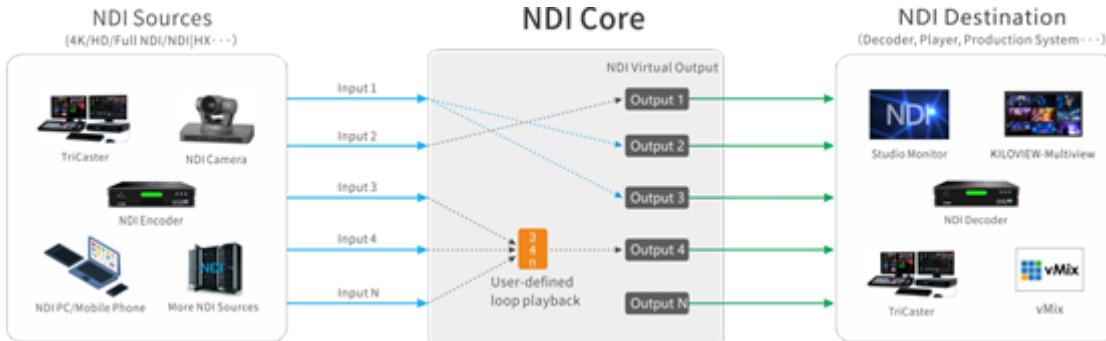# NDI CoreUser Manual(primary)
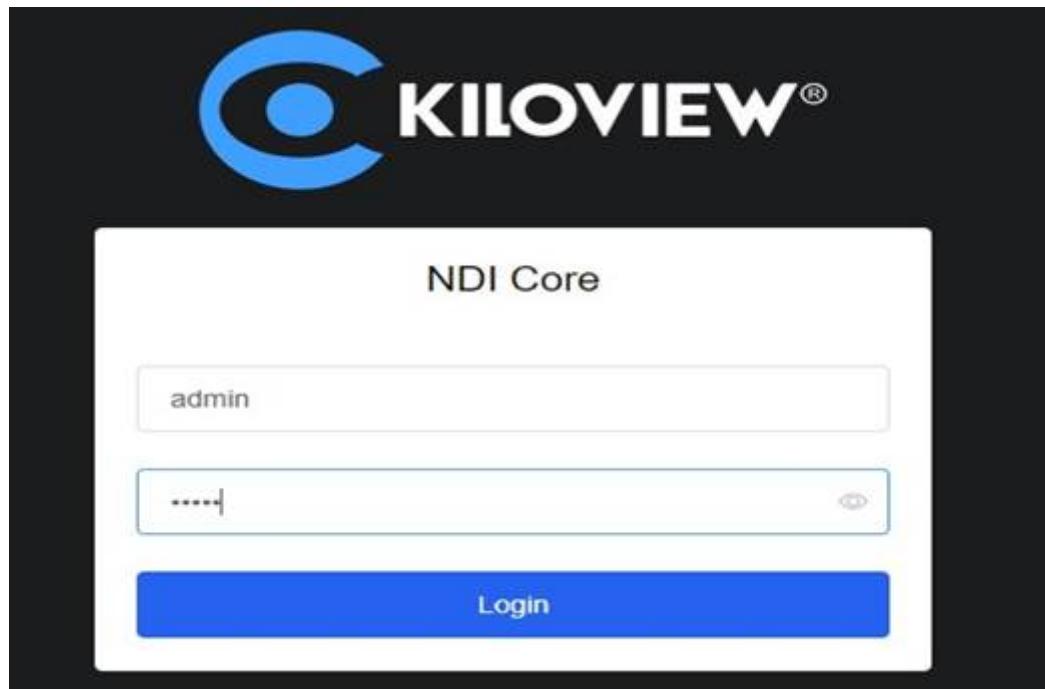
1. NDI Core Introduction

