Quick Start Guide

NDI® Converter
HD 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 electrical 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
- 1000M Ethernet (PoE)
- HDMI input
- HDMI output
- Audio port
- TYPE-C power port

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 port is connected to the display device via a HDMI cable.

Note: The output interface can be loop for encoding or output for 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:
  - LED indicator:
    - Color: White
      - Status: Flashing
        - Description: Network connection abnormal or under trouble with a factory settings. [RUN light will be flashing as well] No network abnormal or disconnected
    - Color: White
      - Status: Off
        - Description: Device works properly
    - Color: White
      - Status: Off
        - Description: The device is abnormal or not started

05 Device Management

Device default IP address
The default IP address is 192.168.1.168 and the subnet mask is 255.255.255.0.
This IP address is the Passback address.
Normally you don’t need to modify this IP address.

Login the WEB Console
First set your PC’s IP address to 192.168.1.245 subnet, and then log in 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 1080P60 input. When video resolution is 1080P60, the bitrate can be up to 125Mbps. Therefore, the device and the receiving port should be connected to a gigabit network.

**Status Column**

Here it will display the resolution, frame rate, bit rate 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.

**Note:**
There is no need to save the parameters after modified, since the modification will take effect immediately if click other locations of the page.

**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.

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**07. NDI Connection**

Compatible Softwares:

- OBS Studio
- XSplit
- vMix
- Streamstar
- NewTek NDI
- Other third-party NDI-related software

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

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**08. NDI Decoding**

**Discover NDI sources in the network**

NDI sources can be detected automatically and will be listed at the same subnet, and you can remove the NDI sources by click.

**Add target NDI source**

Click to add the source to the decoding preset assumptions.

**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.

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**09. Restore Factory Settings**

**Restore Factory Settings**

If the parameters are changed that lead the converter couldn’t work (the typical situation is that the network address was changed, so it couldn’t visit the device by network), users could restore factory setting 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 restore 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.

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**10. Firmware Upgrading**

**Firmware upgrading**

The device supports online firmware upgrading to upgrade software. Click “System Settings>Firmware Upgrade” on 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.

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**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 about 3s.

“Reboot” function is used for encoder reboot. Device reboots 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 without the help of cool restart, that is, by turning off the power.