



N4 for NDI

HD HDMI/NDI Bi-Directional Converter

USER MANUAL

Changsha KILOVIEW Electronics CO., LTD.

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COTENTS

1 PRODUCT INTRODUCTION	
1.1 Product Features	
1.2 TECHNICAL PARAMETERS	4
2 USER GUIDE	
3 PACKING LIST AND INTERFACE DESCRIPTION	6
3.1 Packing List	6
3.2 INTERFACE DESCRIPTION	6
3.3 LED INDICATORS	
4 INSTALLATION AND CONNECTION	8
4.1 Connect Video Signal	8
4.2 CONNECT NETWORK	9
4.3 CONNECT AUDIO	9
4.4 Connect Power Supply	
5 LOGIN AND NETWORK CONFIGURATION	
5.1 Login to the Device via Ethernet	
5.2 Network Configuration	
5.3 Local-link (Failsafe)	
6 NDI DISCOVERY AND MONITORING	14
6.1 NDI Tools Installation	
6.2 NDI DISCOVERY AND CONNECTION	
6.3 NDI ENCODE BIT RATE	
7 ENCODING PARAMETER CONFIGURATION	
7.1 Status Column	
7.2 BASIC SETTINGS	
7.3 Advanced settings	
7.3.1 NDI Connection	
7.3.2 PTZ control (Not available in this version)	
8 NDI DECODING CONFIGURATION	
8.1 DISCOVER NDI SOURCE	
8.2 Decoding and output	
8.3 DECODING PARAMETERS SETTING	
8.4 DISCOVERY SERVICE	
9 SYSTEM SETTINGS	
9.1 USER MANAGEMENT	28
9.2 QUICK RESET	
9.3 REBOOT	
9.4 Restore Factory Settings	



Firmware Upgrade

1 Product Introduction

NDI[®] is the world's leading standard for video-over-IP technology. Kiloview N4 for NDI[®] can convert 1080p60 video and NDI[®] in both directions with the advantages of NDI[®]. This converter is small and compact enough to put in your pocket. N4 for NDI® supports up to 1080p60 video input (Encoder) or 1080p60 video output (Decoder). A tally system with a big tally light is built-in for indicating which camera is in program or preview. N4 supports wide DC input range from 5V to 18V which can be easily powered by USB, power bank or camera battery, or PoE. A threaded screw camera mount is provided for camera mounting. PTZ control over USB adapter/Ethernet is supported.

It also has the 3.5mm audio input/output which supports intercom (Note: Voice intercom function not realized in this version).

1.1 Product Features

- Bi-Directional converting, it can work as either NDI video encoder or NDI decoder.
- Plug and play, it can convert HDMI to NDI, or NDI to the display easily.
- A big tally light is built-in for indicating which camera is PGM or PVW status.
- Support PoE, and 5-18V DC input, the device can be powered by USB, power bank or camera easily.
- Configured with 1x HDMI input and 1x output interface for view on the monitor while NDI streaming or output while decoding.

- Support up to 1080p60 video resolution, to ensure high quality video transmission.
- Support encoding and decoding resolution up to 1080p60;
- Provide standard camera screw to install on the camera;
- Optional control cable/Ethernet for PTZ control over Visca/Visca over IP/Pelco etc. supported (Note: Customize available for other unlisted PTZ protocols; PTZ function is not available in this version);
- YCbCr4:2:2 NDI high quality coding ensures excellent picture quality, lossless audio coding ensures high fidelity sound quality.
- Precise clock and intelligent algorithms ensure frame synchronization and accurate video and audio synchronization.

