Leading solution provider of IP-Based video transmission

Quick Start Guide

N5/N6 Converter

NDI High Bandwidth+NDI|HX Full Functional Codec (Version 2023-2)



Contents

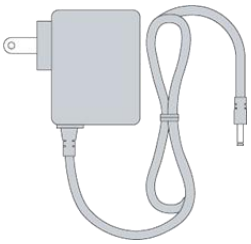
- Packing List
- Device interfaces and functions
- Device connection, login and use guide
- Device upgrade and restore to factory settings

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.

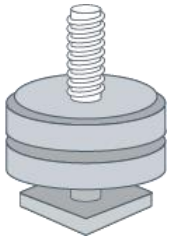
1 Packing List



(1) N5/N6×1



(2) Power Supply ×1



(3) Cold Shoe ×1



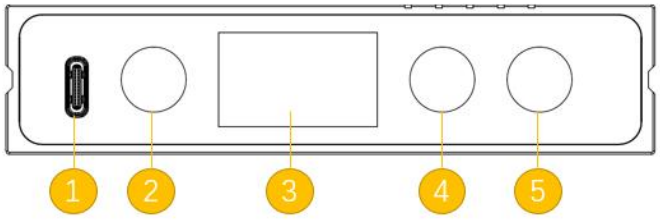
(4) Warranty Card ×1

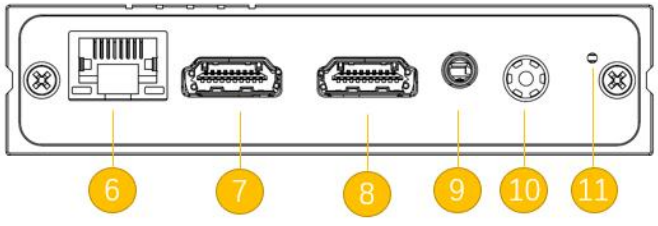


(5) Quick Start Guide ×1

2 Device Interface

The following is the interface diagram of N6 as example:





(1) Type-C Extension Interface
(2) Touch Screen（Left/Page up）
(3) LCD Screen
(4) Touch Screen（Right/Page down）
(5) Touch Screen（OK）
(6) 1GbE Port with PoE
(7) HDMI IN （Note: SDI IN for N5）
(8) HDMI OUT（Note: SDI OUT for N5）
(9) LINE IN/OUT
(10) Power Port
(11) Tally

Note

- The picture above is a schematic diagram of the interface of the N6. The difference between the N5 and N6 devices is only in the SDI/HDMI interface.

3 Device indicators

Tally/LCD Screen	**Used to indicate the status of the current video in encoding mode**	
	Green Light	PVW
	Red Light	PGM

Note

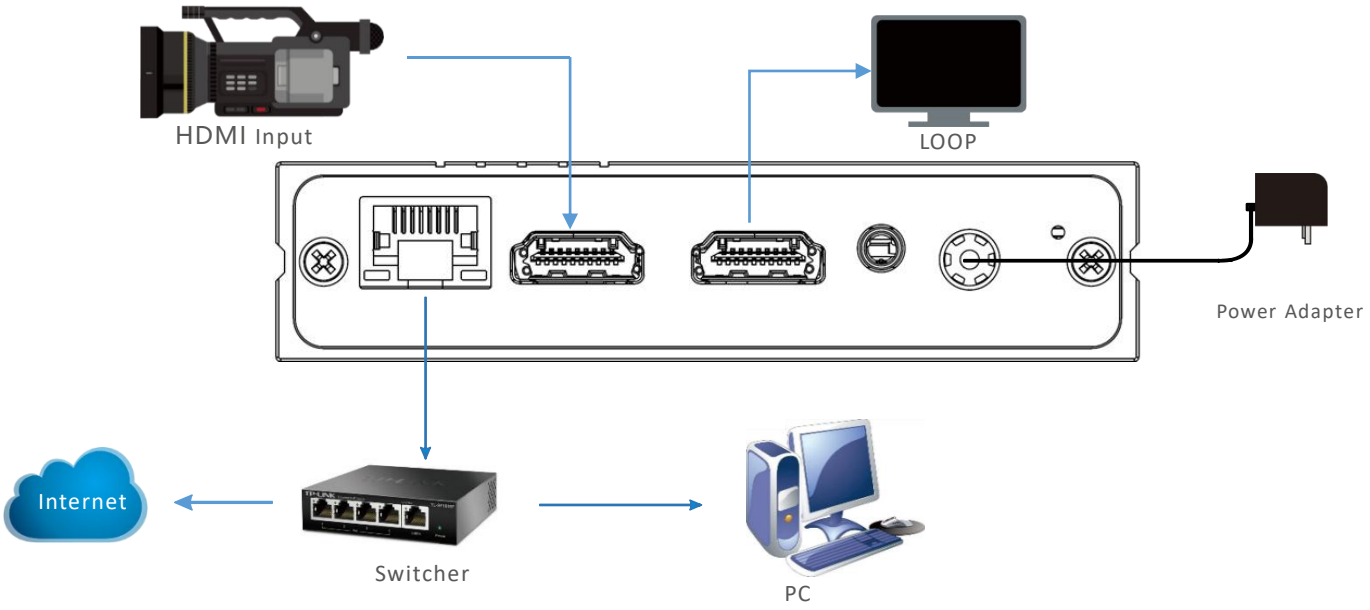
- When N5/N6 is in encoding mode, after receiving the tally signal from NDI, the LCD display will show that the current video is in PGM or PVW state (red or green).

