



# Neovo Controller User Guide

Version 1.0

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# INTRODUCTION

Neovo Controller is a software application tool that allows users to control, configure, and test public displays via LAN, RS-232, or the new Wi-Fi connection. This tool not only enhances the connection stability of the first-generation version but also introduces a more intuitive interface and automatic detection feature, helping users manage display devices more efficiently. In addition, Neovo Controller includes a member login system and local storage of device lists, providing a more personalized user experience.

## Features and Benefits

- Easy remote access to many common control functions
- Access to advanced tiling controls with automatic alignment
- Control one or multiple displays through display grouping
- Enable member login to save personalized settings and device lists.
- Allow local storage of device lists for easier switching between devices.

## Usage Scenarios

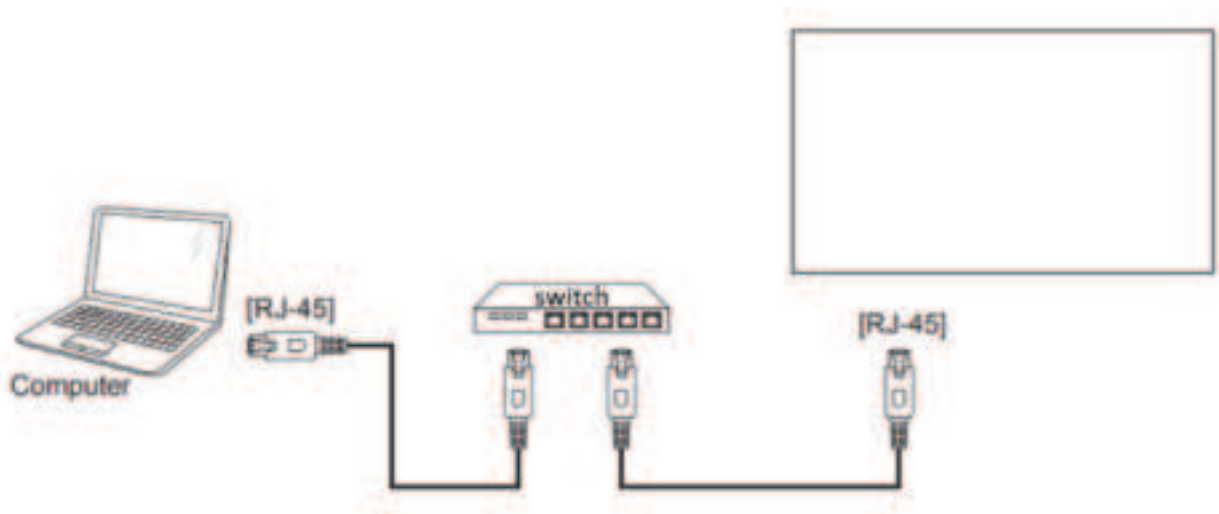
- Finding command codes for programming into an external control system
- Remotely controlling installed displays, with support for cloud-connected remote monitoring
- Quickly configuring a video wall using intelligent automatic tiling settings
- Switching video sources of multiple displays, with support for custom schedules
- Saving device lists and preference settings through member login to enhance user experience

# MAKING CONNECTIONS

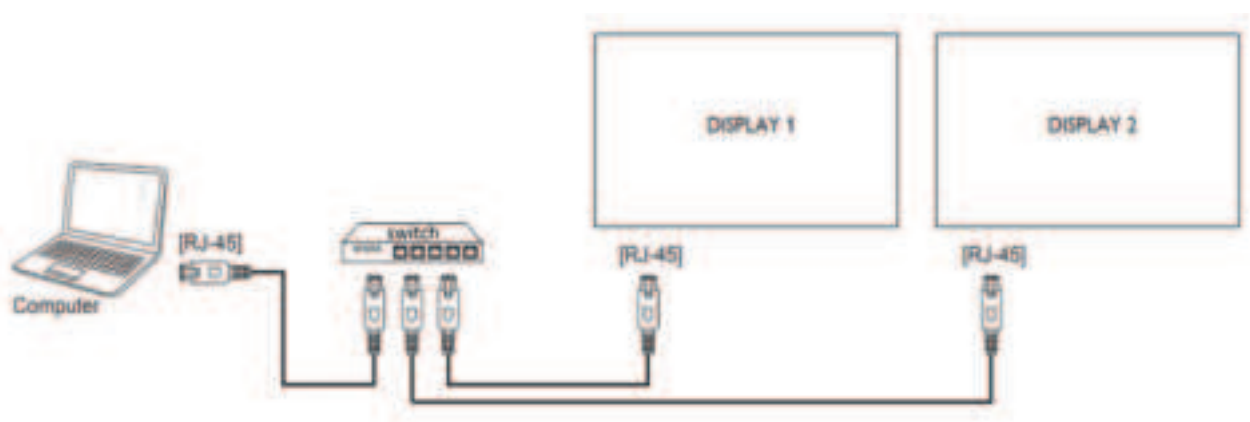
You can interconnect multiple display to create a daisy-chain configuration a video wall via LAN or RS-232.

## Connecting via LAN

- Single display setup:



- Multiple display setup:

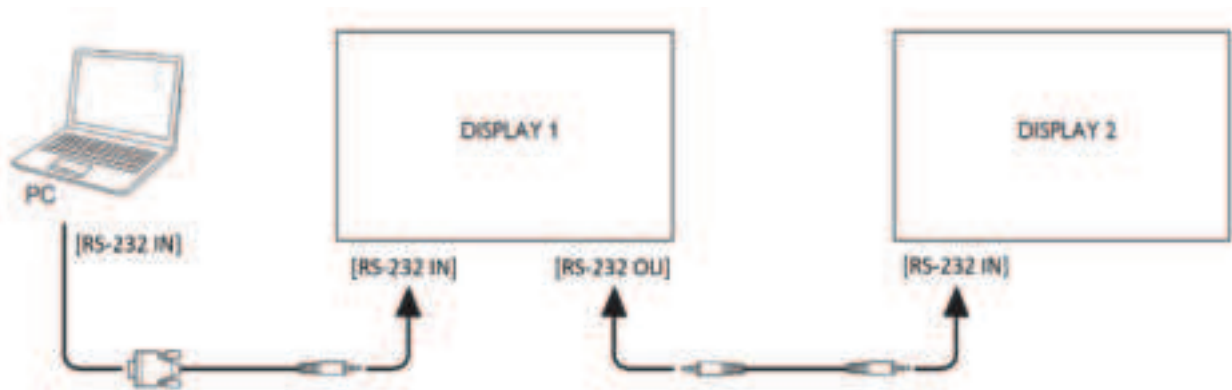


# MAKING CONNECTIONS

## Connecting via RS-232

Connect the RS-232 cable to the corresponding serial port in your computer and display respectively.

Connect the RS-232 OUT connector of DISPLAY 1 to the RS-232 IN connector of DISPLAY 2 to create a daisy-chain configuration.



Note: A USB to RS-232 adapter is necessary for computers which do not have a physical serial port.

# CONTROLS AND FUNCTIONS

## Member Login and Local Storage

Neovo Controller introduces a member login system, allowing users to log in and save personalized settings and device lists. Additionally, it supports local storage of device lists, making it easy to maintain consistent settings when switching between different computers.

### Member Login Feature

Users can register and log in to a member account to access personalized device lists and preference settings.

