mapping, videowall resolution and other settings related to the videowall itself can be changed from this subtab. This section details how to create a screen, add a videowall to it, and configure the videowall. The AVXWALL+ supports upto 4 different videowalls.

4.1 CREATE A SCREEN

1. **Right-click** - on the 'Device' icon from the Topology subtab. Click "Add Screen"
2. **Column & Row** - Choose the number of displays in your videowall.
3. **Column Gap** - Bezel correction between vertical displays. Also used for projector edge blending.
4. **Row Gap** - Bezel correction between horizontal displays. Also used for projector edge blending.
5. **Output Mode** - Switch between interlaced and progressive video output.
6. **Resolution** - The output resolution of the connected displays. Select "4K Progressive" Output Mode to enable higher resolutions.
7. **Refresh** - Select the refresh rate for the videowall. 4K output is limited to 30Hz.



The screenshot shows the 'New screen' configuration dialog box. The dialog has a title bar with a gear icon and 'New screen' text. It contains several input fields: 'Column' (3), 'Column Gap' (0), 'Row' (2), 'Row Gap' (0), 'Output Mode' (4K Progressive), 'Resolution' (3840x2160), and 'Refresh' (30). A '7' callout points to the 'Refresh' field. A preview window on the right shows a 2x3 grid of screens numbered 1 to 6. An 'Advanced' button is at the bottom.



4.2 ADVANCED SCREEN OPTIONS FOR LED VIDEOWALLS

1. **Click** - on the “Advanced” button from the “New Screen” window.
2. **Total Pixels/Total Lines** - The total resolution of the LED videowall.
3. **Sync Pulse Width** - Width/Length of Pixel Sequence.
4. **Active start** - “Effective Pixel” starting position.
5. **Active Time** - “Effective Pixel” Width/Length.
6. **Polarity** - +/- will be determined by the manufacturer of the LED panel.
7. **Frequency** - Frame rate of the output. Calculated from above settings.
8. **Background** - Display a color when no image/video is displayed on the videowall.
9. **Offline Signal** - Display a color when there is no video source.
10. **Virtual Mode/Virtual Pixel** - Only enable if supported by your LED panels.

New screen [Close]

Advanced

Horizontal	Vertical
2 Total Pixel: 2720	Total Line: 1646
3 Sync Pulse Width: 32	Sync pulse Width: 6
4 Active Start: 112	Active Start: 44
5 Active Time: 2560	Active Time: 1600
Polarity: -	Polarity: -
7 Frequency: 268	6
8 Background: [Black]	Offline Signal: [Blue]
Virtual Mode: <input type="checkbox"/>	9
10 Virtual Pixel: <input type="checkbox"/>	



4.3 CONFIGURE AN EXISTING SCREEN

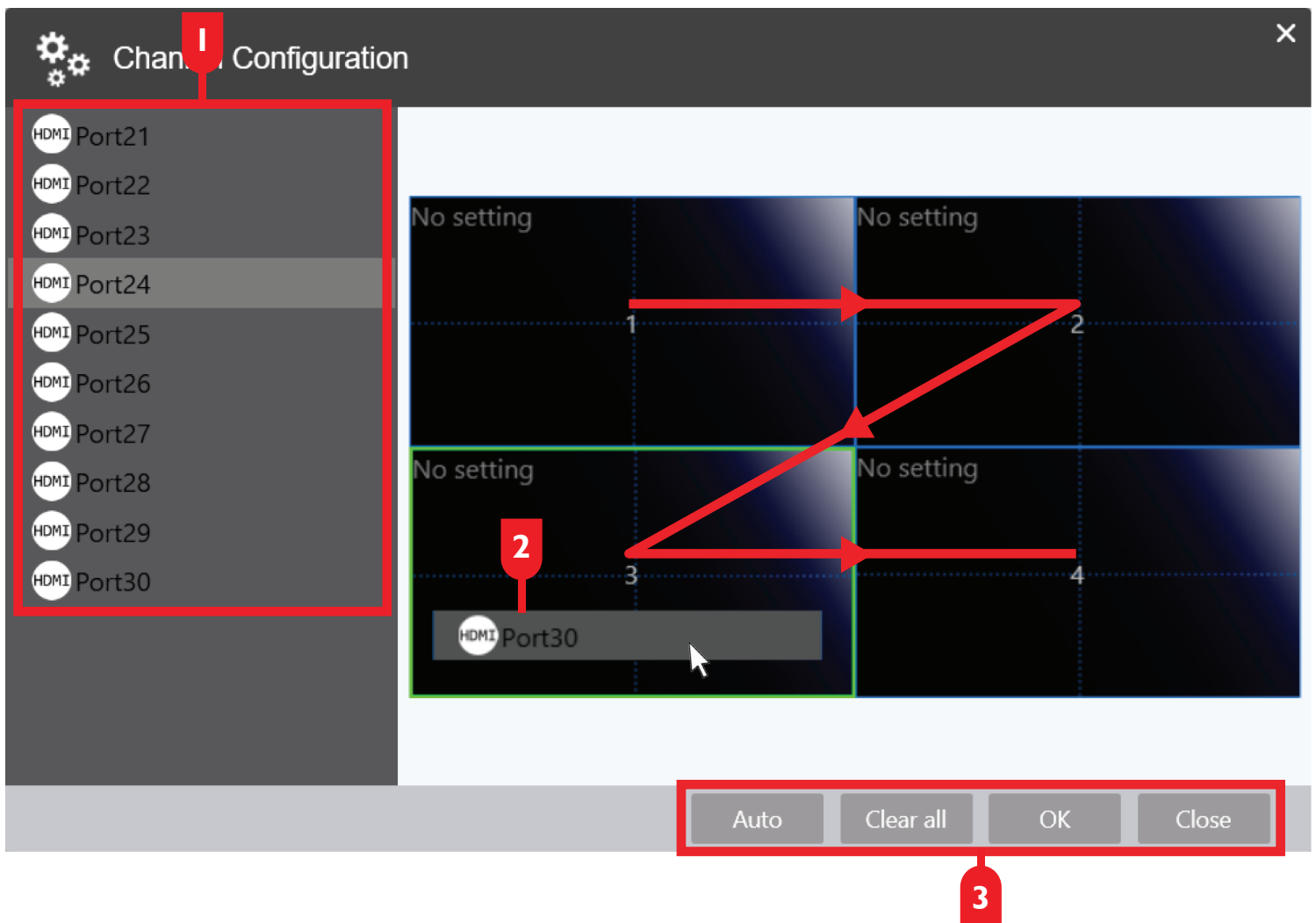
- I. Right **Click** - on the desired screen. A number of options will be displayed:
 - I a. **Layout** - Change display layout, resolution and other screen settings. (See Chapter 4.1)
 - I b. **Mapping** - Manually or automatically map the output ports to the display layout.
 - I c. **Mirroring** - Open the Confidence card configuration menu (See Chapter 3.7).
 - I d. **OSD** - Open the On Screen Display **Mouse** and **Subtitle** menu. Add scrolling text or control the videowall with a USB mouse.
 - I e. **Wallpaper** - Add or configure a background image instead of a solid color.
 - I f. **Output Test** - Test the connection between the AVXWALL+ and the connected displays /result.
 - I g. **Delete** - Remove an existing screen.



