NDI CORE MAX

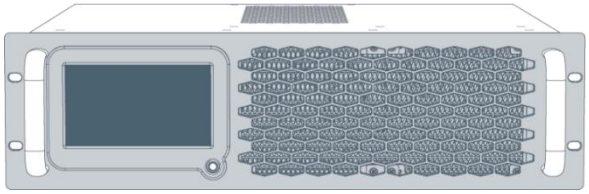
Quick Start Guide V1.1

Contents

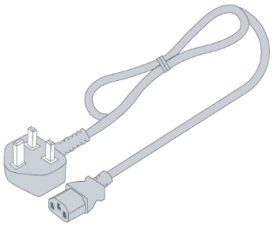
- Packing list
- Device interface
- Applications
- NDI CORE MAX Configurations

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 . Packing List



(1) NDI CORE×1

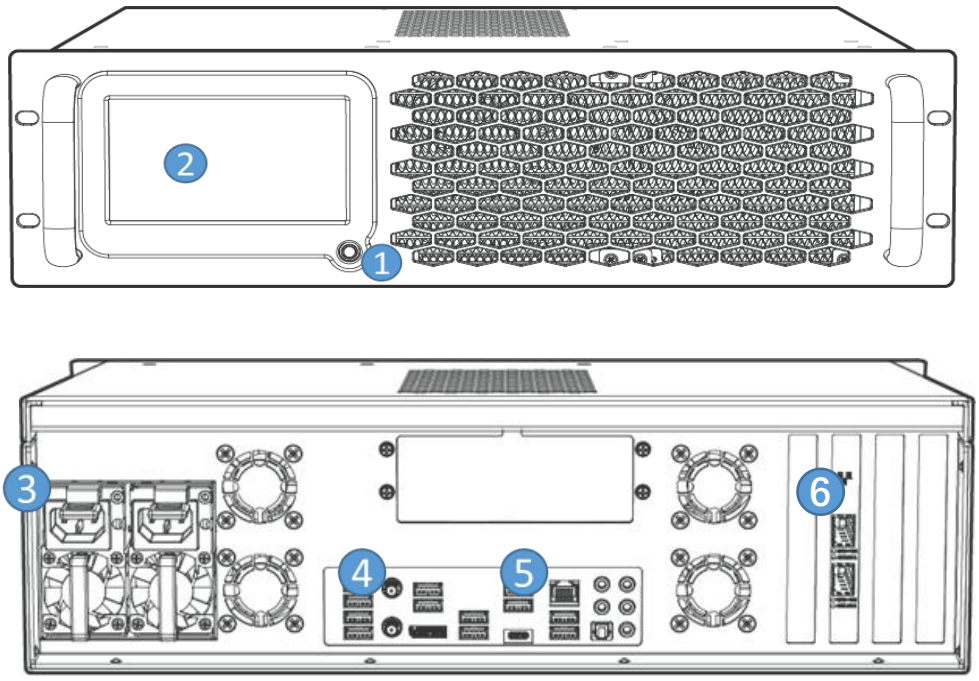


(2) Power Supply×2

(3) Warranty Card×1

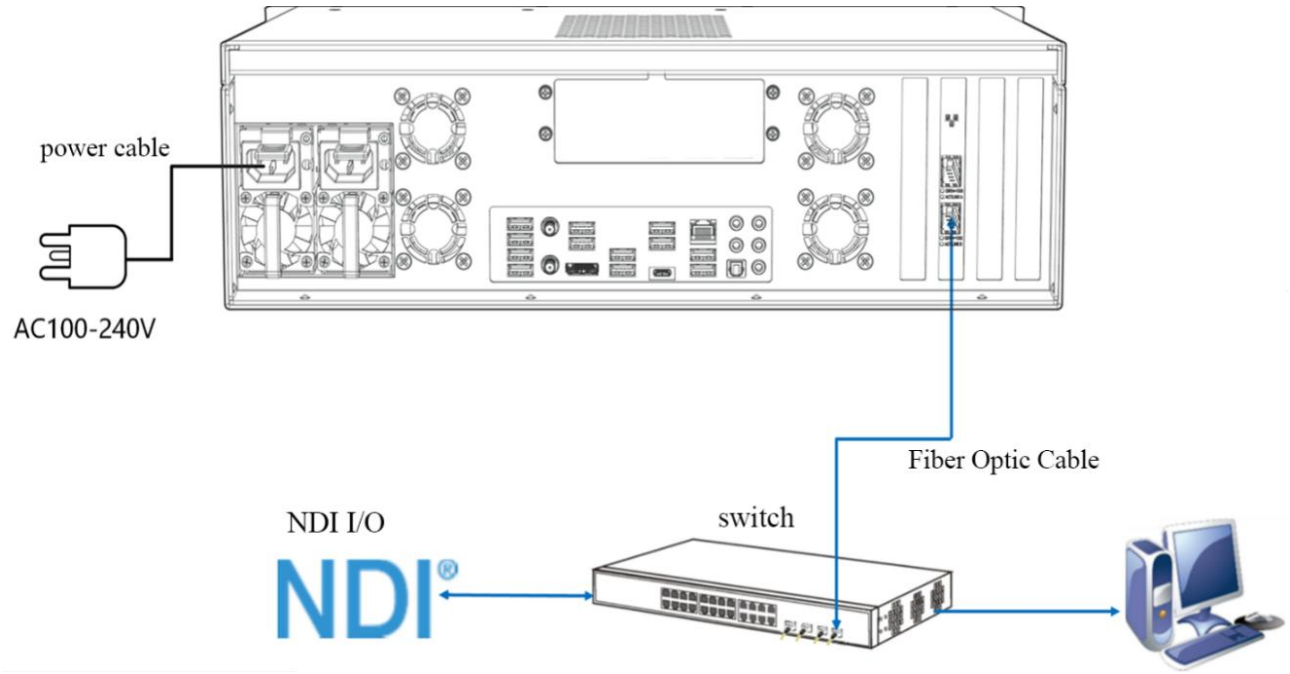
(4) Quick Start Guide×1

2 . Device Interface



1. Power switch
2. 5.5 Inch Touch Screen
3. Power Port
4. DP Port
5. 2.5G Ethernet
6. 2*40G/10G optical port SFP+

3 . Applications



Introduction

NDI Core mainly solves the issue that the NDI encoder cannot be pulled by multiple back-ends at the same time. The video source is virtualized into multiple NDI channels for output by NDI Core, and more functions such as video source switching and video playlist are integrated.

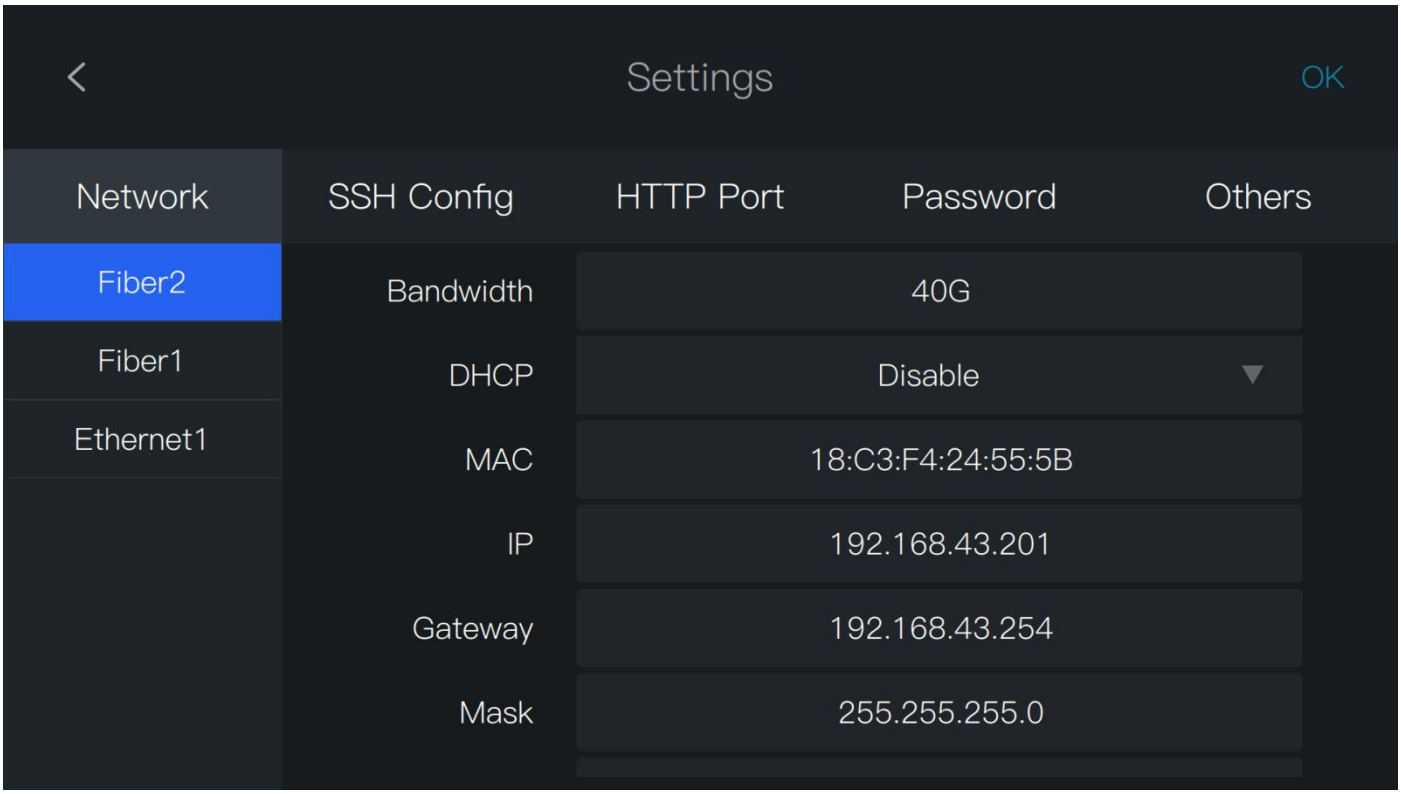
By creating a playlist, users can freely set the program source, dynamically adjust the playback sequence, playback time to achieve the sequence, loop, and switch playback of video sources.