Item	N4	
Input interface	HDMI	
Output interface	HDMI	
NDI Features	Up to 1080p60 encoding and decoding.	
NDI Encoding and decoding	ng and decoding Support	
	Note: NDI encoding mode and decoding mode cannot work	
	simultaneously. When in encoding mode, the output interface will	
	loop the original video.	
Internet interface	100/1000Mbps Ethernet Port	
	Support PoE	
PTZ control	Support	
Tally	Support	
Voice Intercom	Support (Customization)	
Management type	Web control	
Hotshoe Screw	Standard 1/4" screw(6.5mm).	
Power Supply	DC 5V-2A or POE	
Power consumption	5W	
Working temperature	-20°C~45°C	
Dimension	100x80x24mm	
Weight	235g	

1.2 Technical Parameters

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2 USER GUIDE

• Installation and Connection

Connect the power and video input source correctly, power on the device.

• Network Connection and Configuration

The easiest way for network connection is to connect the device to the network by wire, automatically obtain the IP address and DNS from the network without any settings on the device. After that, use NewTek Studio Monitor and connect the NDI stream of the device, click the gear button() in the lower right corner of the software interface, you can directly open the login link of the encoder WEB page without manually entering the URL. (For the first login or the first login after restoring the factory settings, you will need to agree to the "EULA" that pops up. Otherwise, the NDI stream service of the device cannot be used normally.)

If you want to set the network manually, you can use the default IP address 192.168.1.168 to login the web page and set. The default username and password is "admin/admin".

• NDI Streaming

NDI has the function of automatic discovery. After the encoder is normally connected to the network, other NDI-supporting tools (such as Newtek studio monitor, OBS, vMix) can automatically discover the encoder and pull the NDI stream directly.

• NDI Decoding

To find the NDI source in the same LAN and decode the corresponding source to the display.



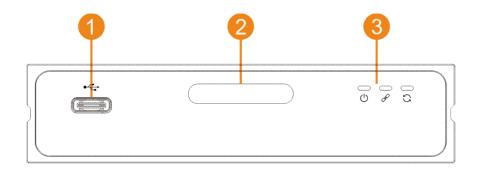


3 Packing List and Interface Description

3.1 Packing List

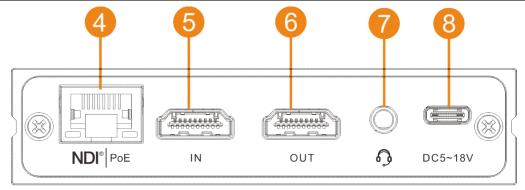
Name	Unit	Quantity
NDI [®] Converter	PCS	1
TYPE-C power cable	PCS	1
TYPE-C to TYPE-A cable	PCS	1
Certificate/ Warranty card	PCS	1
Power adapter	PCS	1
Hotshoe	PCS	1
Quick start guide	PCS	1

3.2 Interface Description



1. TYPE-C Expansion 2. Tally 3. Status Indicator

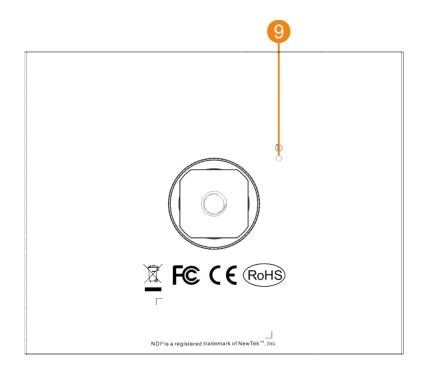




4. 100/1000M Ethernet (PoE)



6. HDMI Output 7. Audio port 8. TYPE-C Power Input







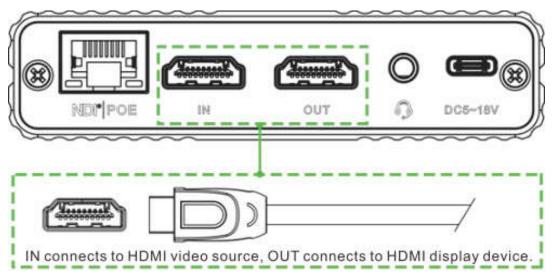
3.3 Led indicators

lcon	Color	Status	Descriptions
U POWER White		Always on Flashing Off	Power connected Power failure No power supplied or power failure
Ø LINK	White	Quick flashing Slow flashing	Network connected Network connection abnormal or when restore device to factory settings (RUN light will be flashing as well)
		Off	Network abnormal or disconnected
S	White	Flashing	Device works properly
RUN		Off	The device is abnormal or not started