4.3 CONFIGURE AN EXISTING SCREEN (CONT)

Mapping - Map Output Ports

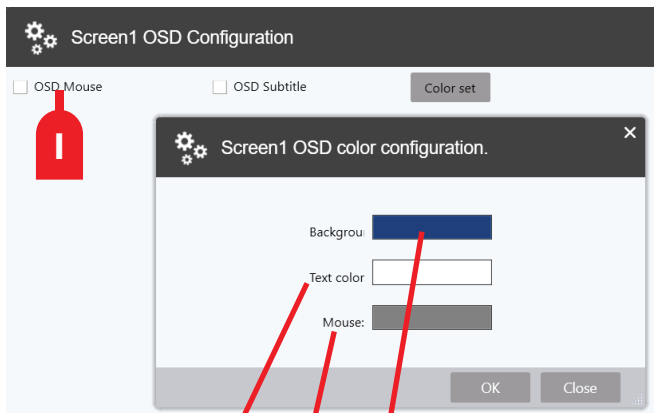
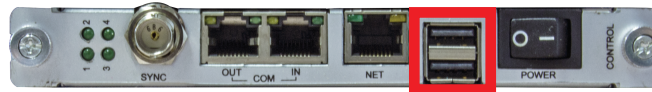
1. **Output Ports** – Lists the output ports available to be mapped. See the note on page _ for details on port numbering.
2. **Display Layout** - Drag and drop output ports onto the layout to map them to your videowall.
3. **Click** - "Clear all" to remove mapping settings. Click "Auto" to automatically map the output ports to the display in the pattern shown below.



4.3 CONFIGURE AN EXISTING SCREEN (CONT)

OSD Mouse - Videowall Mouse Control

1. **OSD Mouse** – Enable the OSD mouse. Allows direct control of the content on the videowall without PC software using a USB mouse and keyboard. USB touch panels are also supported. The OSD colors can be changed.
2. **Move** - the cursor to the top-left of the screen to select a source.
3. **Click** - and drag anywhere on the screen to create a window with the selected source. Windows can be moved and resized. Double-click on a window to fill a display with the source. Double-click again to fill the screen.
4. **Right-Click** - on a window to access more options. Windows can be layered on top of each other.



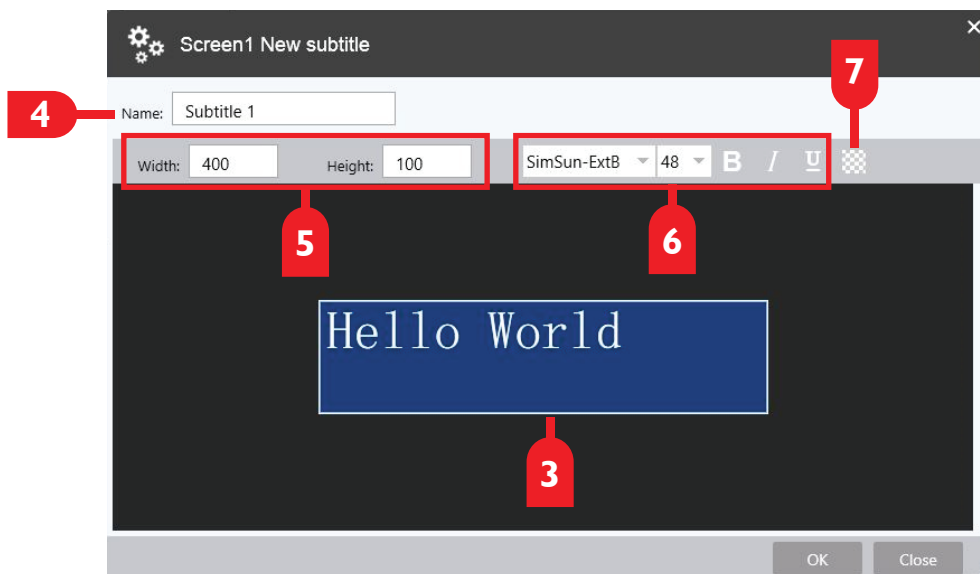
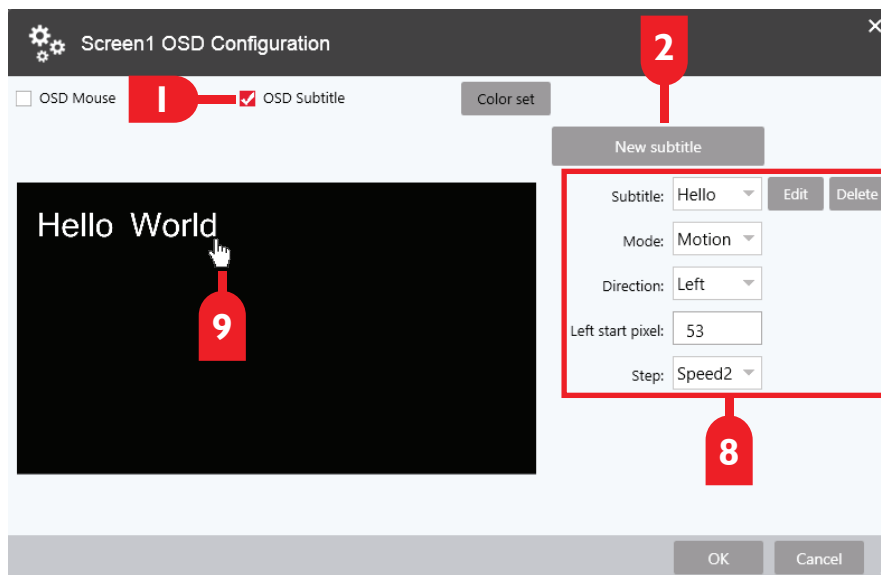
Button	Keyboard Shortcut
F1	Move OSD mouse to Screen 1
F2	Move OSD mouse to Screen 2
F3	Move OSD mouse to Screen 3
F4	Move OSD mouse to Screen 4
F5	Enable/Disable OSD mouse



