

# **H.265&H.264 4CH/4K30hz HDMI Video Encoder User Manual**

## **Model:**

- ZY-EH1304

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## 1) Overview

### 1.1 product description

The 4-channel HDMI high-definition encoder is a professional high-definition audio and video encoding product that only requires a small bandwidth to obtain high-definition video signals. This product adopts H.265/H.264/MJPEG encoding format, which can simultaneously encode video and audio. Each channel supports dual stream output, and the output stream resolution of each channel can be set according to different needs, with a maximum support of 2 channels simultaneously 4K@30HZ +2-way 1080P@60HZ Encoder. This device has the advantages of high integration and low cost, and can be widely used in various digital TV broadcasting systems.

### 1.2 product picture

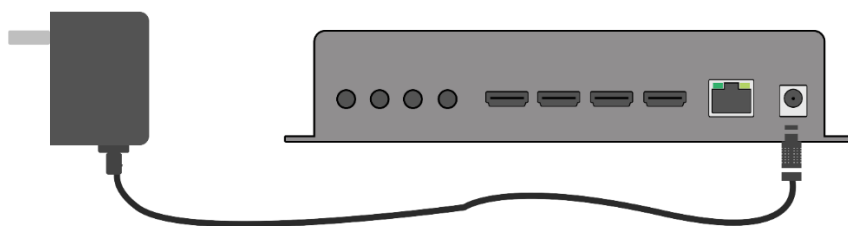


▲ZY-EH1304

## 2) Initial installation connection

### 2.1 Connect power

Use the standard power adaptor (DC12V/1A) connected to the device. The power light will be always on after the device is powered on.

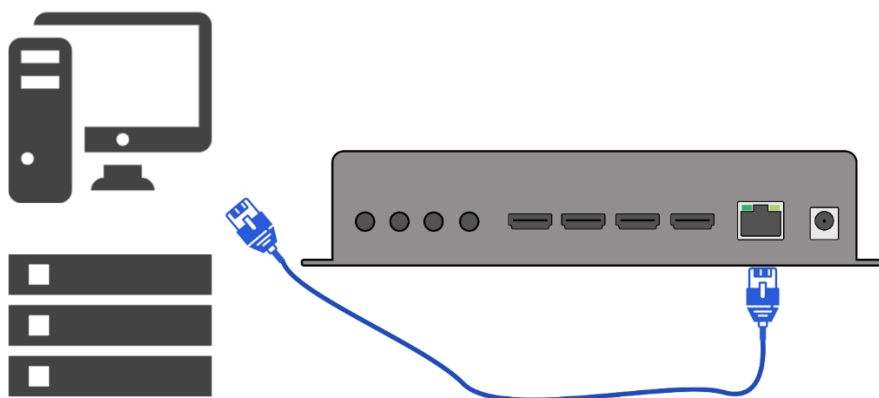


#### Note

Please use the standard power adaptor provided. Using other unqualified power supplies may damage the device.

### 2.2 Connect the encoder to user's computer directly

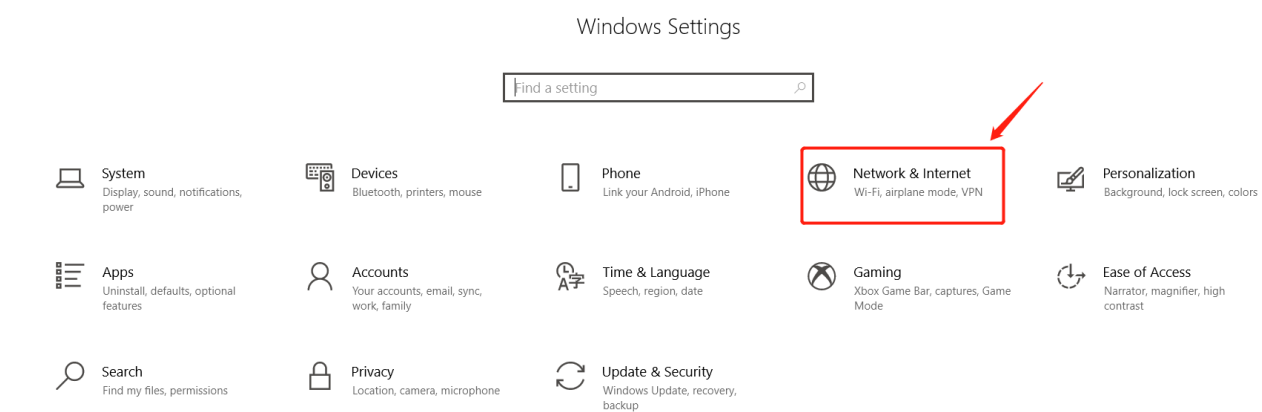
▼ Connect the encoder and the computer directly through the network cable.



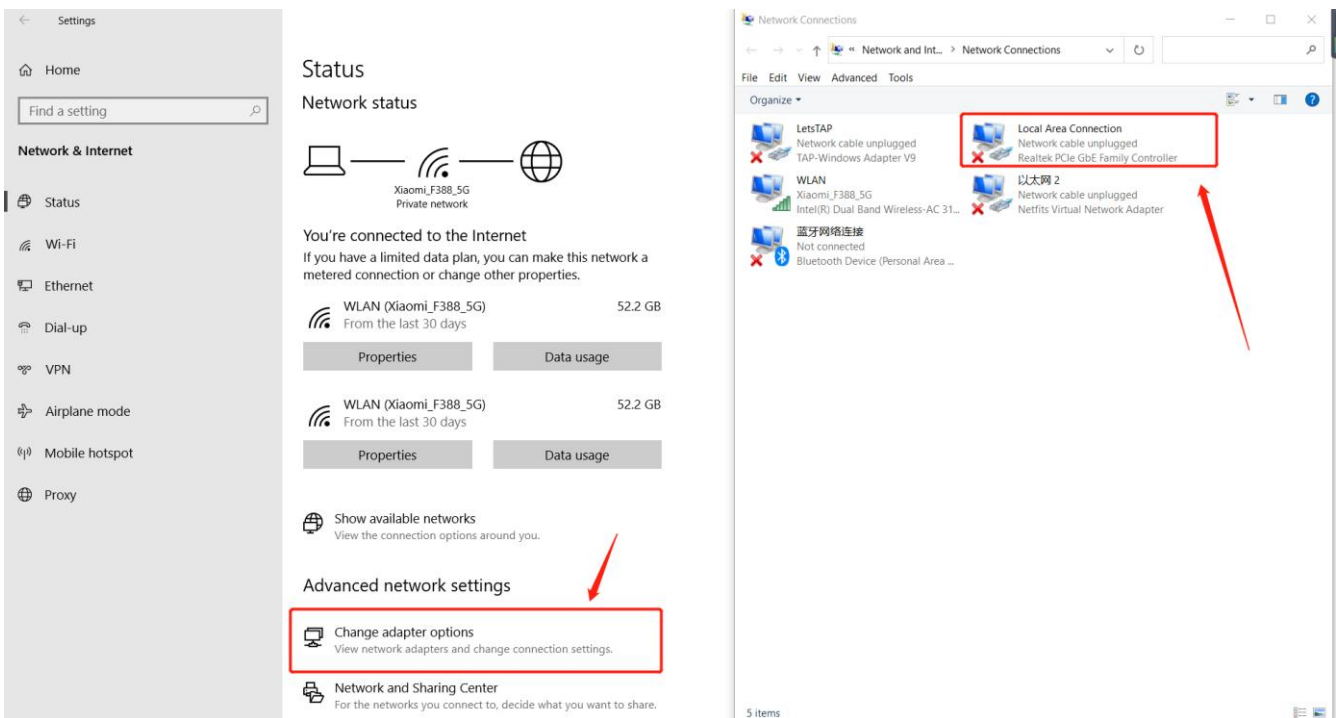
### 2.3 Log in the control web with 192.168.0.31

According to the above steps, after connecting the encoder to the computer with a network cable.