4 Installation and connection

4.1 Connect Video Signal

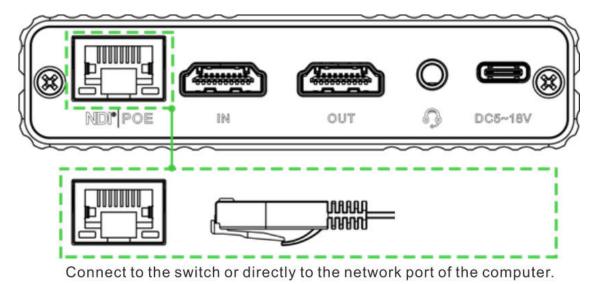
Connect the HDMI signal from a source (such as a camera) to the HDMI input of the device through a cable. The HDMI output is connected to the display device via a HDMI cable.





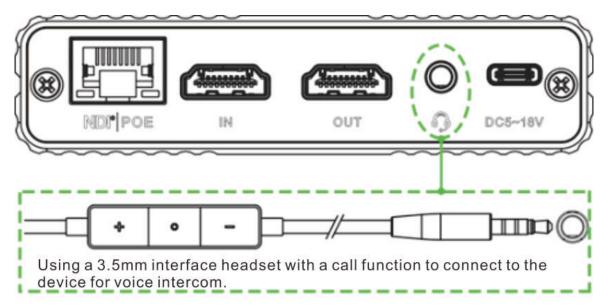
4.2 Connect Network

Connect the network cable to Ethernet of the device. The other end of the network cable is connected to the switch. You can also connect directly to the network port of the computer.



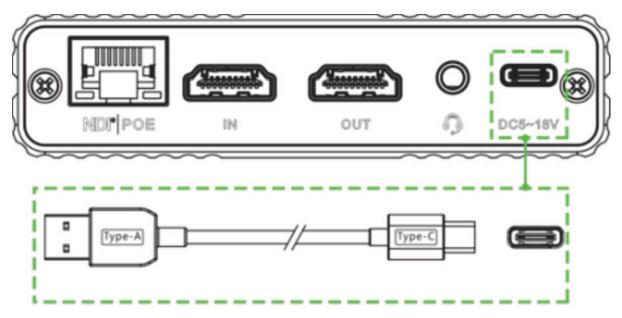
4.3 Connect Audio

Using a 3.5mm interface headset with a Microphone to connect to the device for voice intercom.



4.4 Connect Power Supply

After connecting the power adapter (DC 5v), the power light will be on and the device starts working. (If you use PoE for power supply, there is no need to connect to the adapter.



It is packed with one USB charging cable, which can power the device by a DC5-18V power supply.

5 Login and Network Configuration

5.1 Login to the Device via Ethernet

First connect the Ethernet port of the NDI encoder and the computer to the same switch, or connect the encoder directly to the computer network port. Then configure the encoder and computer to the same network segment so that the computer can access to the web page of the encoder.

The default management IP address of the encoder is 192.168.1.168. (This is the failsafe address of the device. Generally, do not modify this IP address.) If the IP address of the computer is not in the segment of 192.168.1.*, please set the IP address of the computer network port to 192.168.1.*.

Open the WEB browser, directly input the IP address of the encoder (default is 192.168.1.168) or the URL http://192.168.1.168 and press Enter to open the login interface. After opening the page, an authentication dialog will pop up, please fill in the username and password, the default username is admin, the default password is admin, and then click "Login".

Note: Due to the browser compatibility issues, it may cause the web page display abnormal, it is recommended to use Chrome or Firefox.

For the first login or the first login after restoring the factory settings, you will need to agree to the "EULA" that pops up. Otherwise, the NDI stream service cannot be used normally.