4.3 CONFIGURE AN EXISTING SCREEN (CONT)

OSD Subtitles - Add Scrolling Text

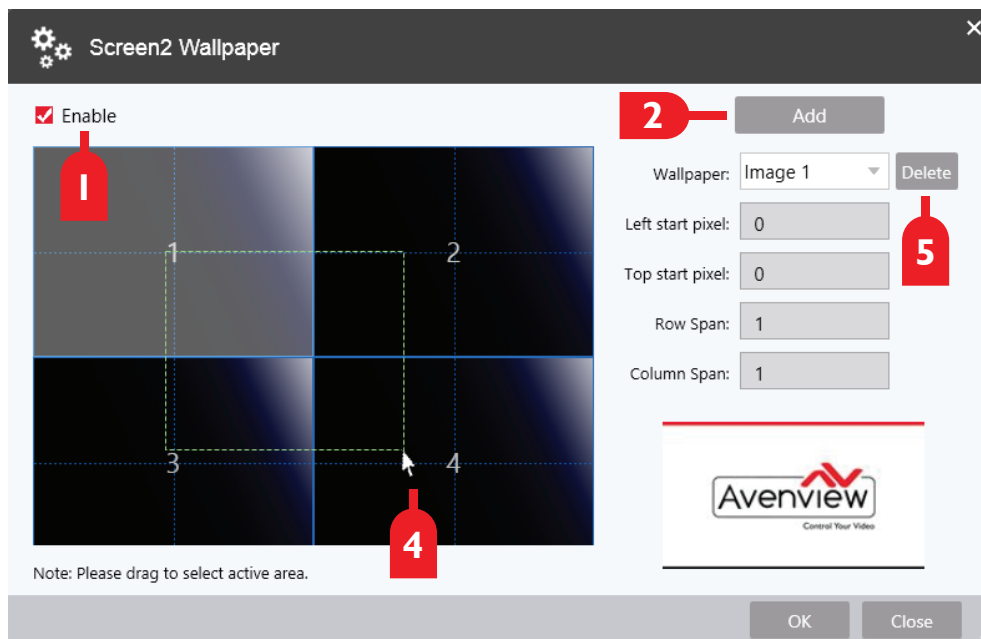
1. **Click** - on “Enable” to display the subtitle menu.
2. **Click** - on “New subtitle” to open the New subtitle menu.
3. **Bounding Box** - enter your scrolling text here. Maximum number of characters depends on text size and font.
4. **Name** - add a name for the scrolling text. Different sets of text can be saved and recalled.
5. **Width/Height** - the dimensions of the scrolling text bounding box. Uses the same colors as the OSD Menu.
6. **Formatting** - change the scrolling text font, size, and typography options.
7. **Transparency** - select to make the bounding box color transparent.
8. **Edit** - or delete sets of scrolling text, change scrolling options or select different sets of text.
9. **Text** - and its bounding box can be moved around on the screen.