Support multi-device login to ensure consistent settings across different devices.

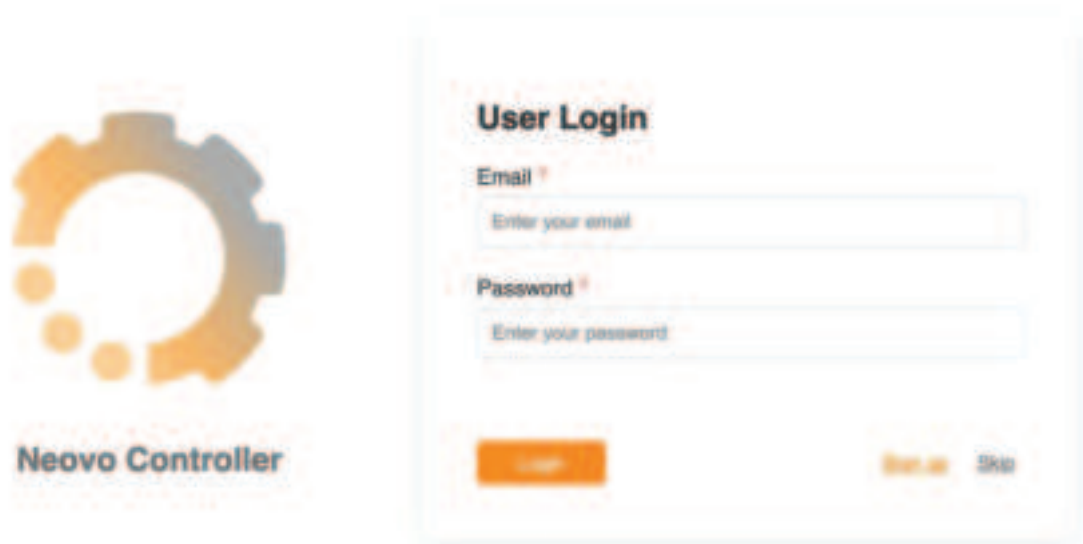
### Local Storage of Device Lists

Automatically saves device lists locally, so users do not need to re-establish connections each time.

# CONTROLS AND FUNCTIONS

## Getting Started

Upon launching Neovo Controller, You will see the login screen as shown below.



On this screen, You have three options:

If you already have an AG Neovo member account: Simply enter your email and password to log in.

If you do not have an AG Neovo member account: Click on "Sign Up" to register for a new account.

If you wish to use Neovo Controller without logging in, click "Skip" to continue.

# CONTROLS AND FUNCTIONS

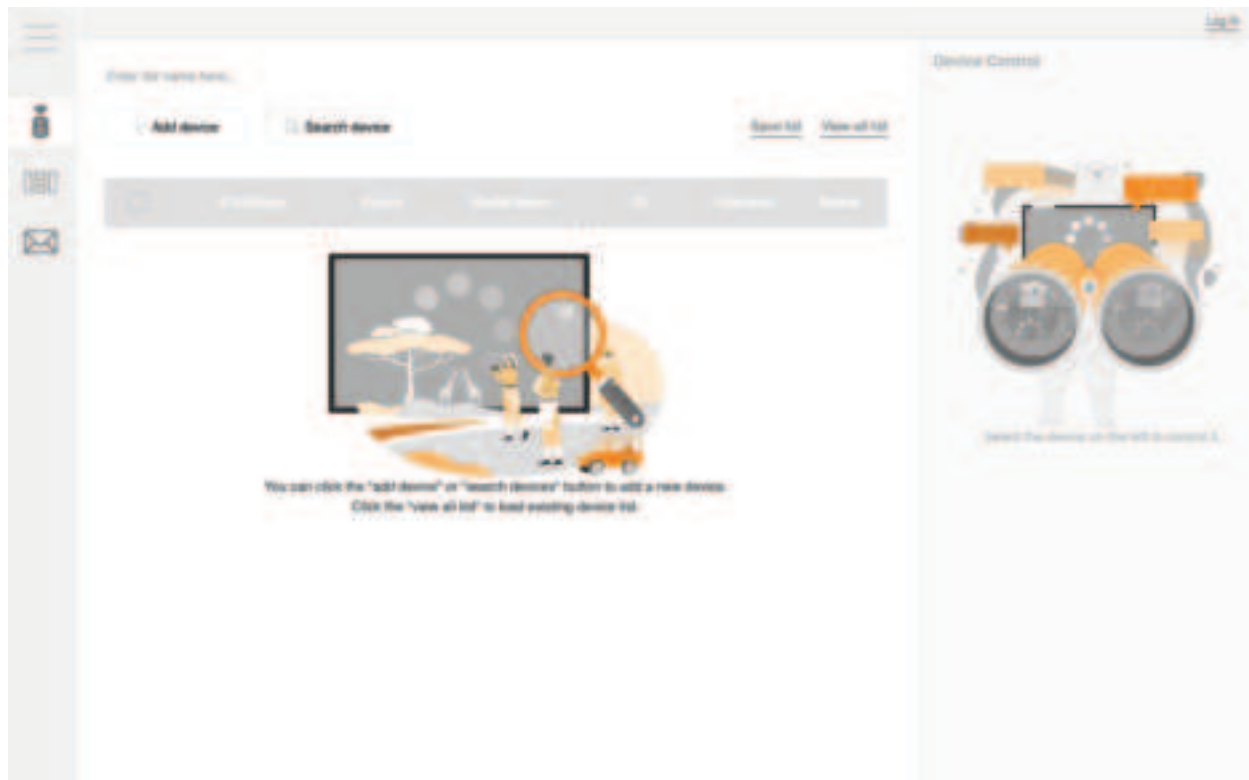
## Adding or Searching for Displays

After logging in or selecting "Skip," you will be directed to the main screen of Neovo Controller.

When using Neovo Controller for the first time, it is necessary to add the displays you want to control.

As previously mentioned, you can use the "Search device" button to automatically search for displays within the network domain. Alternatively, if you have already connected a display via RS-232 using a USB-to-RS232 adapter, you can also add the device manually.

First, let us explain how to use the search function to add displays.

