

# User Manual

## Kiloview LinkDeck IP Control Panel

(V5.3)



### Contents

- Packing List
- Device interfaces and functions
- Device connection, login and use guide
- Device upgrade and restore to factory settings

Before using this product, it is recommended that you read the guide carefully. To ensure your personal safety and avoid physical or electrical damage to the device, please strictly follow the instructions of this guide to install and use it under the guidance of professionals. Incorrect electrical connections or physical installation may cause permanent damage to the device and even threaten personal safety.

# 1 LinkDeck System Introduction

The LinkDeck IP control panel is a central console designed to control all the Kiloview systems and terminals comprehensively. The control panel adopts a fully IP-based and modular design, utilizing WebRTC technology to manage the Kiloview NDI CORE, Multiview Pro, NDI Recorder, KIS (Intercom), KiloLink Server and all KILOVIEW products for remote control. It supports various workflows, including multi-screen monitoring, live video production, camera switching, and remote control of NDI terminals, allowing the panels to be operated from anywhere with a network connection.

The LinkDeck IP control panel consists of the Panel Deck (host panel), Take Deck, PTZ Deck, Zoom Deck, and KIS Deck. With modular design, these panels have unified size and installation standards, allowing users to select and combine the modules as needed.



**For more information about the architecture and functionality of LinkDeck, please visit the following official website of Kiloview.**

<https://www.kiloview.com/en/kiloview-linkdeck/>

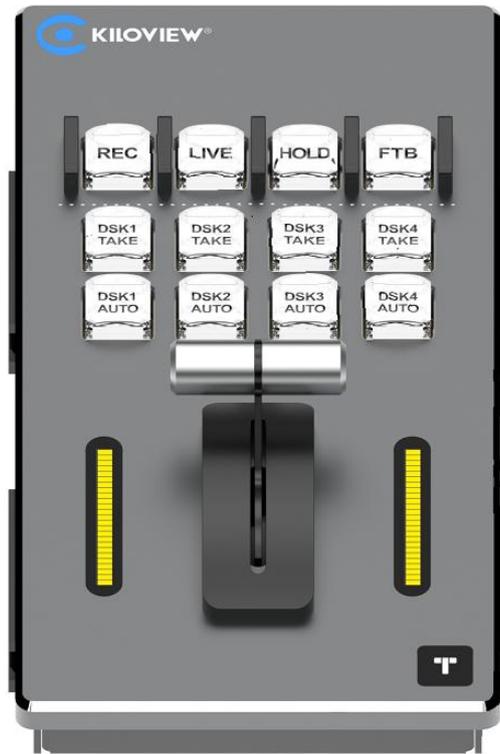
## 1.1 Introduction

Panel Deck is the core control component of LinkDeck, equipped with a 10.1-inch LCD touch screen and 24 dual-color physical buttons. It can display the required interface on the built-in HD screen, enabling comprehensive monitoring of inputs and outputs. Both the physical and soft buttons can be customized based on the need to trigger corresponding functions and achieve flexible control.



## 1.2 Introduction to Take Deck

Take Deck is equipped with a "T-Bar" that allows switching between PVW and PGM to achieve the fading effects. The component also features 12 physical buttons that can be customized according to application requirements, such as graphics overlay, live streaming, recording and locking.



## 1.3 Introduction to PTZ Deck

PTZ Deck supports four-dimensional joystick control, allowing precise adjustments and quick settings for PTZ camera movements and configurations, including focus, Iris, Tune, and other parameters.



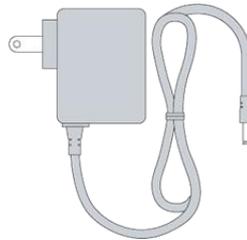
## 1.4 Introduction to Zoom Deck

Zoom Deck is equipped with 12 buttons and a Zoom controller, allowing quick operations such as switching between preset camera positions, zooming in/out, and adjusting the focal length. It also supports saving preset information for future reference.



## 2 Equipment List

### 2.1 Panel Deck Equipment List



(1) Panel Deck unit×1

(2) Power adapter (12V/3A) × 1

(3) User manual × 1



(4) Certificate/warranty card/promotional materials × 1

### 2.2 Other Deck Equipment List

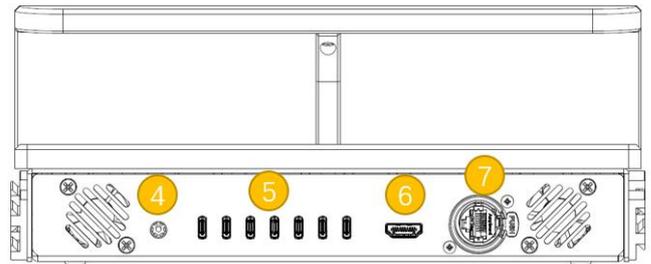


(1) Other Deck components × 1

(2) Dual-head USB-C cable × 2

## 3 Equipment Interfaces

### 3.1 Panel Deck Interfaces and Buttons



- 1) 10.1-inch LCD touchscreen
- 2) Physical control buttons
- 3) Power ON/OFF
- 4) Power interface (DC 12V/3A)

- 5) 7 \* USB Type-C
- 6) HDMI OUT
- 7) 100/1000M Adaptive Ethernet ( PoE++)



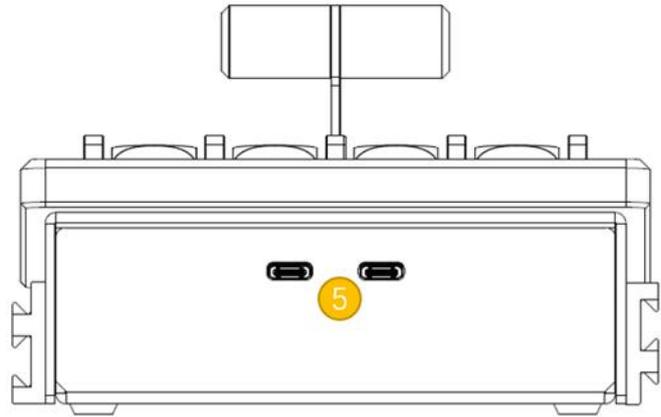
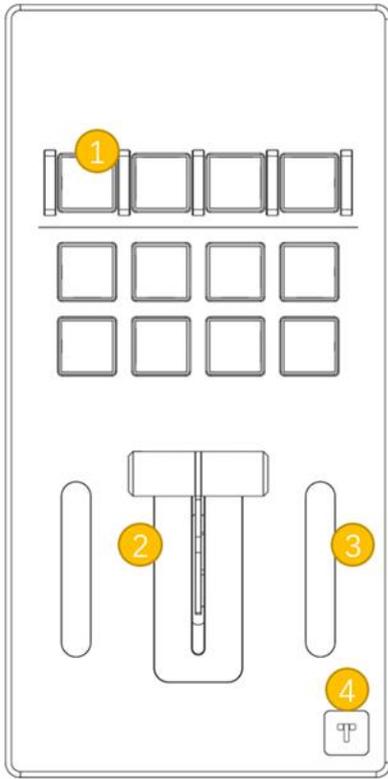
#### Note

- The panel Deck is the core control component of the Link Deck, so this document focuses on introducing Panel Deck;
- Panel Deck's RJ-45 100/1000M Adaptive Ethernet supports PoE++ (compliant with 802.3BT specifications);
- Press and hold the button "3" to power off the device for 3-5 seconds;
- The description of the functions of Panel Deck is based on the controlling of the Multiview Pro (custom button functions will be supported with further updates).

#### ● Panel Deck Control Button Functions:

- 1) The first row of numeric keys: Switch the corresponding video window directly to PVW;
- 2) The Second row of numeric keys: Switch the corresponding video window directly to PGM;
- 3) AUTO key: Automatically switches the current PVW to PGM, including preset wipe and other effects;
- 4) CUT Key: Directly switches the current PVW to PGM without wipe and o effects.

### 3.2 Take Deck Interfaces and Buttons



- 1) Control buttons
- 2) T-Bar
- 3) Effect indicator lights

- 4) T key
- 5) 2 \* USB Type-C



**Note:**

- The description of the functions of Take Deck is based on the controlling of the Multiview Pro (custom button functions will be supported with further updates).