IntroductionNDI Core mainly solves the issue that the NDI encoder cannot be pulled bymultiple back-ends at the same time. NDI Core virtualizes the video source intomultiple NDI channels for output, and integrate more functions such as videosource switching and video play.NDI video sources support FULL NDI and NDI|HX input compatible with any othersoftware/hardware output NDI to the NDI Core system.When the Core receives NDI|HX, the virtual output is also NDI|HX. If the videosource is FULL NDI, the output is also FULL NDI.It is recommended to use a 10 Gigabit port at least for the NDI Core. If youneed more NDI streams, you can choose a higher network port or multiple networkcards.
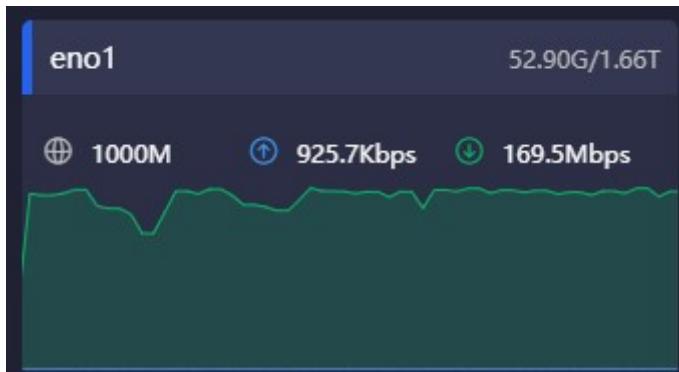
2. Login to NDI Core

Enter http://server IP: 81/ in the browser and log in to the NDI Core system.The user name and the password both are admin by defaulNoteTo ensure information security, please change your password immediately afterlogging in for the first time!NDI Core login port is 81 by default.

Dashboard

1. Network status

Shows allnetwork device information and traffic statistics on the NDI serverIntroduction

○ eno1：Core the name of the network card on the Core server.

○ 52.90G/1.66T：Total upstream traffic/downstream traffic of the current

device

○ The maximum

bandwidth of the current device

○ Real-time

traffic output of the current device

○ Real-time

traffic input of the current device

2. System status

IntroductionWhen the system memory and CPU are too high, please confirm whether theperformance of the NDI Core device is insufficient due to a large number oftransmissions. You may need to update your hardware system.The time line below shows the memory and CPU usage in the past time, and thecurrent time is 0s.

- Memory Usage：Current memory usage
- CPU：Current CPU Load
- Operation Time:

Total running time of NDI Core system
- Start Time：NDI Core start time

3. Resources

Introduction

Shows the numberof inputs, outputs of NDI Core and panel.
- Total NDI input：All added NDI video sources are counted, not including

those listed but not added.
- Total NDI output：All NDI output sources created by users.
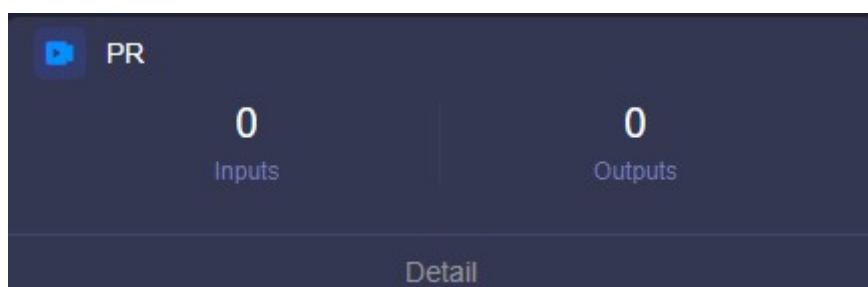- My Panel：The numbers of control panels created under the current

user.

4. Log

Statistics of all operations on the NDICore system include the time and the account of the operation, which isconducive to troubleshooting

Panel Control

1. Add panel

Click "Add Panel" to create aswitch configuration panel associated with NDI input and outputClick the panel on the left navigation bar or enter the current panelmanagement interface through the panel "Detail". The NDI input and manageare on the left side of the "General", the right is the NDI outputand manage

