Quick Start Guide

SDI/HDMI

NDI Video Encoder

2019 REV. 1

Thank you for purchasing NDI video encoder. Before installing the product, please read this user manual carefully. Please strictly follow our manual to install and use our encoder, or install and use under guiding by professional person, to protect your body safety and to avoid the encoder damage from physical and electrical. The encoder may be damaged if incorrect electrical connection or the physical installation, even threaten the operator safety.

Packing list

01

02

03

04

05

06

There will be some difference because of the updating of the device.

About fan:

1. While the device is powered on, the fan will start working when reaches a certain temperature.
2. While the device is powered off, the fan is working while charging.

About built-in battery:

1. While the device is powered on, connected with the power adapter, the device is powered by the adapter. The battery is not charging.
2. While the device is powered off, connected with the power adapter, the battery will be charging.

Device interfaces

SDI/HDMI input

Streaminig indicator

Battery/Charging indicator

Power indicator

Antenna gain light

Micro SD/TF card

Note: and are only for customized functions

Device installation and connection

Connecting video signal

Connect the SDI/HDMI signal from the source (such as a camera) to the SDI/HDMI input port of the device via a cable.

Connect Network

Plug the USB transfer network port (RJ45) cable into the USB port, and connect the network port to the switch. You can also connect directly to the computer network.

Connect the Power supply

Use the standard power adapter (DC 12v) connected to the power input. After the power is turned on, the device will charge the built-in battery. Press the power switch on the device for more than 3s, and the device will start working immediately.

USB Tally

This unit supports Tally indication from any NDI switching device by connecting the external Tally device that comes in the package with the USB port of the encoder.

Login the WEB Console

If login for the first time, please use Failsafe IP address. You can access http://192.168.1.168, to login the web console.

Default IP address and web login

The Failsafe IP address is 192.168.1.168 with subnet mask 255.255.255.0. Normally, you don't need to modify this IP address.

IP address configuration

After login, you can configure the IP according to the network, the IP will be used for pushing and device management. You can configure it to manually set the IP or DHCP. (Default set is DHCP)

About built-in battery:

1. While the device is powered on, the fan will start working when reaches a certain temperature.
2. While the device is powered off, the fan is working while charging.

About fan:

1. While the device is powered on, the fan will start working when reaches a certain temperature.
2. While the device is powered off, the fan is working while charging.

About built-in battery:

1. While the device is powered on, connected with the power adapter, the device is powered by the adapter. The battery is not charging.
2. While the device is powered off, connected with the power adapter, the battery will be charging.

Note: There will be some difference because of the updating of the device.

Device login and network configuration

Login the WEB Console

If login for the first time, please use Failsafe IP address. You can access http://192.168.1.168, to login the web console.

Default IP address and web login

The Failsafe IP address is 192.168.1.168 with subnet mask 255.255.255.0. Normally, you don't need to modify this IP address.

IP address configuration

After login, you can configure the IP according to the network, the IP will be used for pushing and device management. You can configure it to manually set the IP or DHCP. (Default set is DHCP)

LED indicator

Long press the switch for more than 3s, the device is turned on, the power light flashes, and the power light is always on. After the device starts up normally, the power light is always on, and the process lasts for 30-40s.

Indicator Status

<table>
<thead>
<tr>
<th>Name</th>
<th>Color</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>OK</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Power off</td>
</tr>
<tr>
<td>SDI/HDMI indicator</td>
<td>White</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>SDI/HDMI indicator</td>
<td>White</td>
<td>SDI/HDMI</td>
<td>SDI/HDMI signal locked SDI/HDMI nil signal</td>
</tr>
<tr>
<td>Battery indicator</td>
<td>White</td>
<td>Charging status (flicking)</td>
<td>Charging Normal work Shut down</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Tally indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Tally indicator</td>
<td>Red</td>
<td>Extinguished</td>
<td>Normal work Connecting Stop pushing</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
<tr>
<td>Power indicator</td>
<td>Red</td>
<td>Always on</td>
<td>Extinguished</td>
</tr>
</tbody>
</table>

Note: This product is divided into SDI or HDMI interface. Please configure based on what you purchased.