### Take Deck Button Function Description:

#### 1) Control Buttons:

- ① REC Button: Press to start/stop recording;
- ② LIVE Button: Press to start/stop live streaming;
- ③ HOLD Button: Press to enable/disable locking;
- ④ FTB Button: Press to enable/disable fade to black;
- ⑤ DSK1 (TAKE) - DSK4 (TAKE): Custom events for direct switching of DSK1-4 overlay effects to PGM

(without dynamic effects and delay);

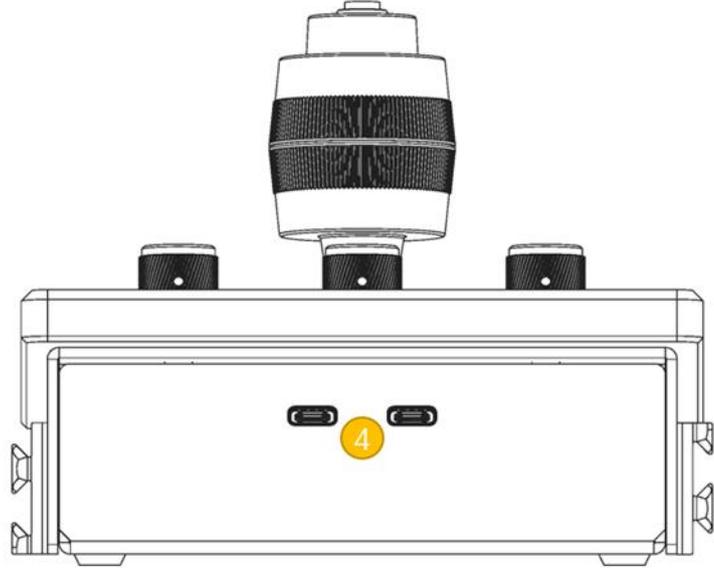
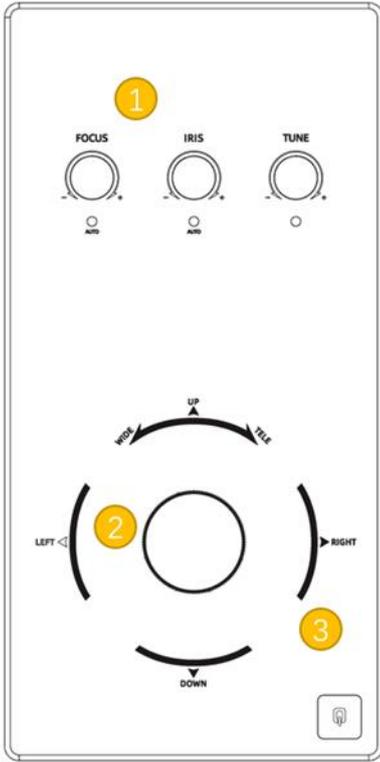
- ⑥ DSK1 (AUTO) - DSK4 (AUTO): Custom events for direct switching of DSK1-4 overlay effects to PGM

(with dynamic effects and delay);

#### 2) T-Bar: Used for manual transitions such as wipe and fade (pushing the T-Bar up completely activates the transition, and pushing it down completely deactivates it);

#### 3) Effect Indicator Lights: It will display the progress of transition with the indicators.

### 3.3 PTZ Deck Interfaces and Buttons



- 1) Control Knobs
- 2) Joystick
- 3) Q key
- 4) 2\* USB Type-C.



#### Explanation

- The PTZ Deck buttons and interfaces are described using Multiview Pro as an example (future versions may allow customizing button functions);
- The current PTZ Deck and Zoom Deck versions only support controlling PTZ cameras in the PVW window.

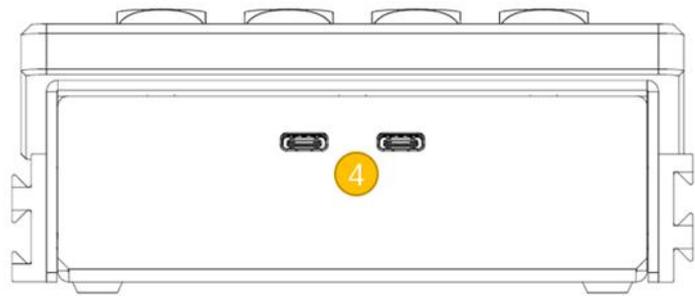
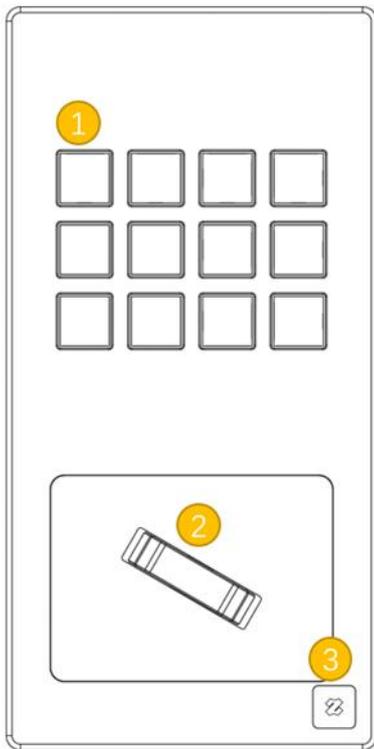
#### ● PTZ Deck Button Function Description

##### 1) Control Knobs

- ① Focus Knob: "Press" to switch between manual and auto mode; rotate in manual mode to adjust the camera's focus in +/-1 increments. The indicator light stays on in auto mode, and the knob is inactive;
- ② Iris Knob: "Press" to switch between manual and auto mode; rotate in manual mode to adjust the camera's iris in +/-1 increments. The indicator light stays on in auto mode, and the knob is inactive;
- ③ Tune: "Press" to switch between manual and auto mode; rotate in manual mode to adjust the camera's white balance in +/-1 increments. The indicator light stays on in auto mode, and the knob is inactive;

- 2) Joystick: Adjust the camera Pan, Tilt, Zoom and the lens zoom; pressing the joystick button will lock the PTZ Deck and Zoom Deck controls. (If multiple PTZ Decks and Zoom Decks are connected to the Panel Deck simultaneously, pressing the joystick will lock all of them, and pressing it again will unlock all of them.)

### 3.4 Zoom Deck Interfaces and Buttons



- |                    |                   |
|--------------------|-------------------|
| 1) Control Buttons | 3) Z key          |
| 2) Zoom Key        | 4) 2* USB Type-C. |



**Explanation**

- The description of the functions of Zoom Deck is based on the controlling of the Multiview Pro (custom button functions will be supported with further updates).
- The current PTZ Deck and Zoom Deck versions only support controlling PTZ cameras in the PVW window.