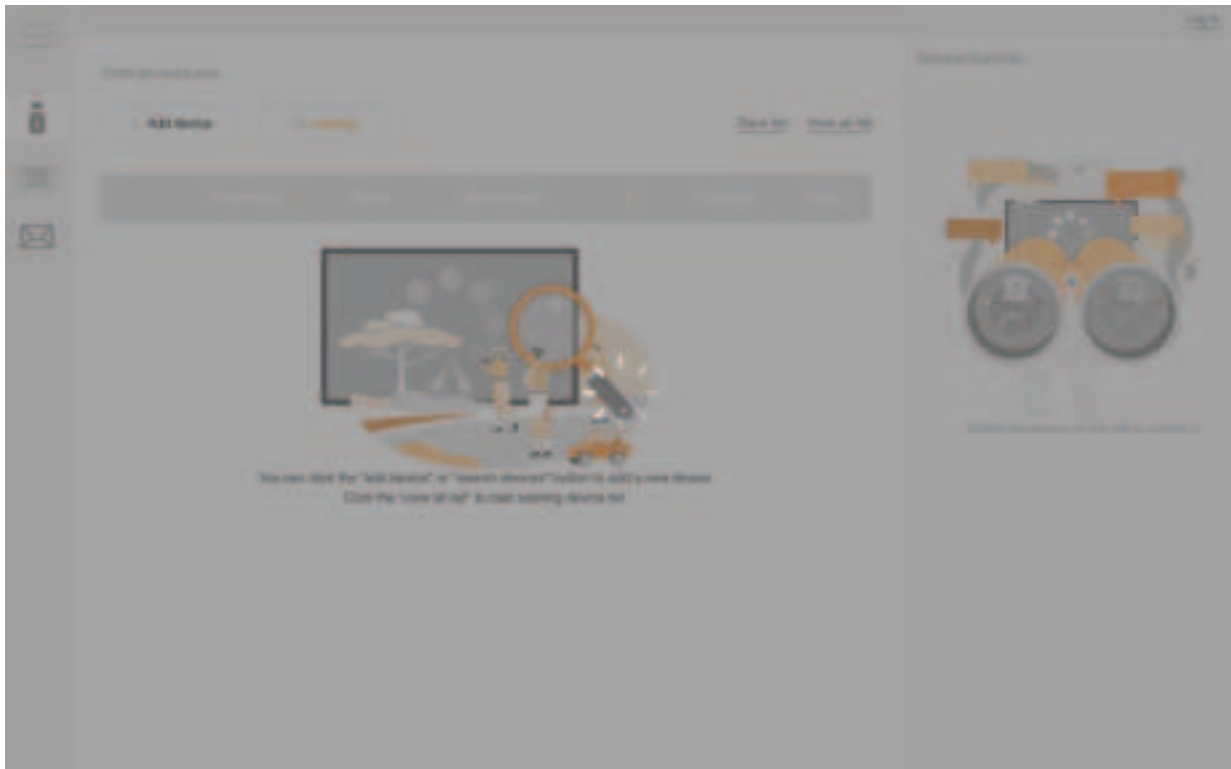




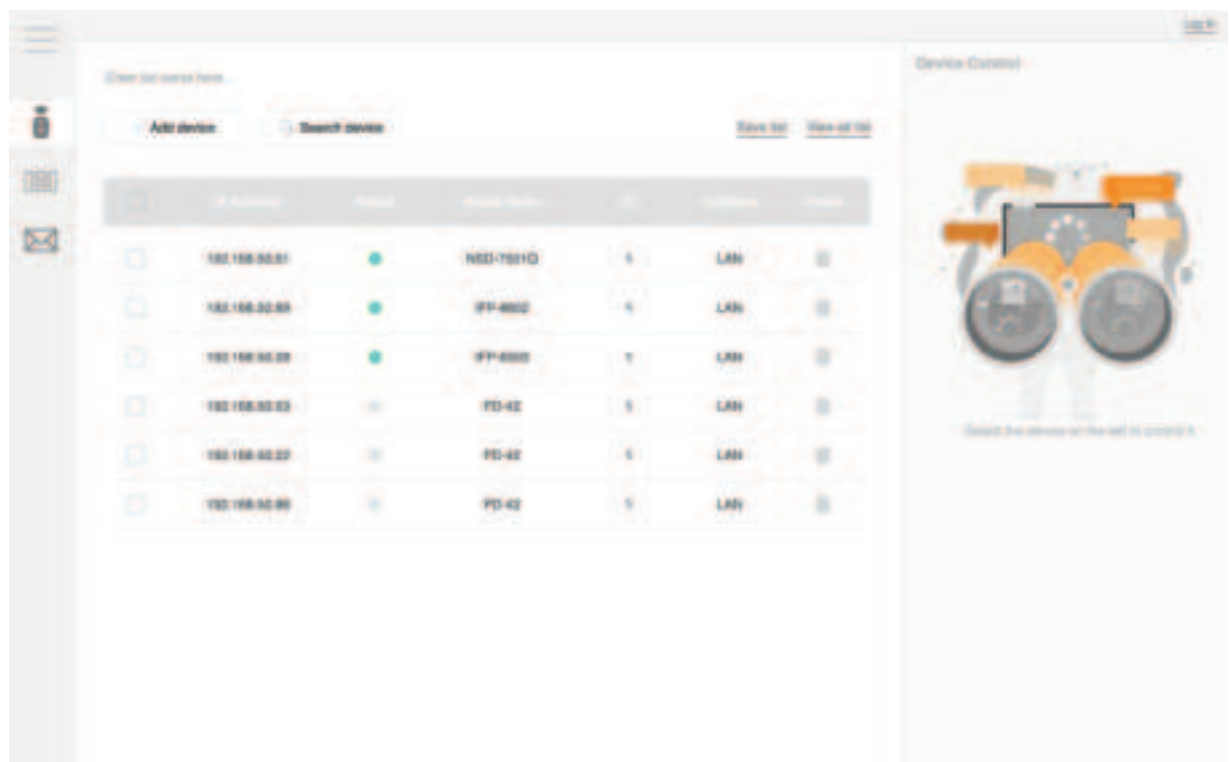
# CONTROLS AND FUNCTIONS

## Searching for Displays

Ensure that your display is connected to the same network as the current device. Simply press the "Search device" button, and within approximately ten seconds, the search results will be displayed on the screen.



Once the search is complete, you will see the available displays listed.

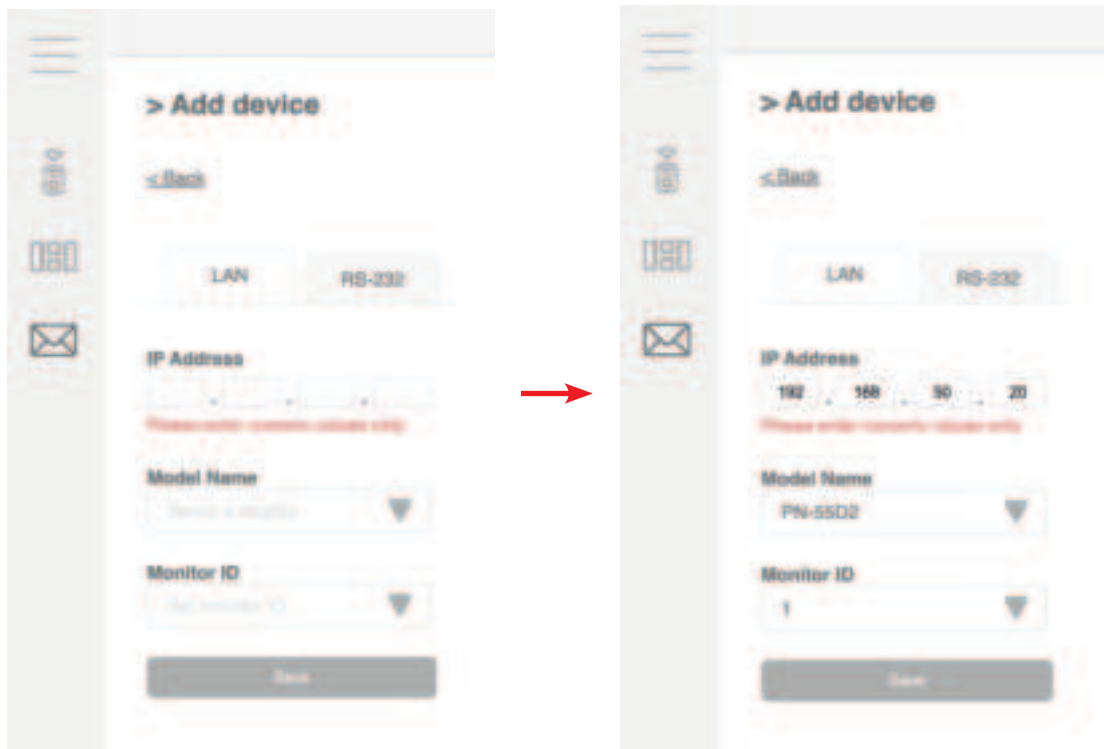


# CONTROLS AND FUNCTIONS

## Adding a Device - LAN

To add a device manually, click on the "Add device" button.