4.3 CONFIGURE AN EXISTING SCREEN (CONT)

Wallpaper - Add a JPEG Background Image

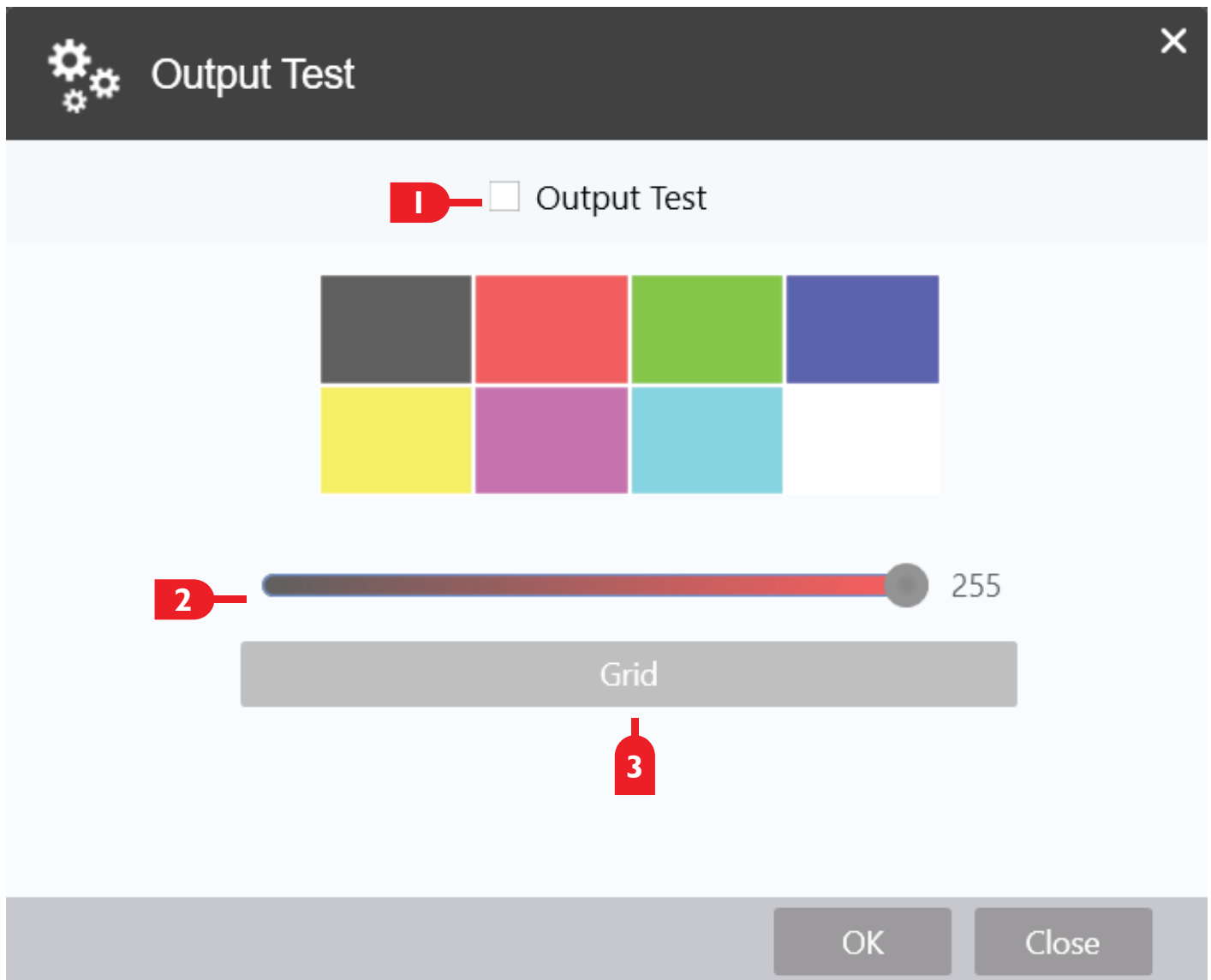
1. **Click** – on “Enable” to display the Wallpaper menu. Click again to disable the background image.
2. **Click** - on “Add” to open the New Wallpaper menu.
3. **Add** - a name for the background and then click “Browse”. This will open an Explorer window. Navigate to the desired background image and select it. Press “Okay”. Maximum file size is 120MB. Total storage is 128MB.
4. **Click and Drag** - to select the desired displays that will display the background image.
5. **Multiple** - background images can be saved and recalled. JPEG files only.



4.3 CONFIGURE AN EXISTING SCREEN (CONT)

Output Test - Test Connected Displays

1. **Click** – “Output Test” to enable the test pattern. Test pattern will be displayed across the entire screen.
2. **Slider** - Change the shade of color displayed.
3. **Grid** - Display a colored grid as the test pattern. Useful for aligning displays in a videowall installation.



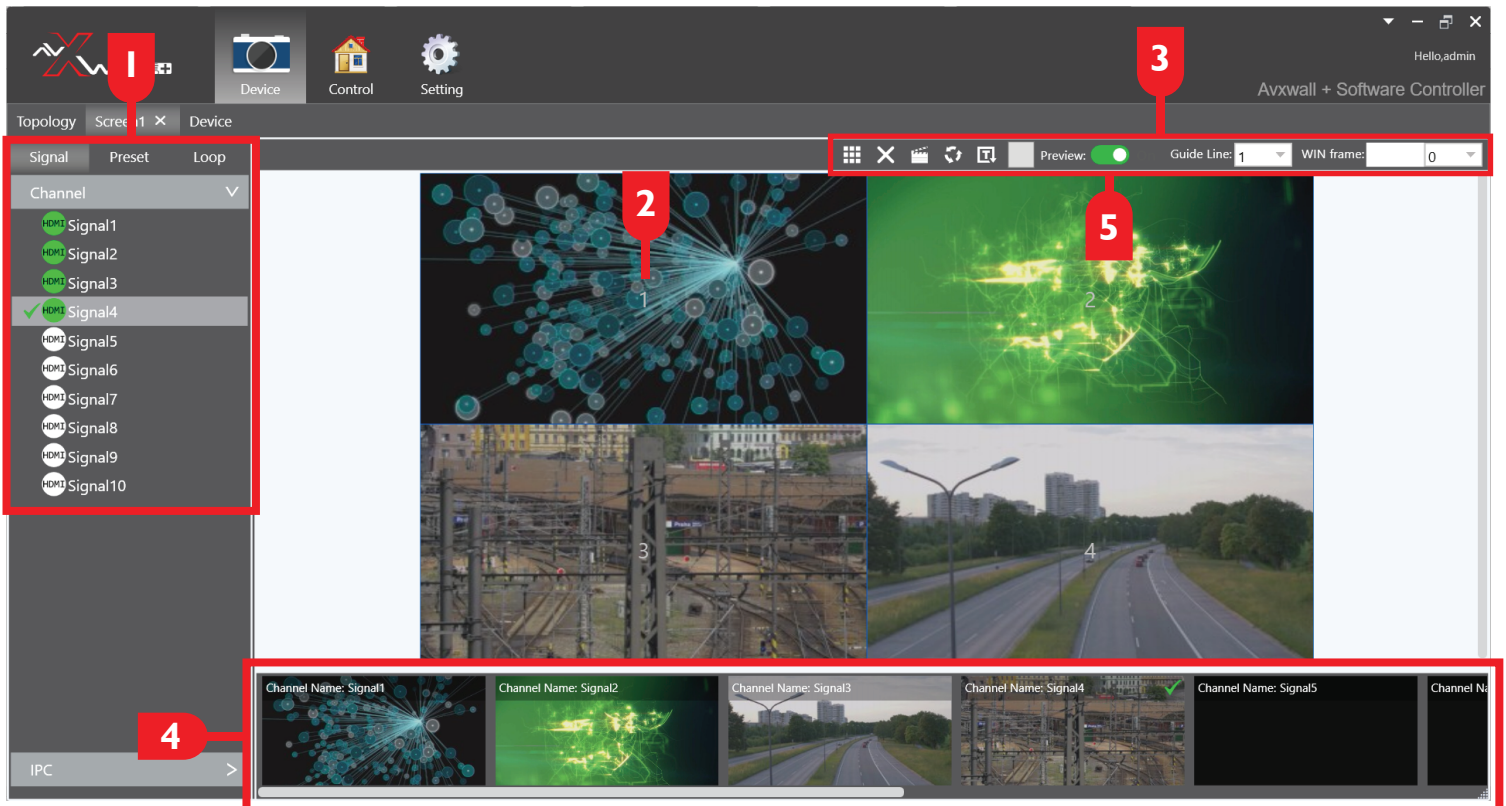
5. SCREEN SUBTAB - WINDOW LAYOUT AND CONTROL

