



AV over IP 视频网关

## 快速入门手册

# N5/N6 视频编解码器

NDI High Bandwidth+NDI|HX  
全能编解码器  
(V2.0)



### 通过本手册，您可以了解到

- 装箱清单
- 设备接口和功能
- 设备连接、登录和基本应用
- 设备升级和恢复出厂设置

在您正式使用本产品之前，建议您仔细阅读本产品使用说明书。为确保您的人身安全及避免设备受到物理或电气损伤，请严格按照本说明书的指导或在专业人员指导下进行安装使用本产品。不正确的电气连接或物理安装方式将有可能造成设备的永久损伤，甚至威胁人身安全。

## 1 设备清单



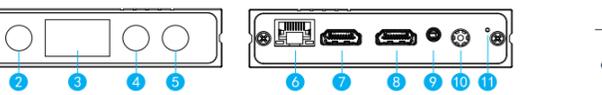
- (1) 主机 (N5/N6) x1
- (2) 电源适配器x1
- (3) 风扇x1



- (4) 合格证/保修卡x1
- (5) 《快速入门》手册x1

## 2 设备接口

以下为 N6 设备接口图



- (1) Type-C 拓展接口
- (2) 触摸按钮 (向左/上翻页)
- (3) LCD 显示屏
- (4) 触摸按钮 (向右/下翻页)
- (5) 触摸按钮 (确定)
- (6) 1000M 以太网口-PoE



- (7) HDMI IN (注:N5 为 SDI IN)
- (8) HDMI OUT (注:N5 为 SDI OUT)
- (9) LINE IN/OUT
- (10) 电源接口
- (11) Tally 状态灯

## 3 设备指示灯

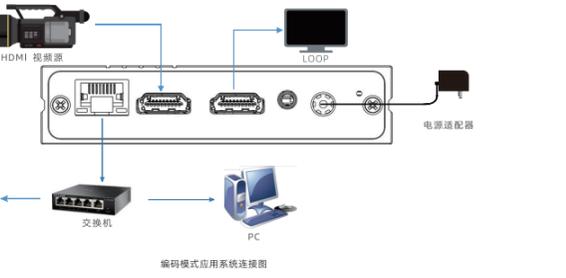
编码模式下用于指示当前视频的状态	
Tally/LCD显示屏	绿色常亮 指示当前视频处于PWW预览状态
	红色常亮 指示当前视频处于PGM输出状态

## 4 应用场景

### 注意

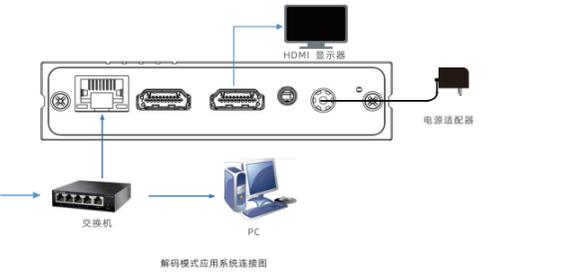
- 以下示例图均以 N6 为例，N5 为 SDI 接口输入；
- 同一设备的编码模式和解码模式不可同时使用。
- 编码模式下，需确保摄像机输出的视频信号连接 HDMI IN/SDI IN 接口；
- 解码器模式下，需确保视频信号线缆连接的是 HDMI/SDI 输出口。

## 4.1 编码模式



编码模式应用系统连接图

## 4.2 解码模式



解码模式应用系统连接图

## 5 显示屏和触摸按钮

N5/N6 在正面板上提供了彩色 LCD 显示屏和触摸按钮。在显示屏上，您可以便捷地查看设备状态、获取配置参数、以及进行工作模式切换、IP 地址配置之类的快捷操作。LCD 显示屏同时也是一个超大的 Tally 状态显示器。通过点击触摸按钮“<”“>”可进行显示模块的切换，按下“O”表示“确定”，可进入当前显示模块，查看详细信息、修改基本配置参数或者修改 N5/N6 的工作模式等。更加详细的操作步骤，请见用户手册。