- It is compatible with all NDI- enabled software and hardware sources to the NDI Core system.
- When the Switcher receives NDI|HX, the virtual output is also NDI|HX. If the video source is NDI, the output is also NDI.
- For compatibility concern, it is recommended that the optical module used for the optical port of the device and the switch be of the same brand and type. If the actual transmission distance is less than 500 meters, you can choose a multi-mode optical module. For the transmission distance more than 500 meters, it is recommended to choose a single-mode optical module.
- The device comes with two redundant power supplies. If only one power supply is connected, it will beep all the time, and hot-swap replacement is supported.
- The device comes with two 40G/10G optical ports, which can be connected to the network for NDI input and output.

4 . 5.5-Inch Touch Screen Configurations

4.1 . Network Settings

Click “System Setting”>“Network Setting” on the screen to configure the service IP address, subnet mask and gateway. After saving, the IP address is used for WEB management and video preview, and DHCP is also supported.

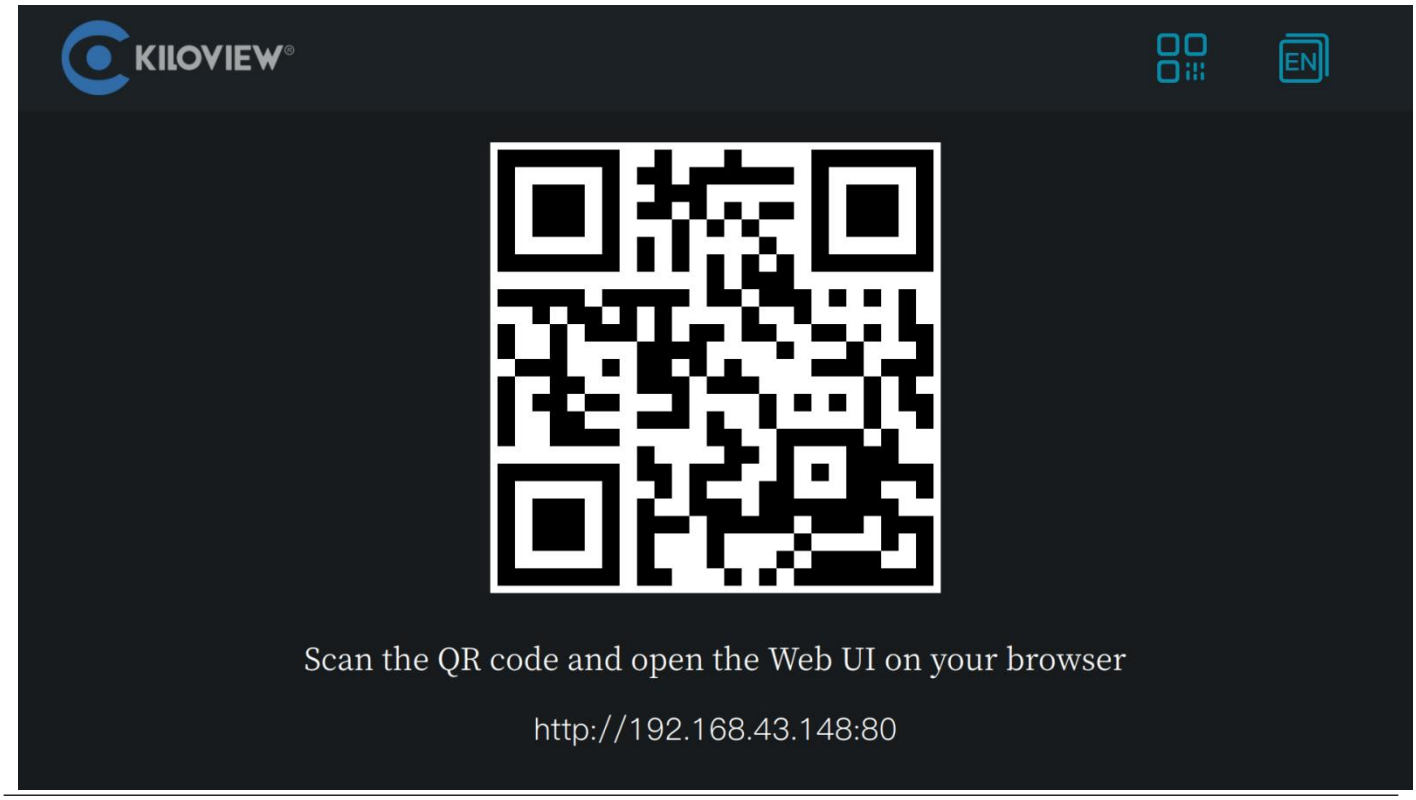


4.2 . Logging In

Click the "QR code" icon in the upper right corner to log in to the webpage with two methods.

Method 1： Enter the http://IP in the browser to visit the webpage

Method 2： Scan the QR code to visit the webpage



Note:

For compatibility, it is recommended to use the Chrome or Edge to enter the webpage.

- To ensure information security, please change your initial password first time you log in.
- The NDI CORE login port is 80 by default.

4.3 . System Settings

When the device is connected to the network, you can enable or disable SSH control, and change the HTTP port and restore factory settings.

Introduction

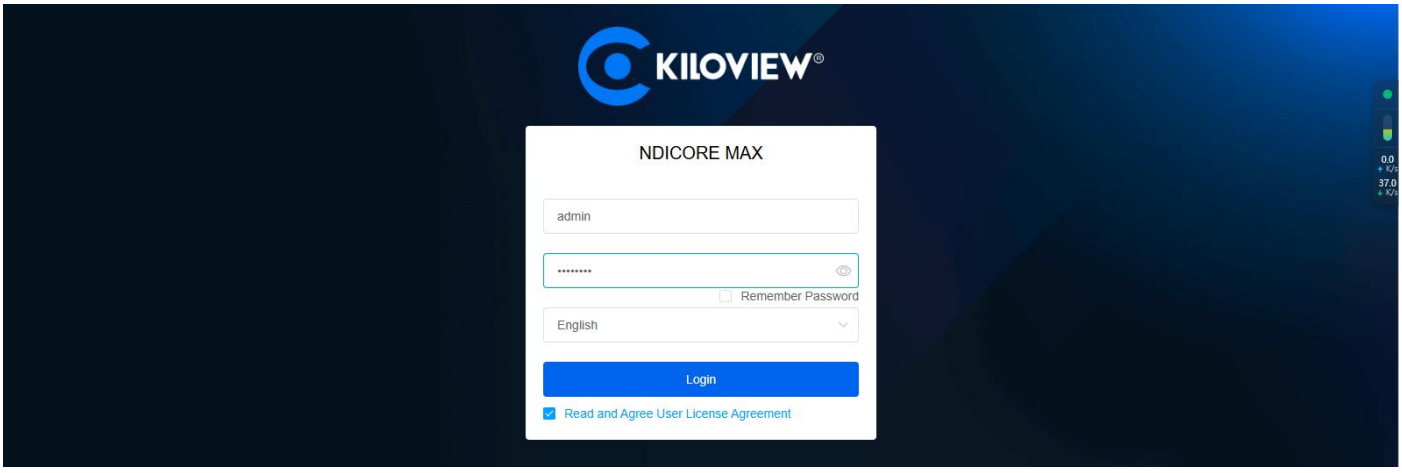
- **Password settings:** The password setting is not a public module. The user needs to enter a password to check it. The initial password is: 123456. Please change your initial password first time your login.
- **SSH configurations:** When SSH control is enabled, the default username is ndicore and the port is 22. Clicks [Reset SSH Password], and the system will automatically generate a password. And then a warning text will be displayed: "Please remember your password. If you forget it, please press the button [Change SSH password] to modify".
- **HTTP port settings:** Support to change the port.
- **Screen:** Set the time of automatic screen off.

Note:

- The screen saver is enabled for 3 minutes by default, which means the screen will be turned off after 3 minutes if it is inactive. To ensure information security, it is recommended that you keep this option or set a shorter screen saver time.
- When entering the [Setting] module, you need to enter the initial password: 123456. If you forget the password, you can click to restore the factory settings.

5 . Login to NDI CORE MAX

Enter http://Server IP in the browser and log in to the NDI CORE webpage. The username and the password is **admin/Admin123** by default.

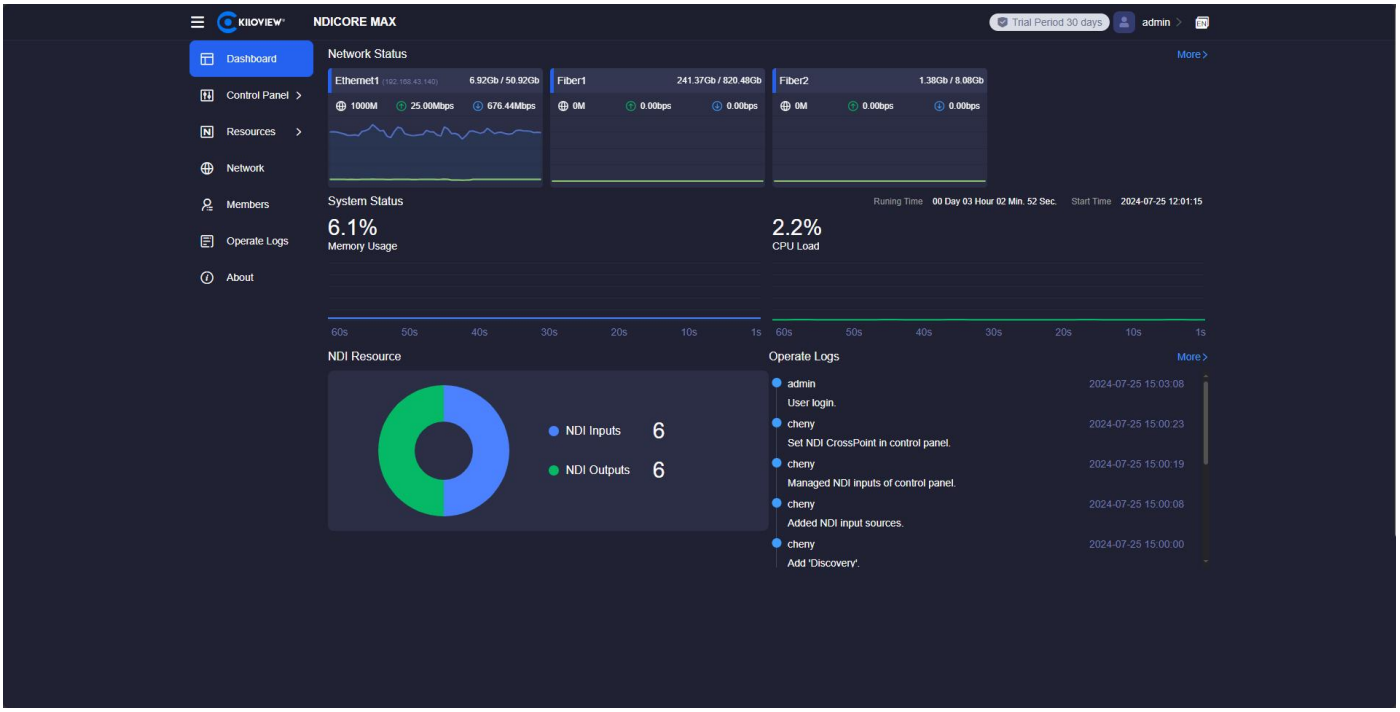


Note

- To ensure information security, please change your initial password at first login.
- The NDI CORE login port is 80 by default. Port modification is available.

