

# Quick Start Guide

**SDI/HDMI**  
1U 1 CH/4 CH video encoder

**+2019**  
**REV. 1**

• Thank you for purchasing 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.



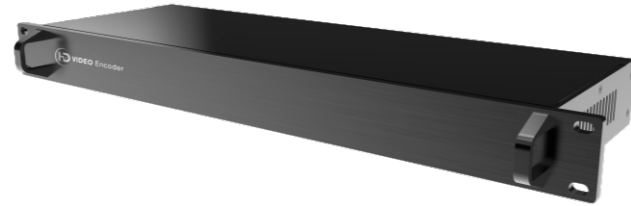
This product is divided in to SDI or HDMI interface, 1U signal channel or multi channel. Please configure based on what you purchased.

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

## 01 Packing List

### Packing List

Encoder\*1, AC 220V Adaptor\*1, Manual\*1, Warranty card\*1



### NOTE:

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

## 02 Device Interface

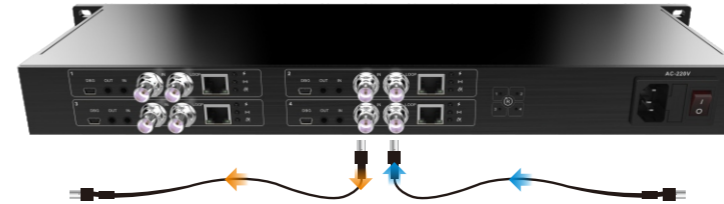


- 1 Usb Interface
- 2 Audio Output
- 3 Audio Input
- 4 5 SDI/ HDMI Input and Loop Interfaces
- 6 10/100m Ethernet Port
- 7 Status Leds
- 8 Reset
- 9 Power Interface
- 10 Power Switch

## 03 Device installation and Connection

### Connecting video signal

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



### Connect audio signal

Through 3.5mm analog, it can be accessed analog audio signal. (For encoding usage, refer to analog audio output for extensible function).



### Connect network

Connect one end of the network cable to the encoder Ethernet port. The other end is connected to the network switch or the computer's Ethernet port.



### Connect the power adapter

Using the power adapter (AC 220v) connect to the main product, after the power is turned on, then the product starts working immediately.



## 04 LED indicator descriptions

After power-on, ⚡ always on, (⊞) ⚡ off.  
After the device starts up normally, the power light is always on, and the process lasts for 10-15s.

### RUN/SIGNAL/POWER

|   | Color | Status    | Description                        |
|---|-------|-----------|------------------------------------|
| ⚡ |       | Always on | Power supply is connected          |
|   | Red   | Flashing  | Device failure                     |
|   |       | Off       | Power supply is not connected      |
| ⊞ | Green | Always on | SDI/HDMI signal is connected       |
|   |       | Flashing  | restore device to factory settings |
|   |       | Off       | SDI/HDMI signal is not connected   |
| ⚡ | Green | Flashing  | Working                            |
|   |       | Off       | Not working                        |
|   |       | Always on | The device is starting             |

## 05 Video/ Audio source

### Video/ Audio source

| Signal Source | Option | Description                     |
|---------------|--------|---------------------------------|
| Video source  | Auto   | SDI/HDMI Input                  |
| Audio source  | Auto   | SDI/HDMI embedded digital audio |

### NOTE:

Select the sub-functions "Video Source Selection and Adjustment" and "Audio Source and Volume Adjustment" of the "Video/Audio Adjustment" function on the web management interface to configure the video and audio source selection.

## 06 Device login and network configuration

### 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.

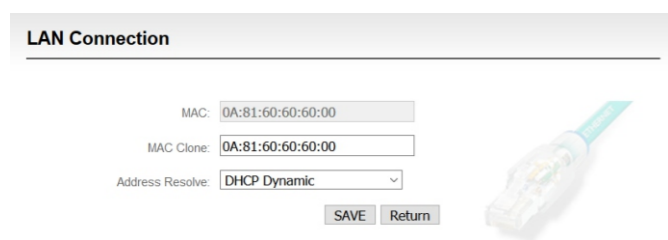
### Login the WEB Console

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

Login username **admin** password **admin**

### IP address configuration

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



## 07 Coding and pushing

Encoder supports H.264 encoding, support a variety of push-flow methods, such as RTP, RTMP, RTMPS, UDP, HLS, etc. The RTSP services is always enable for the device, all tools which support the standard RTSP protocol and H.264 decoding (such as VLC media player) can be connected to the encoder and get video streams.

### The default RTSP accessing URL is:

Main: <rtsp://encoder IP address:554/ch01>  
SUB: <rtsp://encoder IP address:554/sub01>

Note: "ch01", "sub01" is the RTSP session ID. You can change the session ID in the Web console.