After login, the encoding and function parameters can be set on the encoder management

web page. The page is shown as below:

C KILOVIEW N4 for NDI Encoder	Decoder Network			System Setup 🗈 🔉 Admin 🗸 🚺
	1920x1080@ Resoluti	60 Hz 60 Fps on Frame Rate		z/Stereo Format
		@ Basic S	settings	
	Group Blank for default group	Device Name N4_19162010144	NDI Channel Name Channel-1	
	Audio Source	Volume	Encoding Quality	
	номі	~	75% 100% 120% 130%	
	T. Spectrum			I JUN
		≢ Advance	1 Settings	
	NDI Connection			
	Default	and the second second		
		Generate	Apply	$ \sim$ \sim \sim \sim \sim
	EDID			

5.2 Network Configuration

The Ethernet port of the device is connected through the network cable and it can be configured with an IP address. The device network port can be configured with dual IP addresses. The IP address configured here is not the default management IP address. The Ethernet port defaults to DHCP to obtain an IP address. It will automatically obtain a complete IP address, Gateway and DNS according to this LAN.

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Click "Network" to view the device Ethernet address configuration and Failsafe address The Failsafe address is the default management IP address. Generally, you do not need to make special settings.

# Network				
Ethernet				
MAC &	Dynamic			
	DHCP Dynamic			
IP	Gateway			
Net mask	DNS			
	Apply			

There are two ways to get the address, one is DHCP, and the other is manual setting. To use DHCP to automatically obtain IP, you must first ensure that the router or switch has enabled the DHCP service. This method is simple and convenient, but the IP obtained by DHCP changes continuously, and you cannot directly know what IP address the encoder gets. To set the IP manually, you need to enter a fixed IP to the encoder, and this IP address is fixed as long as the encoder does not restore factory settings, this method is more stable. Therefore, each method has its own advantages, and can be selected accordingly.

5.3 Local-link (Failsafe)

The Failsafe is specifically configured with a dedicated IP address on the Ethernet interface (It is the default management IP address of Ethernet port). Even if you forget the Ethernet IP settings, or if the IP address obtained by DHCP and cannot be known, you can still connect and access the device through the default IP address.

Local-link (Failsafe)		
IP	Net mask	
192.168.1.168	255.255.255.0	
Gateway		
	Apply	

"Failsafe" is to bind the device to an independent IP address. This IP address does not affect the use of other network cards. In special cases, it can be used to manage the encoder. This address can be changed manually (Usually no need to change), the default address is 192.168.1.168.

Note: When accessing the device by Failsafe address, your computer must have an IP address of the same network segment.



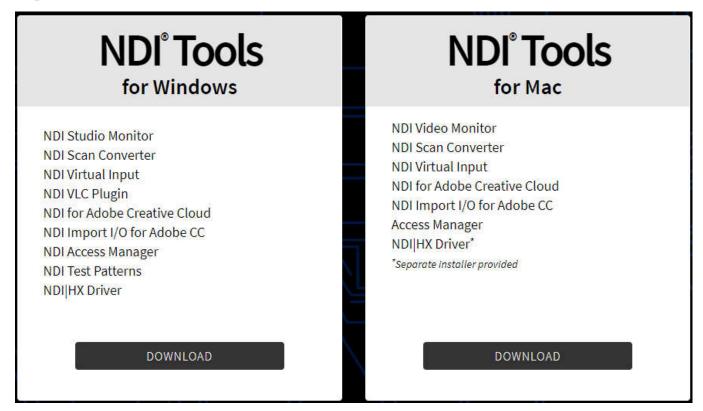
6 NDI discovery and monitoring

N4 for NDI converter is a professional video encoding/decoding device for NDI video production industry. It can convert HDMI video source into NDI stream and transmit video through Ethernet for any compatible systems, devices or software in the network.