6 . Dashboard

Click “Dashboard” on the WEB page to check the system information includes network status, system status, resources and logs.



Introduction

Network:

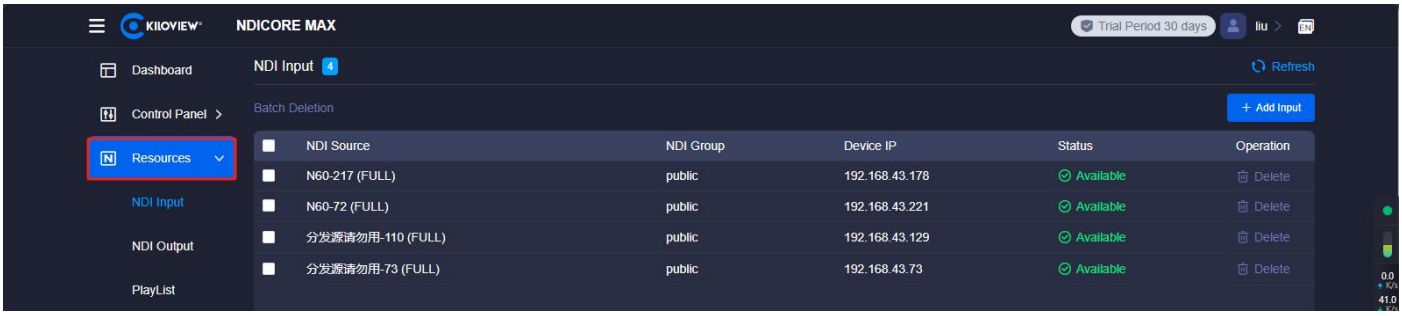
- **Ethernet1:** NIC name of the RJ45 port on the NDI CORE server mainboard
- **Fiber1**: NIC name of the first port on PCIE network card
- **Fiber2**: NIC name of the second port on PCIE network card
- **Network Tip**: Suggest using only one network interface as the business port, Different network interfaces require different network segments and gateways to be configured. NDI Output is located on the interface with the highest routing priority. Pay attention to this issue, otherwise it may not be able to pull NDI streams. You can change the priority of the route by modify the metric value of the network interface. If you are not a Linux system professional, we do not recommend that you modify it this way.
- **6.92G/50.92G:** Total upstream traffic/downstream traffic of the current device
- The maximum bandwidth of the current network Real-time traffic output of the network Real-time traffic input of the current network

Resources: displays the input sources, outputs and number of panels.

- **NDI Source:** All user-added NDI video sources, not including those discovered but not added
- **NDI Output:** All user-created NDI output sources
- **Resources Tip:** when before you create the NDI CrossPoint, You should add NDI ouput first, and then add the NDI input , and create the NDI CrossPoint last.Becasue if you add a lot of ndi input first ,the system will be prepare ndi resource cost a lot system cpu and bandwith。 Maybe effect the NDI output create , Causing the created NDI output unable to be automatically detected by other NDI devices (such as NDI Tools)
- **Control Panel:** The number of panels created under the user

7 . NDI CORE MAX Configure

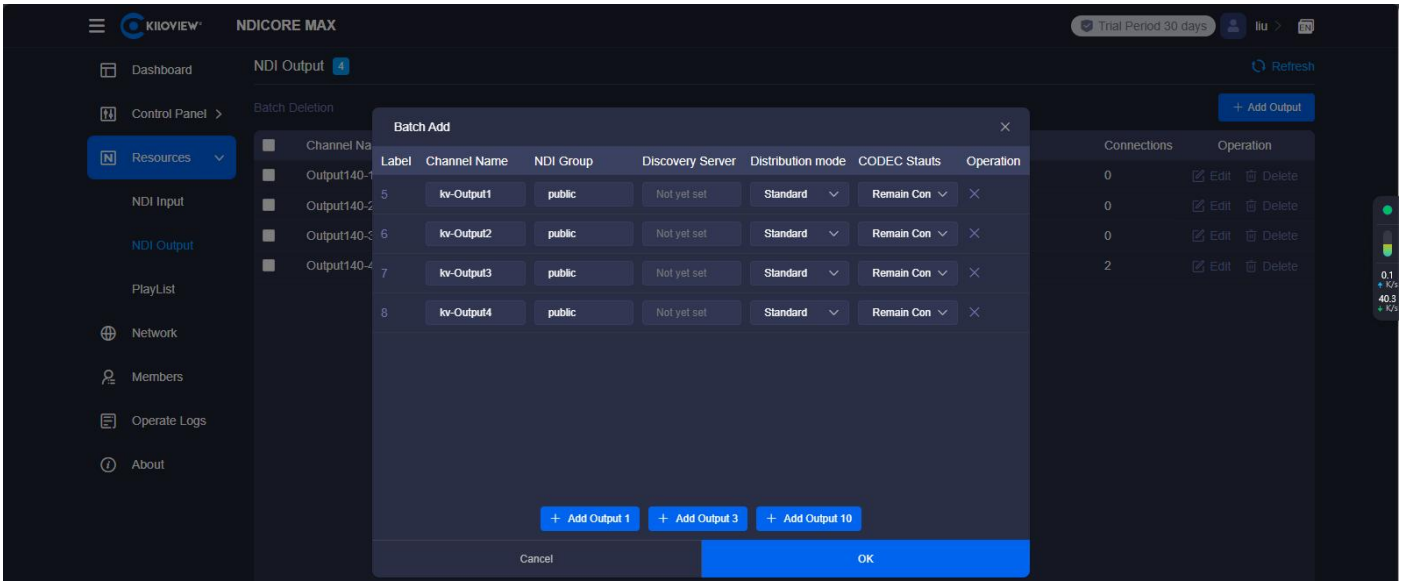
Click “Resource ” to add and manage the NDI input, NDI output and playlist.



Step 1： Add NDI Output

Create NDI virtual output to realize NDI output by controlling NDI input source or playlist. It supports one single NDI source input with multiple NDI channels output.

Click "NDI Output" to enter the NDI output management page. Click "Add Output" to create an NDI output channel.



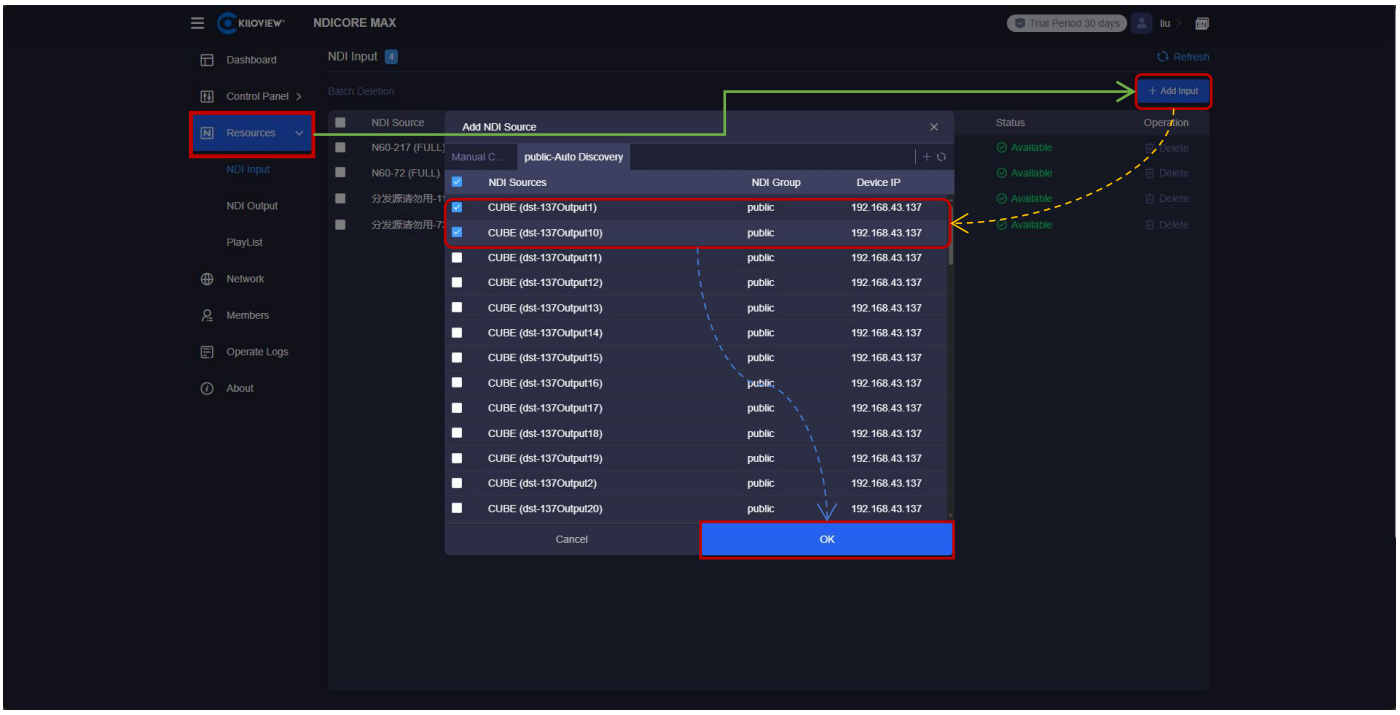
Introduction

- **NDI Channel Name:** Please use different names for multiple NDI outputs. The combination of text, numbers and symbols are supported. When there are multiple control panels, the panels can use the same output channel, and if the output is not locked to any panel, it can be switched to.
- For more details, please refer to the user manual.