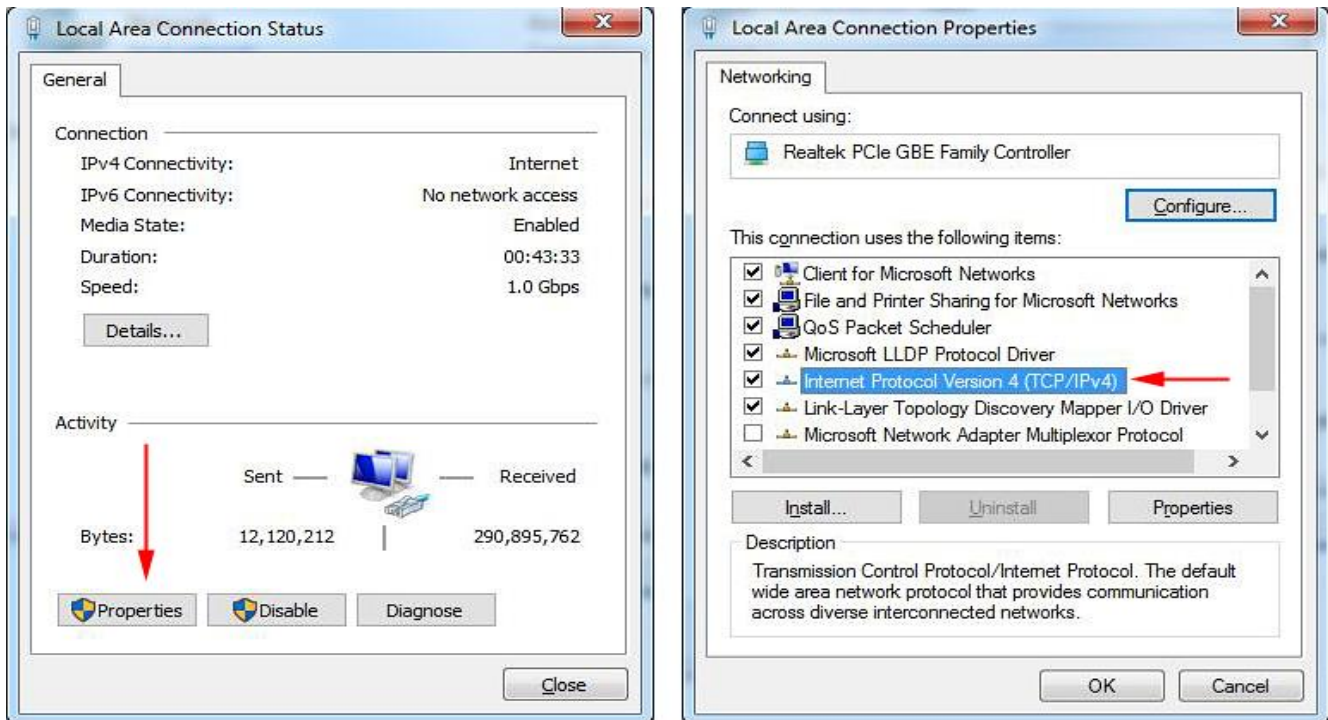
#### ▼ Setp1: find the "Network & Internet Settings"



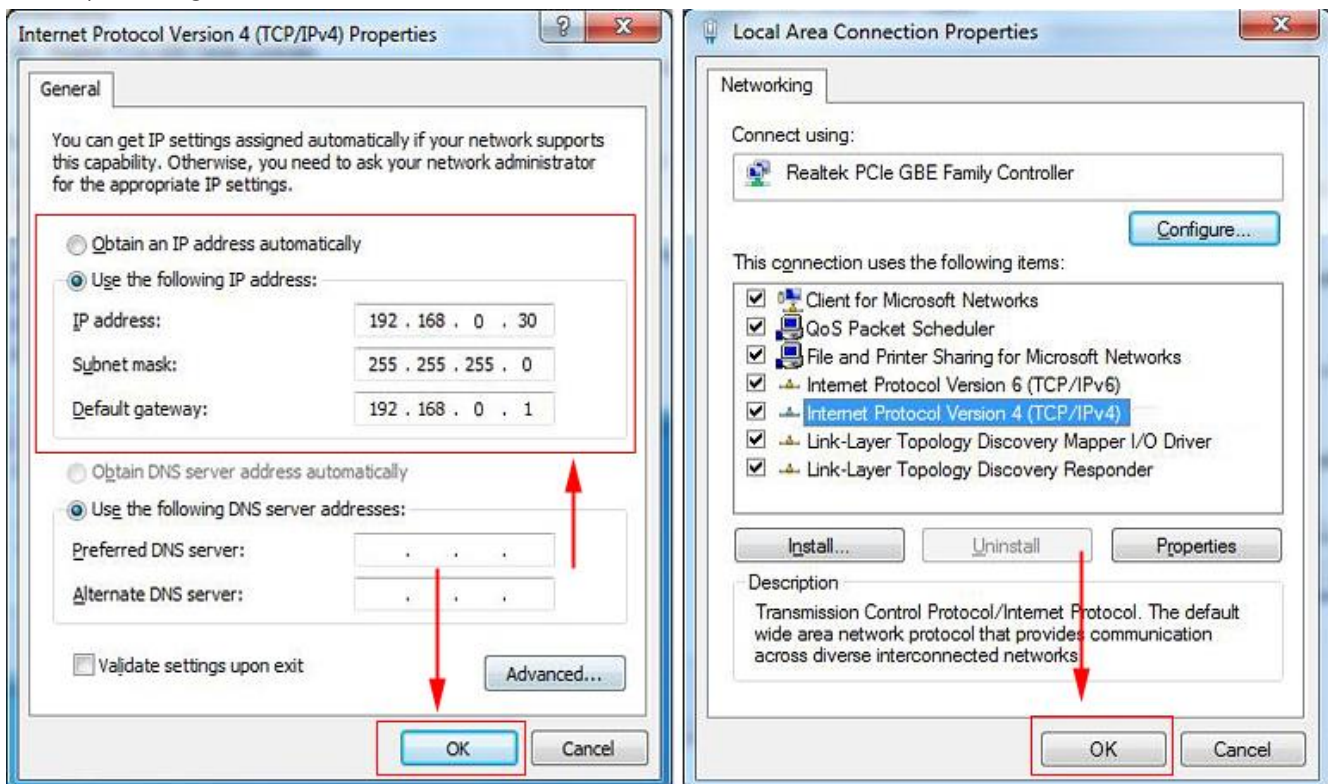
#### ▼ Step2: "change adapter options"——"Local Area Connection"



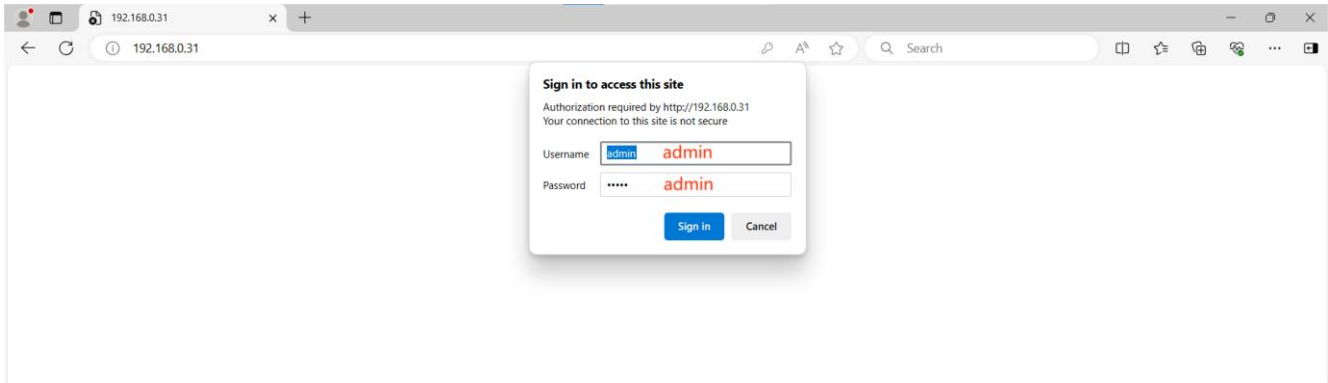
▼ Step3: "Properties"—"Internet Protocol Version (TCP/IPv4)"



▼ Step4: change the IP to 192.168.0.XXX—— "OK"