SCREEN SUBTAB

Window layout, signal selection, and all options relating to what is displayed on your videowall is accessed from this subtab. This section describes all the available features and how to create, save and recall a videowall layout.

5.1 WINDOW ARRANGEMENT

1. **Signal List** - Lists the available signal sources. Sources are mapped to screens from the Topology subtab. (See Chapter 4.3) Preset layouts and preset loops are recalled from this section.
2. **Preview Screen** - Displays a preview of the window layout on your videowall. Drag sources from the Signal List onto the Preview Screen to create a window with that source.
3. **Screen Tools** - Contains a number of options for quickly controlling your videowall.
4. **Source Preview** - Provides a preview of each connected source. Can be dragged and dropped onto the Preview Screen.
5. **Preview Slider** - Enables live preview in the Preview Screen and Source Preview.



5.1 WINDOW ARRANGEMENT (CONT)

Signal List - Available Inputs

1. **Signal List** - Lists all ports assigned to the screen. Green indicates video is present, grey indicates no video.
2. **Signal/Preset/Loop** - Select between different menus. Lists available signals, preset layouts or layout loops.
3. **Right-click** - on a signal to open up various menu options. Right-click on a signal group to delete or rename it. Signal groups are useful for organizing signals from similar sources.
4. **Add Subchannel** - Save a cropped section of an input as its own signal. One input can have many subchannels.
5. **Property** - View signal information and change signal name. Each input has independent audio level adjustment.
6. **Keyboard&Mouse Configuration** - See Chapter 3.6.
7. **Signal Clip** - Crop the selected signal.

The image shows a screenshot of the Signal List interface with several numbered callouts (1-7) pointing to specific features and dialog boxes:

- 1**: Points to the 'Signal' tab in the top navigation bar.
- 2**: Points to the 'Preset' and 'Loop' tabs in the top navigation bar.
- 3**: Points to the context menu for a signal group, showing options like 'Delete Group', 'Rename', 'Remove Group', 'Add Subchannel', and 'Property'.
- 4**: Points to the 'Add Subchannel' dialog box, which includes fields for 'Input', 'Name', 'Sub ID', 'Sub name', 'Left', 'Width', 'Up', and 'Height', along with 'OK' and 'Close' buttons.
- 5**: Points to the 'Property' dialog box, which includes fields for 'Input', 'Name', 'Type', 'Width', 'Height', 'Rate', 'Valid', and an 'Input Audio Enable' checkbox with a slider.
- 6**: Points to the 'Keyboard&Mouse Configuration' button at the bottom of the Property dialog.
- 7**: Points to the 'Signal Clip' button at the bottom of the Property dialog.