## ● Zoom Deck Button Function Description

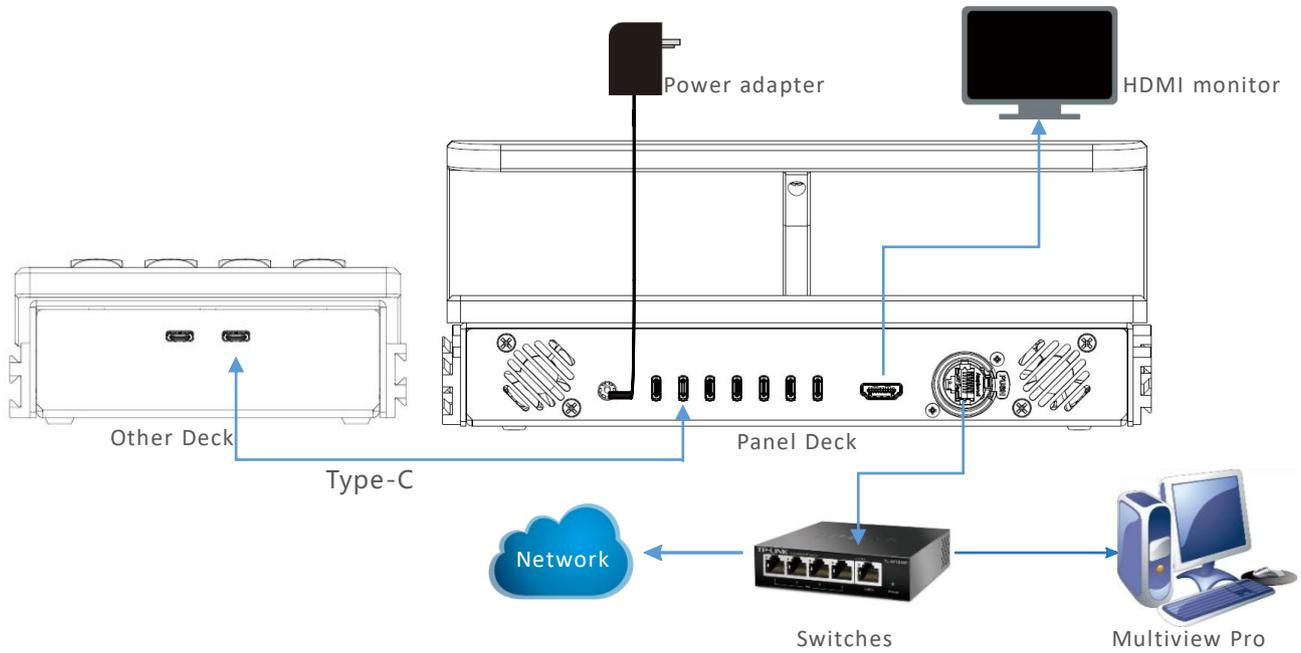
### 1) Control Buttons

① Numeric Buttons: Represent preset positions (combination of "." and a numeric key); save a preset position. For example, after adjusting the camera to a new position using the joystick, pressing "." followed by the number key "1" updates the preset position "1" to the current position;

② Home Button: Call the camera's initial position.

2) Zoom Key: Zoom in or out (enlarges or reduces) the PTZ camera lens.

## 4 Connection Diagram



Device Application Connection Diagram



**Note**

- Customers can define and purchase the other panel modules needed. The other panels are connected to the Panel Deck through dual-head Type-C interfaces. A Panel Deck can connect up to 7 other panels. When connected to other panels via dual-head Type-C USB, the panels will automatically be powered on and connect to the Panel Deck;
- HDMI OUT is used for large-screen monitoring.

## 5 LinkDeck Startup Guide

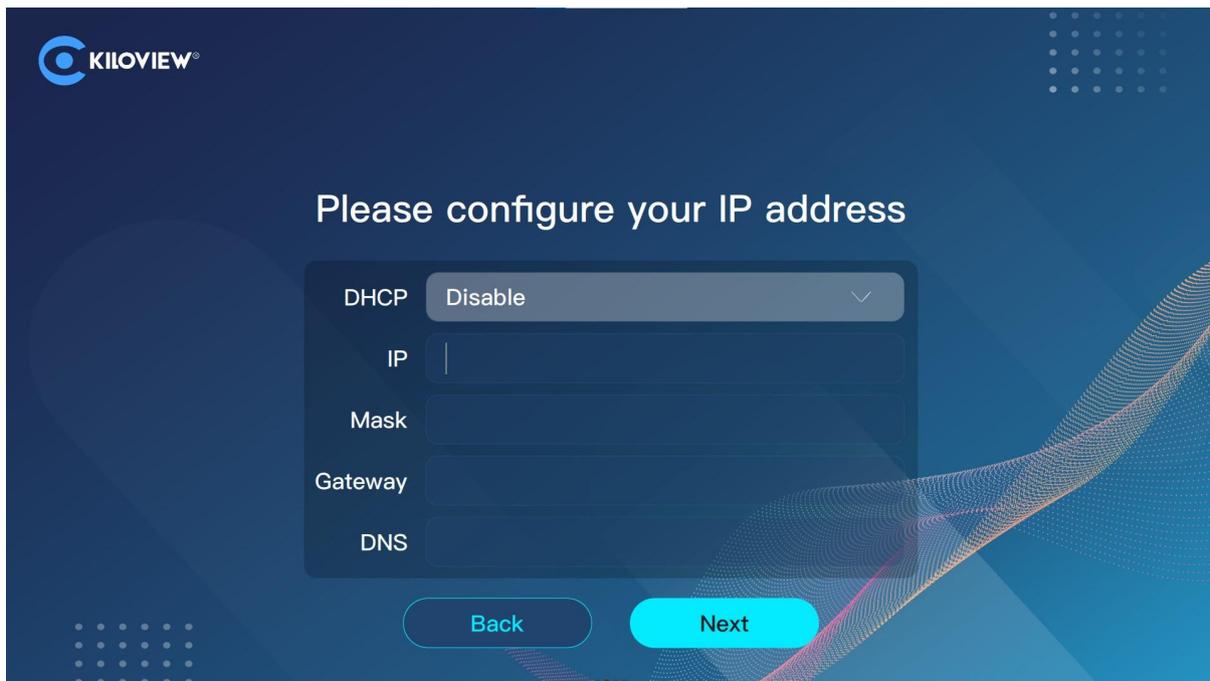
Panel Deck which is the core component of the Link Deck, is equipped with a 10.1-inch LCD touchscreen on the front panel. On the touch screen, you can conveniently view device status, configure IP addresses, perform PTZ control, Take and other operations.

### 5.1 Device Startup

Press the power button on the right side of the Panel Deck, all the deck components connected will start automatically. The screen will display the KILOVIEW logo. Please wait patiently for the startup process. After the device is powered on, follow the system instructions on the Panel Deck touchscreen to complete the initial system configuration.

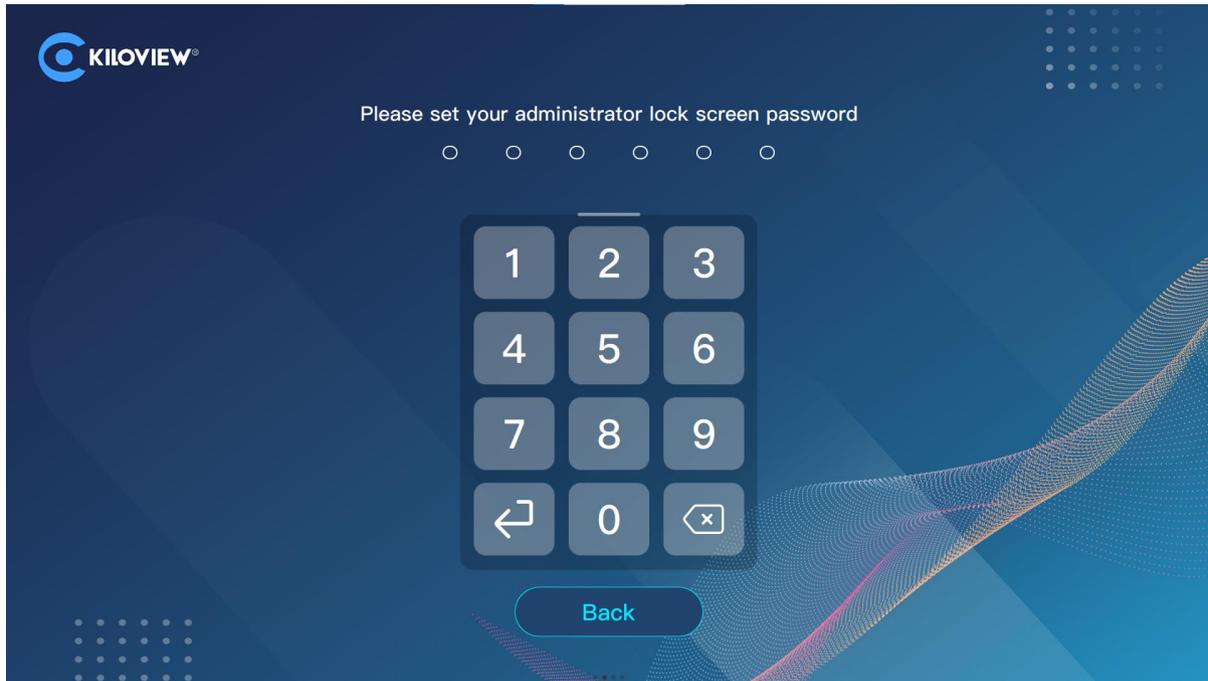
### 5.2 Network Configuration

The LinkDeck startup guide includes network configuration. DHCP or manual settings are supported for network configuration. You can configure it according to your specific situation. Refer to the following diagram:



## 5.3 Screen Lock Password

During the initial startup guide, LinkDeck requires the configuration of a screen lock password. The password needs to be set twice.