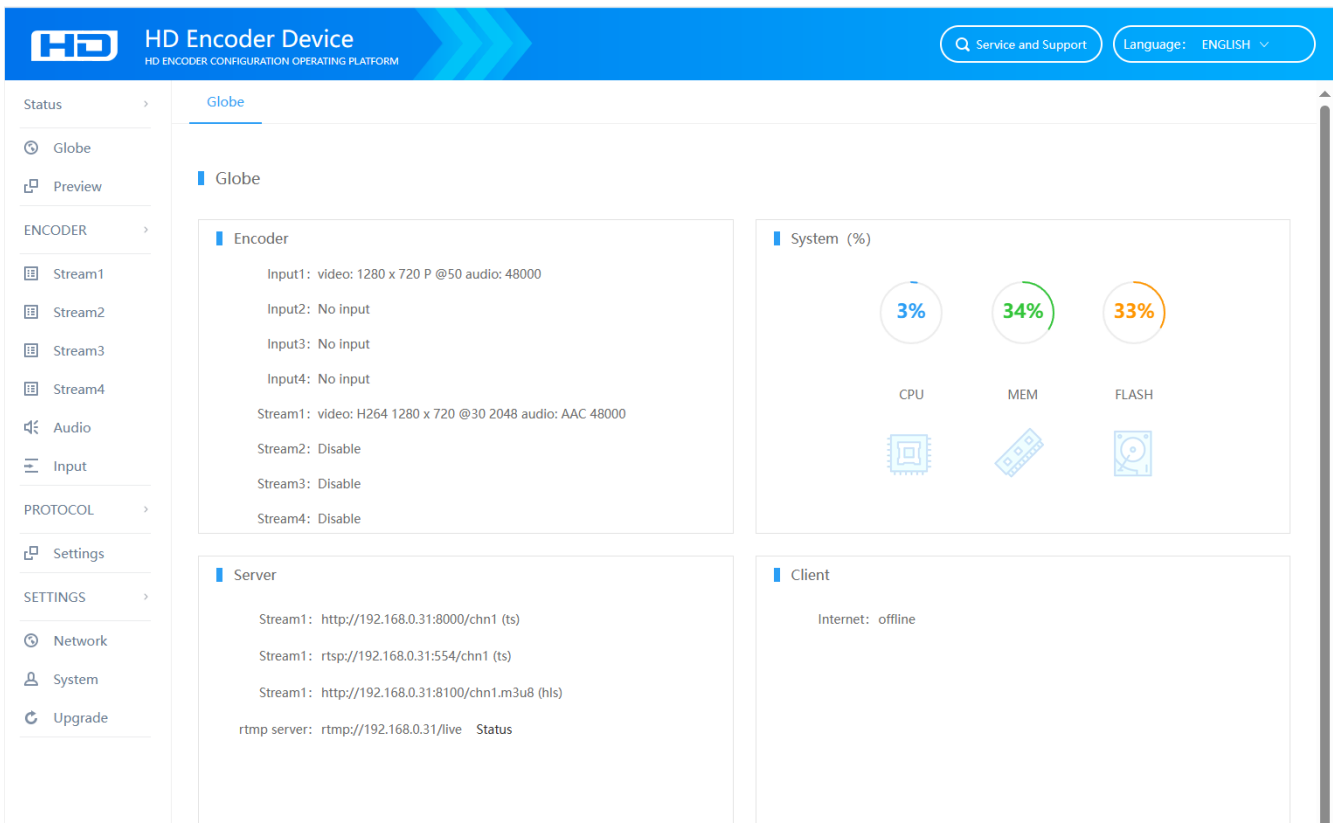
▼ Step5: Open the WEB browser, and enter the IP address of the decoder directly (the default is 192.168.0.31) to open the login interface of the decoder. The default username and password of the decoder is admin/admin and then click "Login".



### 3) Introduction to the control page of the encoder

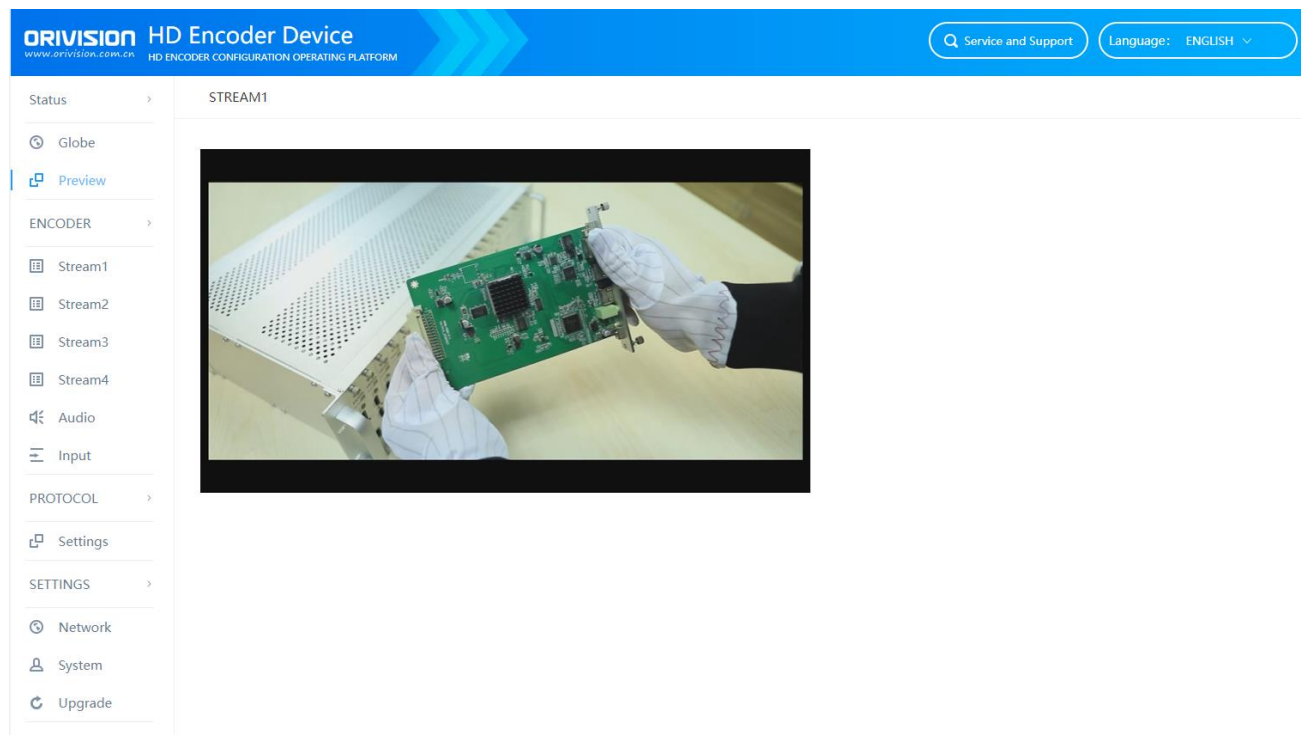
#### 3.1 Status

▼ Status: Showing the status information of input and output.





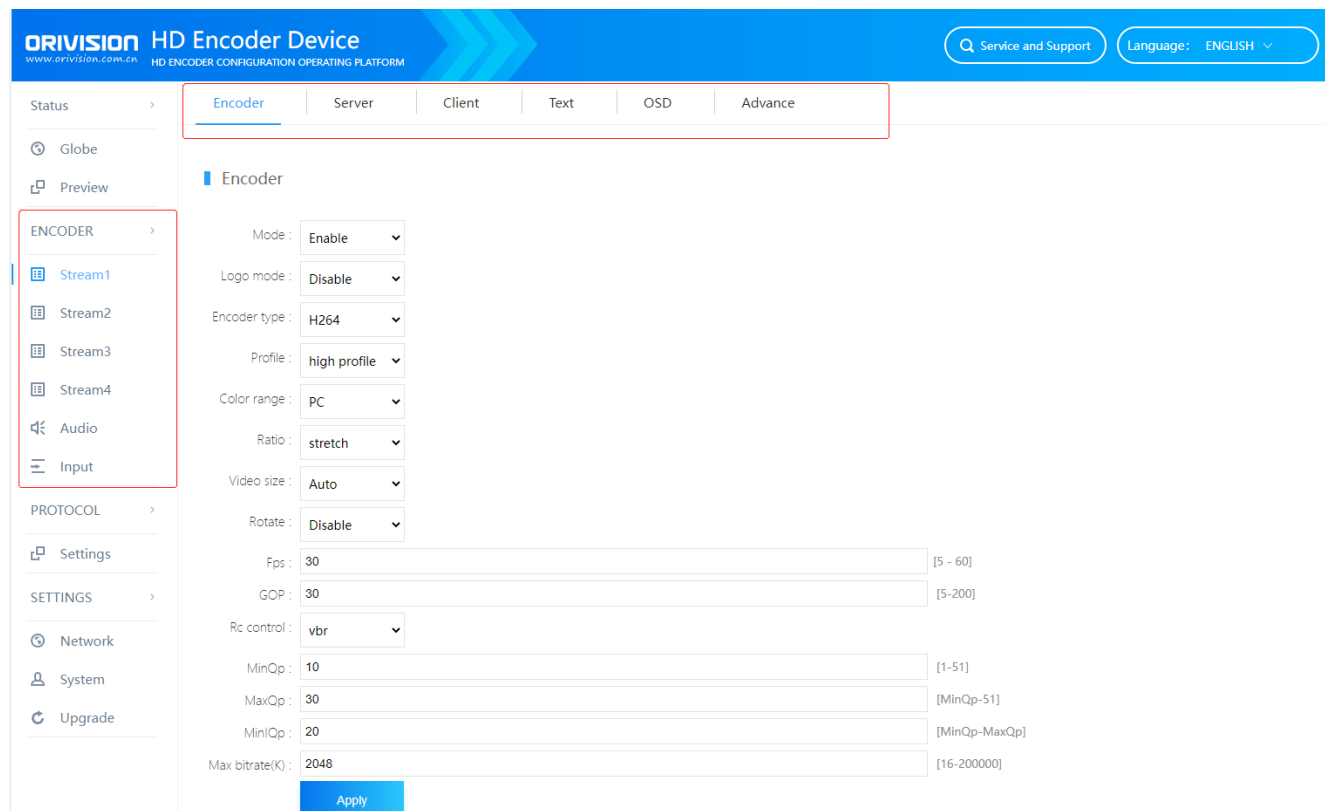
▼ Users can preview the input video through this page. If there is a delay it is normal, because of network factors