2. NDI input

o Click "Manage" All NDI sources under the same network segment will be automatically discovered and displayed through "public auto discovery". Select the NDI video source that needs to be added and saved
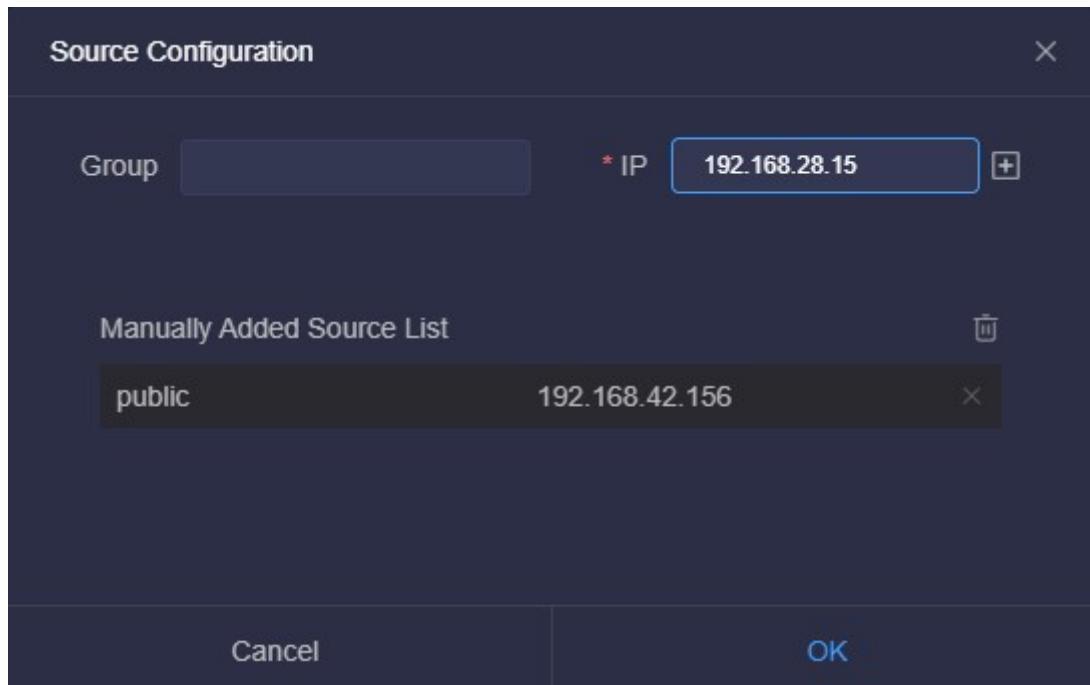in the right, dialog box will pop up after clicking "add input"

Add NDI Source (0)			✕
Manual Discovery public-Auto Discovery +			↻
☐ NDI Source	NDI Group	Device IP	
☐ CAM1 (SDI)	public	192.168.28.14	
☐ E1_ND7777 (Chan 1)	public	192.168.28.17	
☐ E2_NDI-%N (Chan 1)	public	192.168.100.5	
☐ E2_NDI-210220503 (Chan 1)	public	192.168.28.26	
☐ MG-00000000 (333_channel)	public	192.168.28.80	

o When the NDI
source is in a different NDI group under the same network segment, click to
enter the source configuration, and select "Auto ". It will
automatically discover all the NDI sources of the current group after entering
the name of the group

Source Configuration		✕
Discovery method	Auto	⌄
* Group	ABC	
Cancel	OK	

o When the NDI Introduction
source cannot be automatically discovered, such as the NDI source is in the
same LAN but across network segments, the NDI source can be added manually by
adding IP

o Group: The group
name of the NDI video source. Default is public.
o IP：Fill in the IP address of the NDI source, click "enter"
or in the right to add the IP address to the address list.
o Discovery server When the NDI source is registered to the discovery server and the
automatic discovery is replaced, the addition at this time also needs to be registered to the
discovery server. Enter the source configuration by the button, select "Discover server", and
fill in the same discovery server address and group as the NDI source Introduction

o Group: The group
name of the NDI video source. Default is public group.
o IP: The IP
address of the discovery server registered by NDI
o The NDI input Introduction
source added and saved by the above method will be displayed on the left of the
NDI input box, and the associated NDI output can be used in the cross pane

o Status:

"Official equipment" means that the NDI video source comes from NewTek and Kiloview NDI equipment or software; "available" means unofficial equipment, which can be used to connect to NDI output; "exceeding authority" means unofficial equipment that exceeds the output of the highest video source, the basic version adds unofficial devices only to support 16 video sources, and those with more than 16 added will not be available

o Select the Introduction

corresponding NDI source and display the information status of the NDI input source at the bottom

o Display

resolution and framerate of the NDI video source.