Kindly note: This is only Quick Start Guide. If there are any questions, please contact the supplier or visit website for more details.

This product is divided into SDI or HDMI interface. Please configure based on what you purchased.

Kindly note: This is only Quick Start Guide. If there are any questions, please contact the supplier or visit website for more details.
Connect wifi

1. Click the "Network and Service Settings" menu on the web interface to enter the "Network Interface Management" interface.
2. Select WiFi interface in the WiFi group and click "Configure" button to enter the WiFi parameter configuration interface.
3. Select hotspot to connect from the scanned hotspot list, click "Connect". if in necessary, set password option on the interface shown on the right.

NDI|HX driver installation


NewTek NDI® Tools

Windows

NDI Tools for Windows
NDI Studio Monitor
NDI Room Creator
NDI Vu Speed
NDI Vu C Panel
NDI for Adobe Creative Cloud
NDI Access Manager
NDI Test Pattern
NDI HX Driver

Note:
Encoder temporarily does not support RTSP pull. When NDI is connected, the default RTSP channel of the main stream of the encoder is encrypted, and the direct pull-out will be displayed as a mosaic state. A NDI|HX driver is required to install before streaming. When there are several NDI encoders in the same network, as default Channel is the same, clients needs to set different Channels for different devices.

RTMP discovery and connection

It is compatible with NewTek NDI®. When the device is in the same network as the Studio Monitor software (others like OBS, vMix, etc.), the device can be automatically discovered.

NewTek NDI® Tools

Windows

NDI Studio Monitor
NDI Room Creator
NDI Vu Speed
NDI Vu C Panel
NDI for Adobe Creative Cloud
NDI Access Manager
NDI Test Pattern
NDI HX Driver

Note:
Encoder temporarily does not support RTSP pull. When NDI is connected, the default RTSP channel of the main stream of the encoder is encrypted, and the direct pull-out will be displayed as a mosaic state. A NDI|HX driver is required to install before streaming. When there are several NDI encoders in the same network, as default Channel is the same, clients needs to set different Channels for different devices.

RTMP Live Streaming

Our device's H.264 main/sub stream supports adding up to 8 same or different streaming media service. To meet your needs of adding same/different stream media protocols for multi-goal pushing. On the management interface of "Encodings & Stream" menu on the web console, click"Configure" button to fill in the corresponding parameters in the encoder.

Note:
Note:
In the case of rtmps push mode, fill in rtmps URL at Push point and set Use old RTMP version to yes, so that it can be supported.

Restore factory settings

If users change parameters that lead encoder couldn't work(The typical situation is changed network address, so it couldn't be visited encoder by NDI|HX driver installation)

Two methods for restoring factory settings:
① Hold the 'Reset' button more than 5 seconds, restoring factory setting will lead to the device reboot, and restarting course will last about 20s.
② Choose"Basic Settings>Restore factory settings"on the web console.

Quick reset and reboot

"Quick Reset" function is to reset encoding service, normally used for making changed parameters to effect immediately. The whole process lasts around 3s.

Note:
Select 'Quick Reset', current encoding will be suspended for a while; Select 'Reboot', the encoder will "warm" reboot. Under some circumstances, reboot maybe with the help of "cold" reboot power down then power up the device.

Firmware upgrading

This device supports online firmware upgrading for software. Select "Basic Settings", pull downward and click "Update firmware". On the page, click "Browse" to select the upgrading file, and click "Upgrade" to upgrade the device.

Note:
Note:
After uploading firmware file successfully, the encoder 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, via the web interface "system information>version information" to check whether the latest version information in accordance with expected and confirm the upgrade succeeded.