Quick Start Guide

NDI® Converter
4K UHD HDMI/NDI Bi-directional Converter

+2020 REV.1

NDI® is a registered trademark of NewTek, Inc.

Before you use this product, we recommend that you read the instruction manual of this product carefully. To ensure your personal safety and to protect your equipment from physical or electrical damage, please follow the instructions in this manual or use the product under the guidance of a professional. Improper connections or physical installations can cause permanent damage to the equipment and even threaten personal safety.

01 Packing list

<table>
<thead>
<tr>
<th>Name</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDI® Converter</td>
<td>PCS</td>
<td>1</td>
</tr>
<tr>
<td>TYPE-C power cable</td>
<td>PCS</td>
<td>1</td>
</tr>
<tr>
<td>TYPE-C to TYPE-A cable</td>
<td>PCS</td>
<td>1</td>
</tr>
<tr>
<td>Certificate/Warranty card</td>
<td>PCS</td>
<td>1</td>
</tr>
<tr>
<td>Power adapter</td>
<td>PCS</td>
<td>1</td>
</tr>
<tr>
<td>Hot shoe</td>
<td>PCS</td>
<td>1</td>
</tr>
<tr>
<td>Quick start guide</td>
<td>PCS</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: The items in the packing list may be different due to product upgrade.

02 Device Interface Description

- TYPE-C extension port
- Tally
- Working indicator
- 100M Ethernet (PoE)
- HDMI input
- HDMI output
- Audio port
- TYPE-C power port
- Small Tally light

03 Device Installation and Connection

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

Note: The output interface can be loop for encoding of output list decoding but cannot be used at the same time.

Connect network
Connect the network cable to the Ethernet port 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.

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

Connect power supply
After connected with the power adapter (DC 5V), the power light will be on and the device starts working.

Note: When network switch provides PoE, there is no need to connect to the power supply.

04 LED Indicator

- Power on
  After connected with the power adapter, the device starts to boot. Power light is always on till the device working. It lasts about 30-40s.

- POWER/LINK/RUN light

05 Device Management

Device default IP address
The default IP of the device is 192.168.1.168 and the subnet mask is 255.255.255.0. This IP address is the FatSafe address. Normally you don't need to modify this IP address.

Login the WEB Console
First set your PC's IP addresses to 192.168.1.245 subnet, and then login using the default IP address. You can access http://192.168.1.168 to login the web console.

Login username: admin, Password: admin

Note: For the first login or after restoring the factory settings, you need to agree to the popping-up "End User License Agreement". Otherwise, the device cannot work normally.

IP address configuration
After login, you can configure the IP address according to the network. It can be manually set or DHCP dynamic (Default set as DHCP dynamic).
06 NDI Encoding

It is a Full NDI encoding transmission device, supporting up to 4K@60 input. When video resolution is 4K@60, the bitrate can be up to 210Mbps. When video resolution is 1080P@60, the bitrate can be up to 120Mbps. Therefore, the device and the receiving port should be connected to gigabit network.

Status Column

Here it will display the resolution, frame rate, bitrate and audio format parameters of the video source.

Coding Quality Settings

The encoding resolution is the resolution that output from the video source, which cannot be configured for scaled encoding. Encoding bitrate can be appropriately lowered or increased by adjusting encoding quality. The default encoding quality is 100%.

Encoder channel settings

When there are multi NDI sources in the same network, channel names need to be modified to identify different devices because the default channel names are the same.

Advanced settings

In advanced settings, you can set the connection mode of NDI stream, which can be unicast or multicast. Here you can also set the PTZ control function.

07 NDI Connection

Compatible Softwares:

OS: macOS, Windows, Linux

NDI Studio Monitor, OBS Studio, vMix, Streamstar, NewTek NDI

It's compatible with NewTek's NDI. NDI stream service is enabled by default. When the device is in the same subnet with NewTek Studio Monitor software or other NDI compatible software that supports NDI protocol, the device can be automatically discovered. Select the corresponding device and channel, then you can play the NDI video stream.

08 NDI Decoding

Discover NDI sources in the network

NDI sources can be detected automatically and will be listed at the same subnet. You can remove the NDI sources by clicking the corresponding button.

Add target NDI source

Click to add the source to the decoding presentation.

Switch output NDI source

You can add up to 8 NDI sources in the decoding preset and click the corresponding source to decode. Decoding output can be quickly switched by clicking different NDI sources.

09 Restore Factory Settings

Restore Factory Settings

If the parameters are changed that lead the converter couldn't work (The typical situation is when the network address was changed), you could reset the device to default value.

Two methods for restoring factory settings:

1. Click "System Settings->Restore factory settings" on the web console.
2. Press "Reset" button at the bottom of the device

There is a reset button at the bottom of the device, hold the button for more than 5 seconds, the device will reset to factory settings. Restoring factory settings will lead to the restarting of the device. The restarting process takes about 30s.

Note:

These parameters will be restored to default value after restoring factory setting:
- Login username and password will be "admin".
- IP address will be restored as 192.168.1.168, subnet mask will be 255.255.255.0.
- All encoding and decoding parameters of video and audio will be restored to default value.
- Media transmission parameters will be restored as default value.

10 Firmware Upgrading

Firmware upgrading

The device supports online firmware upgrading to upgrade software. Click "System Settings->Firmware Upgrade" on the web management interface for upgrading. Click "Select a file" to upload the firmware file to upgrade the device.

Note:

This NDI Converter cannot conduct encoding and decoding at the same time, encoding will stop if you enable the decoding function.

11 Quick Reset and Reboot

Quick Reset and Reboot

"Quick Reset" function is to reset encoding and decoding service, normally it's used for changing parameters to affect immediately. Quick Reset process lasts around 3s.

"Reboot" function is used for encoder reboot. Device rebooting lasts around 20s.

Note:

Select "Quick Reset", current encoding and decoding service will be suspended for a while.
Select "Reboot", the encoder will "warm reboot". Under some circumstances, reboot might be realized with the help of cold restart, that is by turning off/on the power.