4 Application Scenario

Note

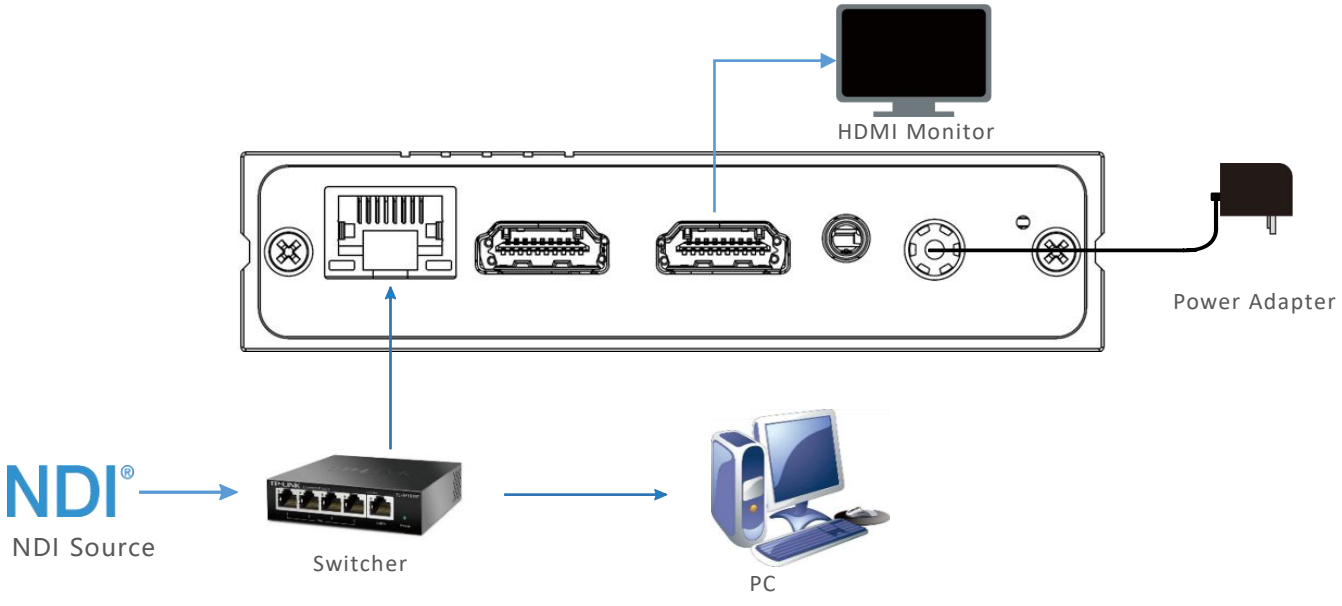
- The following example diagrams all take N6 as an example, and N5 is the SDI interface input.
- The encoding mode and decoding mode of the same device cannot be used at the same time.
- In encoder mode, make sure that the video signal output by the camera is connected to the HDMI IN/SDI IN interface.
- In decoder mode, make sure that the video signal cable is connected to the HDMI/SDI output port.

4.1 Encoding Mode



Encoding mode application system connection diagram

4.2 Decoding Mode



Decoding mode application system connection diagram

5 Display and touch buttons

N5/N6 provides a color LCD display and touch buttons on the front panel.
On the display, you can conveniently view the device status, obtain configuration parameters, and perform shortcut operations such as working mode switching and IP address configuration. The LCD display is also a large tally status display.