The following is an example of RTMP to introduce the configuration of push flow. Other push flow methods can be login to the device page for detailed configuration.

## 08 RTMP Live Streaming

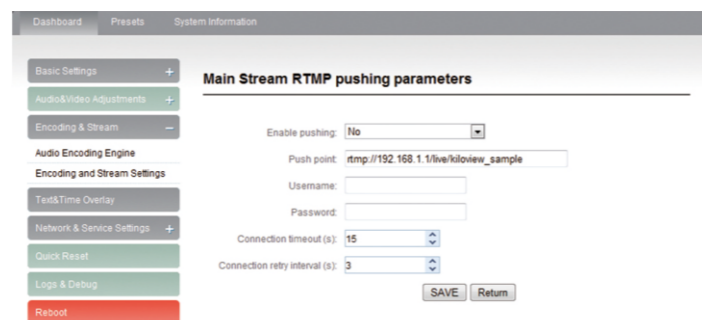
### Add streaming service

Our device's H.264 main/sub stream supports adding up to 8 same or different streaming media service, to meet your needs of adopting same/different stream media protocols for multi-goal pushing.

On the management interface of "Encoding&Stream-Encoding and Stream Settings", for main/sub stream to choose "add one stream service", users can add the needed service type.

### Add RTMP pushing streaming service

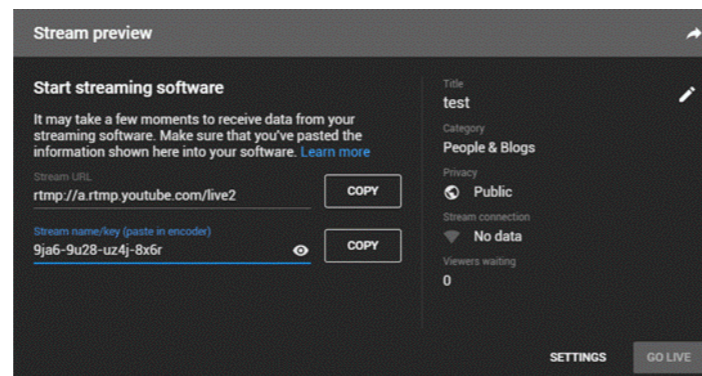
Currently main video live streaming platforms require "RTMP" service. After adding RTMP pushing service, click set icon to configure RTMP parameters.



### Take YouTube for an example

"Streaming point" is RTMP address given by platform (Take YouTube as an example). (Other platforms are similar, if questions please contact platform technical support for help).

RTMP push-flow must first get a push-flow URL address from the platform. Login to YouTube, got below address:



Streaming point should be like Server URL+Stream name/key, for example: <rtmp://a.rtmp.youtube.com/live2/9ja6-9u28-uz4j-8x6r>

After you get the RTMP URL address, you need to set it up in the encoder. If the platform requires user name and password verification, you also need to fill in the corresponding parameters in the encoder.

### 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.

## 09 Restore factory settings

### Restore factory settings

If users change parameters that lead encoder couldn't work (typical situation is to change network address, so that it couldn't be visited encoder by network.), users could restore factory setting to default value.

### Two methods for restoring factory settings:

- ① Via the WEB interface, "Basic Setup > restore factory settings" function;
- ② Through RESET button:

On the dashboard, there is button of Pressing on RESET button for 5 seconds, device will restore factory settings. Restoring factory setting will lead to the device hard restart, restarting course will last 1 minute.

### NOTE:

After restoring factory setting, below parameters will be turned to default value:

- Login password will be as admin;
- IP address will be restored as **192.168.1.168**, subnet mask will be **255.255.255.0**;
- All encoding parameters of video and audio will be restored to factory default value;
- Media transmission parameters will be restored as factory default value.

## 10 Firmware upgrading

The encoder supports online firmware upgrading. Through the "Basic Settings-Firmware Upgrade" of the web management interface, you can upload the firmware online.

### Upgrading diagram



### NOTE:

1: The device will restart automatically after upgraded, and recover to the default settings. User can upgrade the software version of device. Click "Browse" to select the upgrade file, and click to upgrade the device. The upgrade process is slow, around 30s to 1second, please be patient.

2: After finish upgrading, check whether the version information of the latest firmware is consistent with the expected status through the System Status-Software Version of the web interface.

## 11 Quick Reset and reboot

### Quick reset and reboot

"Quick Reset" is quickly reset the video encoding function of encoder. When the video signal instability or improper parameter setting cause the encoder does not work, try to set the device quickly reset. The quickly reset probably need to wait 3 seconds or so.

"Reboot" is for encoder performs a warm reboot, when the encoder still does not work after quick reset, please try to reboot the device. Device rebooting lasts around 20s.

### NOTE:

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