示例图以 N6 为例：



## 6 发现设备

### 6.1 查看 IP 地址

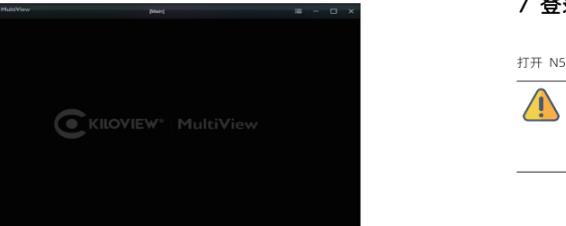
在 LCD 显示屏上，您可以便捷地查看设备的 IP 地址。LCD 显示屏的第三页内容为：设备当前的网络状态。上下箭头表示实时网络上下行速率，DHCP：表示设备获取的动态 IP 地址。



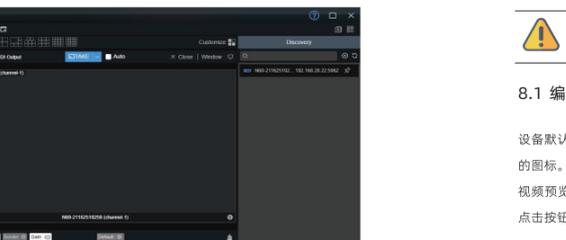
## 6.2 使用 Kiloview Multiview 免费工具

扫描下方二维码，下载 Kiloview Multiview 免费工具。访问网址 <https://www.kiloview.com/cn/ndi/multiview>，点击[申请免费体验]按钮，获取 multiview，根据提示一步步安装软件即可。Kiloview Multiview 是一款全世界广受好评的、免费的 NDI 视频发现、管理、多画面查看的工具软件。

第一步：启动 Kiloview Multiview 软件，打开设置界面



第二步：在设备发现列表中找到您要的设备，通过 Web 浏览器访问它的管理界面



## 7 登录设备管理页面

打开 N5/N6 的 Web 管理界面后，默认登录设备的用户名是：admin，密码是：admin。

### 注意

- 为保证信息安全，建议您初次登录后，立即修改密码！
- 首次登录设备时，或每次升级固件后再次登录，将出现《最终用户许可协议》的阅读窗口，请您务必仔细阅读并在接受许可协议后方可使用！

## 8 工作模式

### 注意

- N5/N6 设备目前只能工作在“编码模式”或者“解码模式”二者之一，您可以在二者之间任意切换。

### 8.1 编码模式

设备默认工作在“**编码模式**”。在 N5/N6 Web 管理界面的左边，有编码器/解码器两种模式切换的图标。当设备处于其它工作模式时，点击“编码”图标可以切换到“**编码模式**”。视频预览窗口默认为“图片”模式，画面每 3 秒刷新一帧，如果维护电脑的 CPU 性能较强，可以点击按钮切换为“视频”模式，预览窗口的流畅度将有所提升。

### 8.2 解码模式

在 N5/N6 Web 管理界面的上边，有编码器/解码器两种模式切换的图标。点击“**解码**”图标可以切换到“**解码器模式**”。



N5/N6 处于解码器工作模式时，将自动搜索网络中的 NDI 源，并显示于解码器管理界面的下方。找到要解码显示的 NDI 源，点击其右边的图标“+”，即可解码输出。



可以点击 NDI 源右边的“+”图标，将源添加到预览列表 (Preset) 中。N5/N6 提供 9 个 Preset 位置，允许您将常用的 NDI 源保存在 Preset 列表中。这样，您可以在任何时候快速地选择 1-9 号 Preset，切换解码输出。



可以点击 NDI 源右边的“+”图标，将源添加到预览列表 (Preset) 中。N5/N6 提供 9 个 Preset 位置，允许您将常用的 NDI 源保存在 Preset 列表中。这样，您可以在任何时候快速地选择 1-9 号 Preset，切换解码输出。



可以点击 NDI 源右边的“+”图标，将源添加到预览列表 (Preset) 中。N5/N6 提供 9 个 Preset 位置，允许您将常用的 NDI 源保存在 Preset 列表中。这样，您可以在任何时候快速地选择 1-9 号 Preset，切换解码输出。