5.1 WINDOW ARRANGEMENT (CONT)

Preset List - Saved Layouts

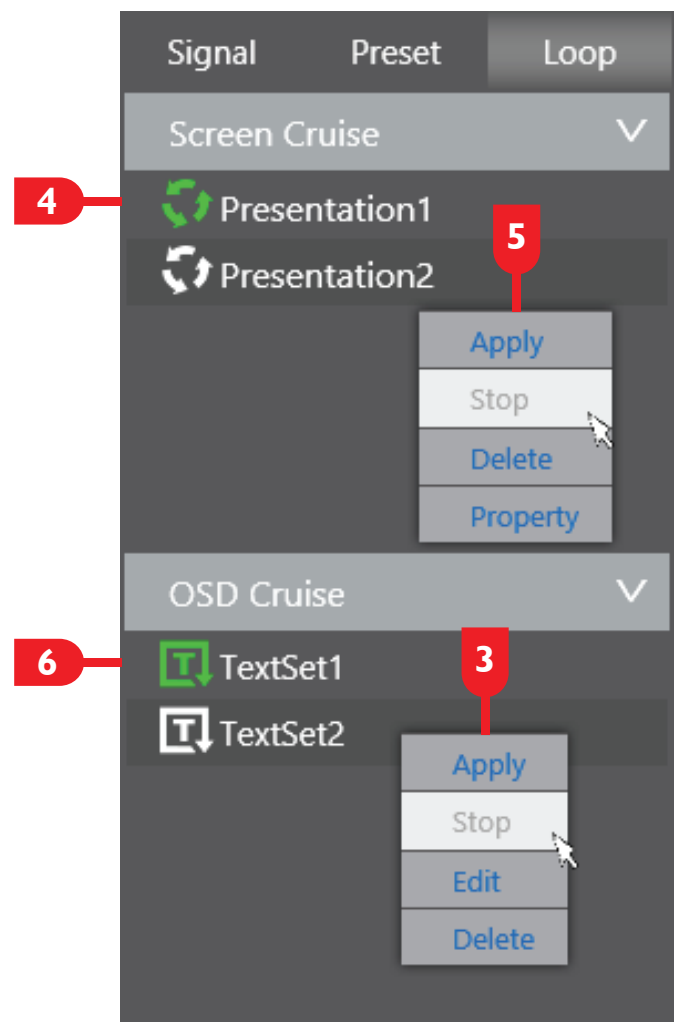
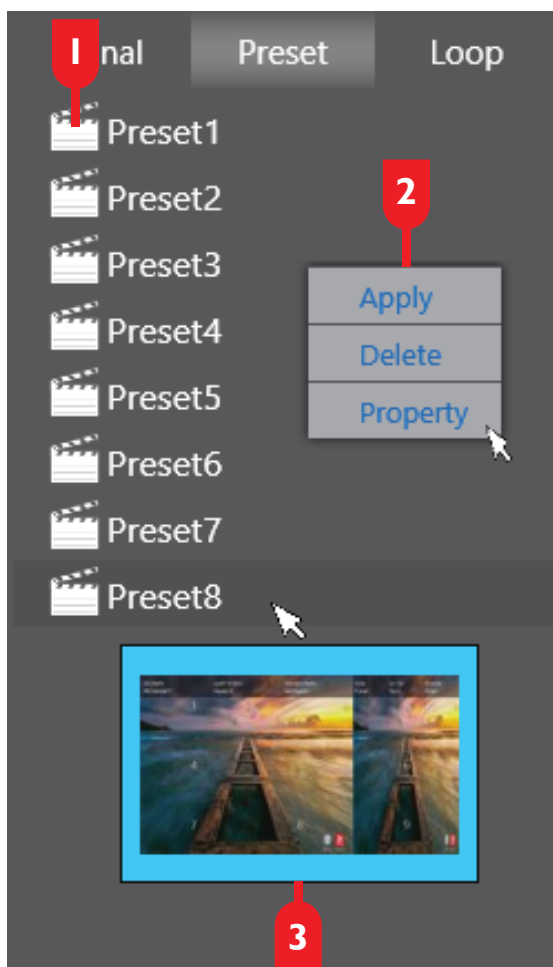
1. **Preset List** - Lists saved layouts. Double-click to apply the layout. Up to 1000 layouts can be saved.
2. **Right-click** - on a preset to open its options menu. Delete a preset or change its name in the properties menu.
3. **Hover** - over a preset to see a preview of the layout.

Loop Cruise - Schedule Layouts

5. **Loop List** - Lists saved layout loops. A green icon indicates an active loop, grey indicates an inactive loop.
6. **Right-click** - on a loop to open its options menu. Start, stop, delete or a rename a loop.

OSD Cruise - Schedule Scrolling Text

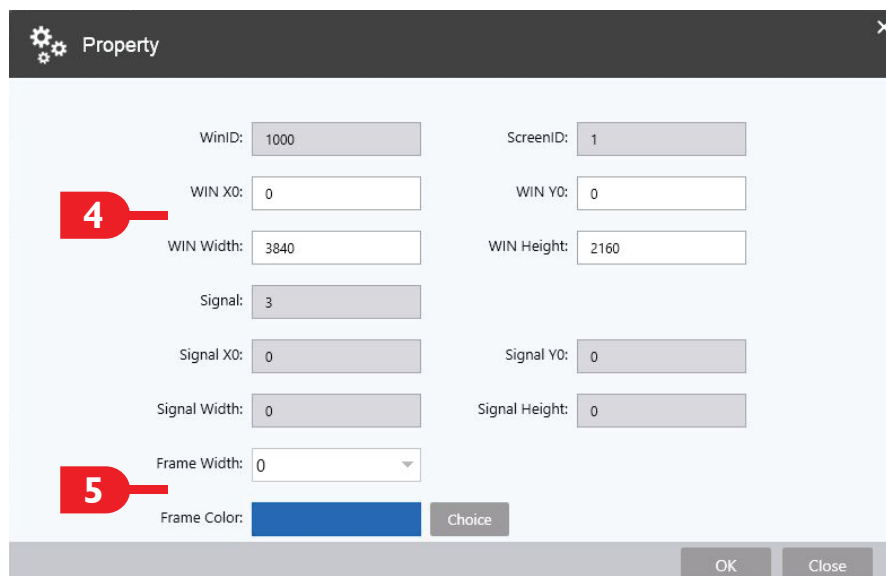
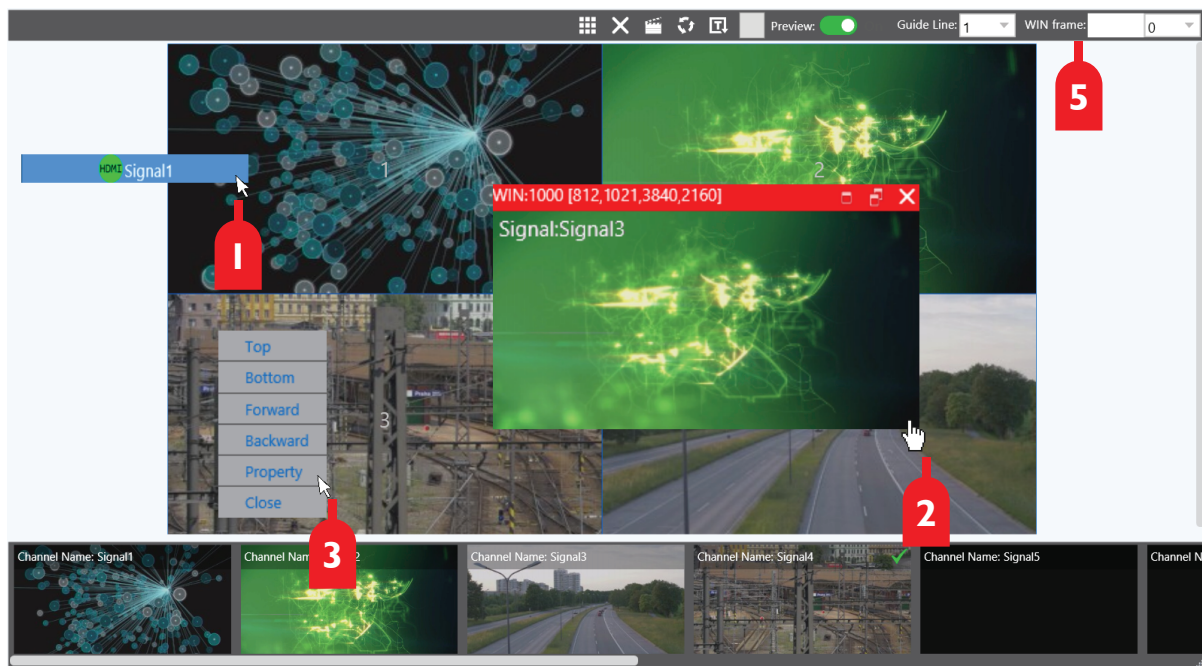
5. **Scrolling Text List** - Lists saved text sets. A green icon indicates an active set, grey indicates an inactive set.
6. **Right-click** - on a text set to open its options menu. Start, stop, delete or a rename a text set.