Display modules can be switched by clicking the touch button "◀""▶", clicking ○ means "OK" , you can enter the current display module, view detailed information, modify basic configuration parameters or modify the working mode of N5/N6, etc. For more detailed operation steps, please refer to the user manual.

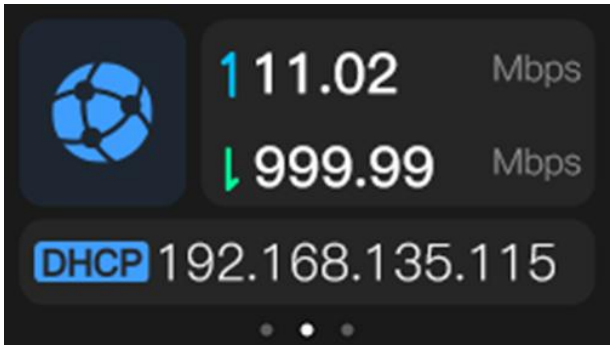
Take N6 as an example：



6 Discover Devices

6.1 Check IP address

On the LCD display, you can easily view the IP address of the device.
The content of the third page of the LCD display is: the current network status of the device. The up and down arrows indicate the real-time network uplink and downlink rates, and DHCP: indicates the dynamic IP address obtained by the device.



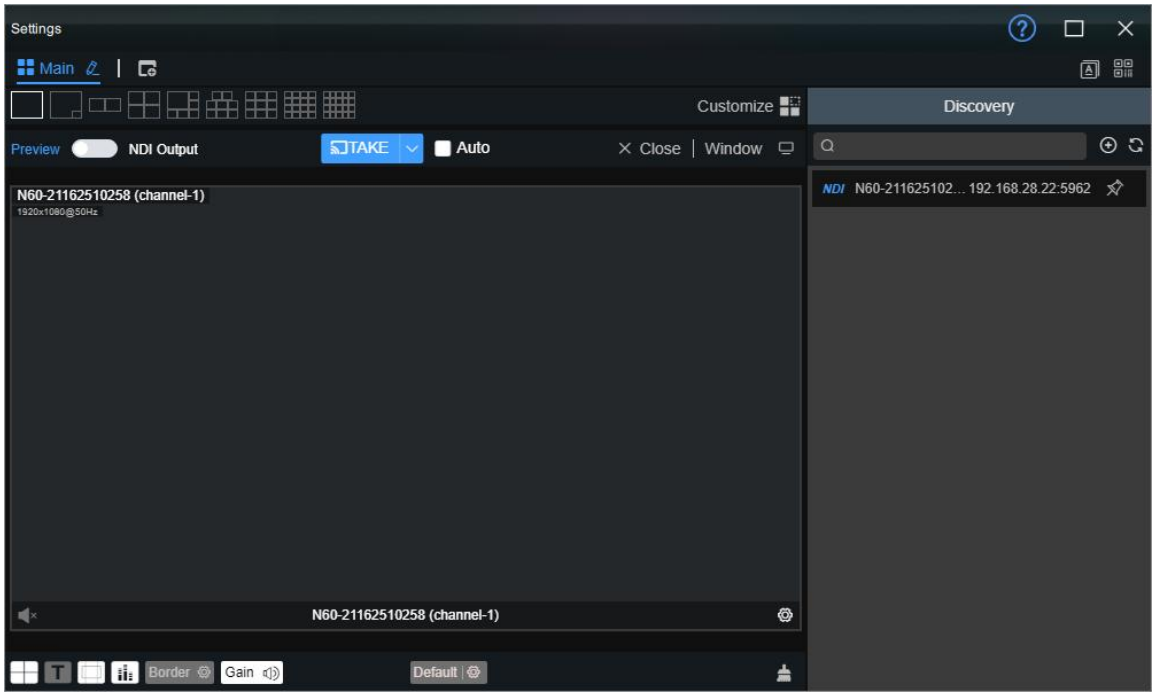
6.2 Install Kiloview Multiview NDI player for free

Download Kiloview Multiview for free
Visit the website https://www.kiloview.com/en/ndi/multiview, click the [Get it Now] to install the software step by step.
Kiloview Multiview is a free software for NDI video discovery, management and multi-view, which is popular and highly praised all over the world.