6.1 NDI Tools Installation

Download and install NDI Tools from NewTek website:

https://www.newtek.com/ndi/tools/#

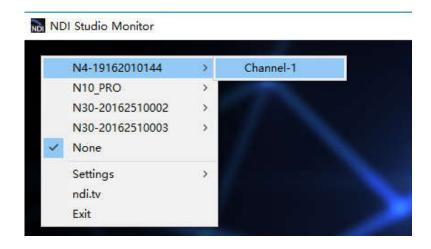


6.2 NDI Discovery and Connection

On the PC side, other NDI-enabled tools of the same subnet can discover the encoder automatically. Currently there are many NDI-enabled software. The following is an example of how to automatically discover and pull NDI video streams by using NewTek studio monitor and vMix.



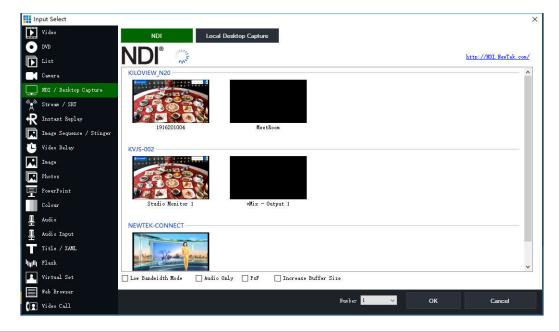
Open NewTek studio monitor software, click the icon in the upper left corner to display the list of device names that have been discovered. The device list will be displayed according to different channel names. Select the device you want to connect, and then you can pull the current video stream of the converter.



Note: After opening the selected video of the converter by Studio Monitor, click in the lower right corner of the player to open the Web page of the converter directly, which is convenient for the management of the converter.



Open vMix, click "Add Input" of the left corner, select "more", which shows it can add various sources. Click "NDI/desktop capture", it shows NDI devices list. According to device names and channel names, you could select the device you want to add, then click "OK", the video source will be added into vMix play source list.



Note: NDI discovery is implemented through multicast. Therefore, the NDI converter and other NDI devices should be in the same subnet. The device is configured with the IP address of the same subnet and can communicate with each other (It can be obtained automatically). Otherwise, NDI stream may not be automatically discovered NDI stream.

6.3 NDI Encode Bit Rate

The N4 device transmission requires high bit rate, so the device needs to be connected to a Gigabit network. The pulling stream device also needs a Gigabit network. Otherwise, the stream play will be abnormal or not smooth. The following table shows the reference bit rate at different resolution.

resolution	Coded output bandwidth
1080P60	125Mbps
1080i60	100Mbps
720P60	90Mbps





7 Encoding Parameter Configuration

7.1 Status Column



- Resolution: It will display the resolution of the video source, max resolution would be 1080p60.
- Framerate: It will display the framerate of the video source.
- Bitrate: It will display the real-time encoding bitrate.
- Audio format: It will display the encoding audio sample rate and audio channel.

7.2 Basic settings

NDI is a protocol developed by NewTek which is used for video-over-IP transmission in LAN with features of high quality and low latency. Set NDI related parameters in "Basic settings"

		🕸 Basic Settin	gs			
Group		Device Name	NDI CI	hannel Name		
Blank for default group	ank for default group N4_19162010144		Channel-1			
Audio Source		Volume	Encodi	ng Quality		
HDMI				•••		
					120% 130%	

- Group: To configure the devices to a group, the name of the group can be the combination of characters and figures. To configure multiple groups is allowed and the group names should be separated by comma(,). The default group name is "public".
- Device Name: The device name of NDI source.

- NDI channel name: When there are multiple NDI sources in the same network, as the default channel names are the same, so it's required to modify the channel name with different parameters to identify each device correctly.
- Audio source: Default is HDMI embedded audio. Selecting analog audio input is not valid. Analog audio input can't be encoded as audio source, only for intercom.
- Volume: For gain adjustment of input line-in audio or HDMI embedded audio.
- Encoding quality: When the encoding quality is reduced/increased, the encoding quality and encoding bitrate will also be lowered/increased.

