Quick Start Guide

NDI® Converter
12G-SDI/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-C 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>
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</tr>
<tr>
<td>Quick start guide</td>
<td>PCS</td>
<td>1</td>
</tr>
</tbody>
</table>

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

02 Device Interface Description

1. TYPE-C expansion port
2. Tally
3. Working indicator
4. TYPE-C power port
5. 10GBaseT Ethernet (PoE)
6. SDI input
7. SDI output
8. Small Tally light

03 Device Installation and Connection

1) Installation

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

Note: The output interface can be loop for encoding or output for decoding, but it cannot be used at the same time.

2) Check LED status light

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.

LED indicator:

- **Power**: Flashing OFF, No power supplied or power failure
- **Network**: Slow flashing OFF, Network abnormal or disconnected
- **Operational**: Flashing OFF, Device works properly
- **Error**: Flashing ON, The device is abnormal or not started

If the indicator light is abnormal, please check the corresponding power supply / network / equipment hardware, etc.

3) Log in to the device management interface

Device default IP address

The default IP of the device is 192.168.1.168 and the subnet mask is 255.255.255.0.
The IP address is the Paliade address.

Normally you don’t need to modify this IP address.

Login the WEB Page

First set your PC’s IP address to 192.168.1.24 / 19, and then log in using the default IP address.
You can access http://192.168.1.168 to login the web page.

Login username: Admin  Password: Admin

Note: For the first login or after restoring the factory settings, you need to agree to the pop-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 (Default set is DHCP dynamic).
4) NDI Encoding

It is a full NDI encoding transmission device, up to 12G-SDI input. When video resolution is 4Kx2K, the bitrate can be up to 250Mbps. Therefore, the device and the receiving port should be connected to the same 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 outputs 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 multiple NDI sources in the same network, channel names need to be modified to identify different devices because the default channel names are the same.

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.

5) NDI Connection

Compatible Softwares:

Other ways for NDI streaming encoding or decoding software

It is compatible with NewTek NDI. NDI streaming service is enabled by default. When the device is in the same subnet with NewTek Studio Monitor software or NDI encoder, the devices can be automatically discovered. Select the corresponding device and channel, then you can play the NDI video stream.

6) 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 renew the NDI sources by clicking on Add target NDI source.

Click on Switch output NDI source

You can add up to 9 NDI sources in the decoding preset and click the corresponding source to decode. Decoding output can be quickly switched by clicking different NDI sources.

Decoding Parameter Settings

Some information such as resolution, audio parameters, IP address and left rate of the decoding source will be displayed in "Current Decoding" zone. Please enter into Web page and set the decoding resolution & frame rate by clicking on .

Note:

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

04 Restore Factory Settings

If the parameters are changed that lead the converter couldn’t work (like 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:

- Click "System Settings" -> "Restore factory settings" on the web console.
- 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 restart 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 to 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.

05 Firmware Upgrading

This device supports online firmware upgrading to 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:

After uploading firmware file successfully, the device will automatically restart, this process will take about 30s-60s (the time will be different according to upgrade content), and please be patient. After the upgrade is complete, please click on to check whether the latest version information is as expected to confirm if the upgrade is succeeded.

06 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 30s.

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 reset, that is by turning off/on the power.