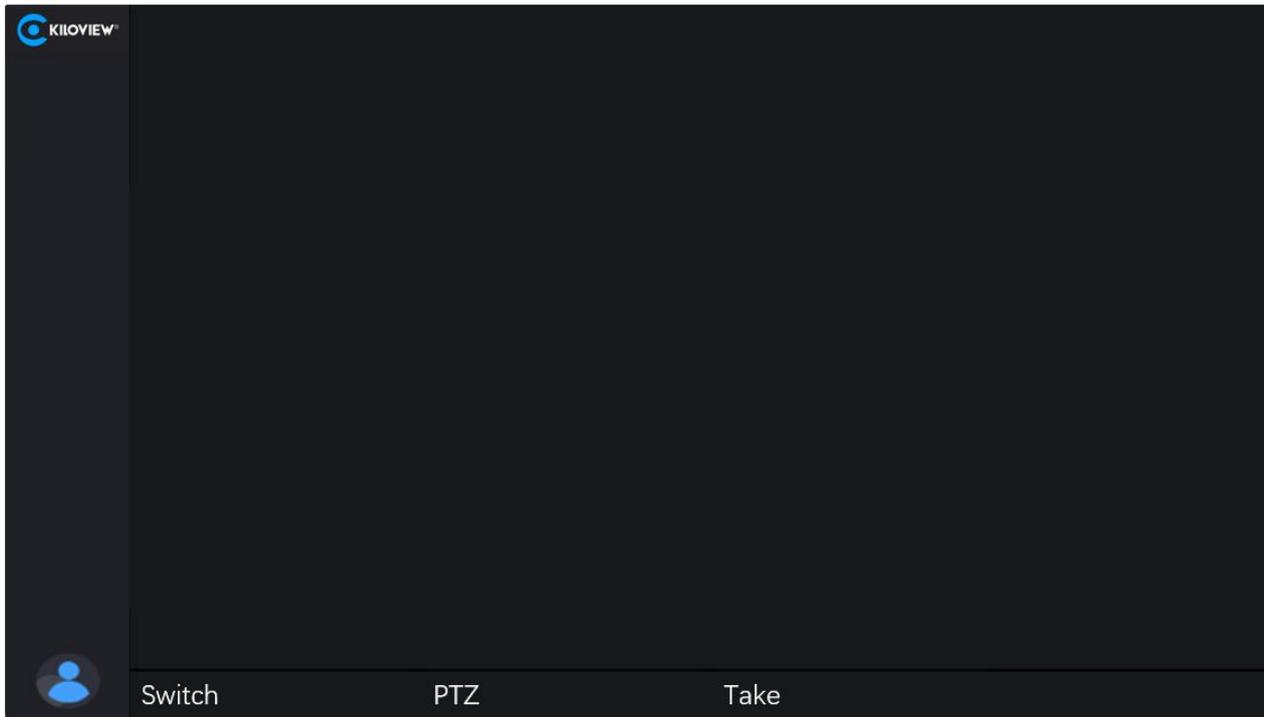


### Note

- The screen lock password is required when configuring system parameters on the LinkDeck touchscreen. Please ensure it's protected;
- LinkDeck does not have a default IP address, so manual IP address configuration or DHCP is required for network configuration.

## 5.4 Startup Guide Completion

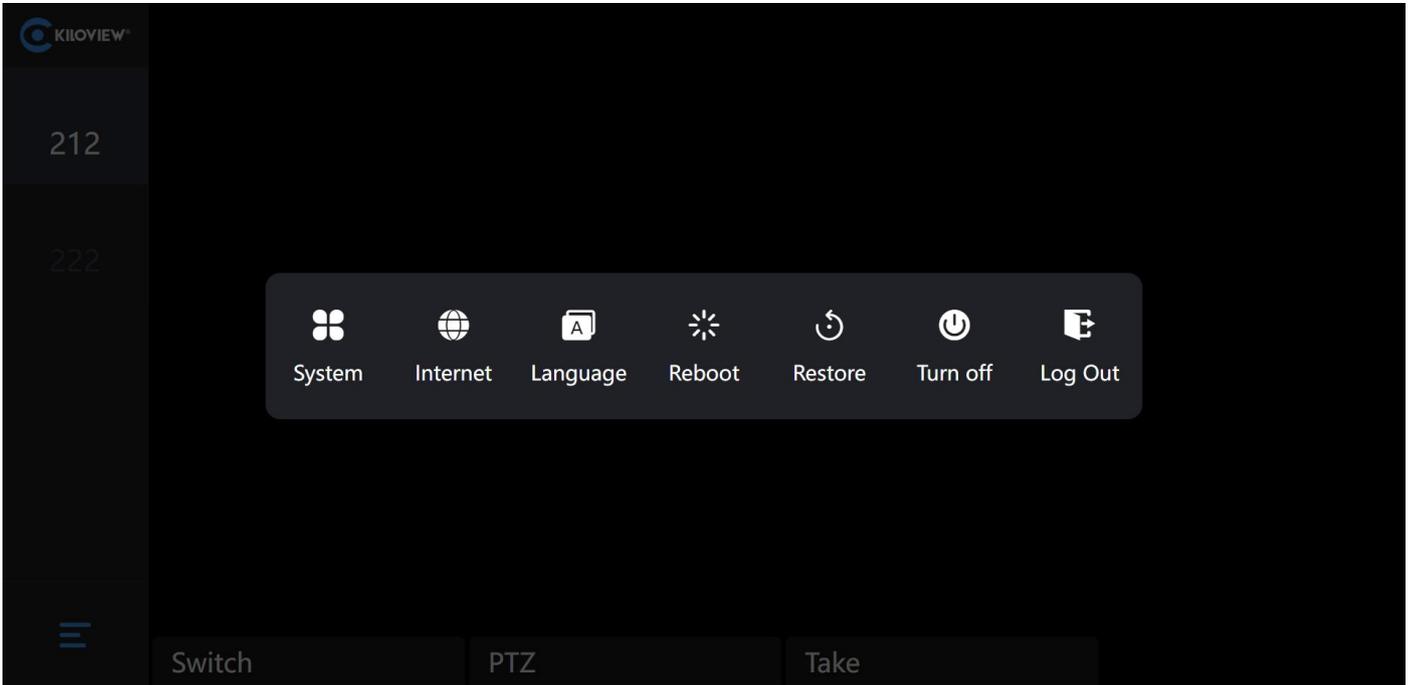
After the completion of the startup guide, you will enter the main interface of the Panel Deck, which appears blank and cannot control yet. At this point, you need to add templates and control objects through the management page manually. Please refer to Sections 6 and 7 for the operating steps.