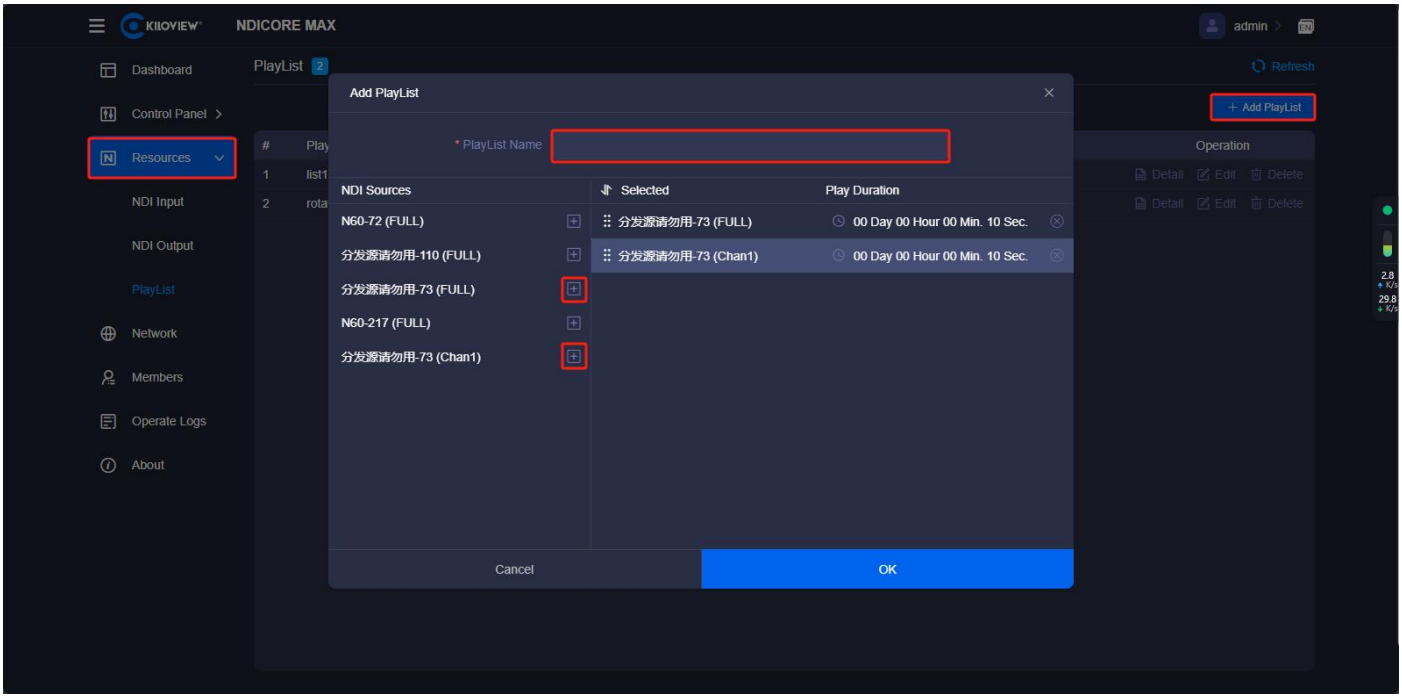
Step 2： Add NDI Input

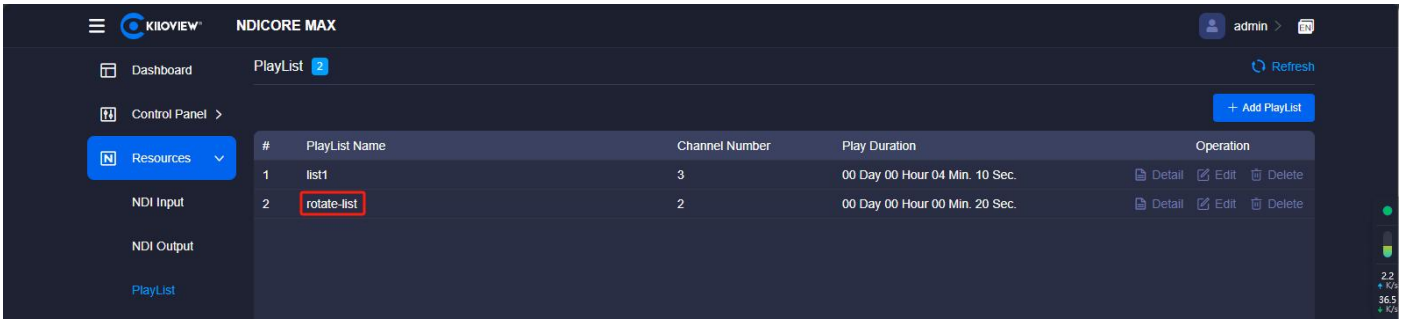
Click "Add Input" to add the NDI sources to “NDI Input”. The source can be added by the following way.

Click "public-auto discovery", all NDI sources under the same network segment of the LAN and in the “public” group can be automatically discovered. And then select the NDI sources to be added.