## 3.2 ENCODER Settings

### 3.2.1 Streams setting

▼ The left-hand column shows the settings for the 4 stream outputs and audio, as well as the setting functions for the input signals



**Mode:** Disable | Enable | Video only | Audio only

“Enable” is the default encoding for video and audio

“Video only” is for video-only encoding

“Audio only” is for audio-only encoding

**Encoder type:** H264/H265/MJPEG

**Profile:** baseline profile / main profile / high profile ( Note: H.265 version choose main profile)

**Color range:** PC/TV

**Ratio:** stretch/no change

**Video size for Stream1&Stream2&Stream3&Stream4:**

480\*270/640\*360/640\*480/704\*576/720\*404/720\*480/720\*540/720\*576/800\*600/850\*480/960\*540/1024\*576/1024\*768/1280\*768/1280\*800/1280\*720/1920\*1080/Auto

**Rotate:** Disable/90/180/270

**Fps for Stream1&Stream2&Stream3&Stream4:** 5-60 (Note: when the input resolution is 720i/50,1080i/50, the frame rate will choose 25)

**Gop:** 5-200, it shows picture quality, default setting is advisable.

**Rate control:** VBR / CBR

**MinQp:** 1-51

**MaxQp:** MinQp-51

**MinIQp:** [MinQp-MaxQp]

**Max bitrate(K):** [16-200000]

**Logo mode:** Disable | No input | Always

This function can be enabled when the user needs to display a specified image on the decoder side

When “No input” is selected, the decoder or VLC player output will display the image uploaded by the user when there is no signal input from the encoder.

When “Always” is selected, the decoder or VLC player output will display the user uploaded image regardless of whether there is a signal input or not.

The screenshot displays the ORIVISION HD Encoder Device web interface. The top header is blue with the ORIVISION logo and the text 'HD Encoder Device' and 'HD ENCODER CONFIGURATION OPERATING PLATFORM'. On the right of the header are buttons for 'Service and Support' and 'Language: ENGLISH'. A left sidebar contains a menu with categories: Status, ENCODER, and SETTINGS. Under ENCODER are Stream1, Stream2, Stream3, and Stream4. Under SETTINGS are Network and System. The main content area shows the 'LOGO' configuration page, which is highlighted by a red arrow. The 'LOGO' page has a 'Logo information' field set to '1024 x 768' and a 'New logo file' section with a 'Choose file' button and an 'Upload' button. Another red arrow points to the 'Upgrade' button in the bottom left of the sidebar.



### 3.2.2 Server Setting (HTTP/RTSP/HLS Protocols)

**ORIVISION** HD Encoder Device  
www.orivision.com.cn HD ENCODER CONFIGURATION OPERATING PLATFORM

[Service and Support](#)
Language: **ENGLISH**

Status >

Globe
Preview
ENCODER >

Stream1
Stream2
Stream3
Stream4
Audio
Input
PROTOCOL >

Settings
SETTINGS >

Network
System
Upgrade

Encoder
**Server**
Client
Text
OSD
Advance

**Server**

Http server : Enable(TS)

Http port : 8000 [1 - 65535]

Http path : /chn1

Rtsp server : Enable(ES)

Rtsp port : 554 [1 - 65535]

Rtsp path : /chn1

Hls server: Enable

Hls port : 8100 [1 - 65535]

Hls path : /chn1.m3u8

Hls duration : 3 [1 - 6]

Apply

**HTTP Server:** Disable/Enable (TS)/ Enable (FLV)

**HTTP port:** 1-65535 optional; default is 8000

**HTTP path:** Modifiable

**RTSP server:** Disable/Enable (TS)/Enable (ES)

**RTSP port:** 1-65535 optional; default is 554

**RTSP path:** Modifiable

**HLS server:** Disable/Enable

**HLS port:** 1-65535 optional; default is 8100

**HLS path:** Customization

**HLS Duration:** 1-6 optional; default is 3



Note

The encoder needs to be rebooted after the above changes.

### 3.2.3 Client Setting/ Pushflow settings (Multicast /RTMP/RTMPS/RTSP)

HD Encoder Device  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support Language: ENGLISH

Status > Encoder Server **Client** Text OSD Advance

ENCODER >

- Stream1
- Stream2
- Stream3
- Stream4
- Audio
- Input

PROTOCOL >

- Settings

**Client**

Multicast : UDP

Server addr : 232.255.42.41

Server port : 1234 [1 - 65535]

Package size : 1316

Rtmp(s) : Enable

Server addr :

Server app :

Rtsps push : Enable

Rtsps addr :

Apply

When users need to use multicast or RTMP or RTSP protocols, they can set them on this page.

**Multicast:** Disable/UDP/RTP optional

**Server addr:** Fill in the multicast address

**Server port:** 1-65535 optional; default is 1234

**Package size:** 564/940/1316

**Rtmp(s):** Disable/ Enable/Video Only/Audio only

**Server addr:** Fill in the RTMP/RTMS server address

**Server app:** Fill in the secret key of the RTMP/RTMPS server

**Rtsps push:** Disable/ Enable

**Rtsps addr:** Fill in the RTSP server address

### RTMP setup example:

For example, the RTMP push stream address is as follows

rtmp://p1bj.weizan.cn/v/820595698\_132282802989672874?t=471b0

Server addr: rtmp://p1bj.weizan.cn/v

Server app: 820595698\_132282802989672874?t=471b0

### RTSP setup example:

Rtsp addr: rtsp://192.168.10.113:8554/stream

### 3.2.4 Text Setting: Supports two groups of text input settings

The screenshot shows the 'Text' configuration page of the HD Encoder Device. The interface has a blue header with the 'HD Encoder Device' logo and a search bar. Below the header, there are tabs for 'Encoder', 'Server', 'Client', 'Text', 'OSD', and 'Advance'. The 'Text' tab is selected. On the left, there is a sidebar with various settings categories: Status, Encoder, Server, Client, Text, OSD, Advance, Stream1, Stream2, Stream3, Stream4, Audio, Input, Protocol, Settings, Network, System, and Upgrade. The main content area shows the 'Text' settings for Group1 and Group2. Group1 is set to 'Enable' and Group2 is set to 'Disable'. Other settings include Mode1 (Static), Text X1 (10), Text Y1 (10), Text size1 (36), Text alpha1 (128), Text color1 (White), background1 (Transparent), and Text1 (chn 1). An 'Apply' button is located at the bottom of the settings area.

**Group1:** Disable/ Enable

**Mode1:** Static/ Slide to right/ Slide to left

**Text X1:** 0-width is optional, display the left and right position of the text

**Text Y1:** 0-height is optional, display the up and down position of the text

**Text size1:** 8-200 is optional

**Text alpha1:** 0-128 is optional

**Text color1:** Colour of text displayed on video

**Background1:** Background colour of text displayed on video

**Text1:** the content of the text you want



Note

Each stream has two groups of texts can be set.

### 3.2.5 OSD Setting

User can upload the station logo, picture, etc. through the OSD, and it supports the JPG format.

**ORIVISION**  
www.orivision.com.cn

**HD Encoder Device**  
HD ENCODER CONFIGURATION OPERATING PLATFORM

[Service and Support](#)

Language: **ENGLISH**

Status
Encoder
Server
Client
Text
**OSD**
Advance

Globe
Preview
ENCODER
Stream1
Stream2
Stream3
Stream4
Audio
Input

Bmp

Group1 : Disable
Group2 : Disable
Mosaic1 : Disable
Mosaic2 : Disable
Apply



Note

Each stream has two groups of OSD can be set.