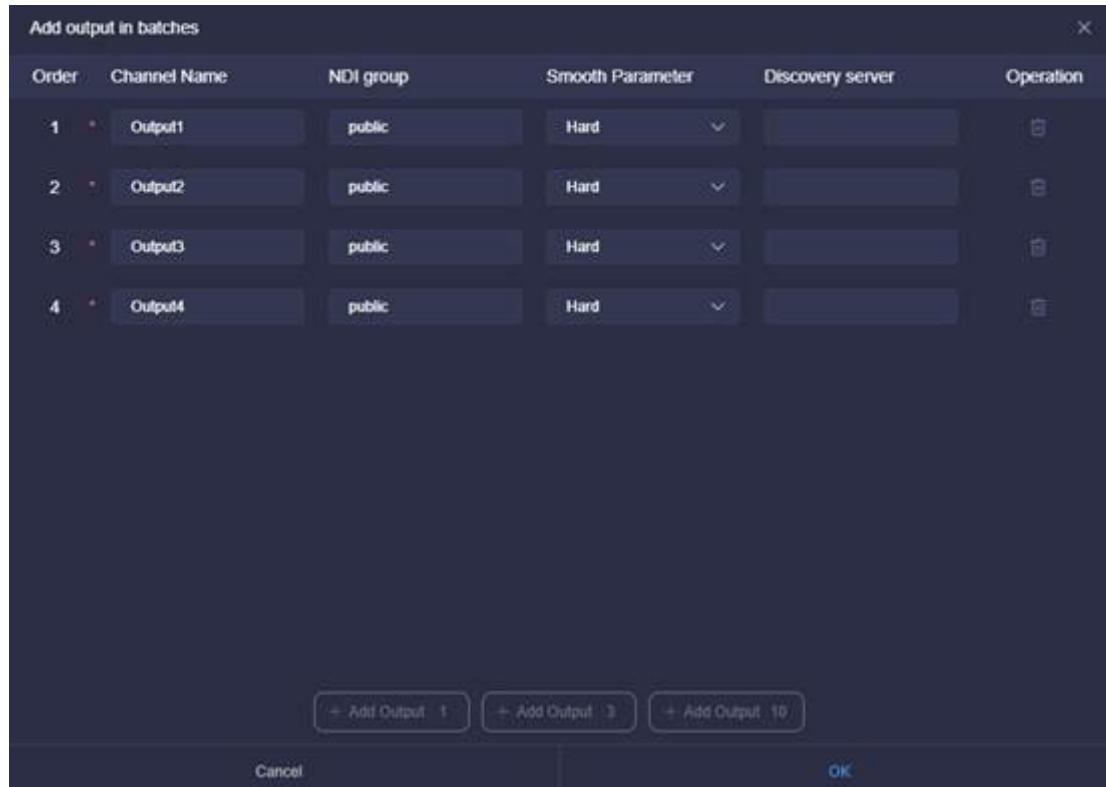o The real-time

bit rate of the video encoding.

o The real-time

bit rate of the audio encoding.

3. Create NDI Output

Create NDIvirtual output, control the association of NDI input source and NDI outputthrough the cross panel, either single NDI input to multiple NDI channelsoutput, or one NDI output switching to

different NDI streams

To create NDIoutput channel through "General" and click "Manage" button. Click "Add output" in the dialog, it will pop up the dialog of batches adding**Note**l NDI Channel Name: Output NDI channelname. Please use different names to create multiple NDI outputs. Thecombination of text, numbers and symbols are supported. When there are multiplecontrol panels, panels can share the same output channel, if the output is notlocked on any panel, you can switch and do other operations

o **NDI Group**：Assign NDI output to the specific name's group. Default is public group. The group name can be a combination of English letters, numbers, and special symbols. It supports sending data to multiple groups, and please use commas to separate groups

o **Smooth Parameter**：When switching between different sources, to ensure a smoother stream output, it is recommended to set a switching delay. If the resolution and frame rate of the switched NDI video sources remain the same, the switching output can be smoother as well

o **Discovery server**: Fill in the IP address of the discovery server, and register the NDI output to the corresponding discovery server. The receiving end also needs to register to the same discovery server to discover the stream

o **Add output 1**: Click "Add When there is a device at the back end to pull a certain output, the created NDI output channel will display the decoded resolution, frame rate, video and audio bitrate Introduction