You can add a LAN device by entering its IP address, selecting the model name, and specifying the monitor ID. Once the information is complete, click "Save." The newly added display will then be shown in the device list.



The image shows two screenshots of the "Add device" form, illustrating the process of adding a LAN device. The left screenshot shows the form with empty fields for IP Address, Model Name, and Monitor ID. The right screenshot shows the form with the IP Address set to 192.168.90.20, Model Name set to PN-SSD2, and Monitor ID set to 1. A red arrow points from the left screenshot to the right screenshot.

After saving, the display will appear in the list, as shown below.

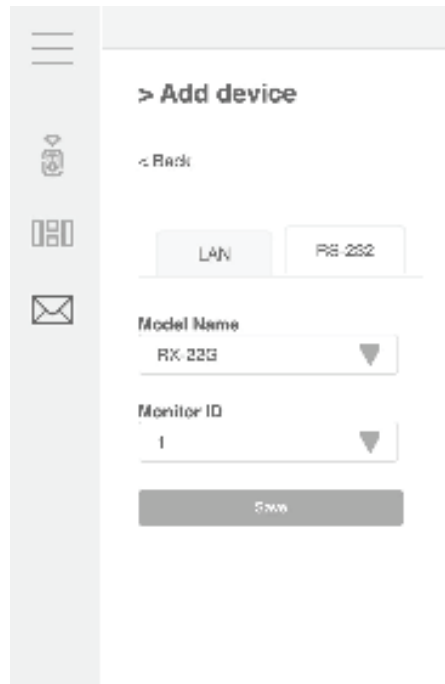


|                          | IP Address    | Model Name | Monitor ID | Connection Type |
|--------------------------|---------------|------------|------------|-----------------|
| <input type="checkbox"/> | 192.168.90.20 | PN-SSD2    | 1          | LAN             |

# CONTROLS AND FUNCTIONS

## Adding a Device - RS-232

After selecting the "RS-232" tab, first confirm the model of the display you want to connect. Then, locate and select the device in the dropdown menu to ensure the model is correct, allowing successful identification and control of the display. Once these steps are completed, enter the monitor ID and other required information, then click "Save," and the display will appear in the list.



The screenshot shows a mobile application interface for adding a device. On the left is a vertical sidebar with three icons: a hamburger menu, a device icon, and an envelope icon. The main content area is titled "> Add device" and includes a "< Back" link. Below the title are two tabs, "LAN" and "RS-232", with "RS-232" being the active tab. The form contains two dropdown menus: "Model Name" with "RX-232" selected, and "Monitor ID" with "1" selected. At the bottom of the form is a grey "Save" button.



# CONTROLS AND FUNCTIONS

## Device Control Functions

Once you have added the displays you wish to control, you can begin using the features of Neovo Controller.

The **Device Control** panel consists of three main tabs:

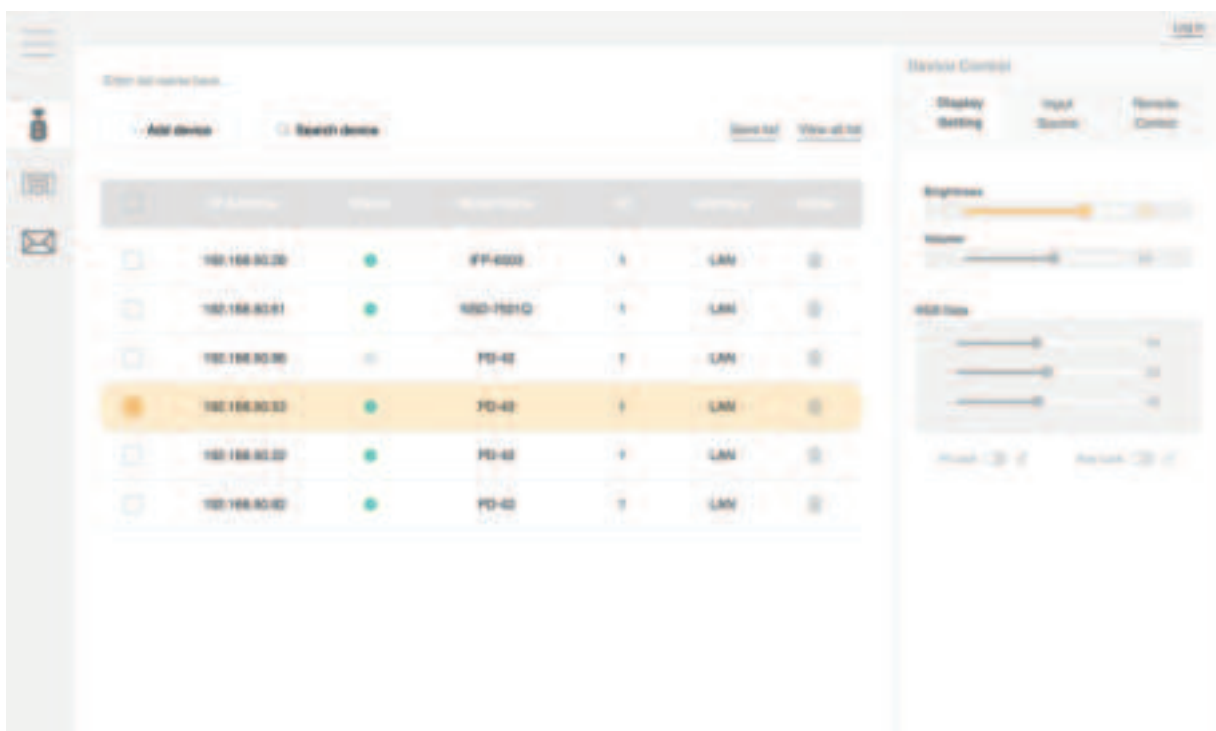
1. **Display Setting**
2. **Input Source**
3. **Remote Control**

## Display Setting

The **Display Setting** tab allows you to adjust the basic parameters of the display, such as brightness, volume, and color settings. When only one display is selected, you will receive real-time information from the display, including:

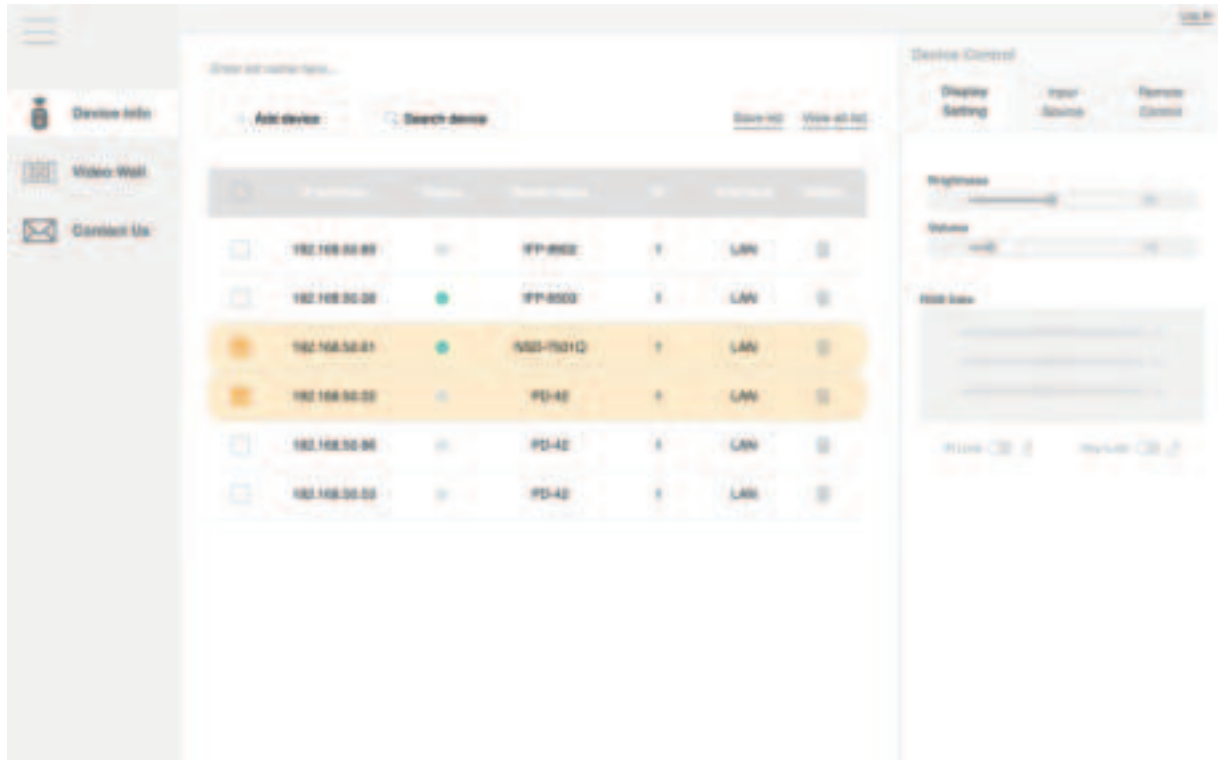
- Power status
- Current brightness level
- Current volume level
- Available control functions

For example, when adjusting the brightness value of the PD-42 display in the image, the brightness of the display will change immediately.



# CONTROLS AND FUNCTIONS

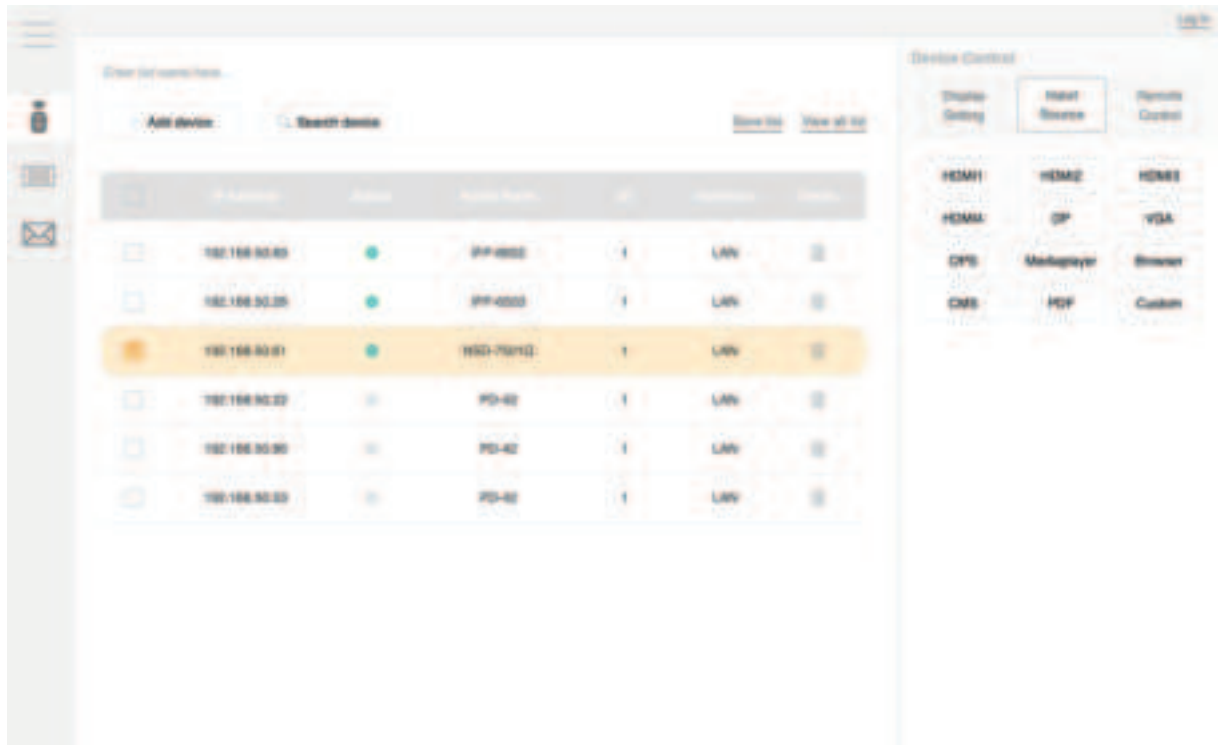
When multiple displays are selected, adjusting the brightness value will apply the change to all selected displays simultaneously, provided they support brightness adjustment. This ensures that the displays remain synchronized in terms of brightness level.