#### Bmp

Group1 : Enable

Bmp X1 : 100 [4-Width]

Bmp Y1 : 100 [4-Height]

Alpha1 : 48 [0-128]

Bmp name1 : [24bit bmp only]

Bmp file1 : 选择文件 未选...何文件 Upload

Group2 : Disable

Group1: Disable/ Enable

Bmp X1: 4-Width; display the left and right position of the picture

Bmp Y1: 4-Height; display the up and down position of the picture

Alpha: 0-128 is optional; Adjusting the transparency of an image

Bmp name1: display the name of the Group1

Bmp file1: choose to upload the image, support bmp format of the picture less than 1M

Set a partial mosaic on the video screen

## **Bmp**

Group1 :	<input type="text" value="Disable"/>	<input type="button" value="v"/>
Group2 :	<input type="text" value="Disable"/>	<input type="button" value="v"/>
Mosaic1 :	<input type="text" value="Enable"/>	<input type="button" value="v"/>
Mosaic X1 :	<input type="text" value="0"/>	<input type="button" value="[0-width]"/>
Mosaic Y1 :	<input type="text" value="0"/>	<input type="button" value="[0-height]"/>
Mosaic width1 :	<input type="text" value="64"/>	<input type="button" value="[8-width]"/>
Mosaic height1 :	<input type="text" value="64"/>	<input type="button" value="[8-height]"/>
Block size1 :	<input type="text" value="8x8"/>	<input type="button" value="v"/>
Mosaic2 :	<input type="text" value="Disable"/>	<input type="button" value="v"/>
<input type="button" value="Apply"/>		

Mosaic 1: Disable/ Enable

Mosaic X1: 0-Width; display the left and right position of the mosaic

Mosaic Y1: 0-Height; display the up and down position of the mosaic

Mosaic width1: 8-width;

Mosaic height1: 8-height;

Block size1: 8x8/ 16x16/ 32x32 optional

▼ Advance Setting

**ORIVISION**  
www.orivision.com.cn

**HD Encoder Device**  
HD ENCODER CONFIGURATION OPERATING PLATFORM

[Service and Support](#)

Language: **ENGLISH**

Status
Encoder
Server
Client
Text
OSD
**Advance**

Globe
Preview
ENCODER
**Stream1**
Stream2
Stream3
Stream4
Audio
Input
PROTOCOL
Settings
SETTINGS

**Advance**

TS start\_pid : 68
TS map\_pid : 102
TS stream\_id : 11951
TS package mode : A
Contrast : 8 [0 - 63]
Image enhance : 4 [0 - 16]
Y space filter : 12 [0 - 255]
Y time filter : 8 [0 - 63]
C space filter : 24 [0 - 255]
C time filter : 12 [0 - 32]

Apply

### 3.3 Audio Setting

**HD**
**HD Encoder Device**  
HD ENCODER CONFIGURATION OPERATING PLATFORM

[Service and Support](#)

Language: **ENGLISH**

Status
**Audio**

Globe
Preview
ENCODER
Stream1
Stream2
Stream3
Stream4
**Audio**
Input
PROTOCOL

AACLC
EAAC
EAACPLUS
MP2
AC3

Encoder type: AACLC
Bitrate: 64000
ES type: AAC
ES chn: Left
Digital gain: x1

48000
64000
96000
128000
160000
192000
256000

AAC
G711A
G711U

x0.5
x1
x2
x4
x8

Apply

**Encoder type:** AACLC/EAAC/EAACPLUS/MP2/AC3

**Bitrate:** 48000/64000/96000/128000/160000/192000/256000 optional

**ES type:** AAC/G711A/G711U optional

**ES chn:** Left/Right

**Digital gain:** X0.5/X1/X2/X4/X8



### 3.4 Input Setting

**Mirror:** Screen mirroring settings for the input signal source

Mirror is Left and right mirroring

Flip is Top and bottom mirroring

Mirror+flip is Left-right and up-down mirroring

**Audio intf:** Digital/Analog

Digital means that the input audio source is the video's built-in audio

Analog means that the input audio source is an external audio

### 3.4.1 EDID function

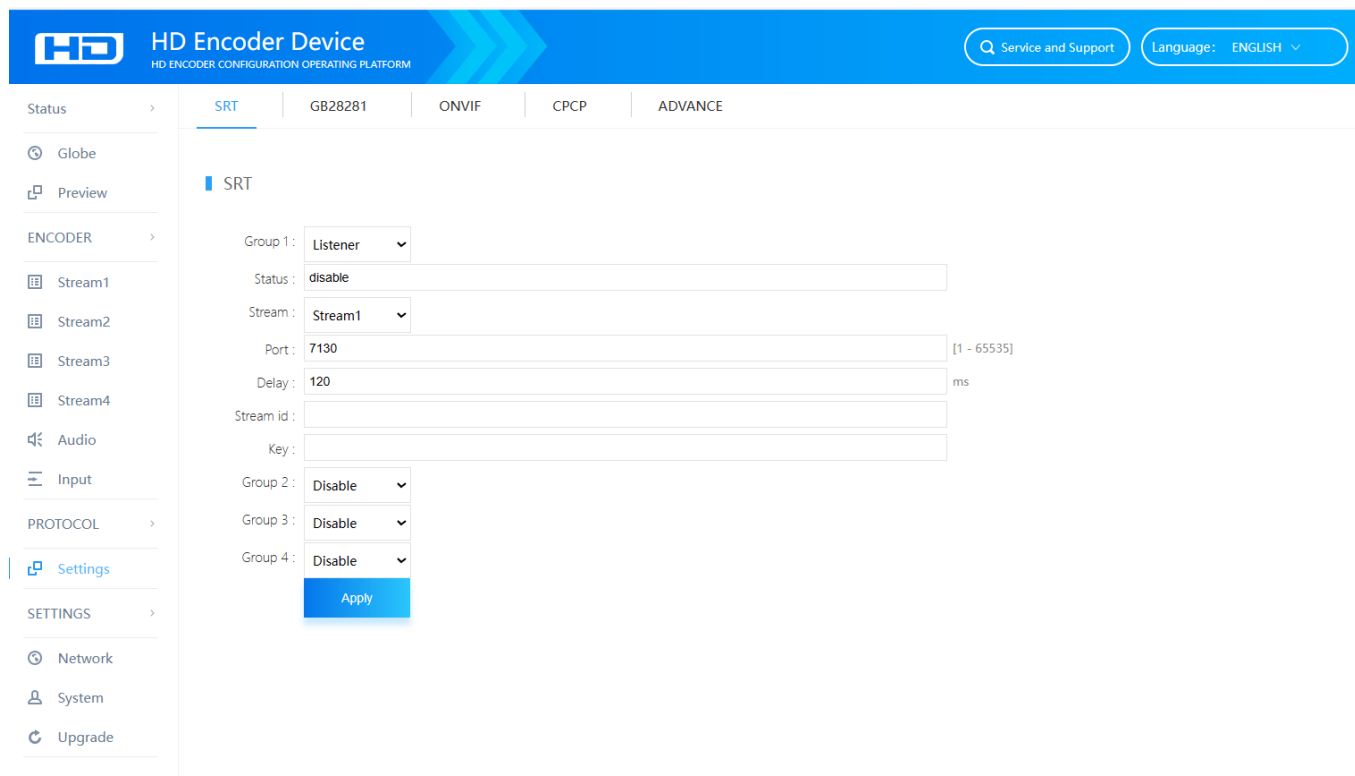
Four default EDID modes are available for selection, users can choose it according to their needs, if the default mode can't meet the user's needs, the user can contact our technical department to add a new EDID mode (support@orivision.cn)

The screenshot shows the 'HD Encoder Device' configuration platform. The top navigation bar includes a search icon for 'Service and Support' and a language dropdown set to 'ENGLISH'. The left sidebar contains a menu with 'Status', 'Globe', 'Preview', 'ENCODER' (with sub-items Stream1-4), 'Audio', 'Input' (selected), 'PROTOCOL', 'Settings', 'SETTINGS', and 'Network'. The main content area is titled 'INPUT' and 'EDID'. It features a dropdown menu for 'Edid' set to 'SNMSUNG', an 'Apply' button, and a preview box showing 'Encoder1080P', 'SNMSUNG', '4K\_288P6L', and 'ITE'.

### 3.5 Protocol Setting: SRT/ONVIF protocols

The screenshot shows the 'HD Encoder Device' configuration platform with the 'SRT' protocol selected. The top navigation bar is identical to the previous screenshot. The left sidebar highlights the 'Settings' option under the 'PROTOCOL' section. The main content area is titled 'SRT' and displays four groups, each with a 'Disable' dropdown menu and an 'Apply' button at the bottom.

### 3.5.1 Listener model of SRT protocol



The screenshot shows the 'HD Encoder Device' configuration platform. The top navigation bar includes 'Status', 'SRT', 'GB28281', 'ONVIF', 'CPCP', and 'ADVANCE'. The left sidebar contains 'Globe', 'Preview', 'ENCODER' (with sub-items Stream1-4), 'Audio', 'Input', 'PROTOCOL', 'Settings' (highlighted), 'SETTINGS' (with sub-items Network, System, Upgrade), and 'Upgrade'. The main content area is titled 'SRT' and displays the following settings:

- Group 1: Listener (dropdown)
- Status: disable (text input)
- Stream: Stream1 (dropdown)
- Port: 7130 (text input, range [1 - 65535])
- Delay: 120 (text input, unit ms)
- Stream id: (text input)
- Key: (text input)
- Group 2: Disable (dropdown)
- Group 3: Disable (dropdown)
- Group 4: Disable (dropdown)
- Apply (button)

When SRT is selected as Listener mode,

**Status:** Display the status of the SRT

**Stream:** choose stream1~4

**Port:** [1 - 65535], 7130 is default; It is recommended to set the port larger than 1024 if the user want to change it

**Delay:** 120 is default

**Stream ID:**

**Key:** Set encryption password

### 3.5.2 Caller model of SRT protocol

The screenshot shows the 'HD Encoder Device' configuration platform. The top navigation bar includes 'Service and Support' and 'Language: ENGLISH'. The left sidebar contains 'Status', 'Encoder', 'Protocol', and 'Settings'. The 'SRT' tab is selected, showing configuration for 'Group 1: Caller'. The settings include: Status (disable), Stream (Stream1), Server addr (192.168.10.113), Port (7130, range [1 - 65535]), Delay (120 ms), Stream id, and Key. Below these are four more groups (Group 2 to Group 4) all set to 'Disable'. An 'Apply' button is at the bottom of the settings.