## 9 固件升级

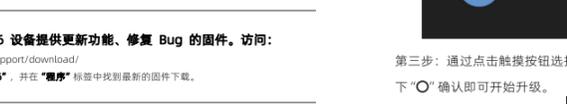
### 9.1 下载升级固件

扫描下方二维码，获取更多关于 N5/N6 编码和解码模式的使用帮助，请访问 Kiloview 官方网站地址 <https://www.kiloview.com/cn/support/docs/N6/>

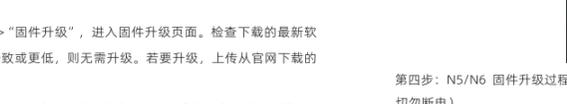
### 9.2 升级设备固件

登录 N5/N6 管理后台，点击“系统设置”>“固件升级”，进入固件升级页面。检查下载的最新软件版本是否高于当前软件版本，如果版本一致或更低，则无需升级。若要升级，上传从官网下载的固件文件，然后点击“固件升级”。

通常，上传固件成功后，系统将提示您重启，如需确认，请点击确认；如果自动重启，请耐心等待。



第四步：N5/N6 固件升级过程中，会提示“Updating! Please keep the power on.”（系统升级中！切勿断电）。



第五步：当 N5/N6 屏幕显示“Firmware updated successfully”（升级完成）时，则表示 N5/N6 已完成固件升级。此时任意操作触摸按钮将帮助您返回 Recovery 菜单，请选择 Reboot 将设备重启。



如设备长期不使用，为延长设备使用寿命，请拔掉电源，妥善保管设备。



### 9.3 Recovery 模式升级设备固件

如果使用 9.2 所述方式无法进入 N5/N6 管理后台，可以使用 Recovery 模式进行固件升级，具体步骤如下：

第一步：准备好一个 U 盘，把从官网下载好的固件文件拷贝到 U 盘。

第二步：将 U 盘或插入 N5/N6，设备开机后 (2s 左右)，待屏幕出现 Kiloview 徽标，长按住“O”键 10s 以上直至设备进入 Recovery 模式。



第三步：通过点击触摸按钮选择“Recover from USB Device”（从 U 盘安装固件），选择完成后按下“O”确认即可开始升级。



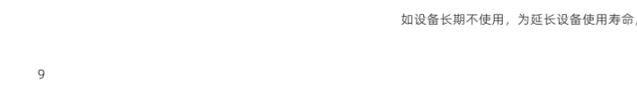
第四步：N5/N6 固件升级过程中，会提示“Updating! Please keep the power on.”（系统升级中！切勿断电）。



第五步：当 N5/N6 屏幕显示“Firmware updated successfully”（升级完成）时，则表示 N5/N6 已完成固件升级。此时任意操作触摸按钮将帮助您返回 Recovery 菜单，请选择 Reboot 将设备重启。



如设备长期不使用，为延长设备使用寿命，请拔掉电源，妥善保管设备。



## 10 恢复出厂设置

如因设备参数配置不当导致设备不能正常工作，或者当忘记网络 IP 配置并且无法搜索找到设备时，可以尝试恢复设备的出厂设置。恢复出厂设置有两种方法：

**方法一：**当设备能正常登录 Web 管理页面时，通过 Web 界面的“设置”>“系统设置”>“恢复出厂设置”。

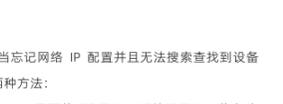
**方法二：**当设备不能正常登录 Web 管理页面时，通过操作 N5/N6 正面的触摸按钮，将设备恢复出现设置。

### 注意：恢复出厂设置后，以下参数将会改变至默认值

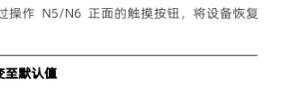
- 登录用户 admin 的密码将恢复为 admin。
- 您的设备将恢复至默认使用的 DHCP 动态获取 IP 地址的模式，同时一个 failover 地址 192.168.1.168 将会被绑定到网卡上。
- 所有视频编码/解码参数、音频参数等将恢复到出厂的默认值。