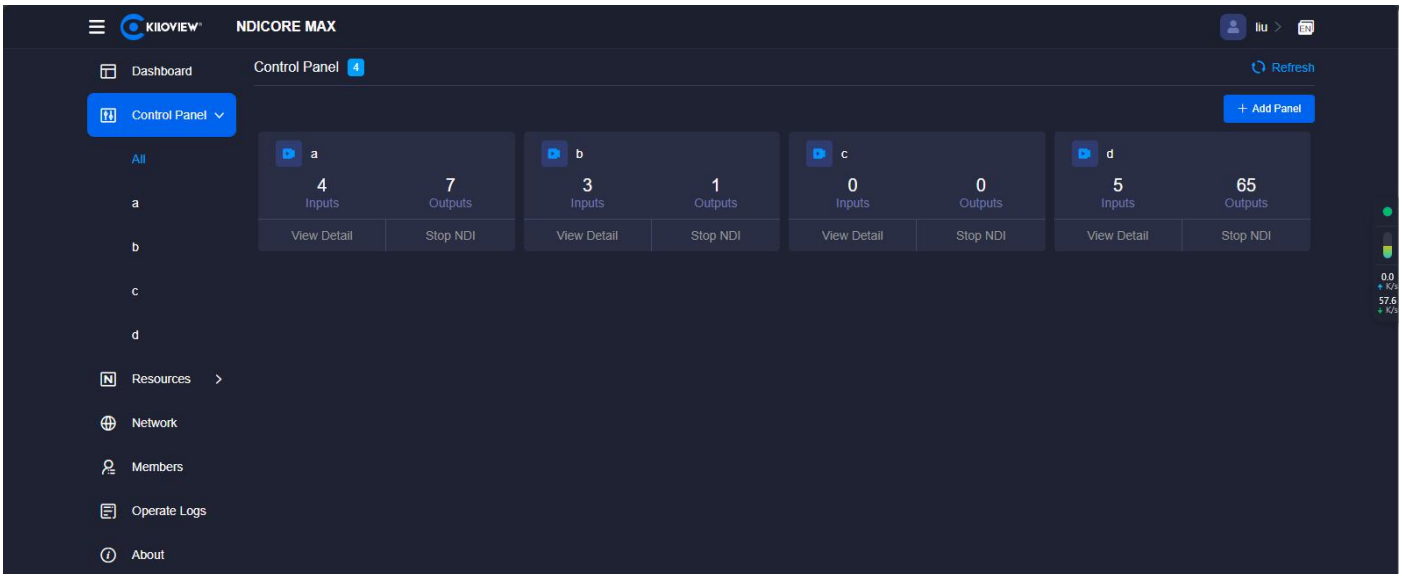
Step 3： Add NDI Playlist

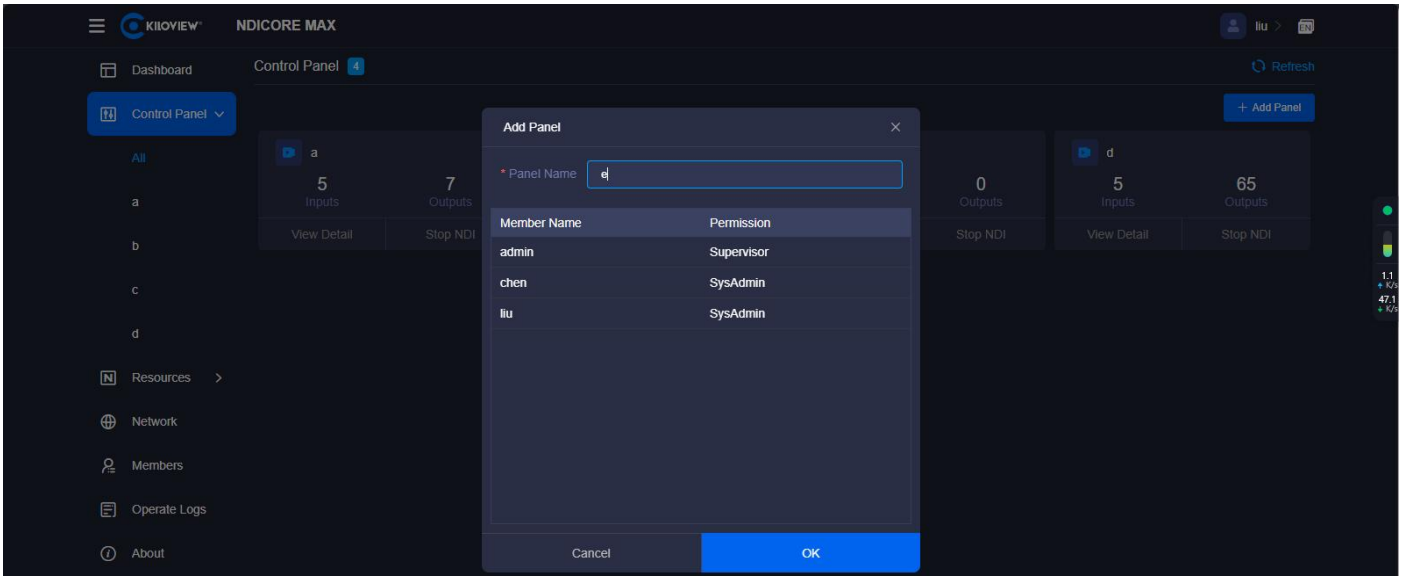


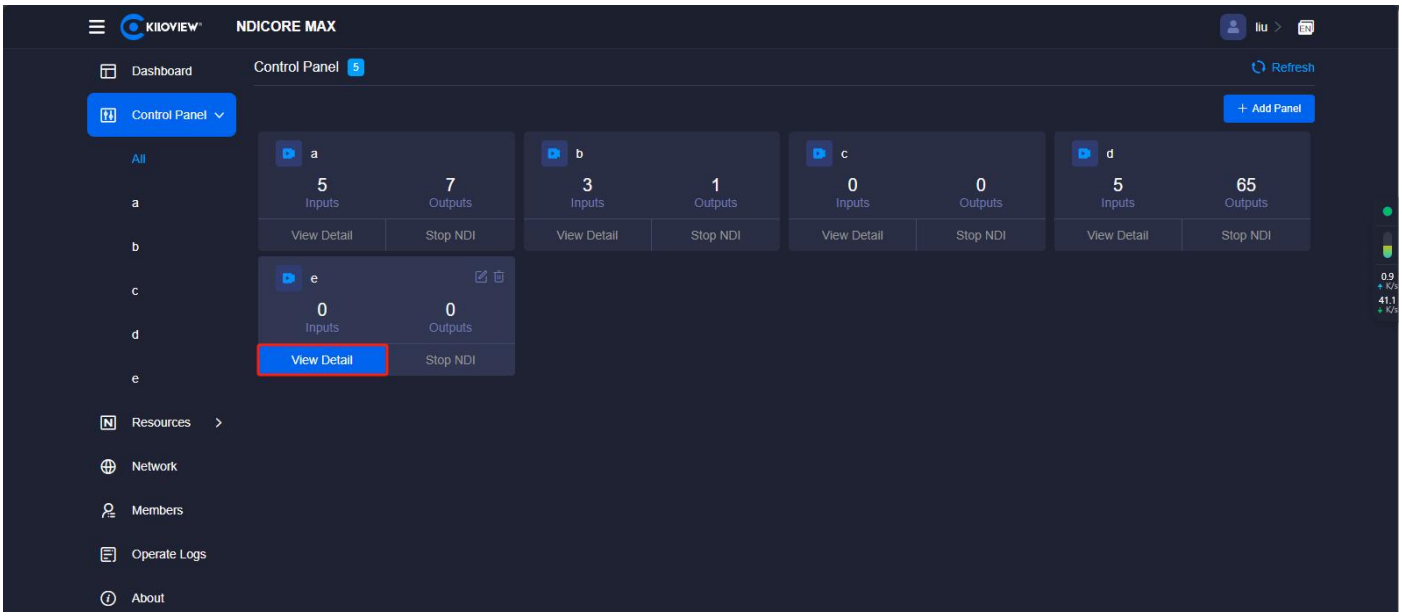


Step 4： Matrix Panel

Click "Control Panel" to create a control panel, configure the NDI input and output with Cross Point and IO panel, unicast and loop playlist are supported.



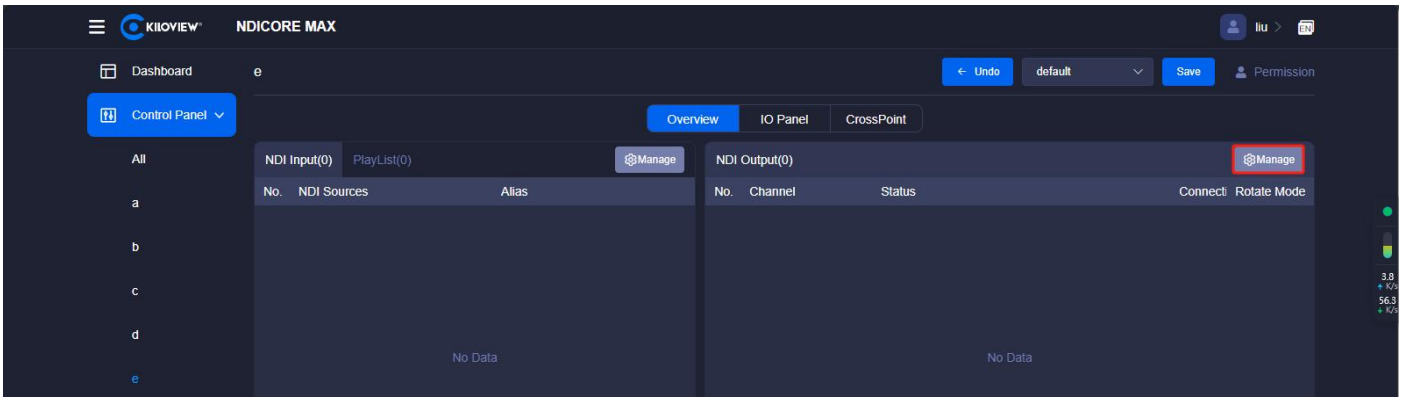


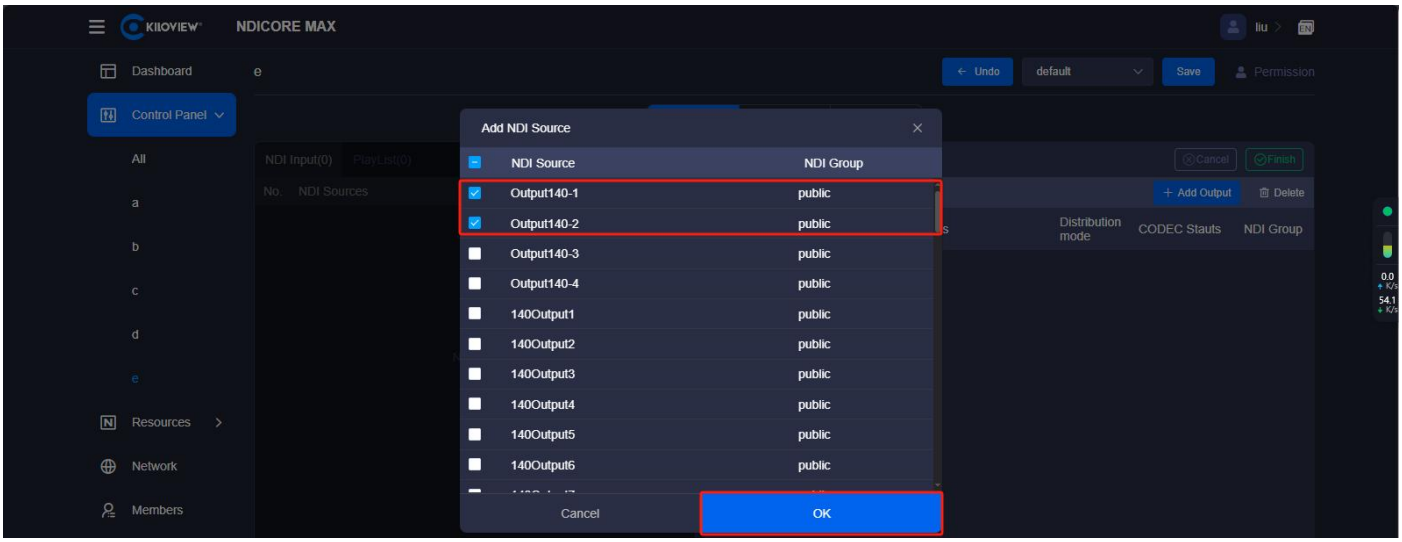


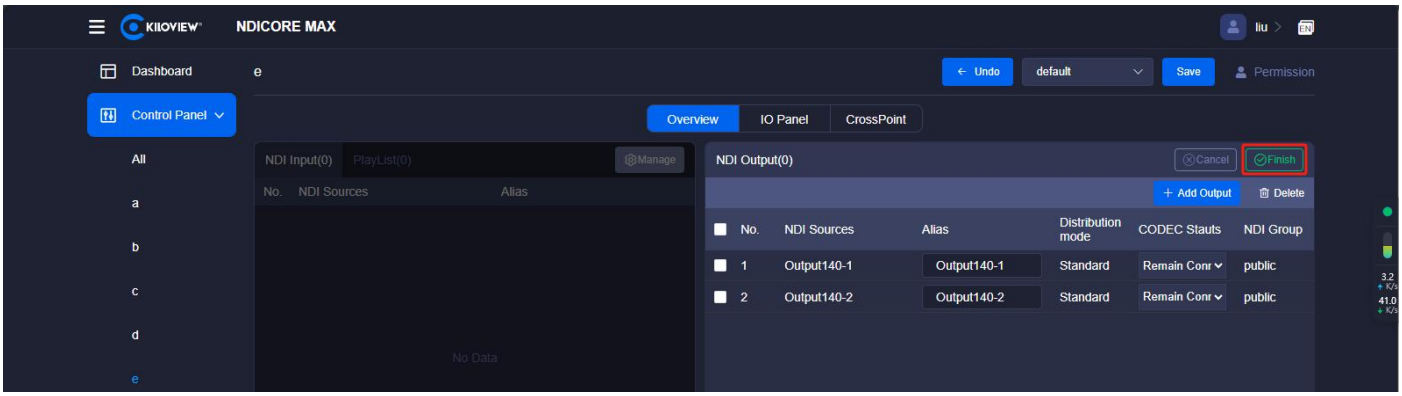
Introduction

- General: add the NDI source and NDI output channels by click "Manage" on the right side of NDI input and NDI output.
- NDI source status: the resolution and frame rate of the NDI sources, and the video and audio real-time encoding bit rate of the inputted sources.
- NDI output: the NDI output channel is created when the panel is added. When there is a device at the back end to create a certain output, the output status displays the decoded resolution, frame rate, video and audio bitrate.
- Playlist: when the NDI output channel selects “Loop”, all the NDI input video sources in the list will be displayed. A circle of time progress status will appear on the right side of the video source.
- Crosspoint/IO Panel: Configure the NDI input and output by the crosspoint. The cyan square indicates that the NDI input sources will output from the NDI output channels.
- For details, please refer to the user manual.