## 6 Accessing the Device Management Page

### Method 1: Accessing the Device Management Page via the Touchscreen

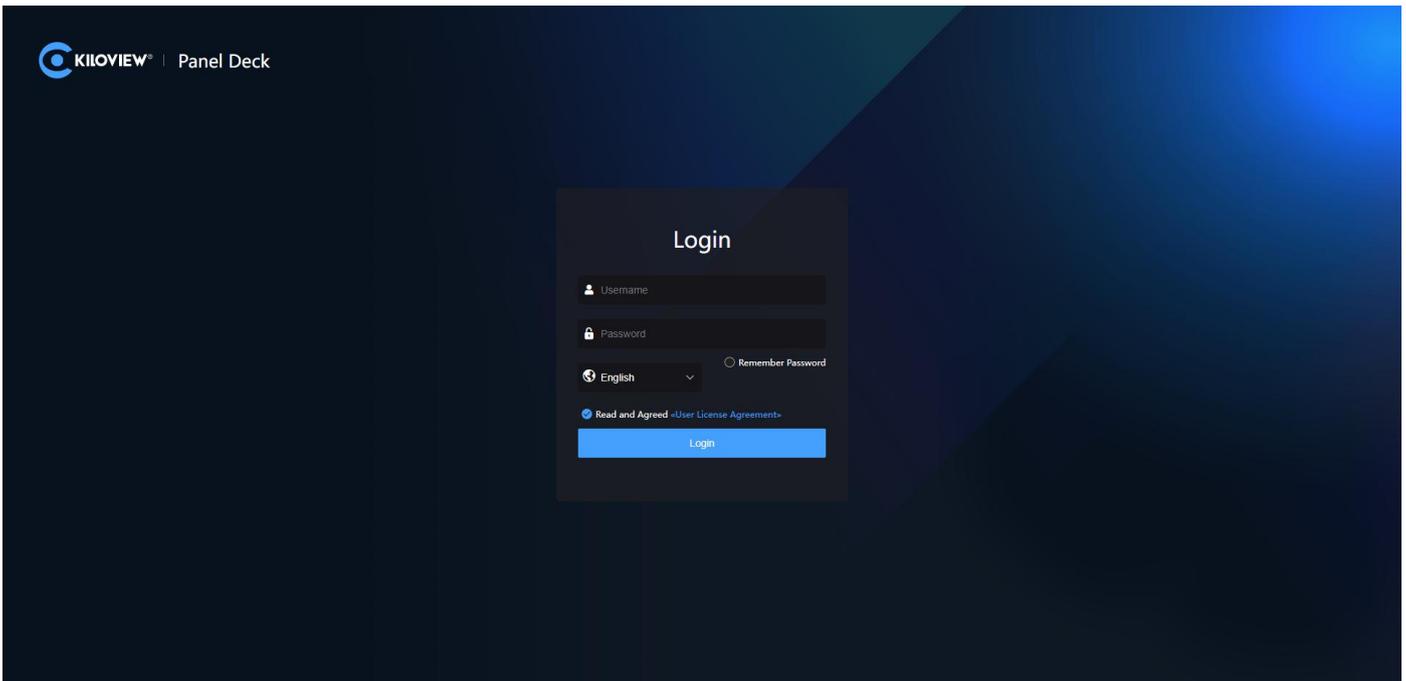
Click on the icon in the bottom left corner of the touch screen to open the settings menu. Click on "System Settings" and enter the screen lock password set during the startup guide to access the device management page. Refer to the diagram below:



## Method 2: Accessing the Device Management Page via a Browser

Open the browser within the local network, enter the device IP address followed by the suffix (IP/index.html) to access the LinkDeck device management page.

For example, if the device's IP address is 192.168.2.125, open “http://192.168.2.125/index.html” in the browser to access the web management page.



### Note

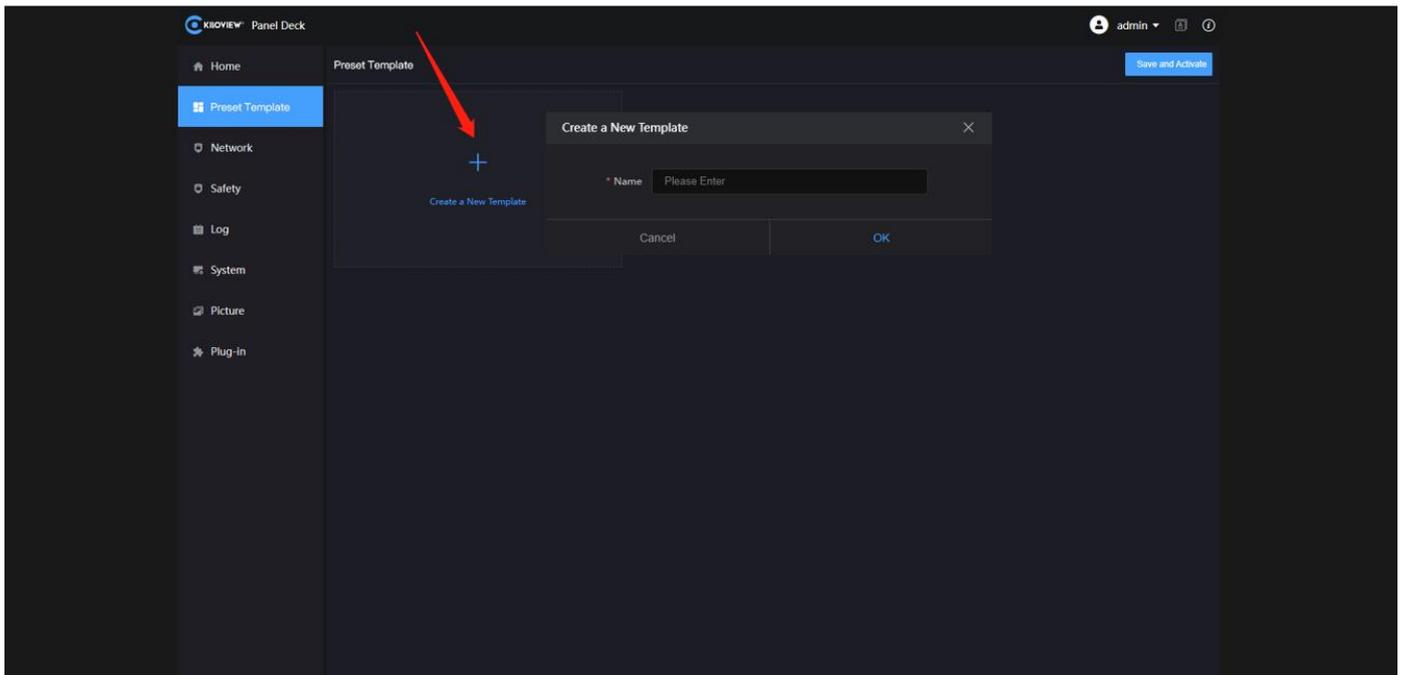
- The default login username and password for the device are both "admin";
- To ensure information security, changing the password immediately after the initial login is recommended;
- Considering browser compatibility, it is recommended to use Chrome or Edge.

## 7 Template Settings

### 7.1 Default Templates

- **Step 1: Creating a New Template**

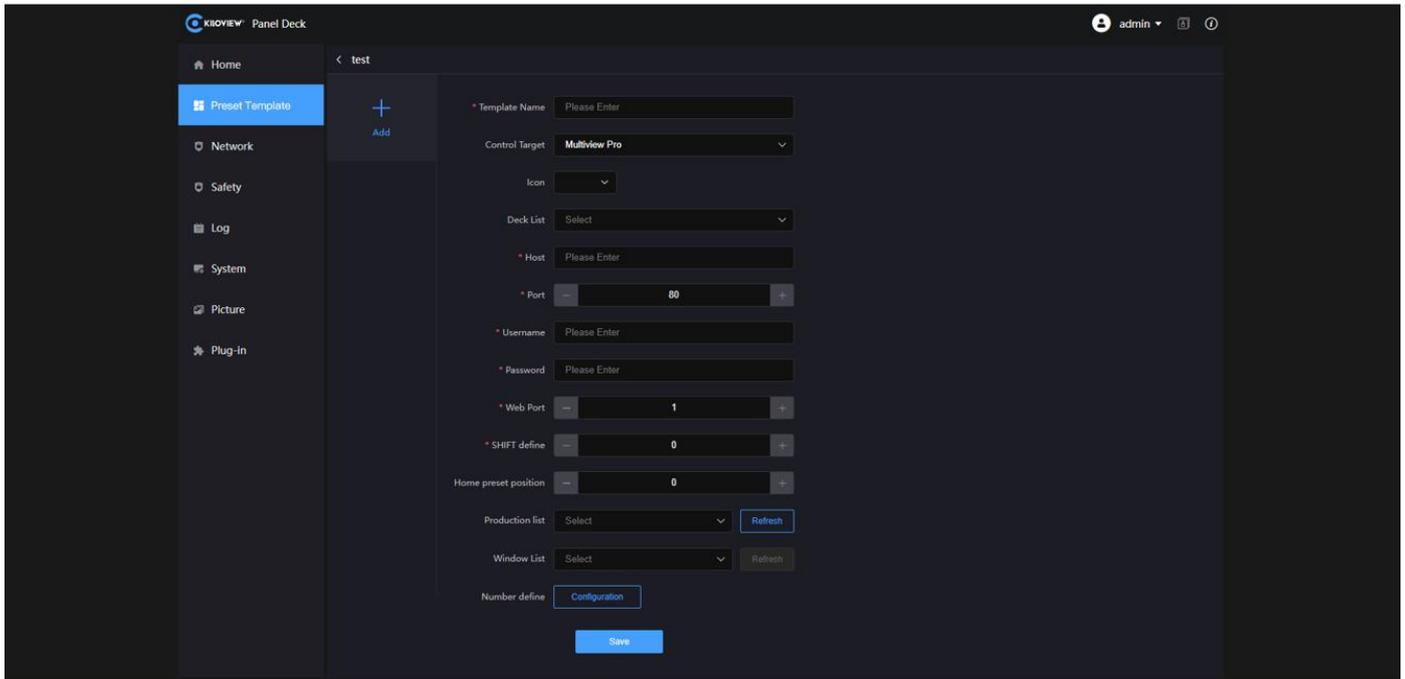
Click on "Create a New Template" in the default template section, enter the template name, and click "OK" to complete the template creation. See the diagram below:



## ● Step 2: Editing the Newly Created Template

Click on the newly created template to enter the template editing page. Fill in the template content, such as the host IP, port, username, and password.

After filling in the template content, selecting project and window lists is necessary. Otherwise, control errors may occur when multiple projects are present. Refer to the diagram below:



The screenshot displays the 'KILOVIEW Panel Deck' interface. On the left, a sidebar lists navigation options: Home, Preset Template (highlighted), Network, Safety, Log, System, Picture, and Plug-in. The main area shows a form for editing a template. The form includes the following fields and controls:

- Template Name: Text input field with placeholder 'Please Enter'.
- Control Target: Dropdown menu set to 'MultiView Pro'.
- Icon: Dropdown menu.
- Deck List: Dropdown menu set to 'Select'.
- Host: Text input field with placeholder 'Please Enter'.
- Port: Spin box set to '80'.
- Username: Text input field with placeholder 'Please Enter'.
- Password: Text input field with placeholder 'Please Enter'.
- Web Port: Spin box set to '1'.
- SHFT define: Spin box set to '0'.
- Home preset position: Spin box set to '0'.
- Production list: Dropdown menu set to 'Select' with a 'Refresh' button.
- Window List: Dropdown menu set to 'Select' with a 'Refresh' button.
- Number define: Button labeled 'Configuration'.
- A 'Save' button is located at the bottom of the form.



### Note

- Options marked with an asterisk (\*) are mandatory fields. Information such as host IP, port, username, password, and web port needs to be obtained from the control object;
- Please refer to section 7.2 for the process of obtaining control object information.

## 7.2 Obtaining Control Object Information

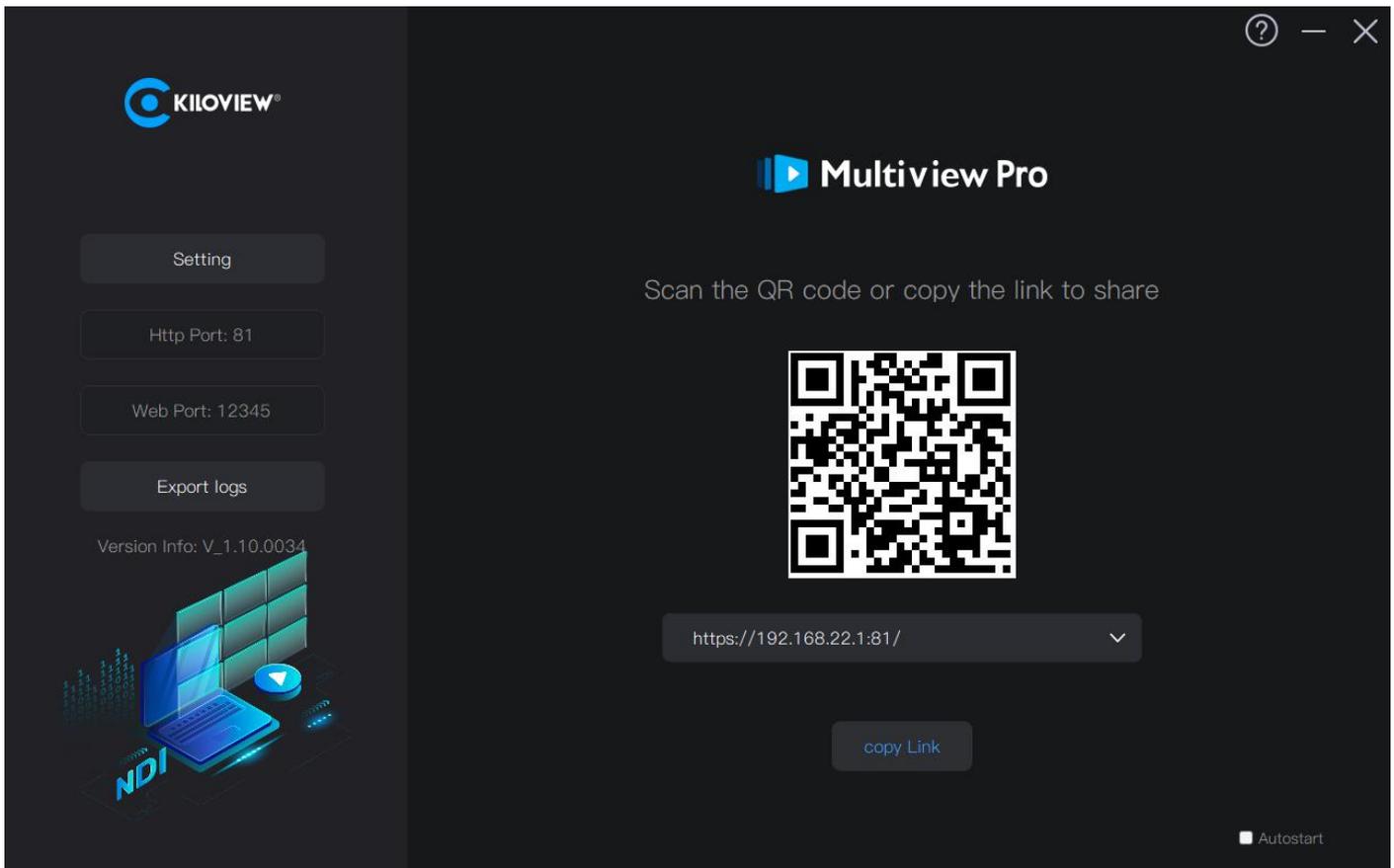
- **Step 1: Enabling the Control Object**

Taking Multiview Pro as an example of the control object.

Once Multiview Pro is enabled, you can obtain the relevant information required by the template from the software page.

See the example below:

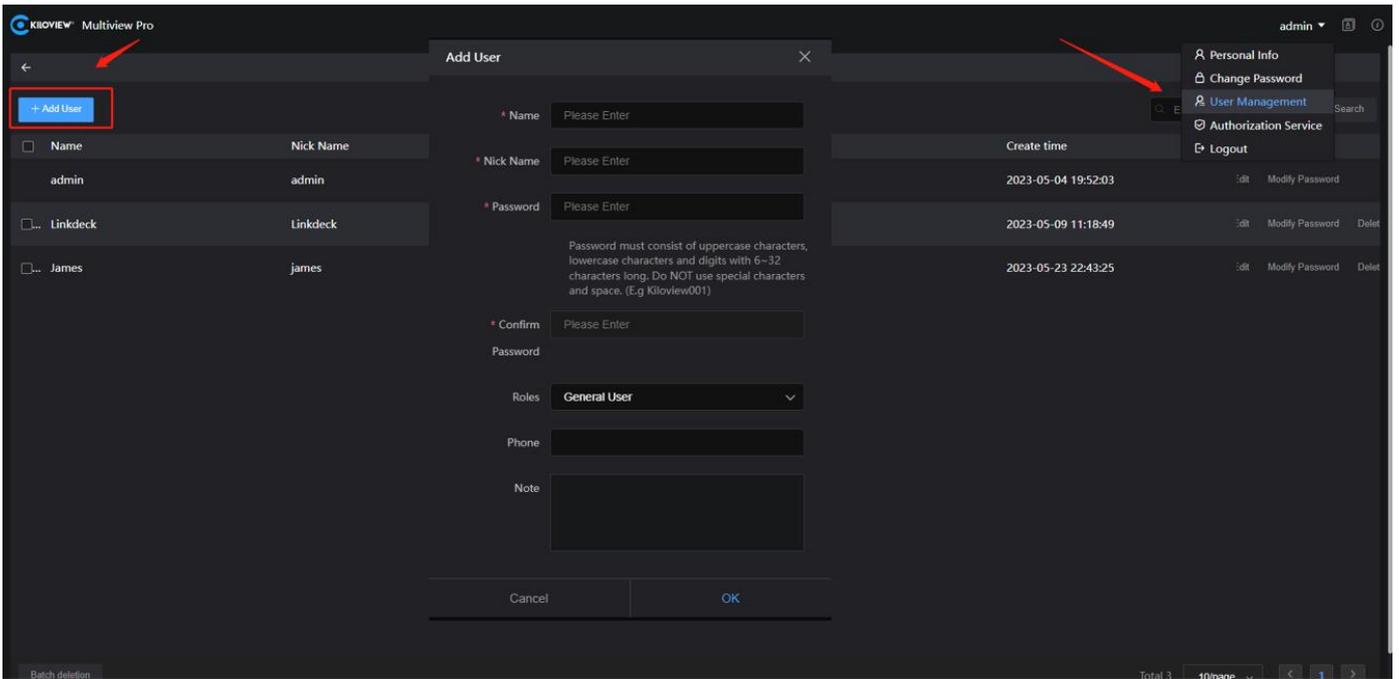
HTTP Port: 81; Web Port: 12345; Host IP Address: 192.168.22.1.



● **Step 2: Creating an Independent User**

On the Multiview Pro web software page, create a separate account for logging into the Multiview Pro account. The steps are as follows:

Select "User Management" → Click on "Add User" → Click "OK" to complete the new user creation. See the diagram below:



**Note**

- A separate account needs to be created in the control object for LinkDeck to use. Using the "admin" user to log into LinkDeck may cause the "admin" user to be logged out or unable to log in from other clients.

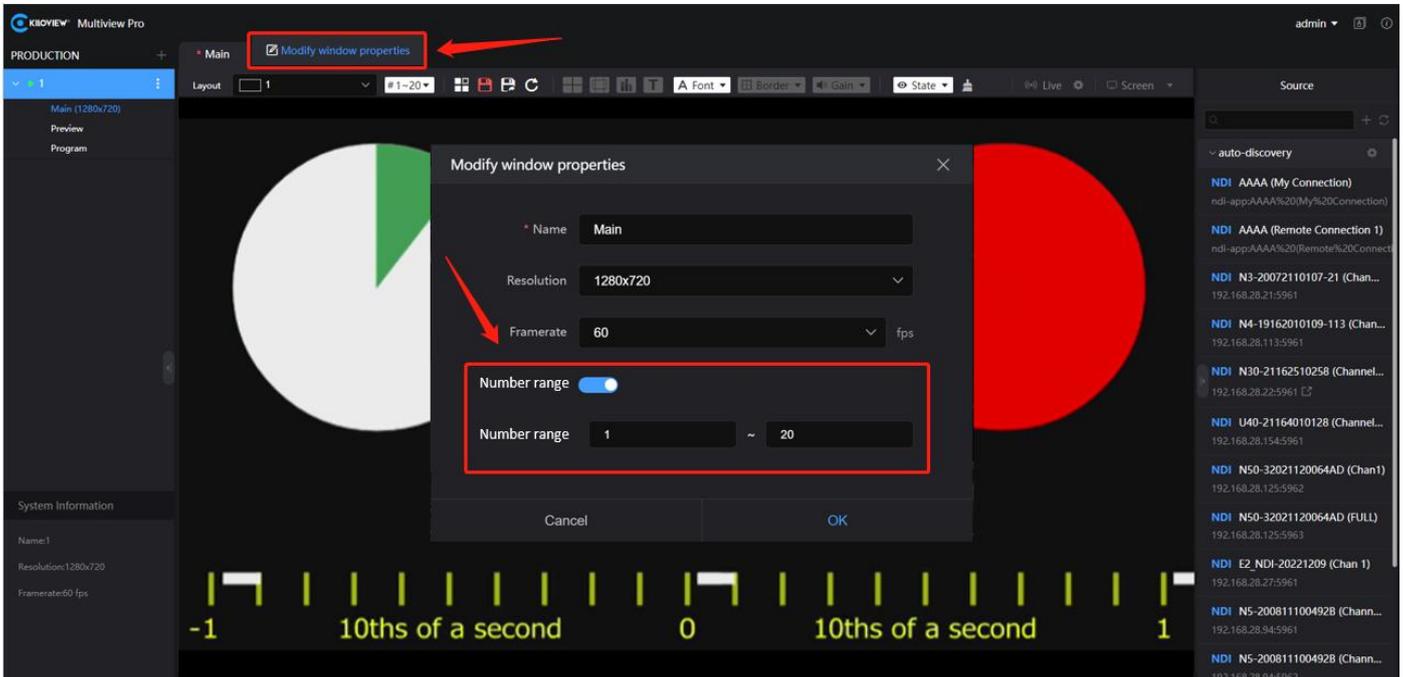
● **Step 3: Enabling Numbering**

The numbers 1-10 on the Panel Deck correspond to the numbering of the control object from 1 to 10. Therefore, the numbering range needs to be enabled in the control object.

Take Multiview Pro as an example:

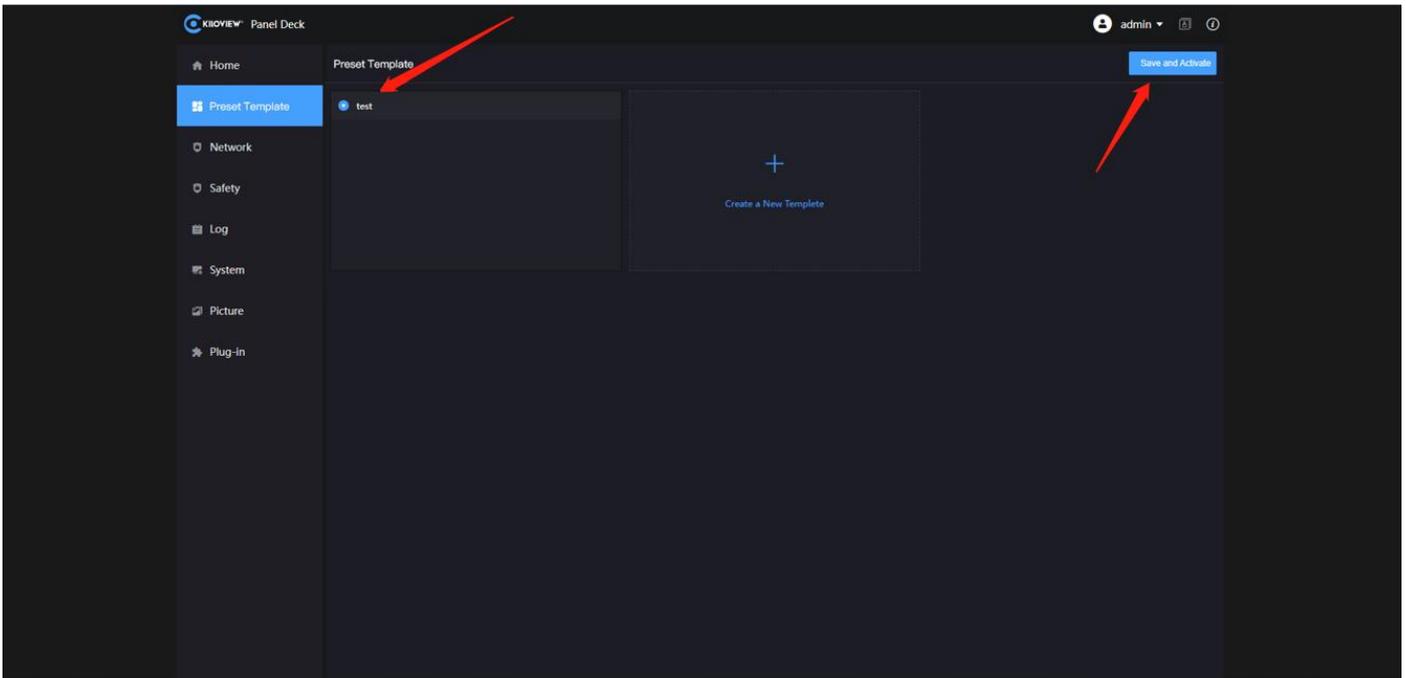
Click on "Modify Window Properties" in Multiview Pro - Window and select "Enable Numbering Range."