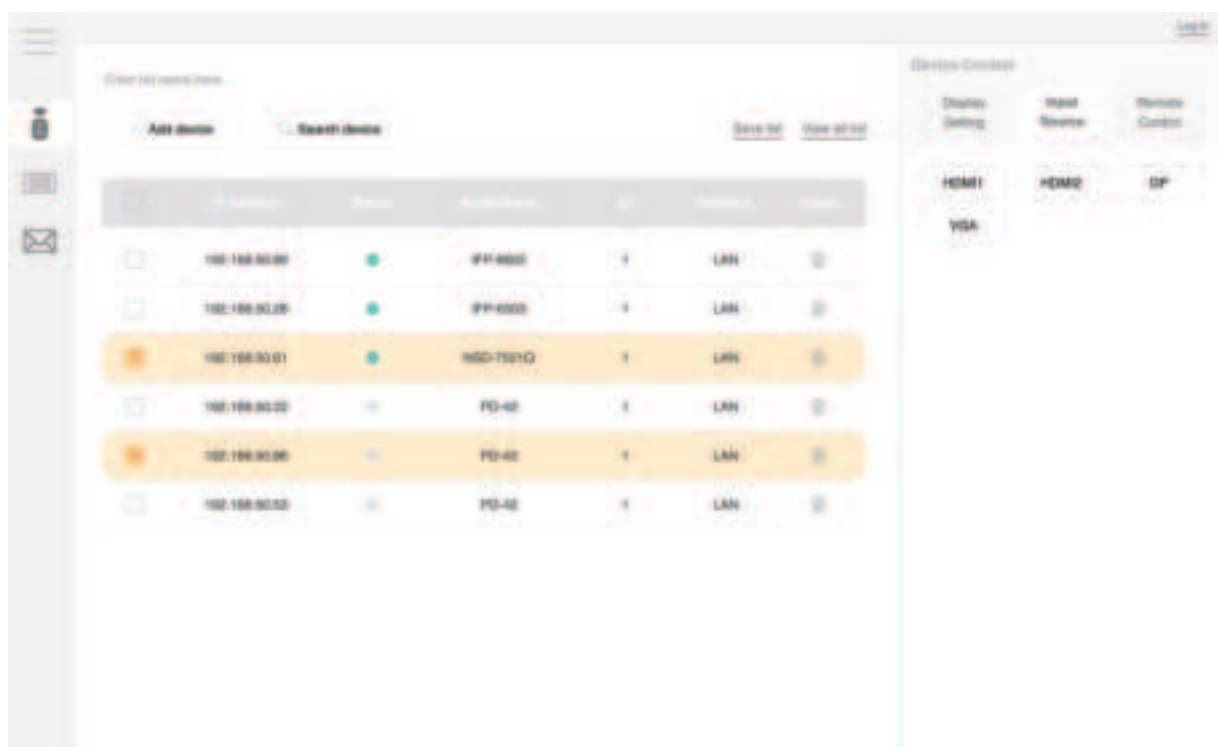
# CONTROLS AND FUNCTIONS

## Input Source

The Input Source tab provides information about the available channels for the selected display. When a single display is selected, you will see all the input channels that the display can switch to.



However, when multiple displays are selected, only the channels that are common to all selected displays will be shown to ensure consistent operation.



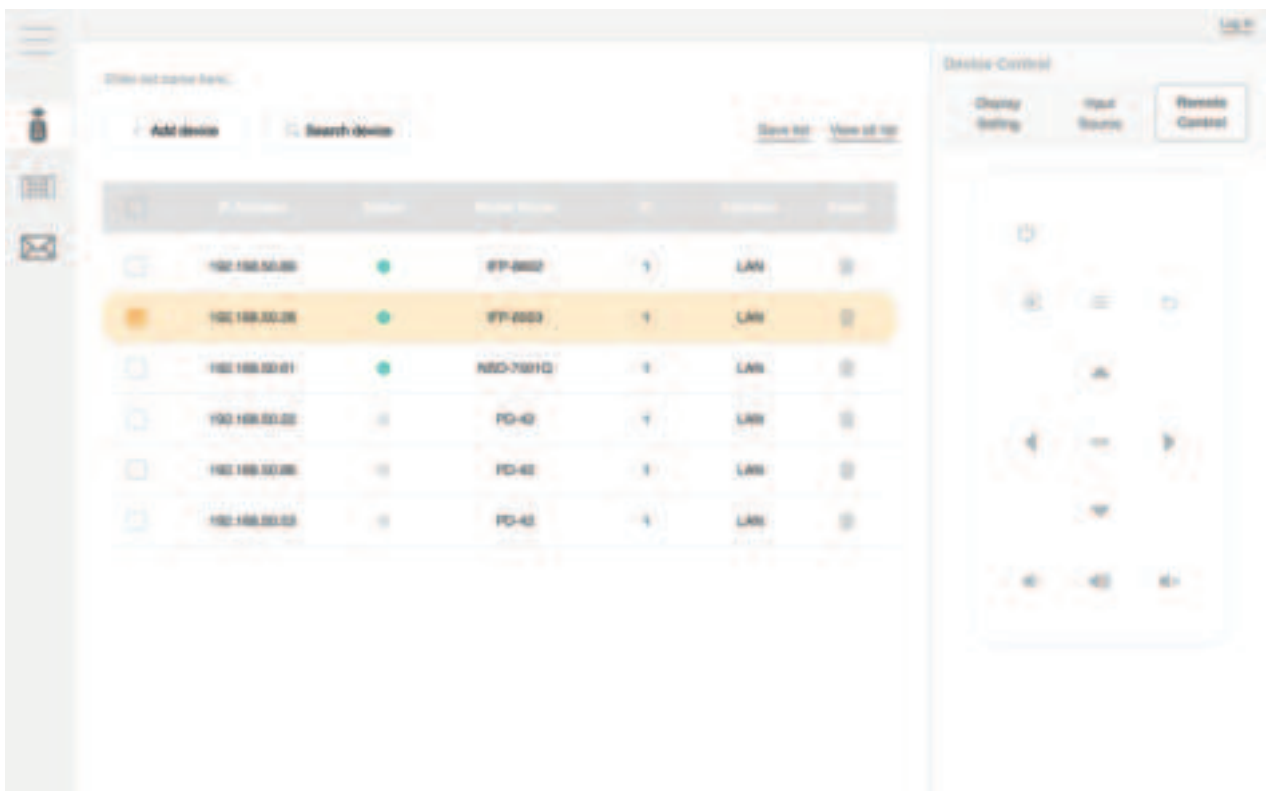
# CONTROLS AND FUNCTIONS

## Remote Control

The **Remote Control** tab allows you to control displays in real time using remote control features. Full remote control functionality is supported for the following models:

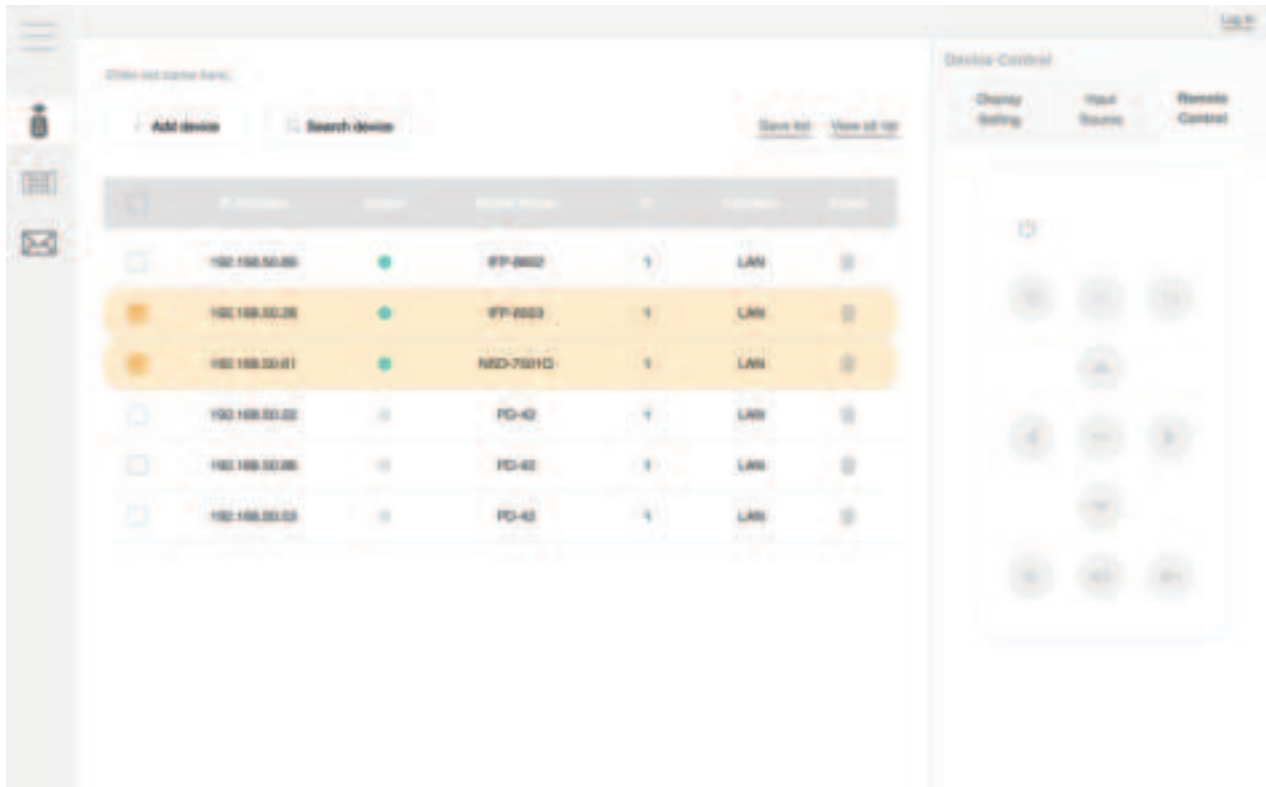
- NSD-Gen3
- IFP-Series
- PD-Series

These displays can be controlled as if using a physical remote, enabling real-time adjustments and operations.



# CONTROLS AND FUNCTIONS

When multiple displays are selected, if any of the selected models do not support remote control functionality, only the power button will remain accessible for those displays. This ensures that basic control is still available while maintaining compatibility across models with varying remote control capabilities.





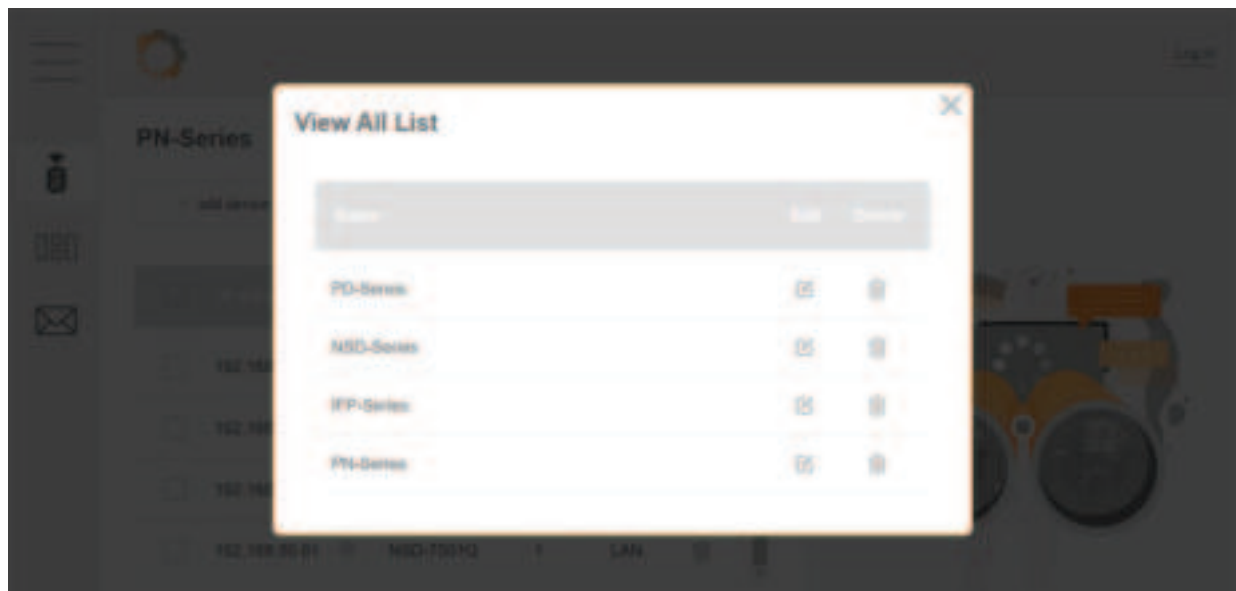
# CONTROLS AND FUNCTIONS

## Device List Management

Above the device list, there are two buttons: **Save list** and **View All list**.



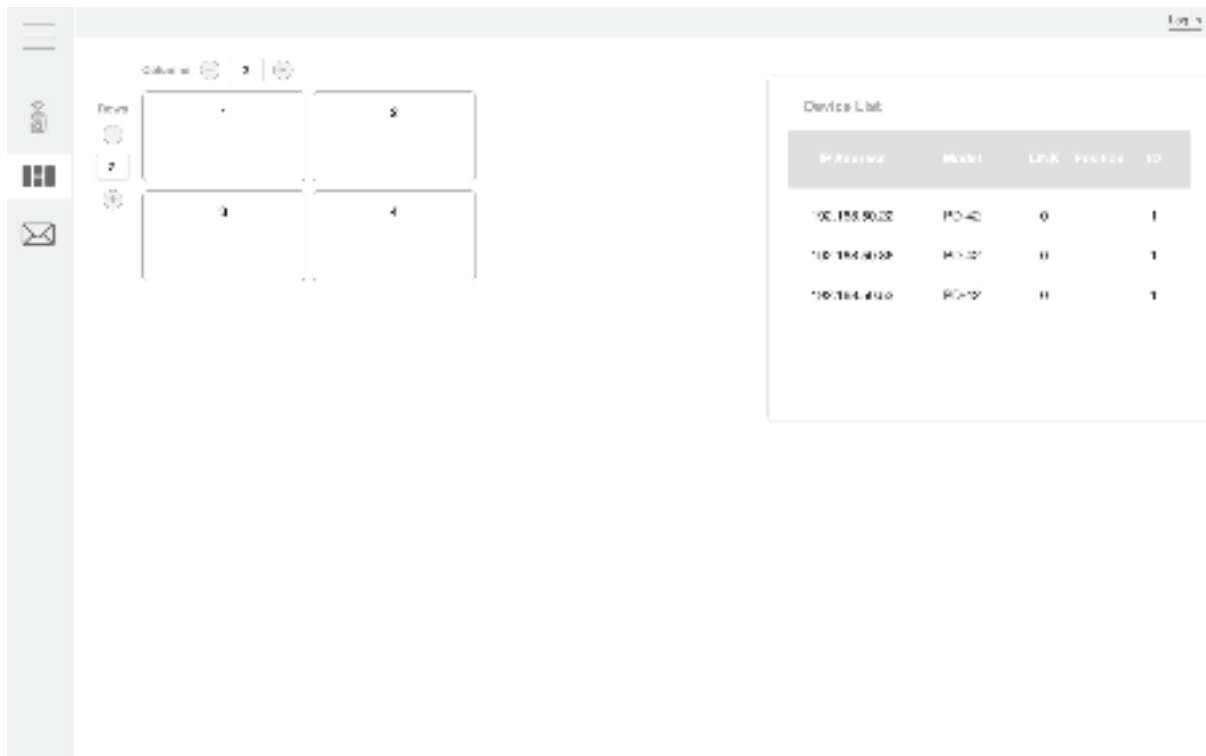
We recognize that some users may own a large number of AG Neovo displays. Therefore, you can define custom names for each list and use these lists to group displays for more efficient control. This allows you to easily manage and operate different sets of displays based on your requirements.



# CONTROLS AND FUNCTIONS

## Video Wall Functionality

Neovo Controller automatically imports the displays that were added or searched previously and determines if the displays support Video Wall functionality. In this section, we will use the PD-42 as an example.