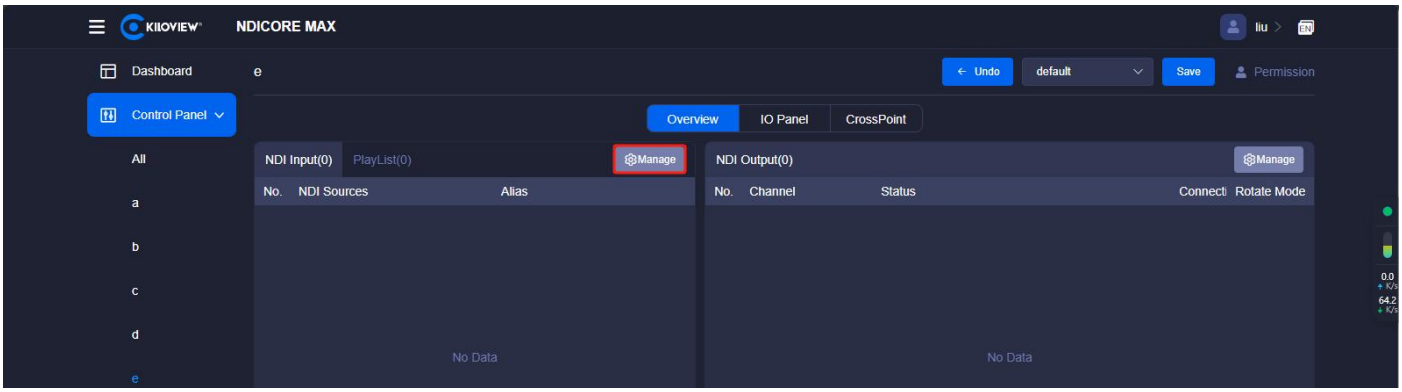
Add NDI Output

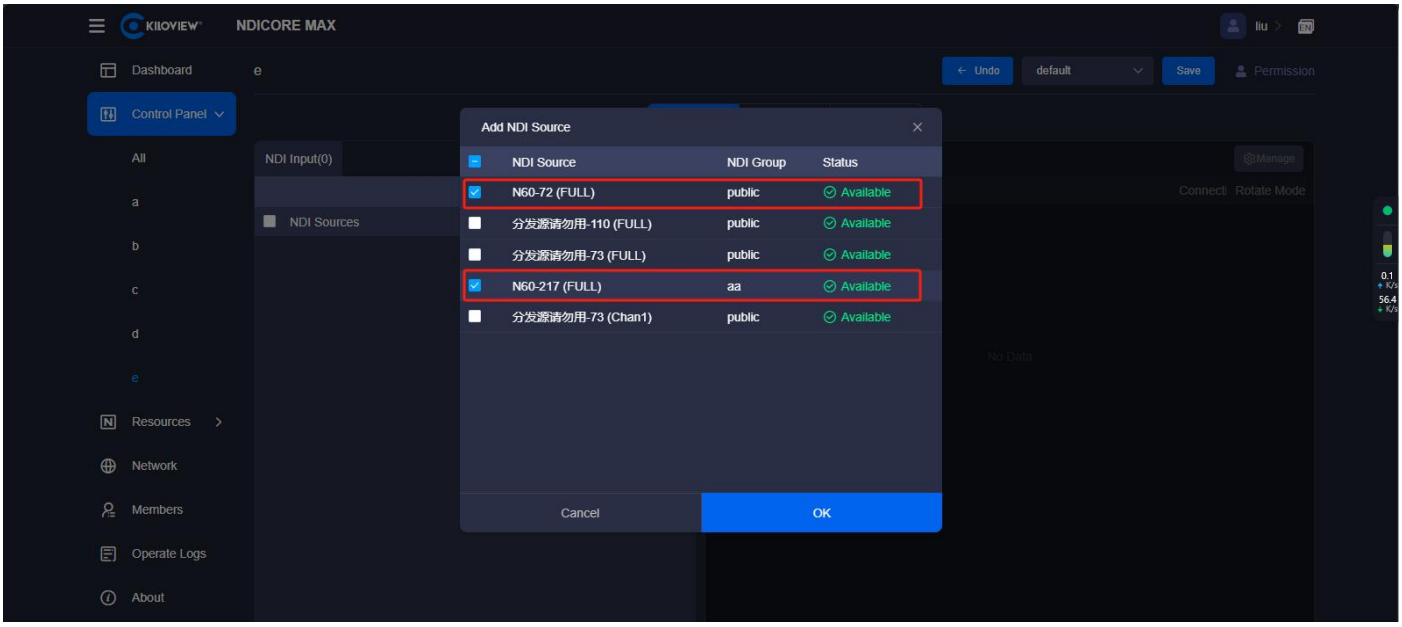


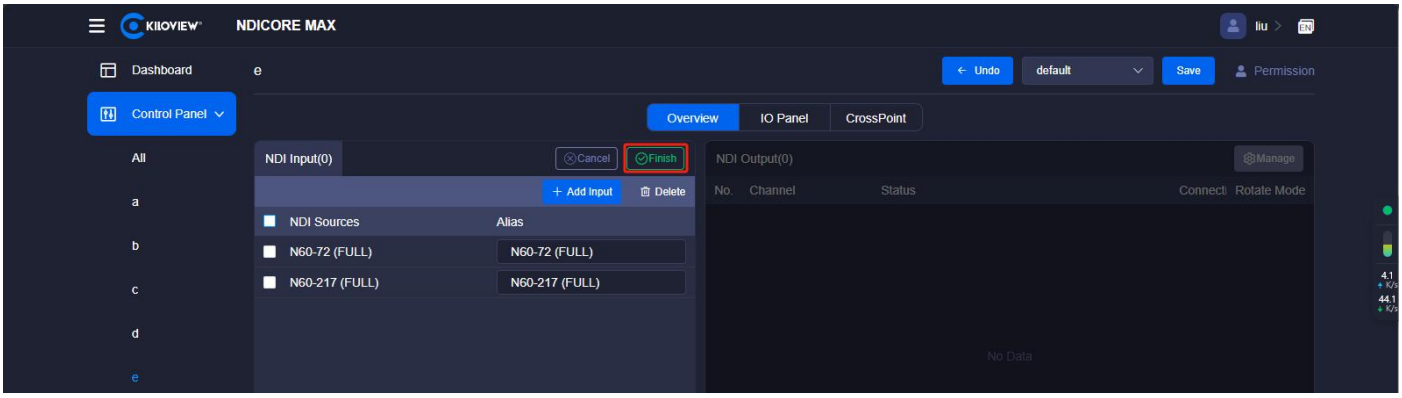


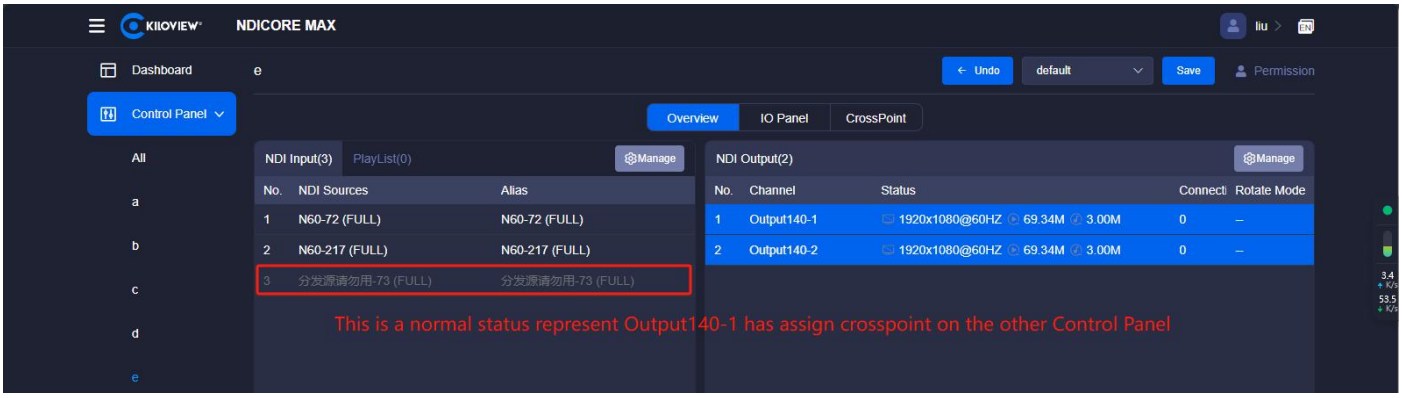


Add NDI Input

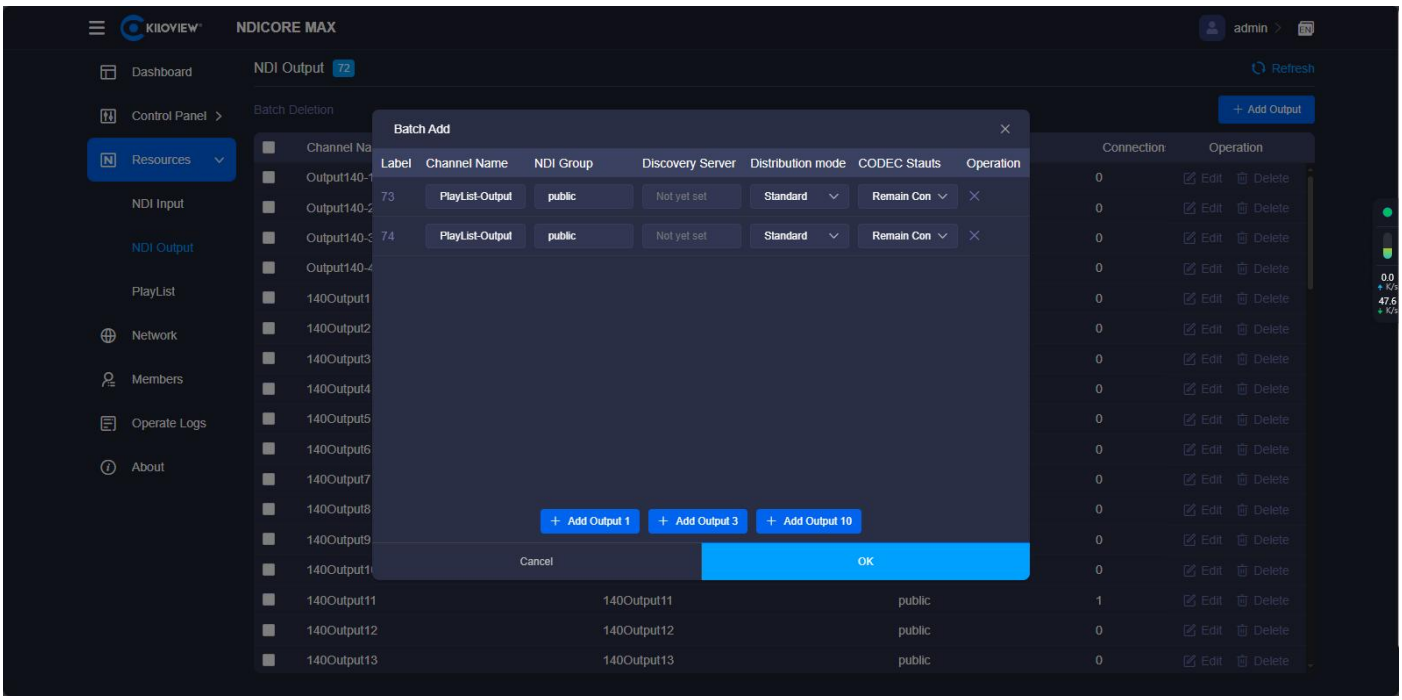


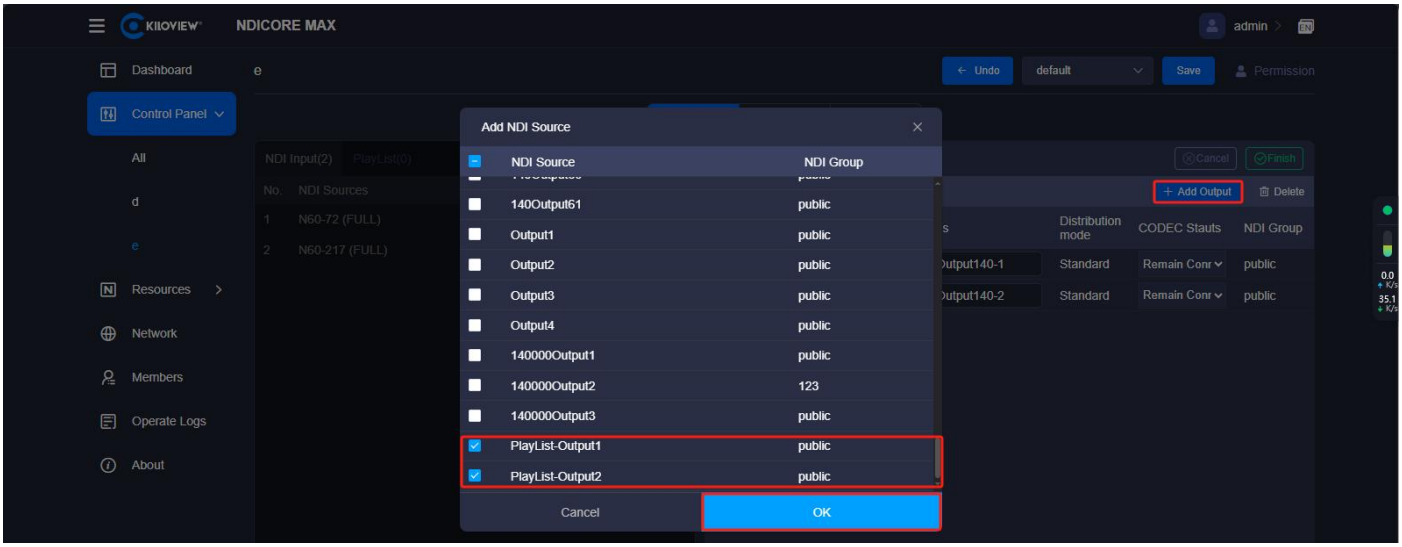


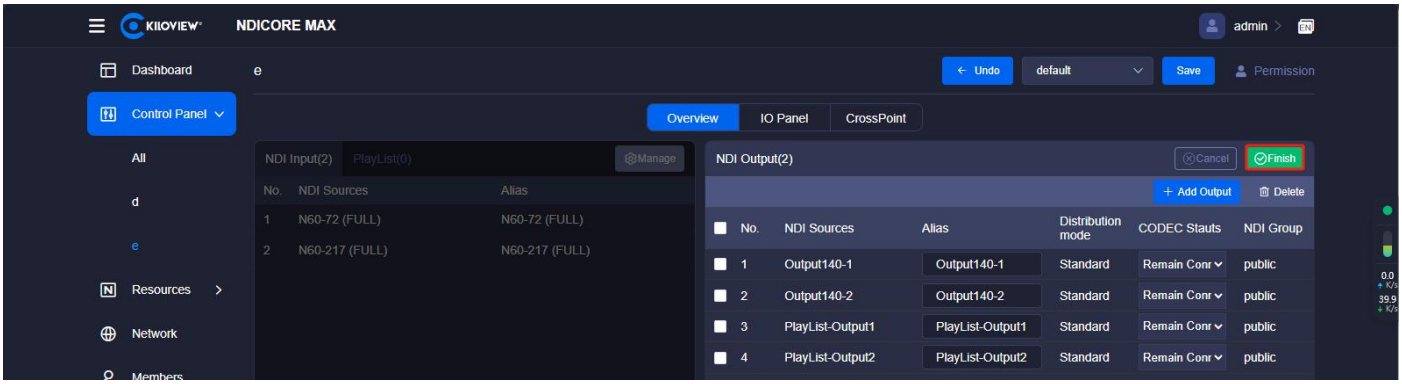




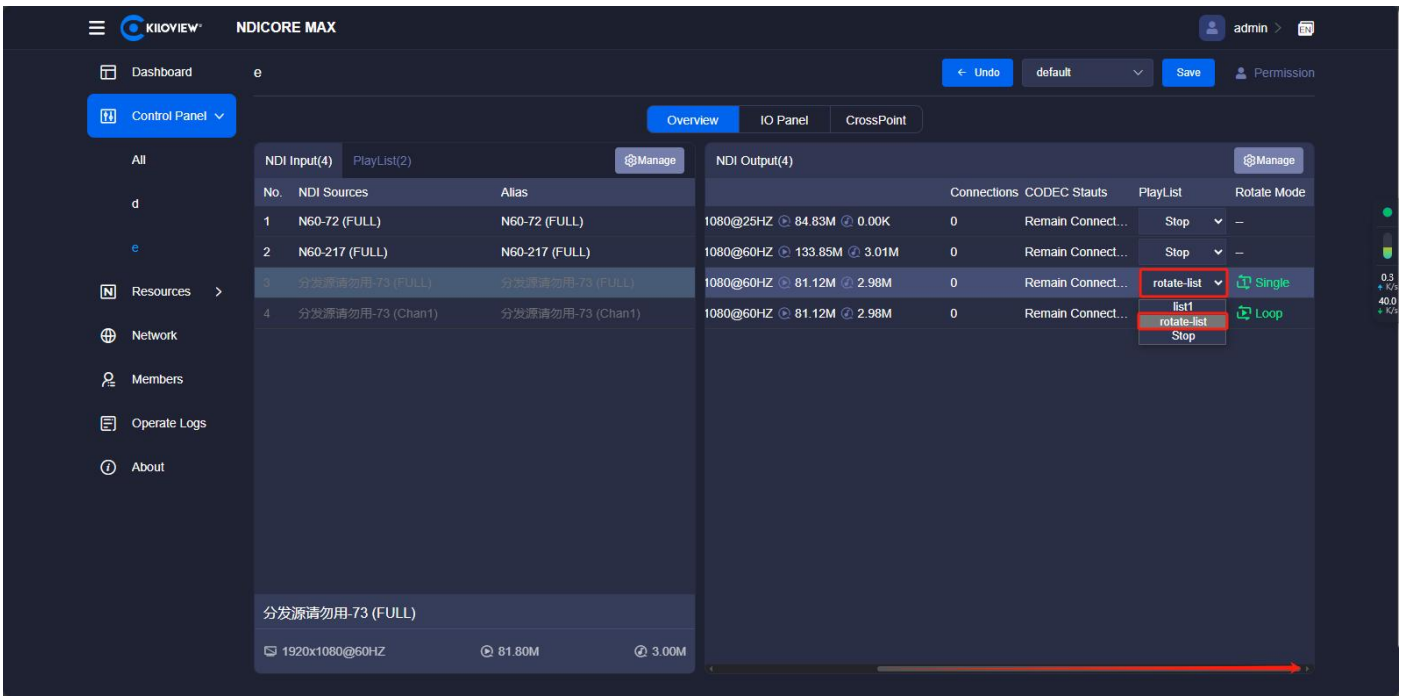
Add NDI Playlist



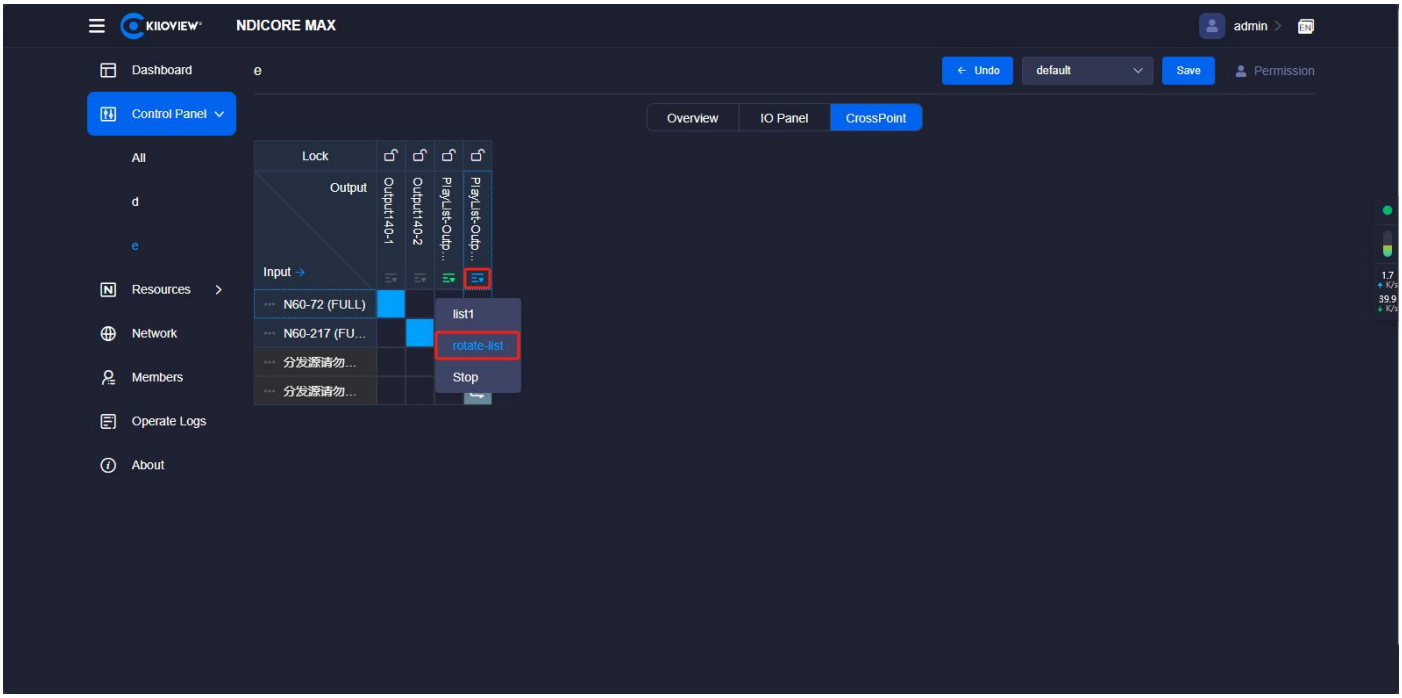




PlayList Bind output configuration entrance 1:

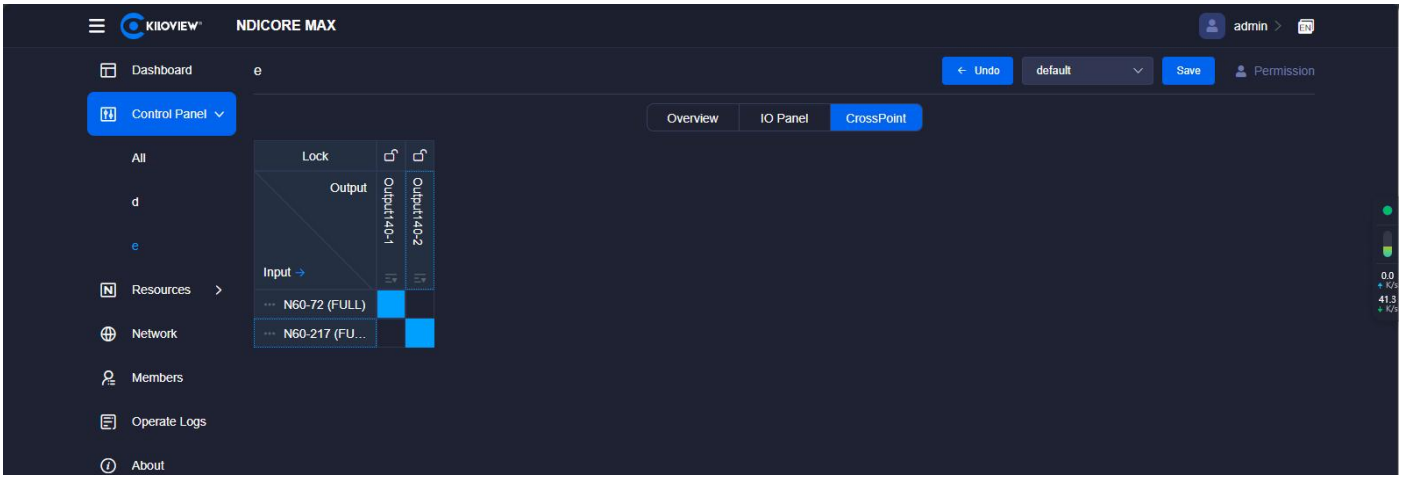


PlayList Bind output configuration entrance 2:

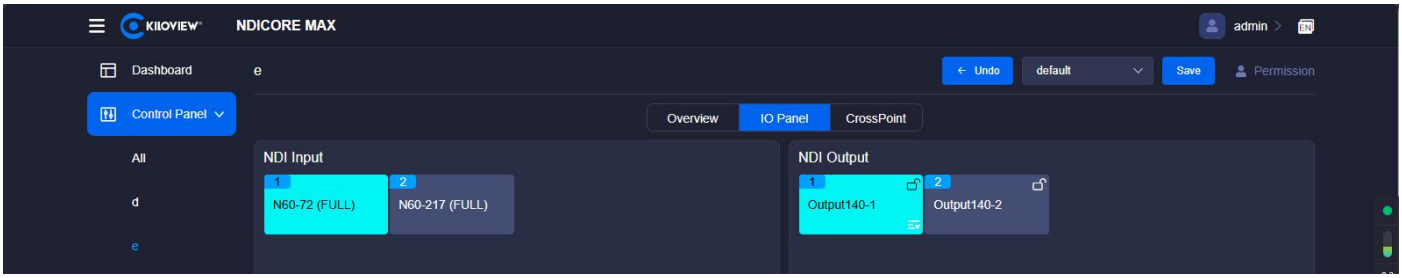


Step 5： Crosspoint and IO panel