Step 1: Start the Kiloview Multiview software to configure the parameters



Step 2: Find the device in the discovery list and enter to the device web page through browser



Introduction

- N5/N6 naming rules：N5/N6-<serial number>. Serial number refers to the numbers on the device label.
- Two ways of accessing to the device web page:

Method 1: Drag the device directly in the discovery list to the left window, wait and click the icon ⓔ appeared in the upper right to access Web page directly.

- Method 2: Open web browser, enter: http://device IP address/ （Kindly note the device IP address is the one of N6 in the discovery list).

7 Login to the device Web page

Enter to the web page of the N5/N6 and both the username and the password are “admin” by default

Note

- To ensure information security, it is recommended to change your password immediately after your first login.
- For the first login or upgrading the firmware, you need to agree the “End User License Agreement (EULA)”. Please read carefully.

8 Work with your device

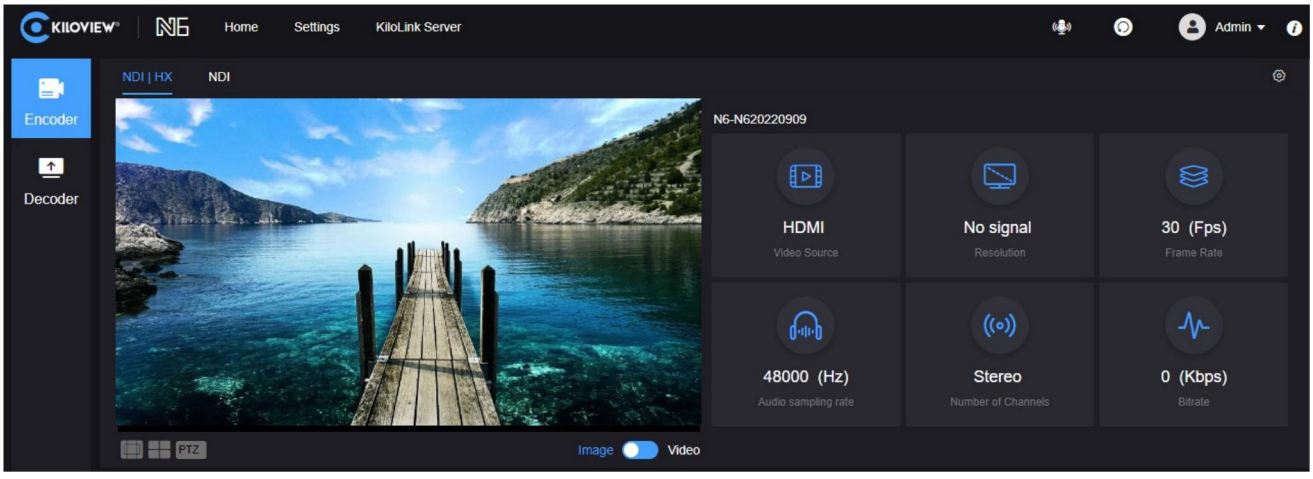
Note

- N5/N6 CANNOT be an encoder and a decoder simultaneously now, but you can switch freely.

8.1 Encoding Mode

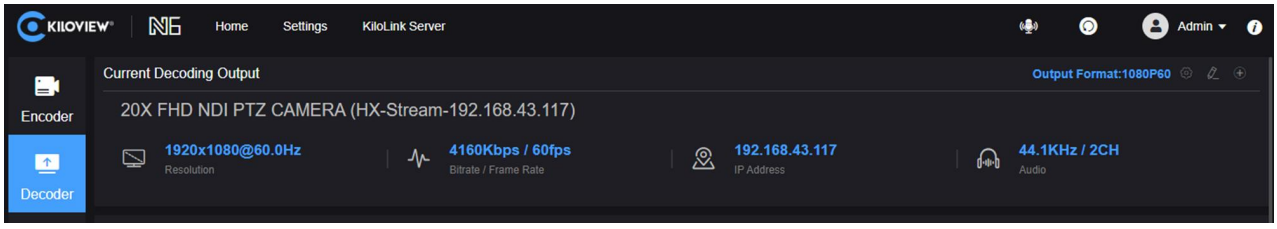
The device is under encoding mode by default. There are icons for switching between encoding mode and decoding mode on the left of the N5/N6 Web page. When the device work under "Decoder" mode, click icon “Encoder” to switch back to encoding mode.