Set the numbering range to 1-10. See the diagram below:



### 7.3 Enabling the Template

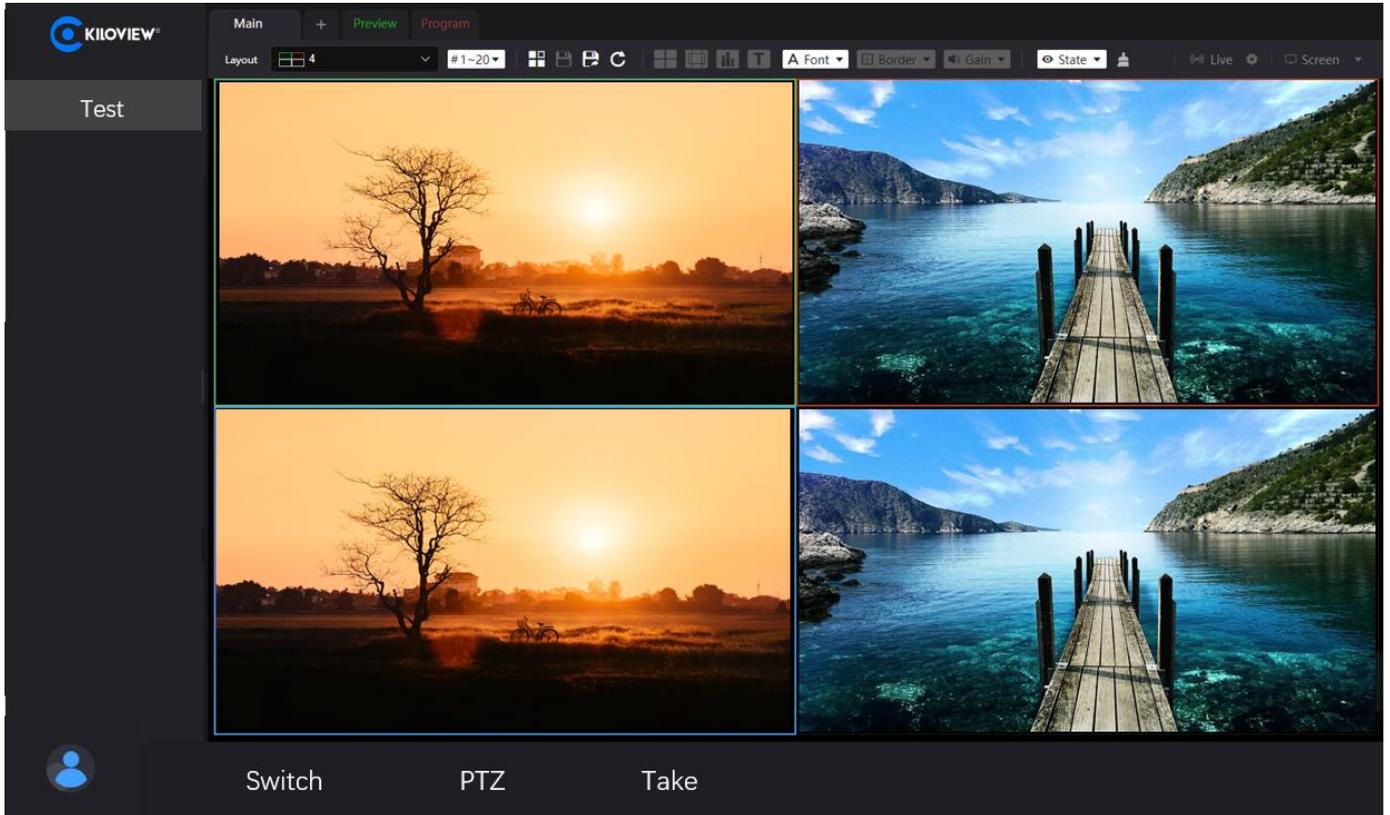
After completing the template settings, click "Save and Activate" to enable the template. See the diagram below:



## 7.4 Initiating Control

Once the template is enabled, LinkDeck will automatically retrieve and display the control object's information and control content on the screen. The various Decks of LinkDeck can control the Multiview Pro using the physical buttons and the soft buttons on touchscreen.

See the diagram below:



### Note

- If LinkDeck fails to retrieve the control object's control content, please verify if the template settings are correct;

## 8 Firmware Upgrade

### 8.1 Download the Upgrade Firmware



**Kiloview will continuously provide firmware updates for LinkDeck devices to add new features, fix bugs, and improve performance. Please visit:**

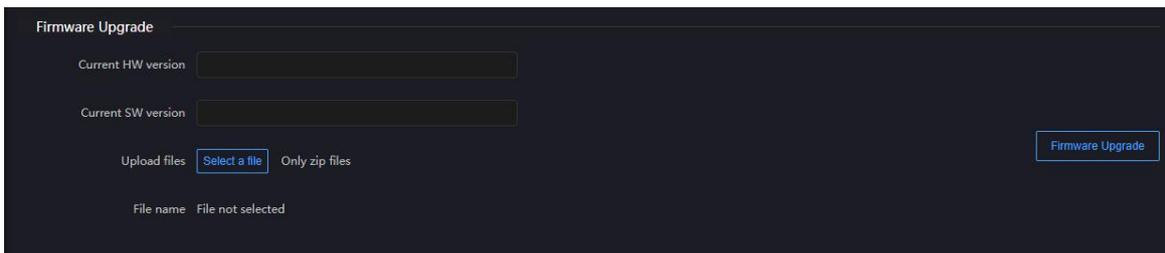
<https://www.kiloview.com/en/support/download/>

In the filter list, select "NDI" > "LinkDeck" and find the latest firmware download under the "Software" tab.

### 8.2 Upgrading Device Firmware

Log in to the device management and click on "System " > "Firmware Upgrade" to access the firmware upgrade page. Check if there is any latest firmware available. To perform the upgrade, upload the firmware file downloaded from the official website and click "Firmware Upgrade".

Typically, the system will prompt you to restart after a successful firmware upload. If you want to restart, click "Confirm". If the system restarts automatically, please wait patiently.



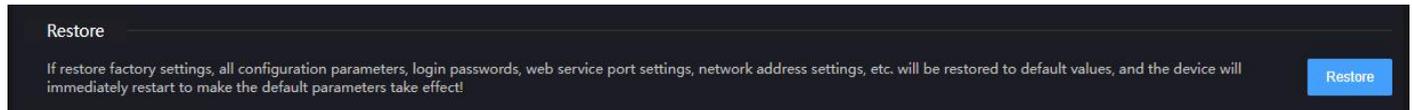
#### Note

- It is recommended to use Google Chrome or Edge browsers on the Windows operating system for the upgrade process;
- Do not power off the device during the upgrade, as it may result in the device failing to start;
- The upgrade process usually takes about 3-5 minutes. If it exceeds 5 minutes without completion notification, try refreshing the webpage. If you still cannot access it normally, please contact Kiloview or Kiloview authorized dealer for technical support.

## 9 Restore

If the device is not functioning correctly due to incorrect parameter configuration or for any other reason requiring a factory reset, follow the method below:

Log in to the web management page, click "System" > "Restore" through the web interface.



**Note: After a factory reset, the following parameters will be changed to the default values:**

- The login user "admin" password will be reset to "admin";
- All device configuration parameters will be reset to the default values.

## 10 Other

If the device is not in use for a long period, it is recommended to unplug the power and store it properly to prolong its lifespan.