Configure the NDI input and output by the Crosspoint panel. The cyan square indicates that the NDI input sources will output from the NDI output channels.



In the "IO Panel", except for the display, all the other operations are exactly the same as "Cross Point". Click the Output140-1, you can see that the first NDI source is displayed in cyan, indicating that the NDI video source is output from Output140-1, when click the second video source, and it turns cyan, it means that the second one is output from OUT140-1.



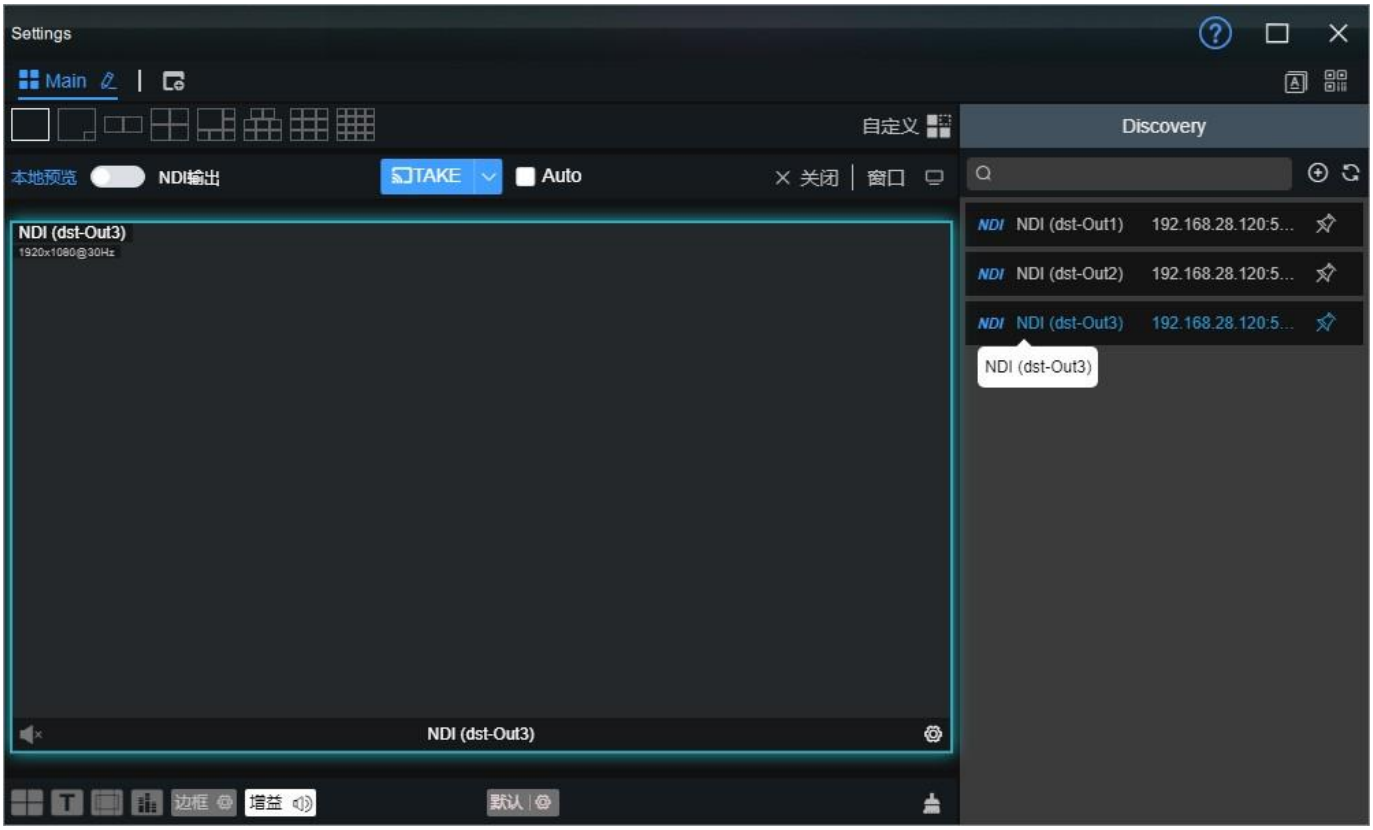
8 . Output and Play

Download Kiloview Multiview for free

Visit the website https://www.kiloview.com/cn/ndi/multiview, click “Get it now” to download Multiview, and install the software step by step.

Kiloview Multiview is a free NDI video discovery, management and multi-screen monitoring software.

Enter the management page of Kiloview Multiview， find the NDI channel output in the “Discovery”.



Introduction

The rules for naming of the output NDI streams from NDI CORE：NDI（dst-channel name），the channel name is the name of "Add Output"

9 . Others

To prolong the device life,please unplug the power cable and keep it properly if you do not use it for a long time.

KILOVIEW®

Any In Any Out Anywhere

For more questions, please contact us via:

https://www.kiloview.com/en/support

Please scan with browser.

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