When SRT is selected as Caller mode,

**Status:** Display the status of the SRT

**Stream:** choose stream1~4

**Server addr:** Enter the IP address of the decoder

**Port:** [1 - 65535], 7130 is default; It is recommended to set the port larger than 1024 if the user want to change it

**Delay:** 120 is default

**Stream ID:**

**Key:** Set encryption password



#### Note

Click the Apply button when you have finished setting up and then reboot the encoder.

### 3.5.3 GB28181

HD

HD Encoder Device

HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

SRT

GB28181

ONVIF

CPCP

ADVANCE

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Input

PROTOCOL

Settings

SETTINGS

Network

System

Upgrade

GB28181

Status: diable

Mode: Disable

Stream: Stream1

Server addr: 192.168.0.100

Server port: 5060 [1 - 65535]

Bak addr:

Bak port: 5060 [1 - 65535]

Server ID: 34020000002000000001

Device ID: 34020000001320000001

Media ID: 34020000001320000001

Device port: 5060 [1 - 65535]

Password: 12345678

Expiry: 3600

Alive report: 60

Apply

By default, users usually do not need to set it up.

### 3.5.4 ONVIF setting

HD

HD Encoder Device

HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

SRT

GB28181

ONVIF

CPCP

ADVANCE

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Input

ONVIF

Mode: Enable

Media name:

Apply

### 3.5.5 CPCP

HD

HD Encoder Device

HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

SRT

GB28281

ONVIF

CPCP

ADVANCE

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Input

PROTOCOL

CPCP

State : offline

Mode : Disable

Name :

Server addr :

Server port : 8200

Alive period : 10 second

Apply

### 3.5.6 Advance setting

HD

HD Encoder Device

HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

SRT

GB28281

ONVIF

CPCP

ADVANCE

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Input

PROTOCOL

Settings

Advance

HTTP&RTSP encry: Disable

user name: 123

password: 123

Apply

Encryption settings for HTTP and RTSP protocols

### 3.6 System Setting

#### 3.6.1 Network Setting

When DHCP is enabled, the encoder IP address is assigned by the switch and the OLED display of the encoder shows the IP address assigned to the encoder.

When DHCP is disabled, the user can manually change the IP address of the encoder. Modify DNS when changing IP.

Note that the encoder needs to be reboot after the IP is changed.

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**HD Encoder Device**  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH ▾

Status >

ENCODER >

PROTOCOL >

SETTINGS >

Globe

Preview

Stream1

Stream2

Stream3

Stream4

Audio

Input

Settings

System

Upgrade

Network

Advance

Intercom

Remote uart

**Network**

DHCP : Disable ▾

IP address : 192.168.10.38

Mask address : 255.255.255.0

GW address : 192.168.10.1

DNS0 : 192.168.10.1

DNS1 : 192.168.10.1

MTU : 1500

MAC address : F4:69:D5:D0:28:96

Apply

HD

HD Encoder Device

HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

Network

Advance

Intercom

Remote uart

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Input

PROTOCOL

Settings

SETTINGS

Network

System

Upgrade

Advance

Web port : 80 [2, 65535]

Web bak port : 8080 [0, 65535] 0 disabled

Onvif port : 8120 [1, 65535]

DHCP retry : 5 0 means retry forever

Apply

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HD Encoder Device

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HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

Network

Advance

Intercom

Remote uart

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Intercom

Mode : Client

Status : Disable

Address :

Port : 5400

Volume : 132 [0 - 132]

Apply



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**HD Encoder Device**  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH ▾

Status ▸

Globe

Preview

ENCODER ▸

Stream1

Stream2

Stream3

Stream4

Network

Advance

Intercom

Remote uart

Remote uart

Mode : 

Disable ▾

Baud rate : 

115200 ▾

Port : 

5300

 [0, 65535]

Apply



Note

After changing the above parameters the encoder needs to be rebooted.

### 3.6.2 System Setting

#### ▼Time display settings

**ORIVISION**  
www.orivision.com.cn

**HD Encoder Device**  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH ▾

Status ▸

Globe

Preview

ENCODER ▸

Stream1

Stream2

Stream3

Stream4

Audio

TIME

SCHEDULER

LOGIN

TIME

System time : 

1970/1/1 08:33:31

Time sync : 

Sync

NTP : 

Disable ▾

NTP Server : 

ntp6.aliyun.com

Time zone: 

UTC+8 ▾

Apply

One-click "Sync" synchronisation of the time on the user's computer

When NTP is enabled, it can synchronize the user-specified time zone time

▼ Automatic/timed reboot settings

**ORIVISION**  
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**HD Encoder Device**  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH ▾

Status >

TIME

SCHEDULER

LOGIN

Globe

Preview

ENCODER >

Stream1

Stream2

Stream3

Stream4

Audio

Input

Scheduler

Auto reboot : Enable ▾

Expiry : 10 小时

Left : < 1 小时

Fixed Reboot: Enable ▾

Target : 10 : 10

Apply

▼ Modify login username and password settings

**ORIVISION**  
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**HD Encoder Device**  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH ▾

Status >

TIME

SCHEDULER

LOGIN

Globe

Preview

ENCODER >

Stream1

Stream2

Stream3

Login

New Name :

New password :

Repeat password :

Apply

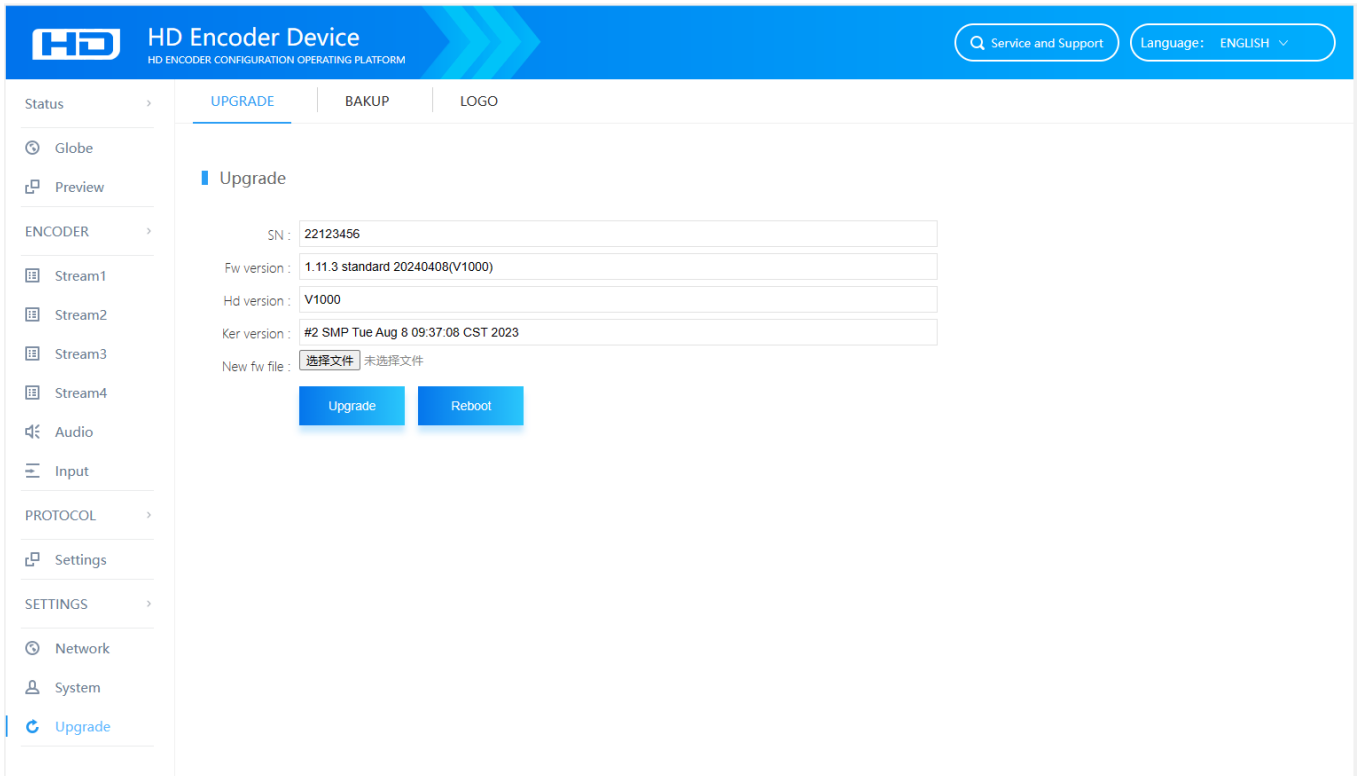


Note

After changing the above parameters the encoder needs to be rebooted.