You will see the Video Wall settings on the left side of the screen, while the right side displays the list of displays that support Video Wall functionality.

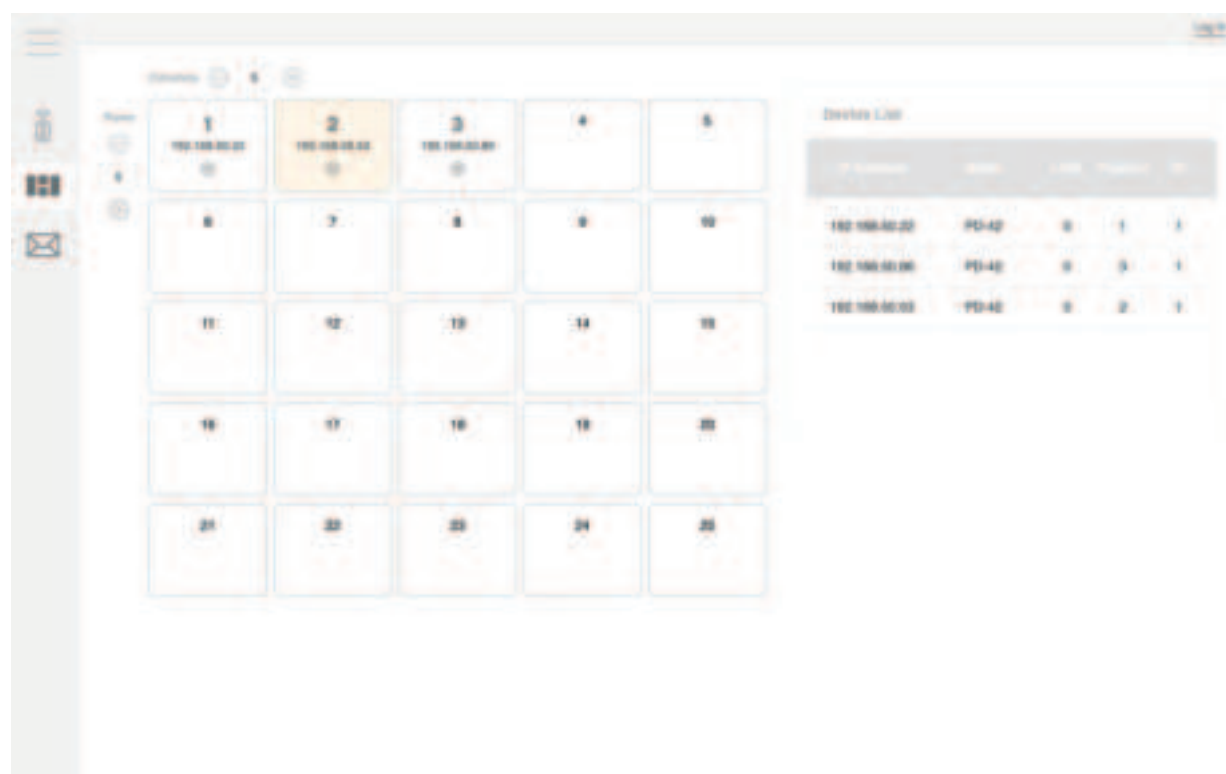
The Video Wall function allows you to create a seamless large screen by combining multiple displays, which can be managed centrally using Neovo Controller.

# CONTROLS AND FUNCTIONS

Activating the Video Wall is simple: first, click on the position where you want to place a screen, then select the display to be placed in that position. The display will immediately be activated in Video Wall mode, and all changes are reflected in real time.



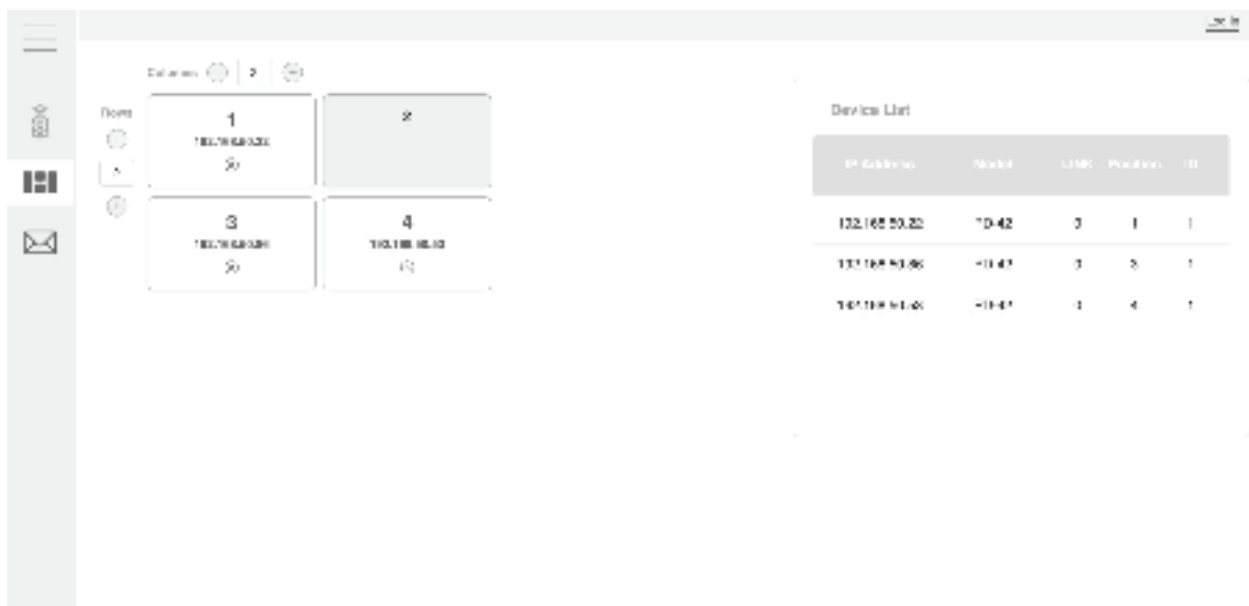
Note: The maximum supported configuration for the video wall is 5x5.



# CONTROLS AND FUNCTIONS

If you find that a display is in the wrong position, you can even drag and drop the display to swap its position with another. The Video Wall will respond instantly to the new layout.

Additionally, to remove a display from the Video Wall, simply click the **X** button below the display, and it will be removed from the configuration.



# CONTROLS AND FUNCTIONS

## Feedback and Contact

We hope Neovo Controller helps end customers, system integrators (SI), and partners use, manage, and control AG Neovo displays more effectively. We are always eager to hear your thoughts and suggestions for improvement. If you have any feedback or issues to share, please navigate to the Contact Us page, fill in your details, and let us know about your experience. We will get back to you as soon as possible.



The screenshot shows a web interface for the 'Contact Us' form. At the top center is a circular logo with a stylized 'N' and the text 'Contact Us' below it. The form consists of several input fields: 'First name' and 'Last name' (each with a placeholder 'Enter your first/last name'), 'Email' (placeholder 'Enter your email'), 'Country' (placeholder 'Enter your country'), 'Company' (placeholder 'Enter your company name'), and a larger 'Message' field (placeholder 'Enter your message'). A blue 'Submit' button is located at the bottom center of the form. On the left side of the interface, there is a vertical sidebar with several icons, including a gear for settings and a mail icon for contact. The top right corner of the interface has a 'Log out' link.