Note: It's not required to save after modifying the device group, device name and channel name. After the modification, it will take effect immediately if clicking on other places on the web page.

7.3 Advanced settings

7.3.1 NDI Connection

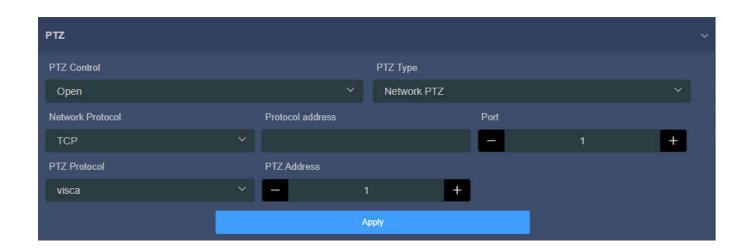
If choosing multicast mode, NDI transmission will be executed in multicast mode. Click "Generate", a multicast IP will be generated randomly, or you can configure it manually and click "Apply" to take effect.

NDI Connection				
Connection		Multicast IP	Net Mask	
Default				
	Generate		Apply	

7.3.2 PTZ control (Not available in this version)

The device supports PTZ control, both protocol types of PTZ over Ethernet and serial port are supported.

PTZ over Ethernet needs to correctly configure the protocol address and port of the connected PTZ, and specify the PTZ control protocol (Sony Visca, Pelco-D/P supported).



A USB to RS232/RS422/RS485 adaptor is required through TYPE-C to USB. Inserting the USB to RS232/RS422/RS485 adaptor, the device supports PTZ control over serial port.

PTZ					
PTZ Control		PTZ Type			
Open		✓ Serial			
Serial Device	Baudra	ite	Parity		
Select	✓ 0		V (None)		
Start Bits	Stop B	its	XON/XOF	F RTS/CTS	
5	~ 1		Y Close	Opefilose (Dpen
		Apply			

After configuring the control parameters correctly, PTZ control service can be realized by

PTZ control panel of NewTek Studio Monitor.





8 NDI Decoding Configuration

Click "Decoding" to switch to decoding function on Web Page.

Before using decoding function, please check the Ethernet IP address and log in the WEB

page for management with this address, and then switch to decoding function.

	击 Network	
Ethernet		
MAC &	Dynamic	
	DHCP Dynamic	
IP	Gateway	
192 168 3 144		
Net mask	DNS	
	Apply	

Note: Encoding and decoding functions of the device cannot be carried out simultaneously. If the device is switched to decoding function, encoding function will be stopped.

Decoding mode will generate one NDI stream for discovery, and the channel name is "Decoding Channel". Using Studio Monitor to connect the NDI stream and click the gear button in the lower right corner to go to the WEB page.

C KILOVIEW N4 for NDI Encoder	Decoder Network					System Setup 🖪 🕂 Admin 🕶 🕖
		() () ()	urrent Decoding Outp	ut	۷. ۵ -	
	TEST1 (Channel-167)					
	1920x1080p 60Hz Resolution	48.0KHz / 2C Audio	н 💿	192.168.4.123 IP Address	136277Kbps / 60fps Bitrate / Frame Rate	
		E	Decoding Preset		• · ·	
					@ Blank 💟	
			8 Source List		000	
	Device Name 💠	Channel Name		Address	Operation	
	E1_NDI-0624057	Chan 1		192.168.4.242		
	N4_19162010144	Decoding Channel		192.168.4.132		
	TCMI4KUHD-1234234	Channel-1		192.168.4.188	# ⊕	
	TESTI	Channel-167		192.168.4.123		
× ×						



8.1 Discover NDI Source

In the same LAN, NDI sources can be displayed in the source list through automatic

discovery. Click the icon icon to update NDI source in real time. Click the NDI source corresponded icon icon, you can add the source to the decoding preset box; Click the NDI source corresponded icon icon, which can directly decode and output the video.