5.1 WINDOW ARRANGEMENT (CONT)

Preview Screen - Create Your Videowall

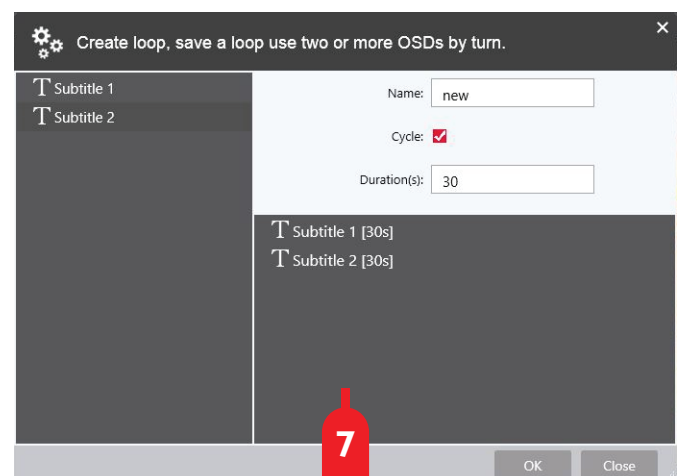
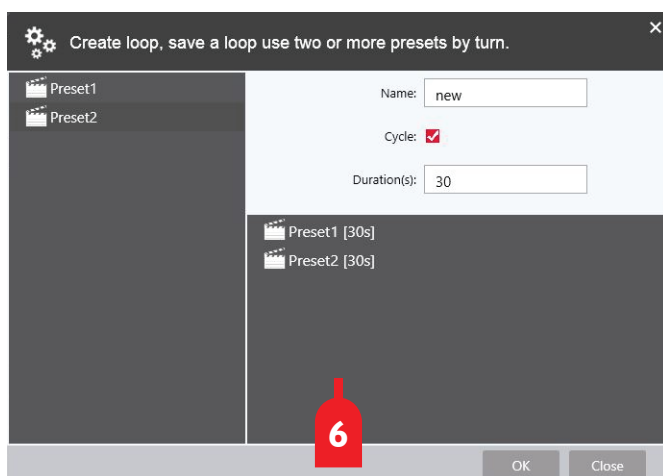
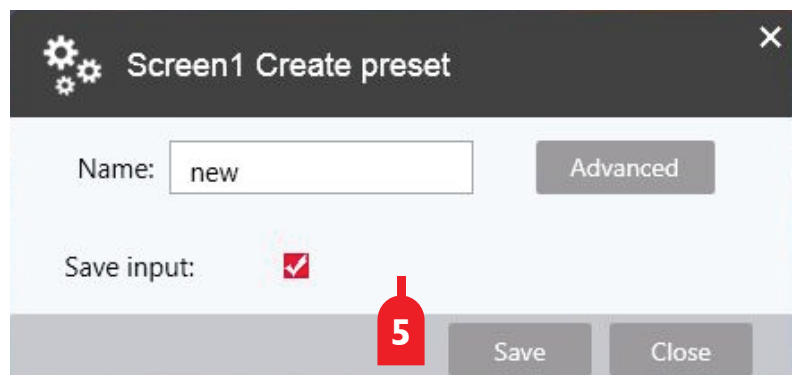
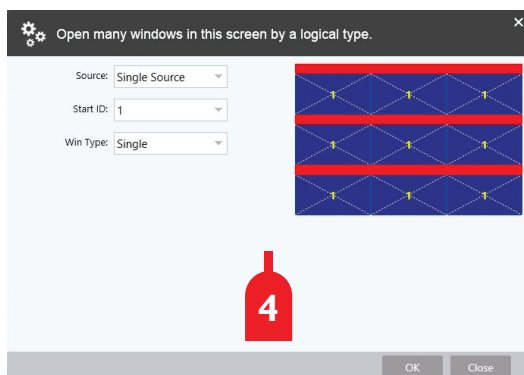
1. **Click** – and drag sources from the Signal List onto the Preview Screen to create a window with that source.
2. **Windows** - can be moved and resized by clicking and dragging on the edges of the window. Windows can be maximized to the display or the whole screen by double-clicking on the window.
3. **Right-Click** - on a window to open its options menu. Windows can be layed on one another and the layer can be adjusted with the Top, Bottom, Forward and Backward options.
4. **Property** - View and adjust window settings. WIN X0/Y0 are the x and y coordinates of the top left of the window, with the top left of the screen being 0,0.
5. **Frame Width/Color** - Add a colored border to the window. Frame width must be greater than 0.