### 3.6.3 Upgrade Setting

#### ▼ Upgrade Setting



The screenshot displays the 'Upgrade' tab of the 'HD Encoder Device' configuration platform. The left sidebar contains navigation options: Status, ENCODER (with sub-items Stream1-4), AUDIO, Input, PROTOCOL, SETTINGS (with sub-items Network, System, and Upgrade), and Upgrade (selected). The main content area shows the 'Upgrade' section with the following fields:

- SN: 22123456
- Fw version: 1.11.3 standard 20240408(V1000)
- Hd version: V1000
- Ker version: #2 SMP Tue Aug 8 09:37:08 CST 2023
- New fw file: 选择文件 未选择文件

At the bottom of the form are two buttons: 'Upgrade' and 'Reboot'.

Display of existing firmware version number information

If the user need to upgrade to a new firmware, you can contact us for the latest version of firmware.

Once you have received the new firmware, please do not unzip the file and upload it directly

When the system prompts that the upgrade is successful, Pls reboot your encoder to finish installing updates.

#### Note



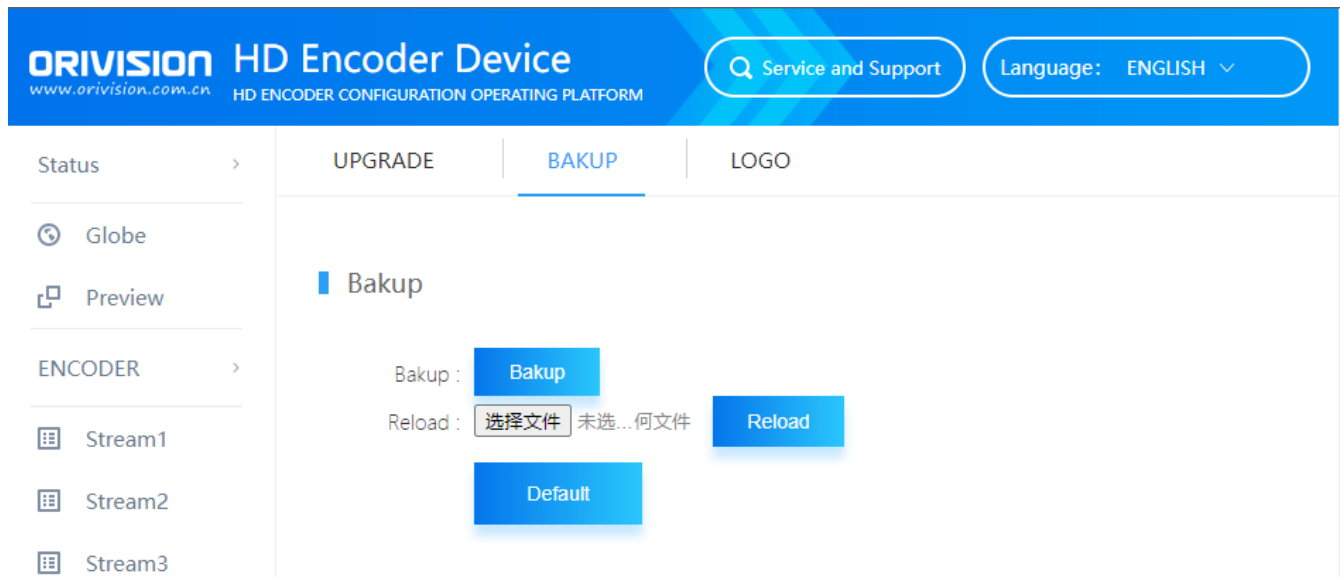
During the upgrade process, don't refresh or close the webpage and don't turn off the encoder. If you are prompted that the upgrade failed, pls don't reset it, just reboot it.

▼ backup Setting

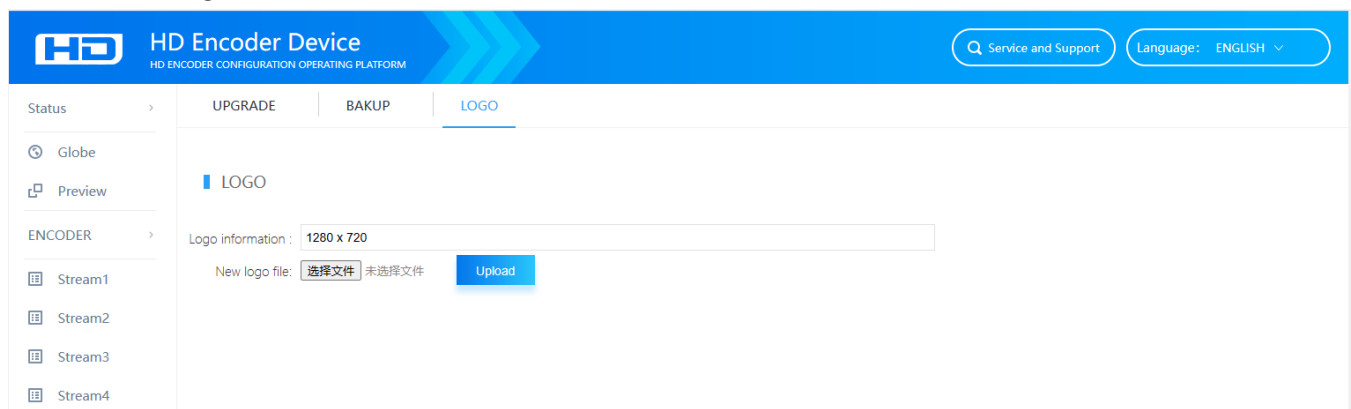
Click the “Bakup” button to save the encoded settings to a file on your local computer with one click

Settings can also be restored with one click by uploading a file

“Default” button is restored to factory settings



▼ LOGO Management



Upload an image of the boot screen here

## 4) How to connect the Encoder to the internet

**Step1:** Connect the encoder to the PC directly. Login the control web with the default IP: 192.168.0.31

**Step2:** Check the IP of the router connected to the Network.

*For example: the IP of router is 192.168.10.128 Then the user needs to change the default IP of the encoder 192.168.0.31 to 192.168.10.XXX;*

**Step3:** Find the Network set and change the IP to 192.168.10.XXX and the gateway & DNS to 192.168.10.1, then press the "Apply" button and reboot the encoder.

The screenshot displays the 'HD Encoder Device' configuration web interface. The top navigation bar includes a search icon, 'Service and Support', and a language dropdown set to 'ENGLISH'. The main menu on the left lists various settings categories: Status, ENCODER, PROTOCOL, and SETTINGS. The 'Network' tab is selected and highlighted in the top navigation bar. The 'Network' configuration page shows the following settings:

- DHCP: Disabled (dropdown menu)
- IP address: 192.168.10.38
- Mask address: 255.255.255.0
- GW address: 192.168.10.1
- DNS0: 192.168.10.1
- DNS1: 192.168.10.1
- MTU: 1500
- MAC address: 00:0C:11:22:33:44

An 'Apply' button is located at the bottom of the configuration fields. The 'Network' option in the left sidebar is also highlighted with a red box.

HD Encoder Device  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support | Language: ENGLISH

Status > | **UPGRADE** | BAKUP | LOGO

Encoder Upgrade

SN : 22123456

Fw version : 1.11.3 standard 20240408(V1000)

Hd version : V1000

Ker version : #2 SMP Tue Aug 8 09:37:08 CST 2023

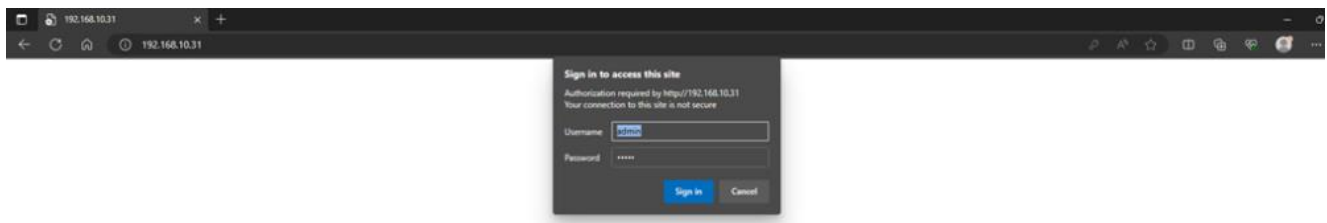
New fw file : 选择文件 未选择文件

Upgrade Reboot

Upgrade

**Step4:** Connect the encoder directly to the router with a network cable. At the same time, connect the computer to the same network