	8≣ Source	List	Q 🕀 🖸 🗸
Device Name ≑	Channel Name	Address	Operation
E1_NDI-0624057	Chan 1	192.168.4.242	# ⊕
N4_19162010144	Decoding Channel	192.168.4.132	# ⊕
TCMI4KUHD-1234234	Channel-1	192.168.4.188	# ⊕
TESTI	Channel-167	192.168.4.123	# ⊕

Click Old NDI sources from different groups or different network segments in the same local area network.

8 Source List

If you want to search for devices with different group names in the same subnet, filling in the specified group name in "Group" box, then click the "Enter" button. At this time, two group names will be displayed in the "Group" box, and then click "OK" (no need to fill in the IP address), the device will search for the NDI sources of these two group names at the same time. (You are allowed to add multiple group names to search)



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When you need to search for NDI sources across network segments, if the group name is a non-public group, you need to fill in the specified group name firstly, and then fill in the specified IP address in the "IP" box, click the button (), this IP address will be added to the "Manual Scan Address List". You can add multiple IP addresses to search at the same time, and then press "OK" to save.

	Add a Source Manually		×
Group	public 🚳 kiloview 🚳		
		€	
	Manually Added Source List	<u>+</u>	
	192.168.3.128	×	
	192.168.3.126	×	
	OK Cancel		

8.2 Decoding and output

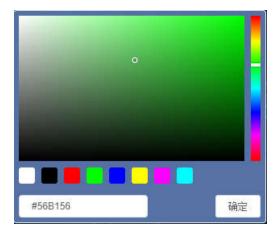
You can add up to nine preset decoding sources, by clicking the NDI sources, the device will start decoding the corresponding NDI source. It can be quickly switched and decoded by clicking different NDI sources. By clicking x in the upper right corner of the NDI source in the preset box, you can delete the added source.

		Decoding Preset	⊜ ₩
KILOVIEW_N20 (19162010042) 1 192.168.3.153	KILOVIEW_N20 (MeetRoom) 2 192.168.3.189	KILOVIEW_N20 (19162010042) 3 192.168.3.153	
			0 Blank 🖤



There is a blank output box in decoding preset, if switching to a source without video output, the device will output the set color. It can also be used for testing the output to the monitor by choosing a different color.





Click the icon is on the right to set parameters for smooth switch. To make sure the smooth switch, if it is a big video or slow transmission, a longer smooth time can be set. Otherwise it will show the blank screen set previously when output is not ready after switching.

	Smooth Switch Settings	
smooth Switch		
50ms		\sim
	OK	

The decoding output switch can also be controlled via keypad (connect with USB), and first you need to connect the keypad by USB.



Press [NumLock] on the keypad, if the light is on, you can operate the decoding switch. Press 1~9 to select the corresponding 1~9 preset decoding source, and press 0 to select blank output.



8.3 Decoding Parameters Setting

"Current decoding output" will display the information of the current decoding NDI source name, channel name, resolution/refresh rate, audio parameters, source IP address, real time bit rate and frame rate and so on.



Click on the right, you can configure the output parameters. The resolution of decoding output will be the same as that of the source. Frame rate and audio sample rate can be set accordingly.



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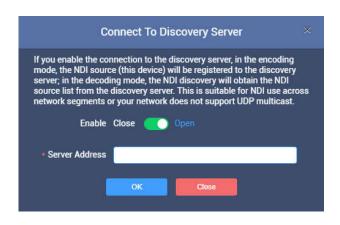
8.4 Discovery service

NDI discovery server can replace NDI auto discovery with server. All NDI sources are registered with server in a centralized way, and the receiving end obtains NDI source from the server. Through this, the device can also send the output video stream to the receiving end of the cross-network segment.

First, download and install the NDI SDK on a Windows computer at the receiving end. After installation, run bin/ utilities/x64/NDI discovery Service.exe.