The video preview is in "Image" mode by default, and will be refreshed in every 3 seconds. If your computer's CPU performance is well, you can click the button to switch to "Video" mode, which will improve the smoothness of the preview.

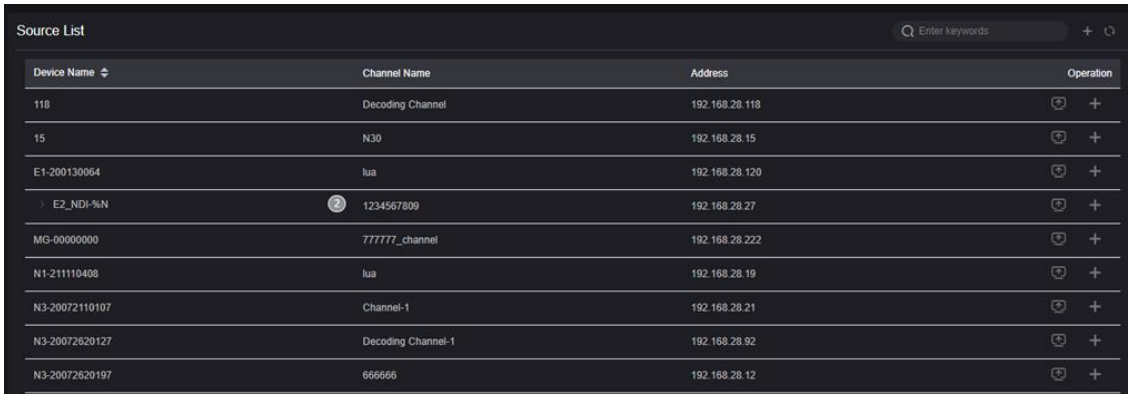


8.2 Decoding Mode

There are icons for switching between encoding mode and decoding mode on the left of the N5/N6 web page. Click icon “Decoder” to switch back to decoding mode.



When the N5/N6 is in decoding mode, the NDI sources in the network will be displayed at the bottom of the decoder web page automatically. Find the NDI source to be decoded, click the icon on the right of it to decode and output.



Sources can be added to the Preset list by clicking "+" on the right of the NDI source. N5/N6 supports up to 9 Presets, and you can save the frequently used NDI sources in the Preset list, which could ensure you quickly select Presets 1-9 at any time to decode and output.

For more details of the N6 in decoding mode, please visit at our website:
https://www.kiloview.com/en/support/docs/N5 or https://www.kiloview.com/en/support/docs/N6

9 Firmware Upgrading

9.1 Download Firmware

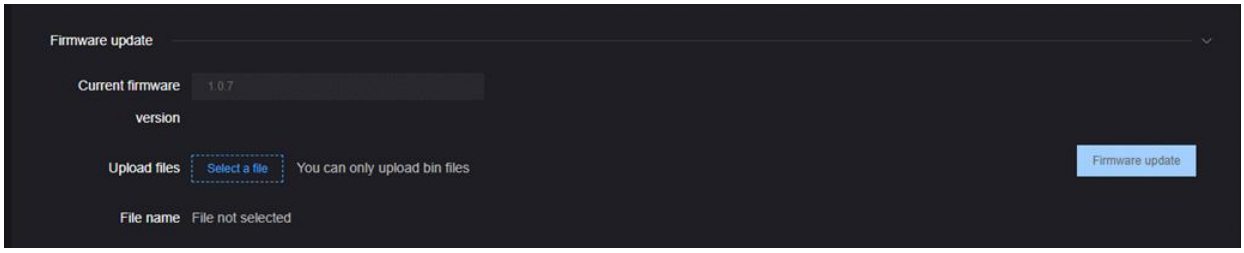
Kiloview will keep update the new firmware of N5/N6. Please visit:

https://www.kiloview.com/ensupport/download/

Select "NDI" list > "N5" or "N6" to find the latest firmware to download.

9.2 Upgrade Device Firmware

Login to the web page of N5 or N6, click "Settings">"Firmware Upgrade" to check if there is any latest firmware
available to download. If yes, select the downloaded firmware and click "Firmware Upgrade".
After uploaded the firmware successfully, it needs to reboot the device. After clicking "ok", the device will restart, please be patient.