output" according to the corresponding number, if you click "Add output 10",
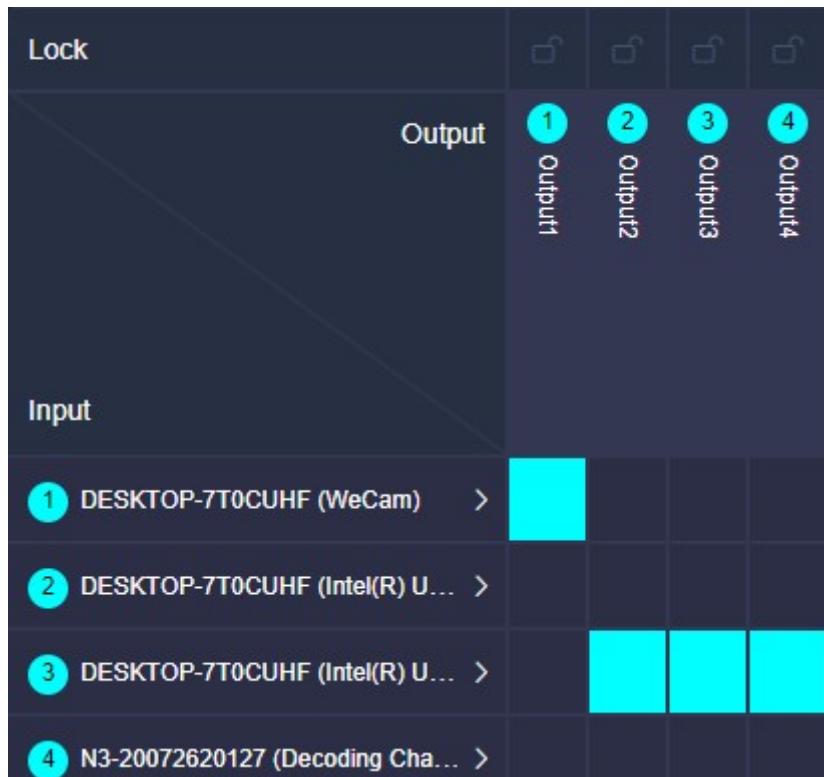
then 10 NDI output channels will be automatically added

NDI Output(5)				⚙ Manage
NDI Channel Name	Status			Connected
Output3	🖥 0x0@0	▶ 0.00M	♪ 0.00M	0
Output8	🖥 0x0@0	▶ 0.00M	♪ 0.00M	0
Output9	🖥 0x0@0	▶ 0.00M	♪ 0.00M	0
Output10	🖥 0x0@0	▶ 0.00M	♪ 0.00M	0
Output11	🖥 0x0@0	▶ 0.00M	♪ 0.00M	0

○ Display

resolution and framerate

○ The real-time

bitrate of the video encoding.

○ The real-time

bitrate of the audio encoding.

○ Connection

numbers: Shows how many back-end streams have been decoded by the current NDI
output channel

4. Establish NDI input and

output relations through "Cross-point"

Configure theNDI input and output associatively through the cross-point panel. The cyansquare
indicates that the corresponding NDI input and output channelIntroduction

○ For one NDI

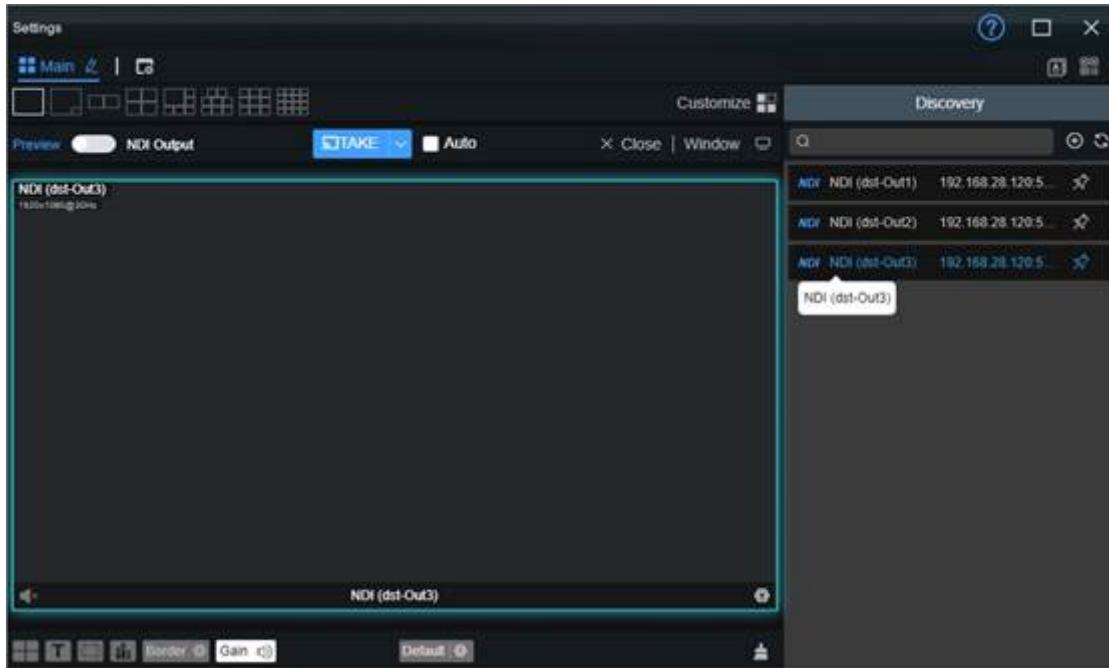input source, you can copy to multiple NDI output channels.