D:\Program Files\NewTek\NDI 4 SDK\Bin\Utilities\x64\NewTek NDI Discovery Service.exe	-	×
NDI Discovery Service v1.00 (c)2019 NewTek, inc.		
0:00:01 [] 0 Sources, 0 Listeners.		
		J

NDI encoder configures the receiving IP address in the discovery server, and NDI will be registered with the server. It is recommended that the receiving address should be configured as a static IP address to prevent the loss of NDI connection due to IP reallocation



1) Receiving via Kiloview FULL NDI decoder

Switch the FULL NDI device to decoding mode, click "discover server", and "Enable" it.

Fill in the server address with the same registered address of the NDI encoder. Click "OK",

all NDI sources registered to the discovery server can be found by scanning the list.

If you enable the connection to the discovery server, in the end mode, the NDI source (this device) will be registered to the dis server; in the decoding mode, the NDI discovery will obtain the source list from the discovery server. This is suitable for NDI u network segments or your network does not support UDP mult Enable Close Open	
	overy NDI se across
Server Address	

2) Receiving via computer-based software

Install NDI tools on the receiving end and open "NDI access manager". Click to enter the "advanced", cancel the "multicast sending enabled" function, select "Use discovery server", and set the "Server IP" address to the IP address of your computer that enables the discovery server function. After configured, the receiving end can discover the NDI stream registered with the server.

NDI Access M	anager			– ×
Receive Groups	Remote Sources	Output Groups	Advanced	
Receive Mode	Auto			
Transmit Mode				
Multicast	Sending Enabled	π		
Multicast IP		Mask		
Vse Disco	very Server			
Server IP	192.168.3.128 🤸			
ndi.tv			ок	Cancel

Note: after this function is enabled, the mDNS auto discovery function is invalid. The stream of the decoder can only be sent to the specified server, and the receiver end must register with the same discovery server to pull the NDI stream.



9 System Settings

9.1 User Management

You can add and delete users, modify the user password and so on.

Bat	ch Deletion +		은 User list	
	User name	Alias	Create time	Operation
	admin	Admin	1970-01-01 00:00:00	A 2
				Total 1 🧹 1 🚿 10/page 🖂

9.2 Quick Reset

"Quick reset" is used to reset the coding service. It is usually applied after the parameters modifications to take effect immediately or abnormal encoding/ decoding. It takes about 3 seconds and current coding service will be interrupted.

9.3 Reboot

"Reboot" is used to restart device software, it takes about 1 minute.

9.4 Restore Factory Settings

If the device can't work properly after parameters modification (typical case is after modifying the IP address which makes network not accessible to the device), you can restore the factory settings to restore the device configuration to the default parameters.

Two Ways of Restore Factory Settings:

1) In Web page, select "System Setup">"Restore".

2) RESET Button: Press the reset button at the bottom of the device and hold the for more than 5 seconds. The device will be restored to the factory settings. Restoring the factory settings will lead to a hard reboot and the reboot process will take approximately 1 minute.

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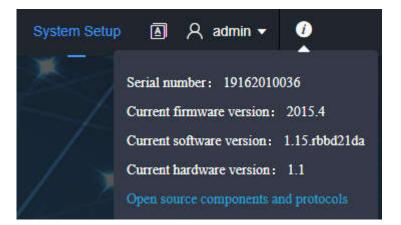
9.5 Firmware Upgrade

Our product will be constantly improved, so we will continue to upgrade the device for bug fixing. Please contact our technical support to obtain the upgrade package or download it on our website.

Click "System Setup", select "Firmware" go to the firmware upgrade interface. After uploading the firmware to the device, click "Upgrade" to start. The entire upgrade process will last for 2-3 minutes (depending on the firmware size and network conditions). The device will automatically restart, remember not to power off during the upgrade process, otherwise the upgrade may fail and the device will be abnormal. If you need help, please contact our technical support to complete the upgrade.



After upgrading, click *at the upper right corner of the WEB page to confirm whether the current software version and the latest upgrade package are the same, to make ensure the device upgrading is successful.*





Thank you for reading!

Changsha KILOVIEW Electronics CO.,LTD.

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