5.1 WINDOW ARRANGEMENT (CONT)

Screen Tools - Save Layouts and Create Loops

1. **Screen Tools** - Quick Open, Close All, Create Preset, Layout Loop, Subtitle Loop, OSD Menu.
2. **Pre-Operate/Project** - When Pre-Operate is disabled, changed made to the videowall will be executed immediately. When Pre-Operate is enabled, changes will not execute until Project is pressed.
3. **Preview Slider** - Enable or disable live previews of the screen and connected sources.
4. **Quick Open** - Quickly populate the screen with windows with either one source or all available sources sequentially. Layout 1, 2 or 4 windows per screen via the Win Type option.
5. **Create Preset** - Save the current window configuration. Advanced option check box saves input info as well.
6. **Layout Loop** - Choose 2 or more preset layouts to loop one after another.
7. **Subtitle Loop** - Choose 2 or more sets of subtitles to loop one after another. See Chapter 4.3.
8. **OSD Menu** - See Chapter 4.3.



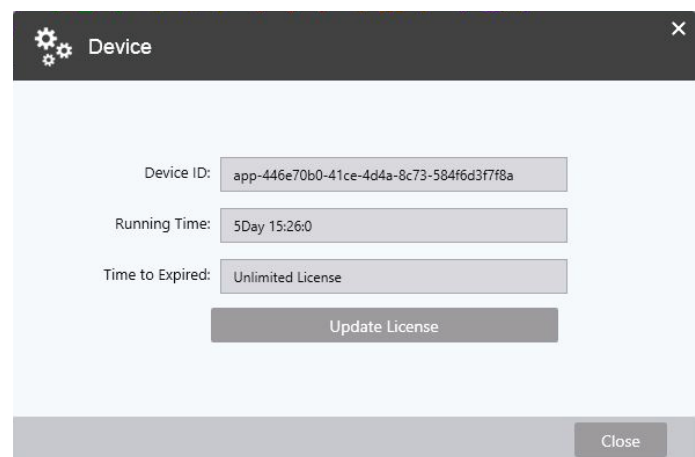
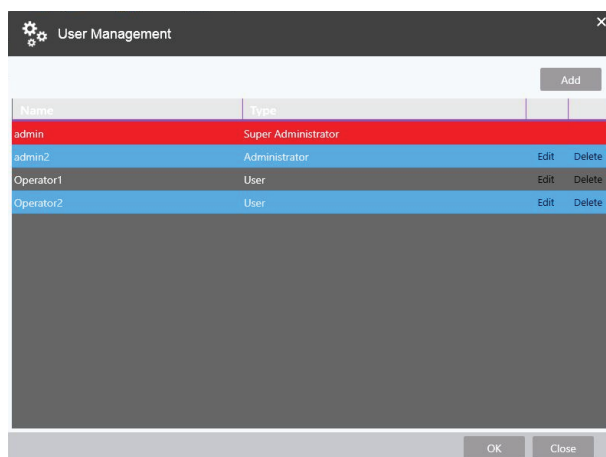
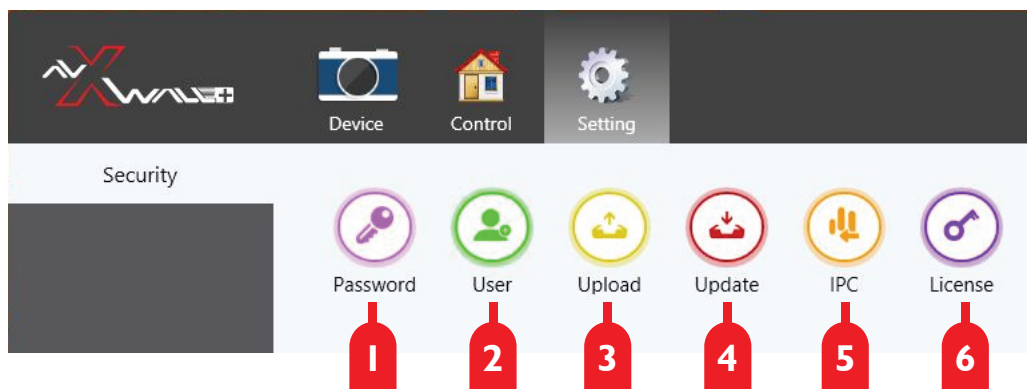
6. SETTING TAB - SYSTEM MANAGEMENT

SECURITY SUBTAB

The AVXWALL+ supports multiple different users, each with their own permission level. Admins have full control over the system while operators can only move windows or apply saved layouts. Screen and device options are restricted. This section details all the security features of the AVXWALL+.

6.1 SECURITY SUBTAB - USER MANAGEMENT

1. **Password** - Change the password for the currently logged in user.
2. **User** - Create or delete users and modify user permissions.
3. **Upload** - Upload a custom system configuration for the AVXWALL+ control unit (sold separately).
4. **Update** - Update the AVXWALL+ firmware with files provided by Avenview.
5. **IPC** - Upload a custom system configuration.
6. **Licence** - Add or update a licence file for the IP decoder card.



7. TROUBLESHOOTING TIPS

PROBLEM	CORRECTIVE ACTION
NO IMAGE	<ul style="list-style-type: none"> • Check that the source is on and outputting a signal • Make sure that each output and input is correctly connected to the corresponding device • Use Premium Quality HDMI and DisplayPort cables • Check output cards using test image in the AVXWALL+ Controller Software • Check output cable for damage or if its length exceeds specifications
UNABLE TO CONNECT TO SOFTWARE	<ul style="list-style-type: none"> • Check if the ethernet cable is connected properly • Ensure your PC's IP settings are correct • Check Windows firewall settings • Make sure you are connected to the correct RJ-45 port on the AVXWALL+ • Ensure the correct IP and Port is entered in the AVXWALL+ software • Power cycle the AVXWALL+ and your PC
SHAKING OR NOISY IMAGE	<ul style="list-style-type: none"> • Check cable length does not exceed specification • Check cable quality
DARK EDGE IN DISPLAY IMAGE	<ul style="list-style-type: none"> • Check if video signal has been cropped by the display • Check if incorrect adjustment of the video has been made in the Controller software • Reset AVXWALL+ to default settings using Controller software, then reconfigure



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