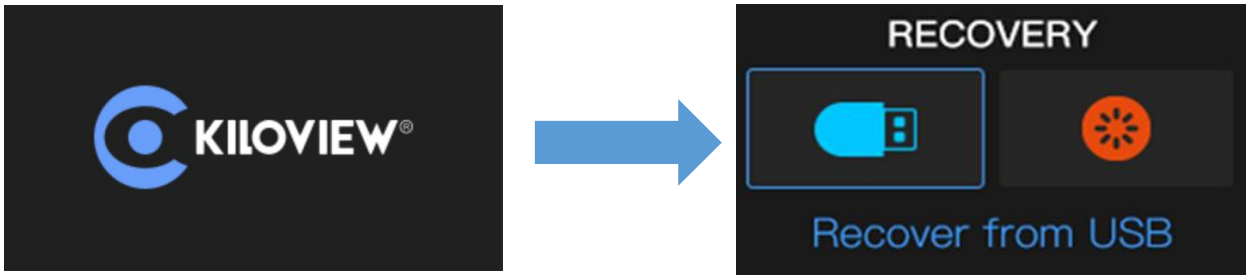
Note

- Google Chrome or Edge with Windows OS is recommended for upgrading.
- Please do not power off during the upgrade process, otherwise the device could not work.
- Generally, it will take 3-5 minutes to upgrade the device. If it is still not completed after 5 minutes, please try refreshing web page. If still cannot access it normally, please try to contact technical support for assistance.

9.3 Upgrade device firmware in recovery mode

If you cannot enter the N5/N6 web page with the method described in 9.2, you can use the Recovery mode to upgrade the firmware. The specific steps are as follows:

Step 1: Prepare a USB flash drive, copy the firmware file downloaded from Kiloview website to the USB flash drive.
Step 2: Insert the USB flash drive into the N5/N6, after the device is turned on (about 2s), wait for the Kiloview logo to appear on the screen, long press and hold  for more than 10s until the device enters recovery mode.



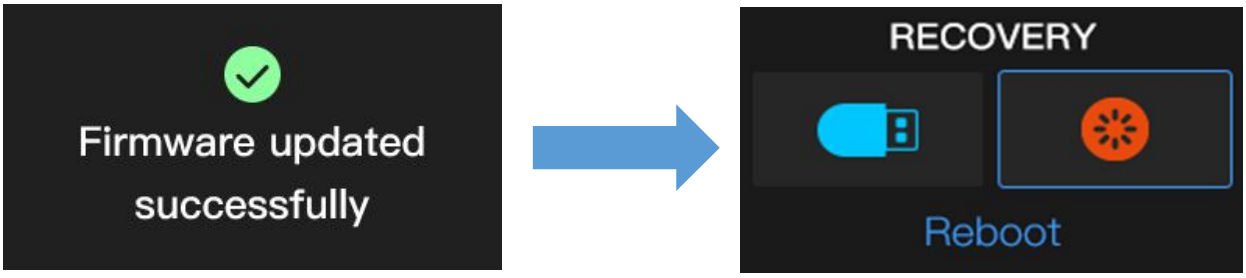
Step 3： Select "Recover from USB Device" (install firmware from U disk) by clicking the touch button. After the selection is complete, press O to start the upgrade.



Step 4: During the upgrading, it will prompt with "Updating! Please keep the power on." (Please do not power off)



Step 5: When the N5/N6 screen displays "Firmware updated successfully", the N5/N6 has completed the firmware upgrade. At this time, any operation of the scroll wheel will help you return to “RECOVERY”, please select “Reboot” to restart the device.



Note

- “Press and hold the scroll wheel for more than 10s to enter recovery mode” is only available when the device is starting.
- Upgrade firmware is available only in the root folder.
- If the firmware cannot be found, the pop-up window will show "No firmware found", please operate the scroll wheel to return to the selection screen.
- During the firmware upgrading, any operation is invalid.

- If the firmware upgrade fails, it will prompt "Failed to update the firmware", please contact technical support for help.

10 Restore factory settings

If the device cannot work normally after modified the parameters or forgot IP configuration and couldn't search and find the device, please restore factory settings.
Two methods for restoring factory settings:
1) If you can login to web page, then via the web page, click "Settings>System settings>Restore factory settings".
2) When the device cannot log in to the web management page normally, the device can be restored to the default settings by operating the touch button on the front of the N5/N6.



Note: After restoring factory setting, below parameters will be turned to default value:

- Login username and password will be "admin".
- Your device will be restored to obtain a DHCP-assigned IP address by default and the failover address 192.168.1.168 will be bound to the device.
- All encoding/decoding parameters of video and audio will be restored to default value.

11 Others

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