## 11 其它

如设备长期不使用，为延长设备使用寿命，请拔掉电源，妥善保管设备。



如设备长期不使用，为延长设备使用寿命，请拔掉电源，妥善保管设备。



如设备长期不使用，为延长设备使用寿命，请拔掉电源，妥善保管设备。



如设备长期不使用，为延长设备使用寿命，请拔掉电源，妥善保管设备。



如设备长期不使用，为延长设备使用寿命，请拔掉电源，妥善保管设备。



Your AV over IP Trailblazer

## Quick Start Guide

# N5/N6 Converter

NDI High Bandwidth+NDI|HX  
Full Functional Codec  
(V2.0)



### 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



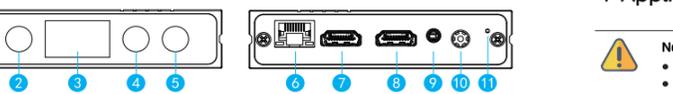
- (1) N5/N6x1
- (2) Power Supply x1
- (3) Cold Shoe x1



- (4) Warranty Card x1
- (5) Quick Start Guide x1

## 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

1



### 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

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

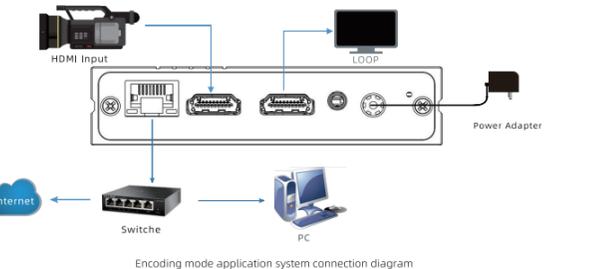


### Note

- 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.

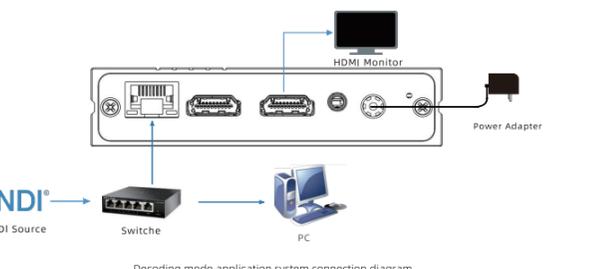
2

## 4.1 Encoding Mode



Encoding mode application system connection diagram

## 4.2 Decoding Mode



Decoding mode application system connection diagram

3

## 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 “O” 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.

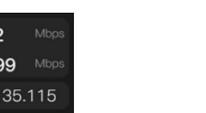
Take N6 as an example:



## 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.



4

## 6.2 Install Kiloview Multiview NDI player for free



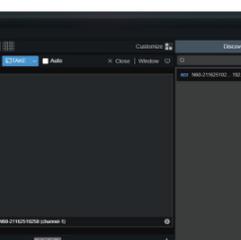
### Download Kiloview Multiview for free

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



5

## 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

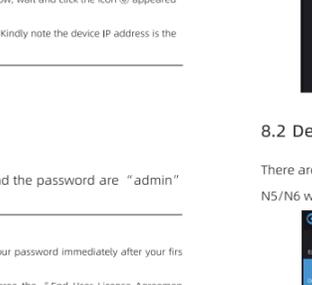
The device is under encoding mode by default. There are icons for switching between encoding mode and decoding mode on the left of the N5/N6 Web page. When the device work under “Decoder” mode, click icon “Encoder” to switch back to encoding mode.

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.

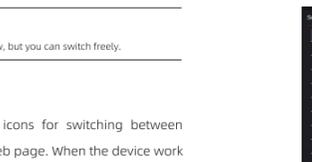
6

## 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 “D” 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.

7

## 9 Firmware Upgrading



### 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>

### 9.1 Download Firmware



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

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

8

## 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:

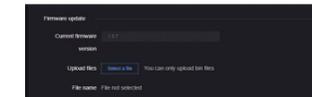
Step 1: Prepare a USB flash drive, copy the firmware file downloaded from Kiloview website to the USB flash drive.

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 “O” 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.

9

## 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.

10

## 12 Others

When 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.

### 13 Others

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

11