○ Under the

unlocked state, you can switch among multiple NDI sources. When in the locked
state, the corresponding NDI output channel cannot be manually switched

Output Play

Step 1：Enter the management page of

Kiloview Multiview Player

IntroductionThe rules for the name of the output NDI streaming from NDI Core：NDI（dst-channel
name），the channel name was created in chapter 4.3.3

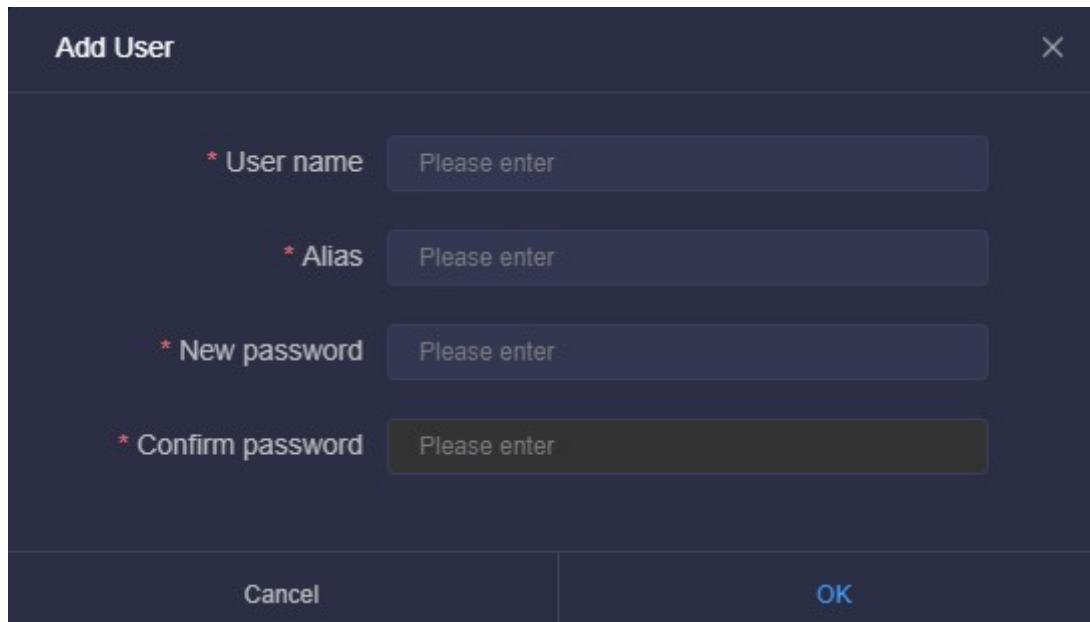## Step 2：Find the NDI channel output by the NDI Core in the "Discovery"

1. Network Status

IntroductionPlease see Chapter 3.1 for details

2. User Management

In usermanagement, you can add new users and modify and delete existing users. Thereis an admin account by defaultIntroduction

o Management

account: The management account is admin, it can modify and delete all accounts.

o Ordinary users：Ordinary users can only change their own password and all configurations under their account.

o All accounts can

only see the configuration of the control panel, input, output and play list created by themselves.

3. Log

IntroductionPlease see Chapter 3.4 for details.

4. To activate your NDICore

After your 15-dayfree trial, go to the top right of NDI Core page, click "Trial Period 15 Days" to authorize service.

1. Copy your "Device

Code" and send it to your sales consultant, or go to our distributors for license.

2. Our sales consultant or distributors will send you the authorization code to activate NDI Core.

3. Fill the code and once confirmed, your NDI Core will unlock to the full version.

Note

1. Authorization 2.Your "Authorization Code" is a unique match to your "Device Code". If you change your server CPU or installing another NDI Core, you will need to provide a new "Device Code" and purchase a new License for authorization.

code of Basic and Pro version are different. Please inform your NDI Core version before purchasing license.