**Step5:** Open the browser and enter the new IP :192.168.10.XXX



Note:

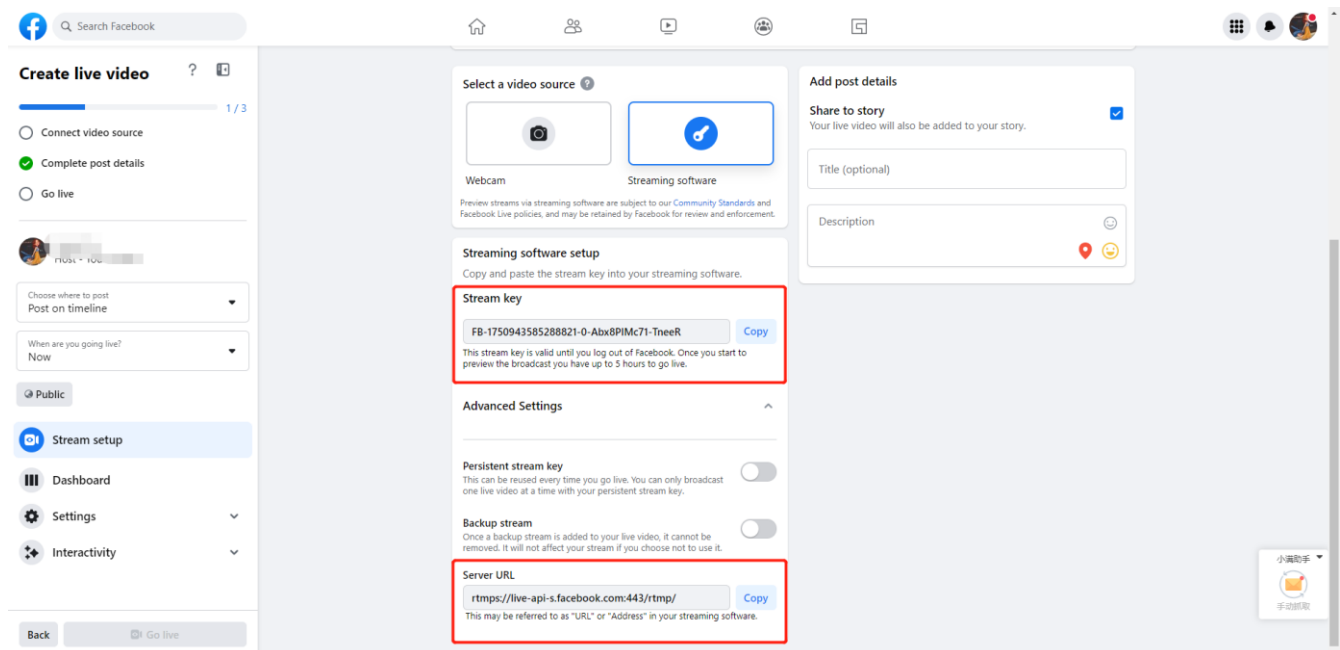
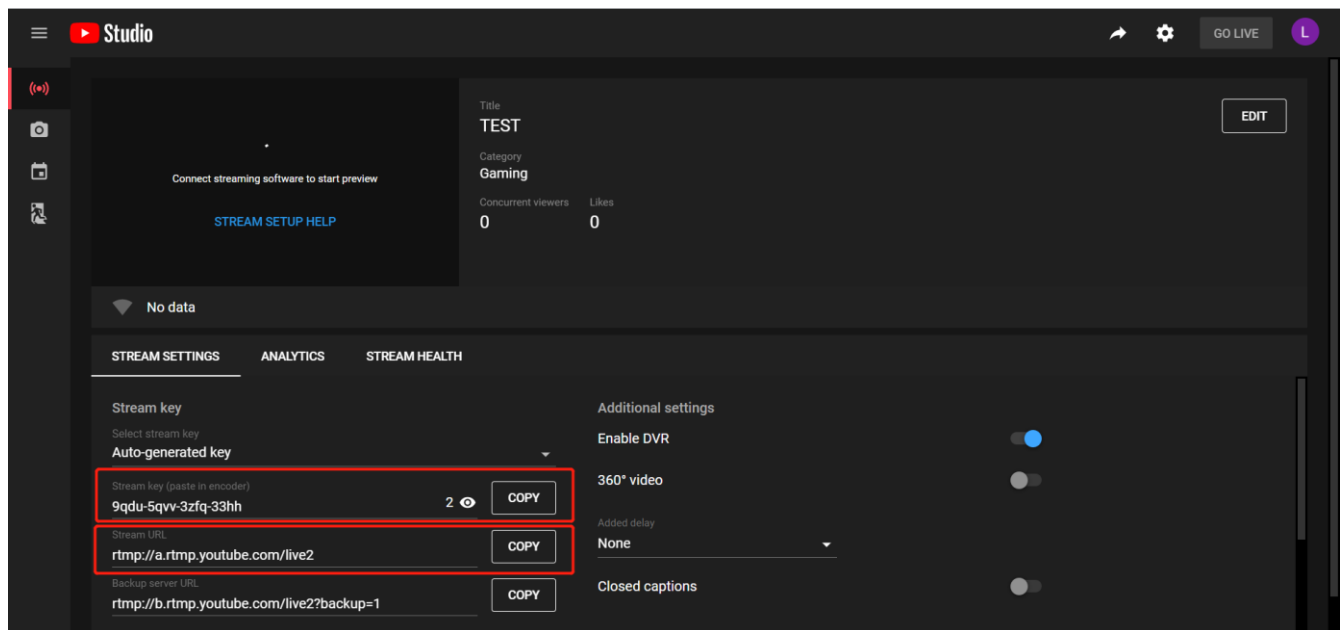
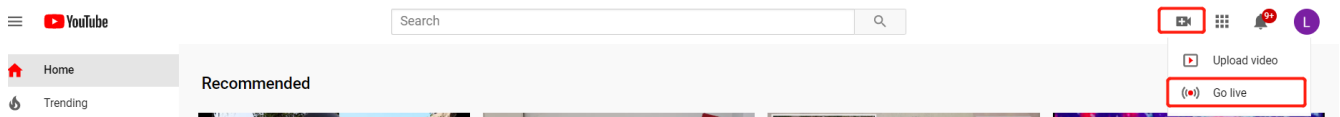
If user can't log in by new IP, Pls check the DNS of the router. Then reset the encoder and re-login to the web according to the above steps, modify the IP, gateway, and DNS.

## 5) How to streaming to YouTube/Facebook via RTMP/RTMPS

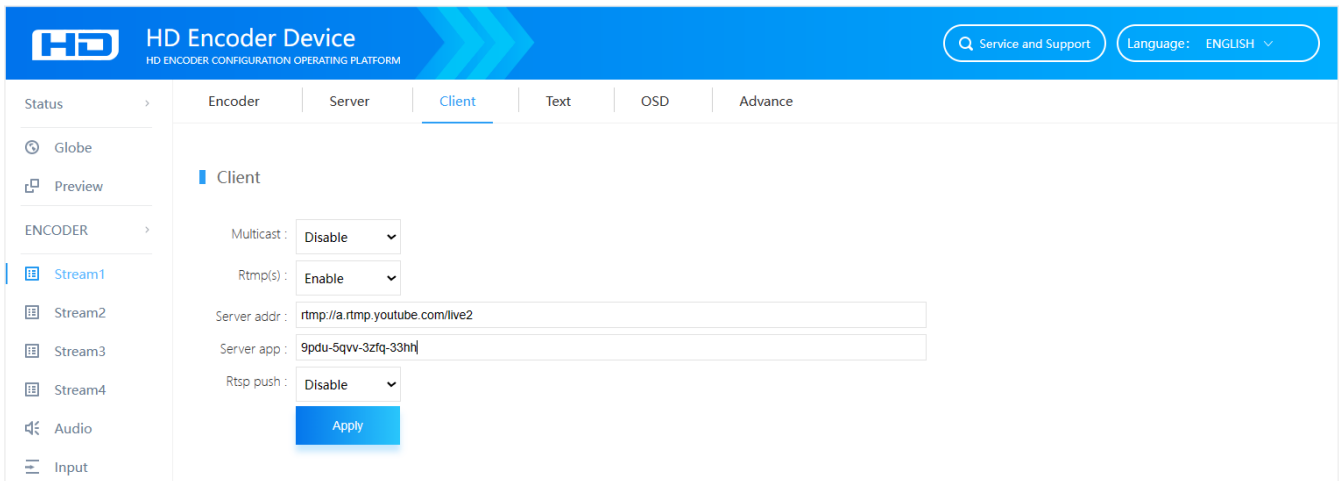
**Step1: Before making live broadcast, you will need to check the following.**

- Play the stream address in the encoder with the VLC player and confirm that it can play normally.
- Canon camera don't have audio output, you will need to input an external audio.
- Microphone is not an audio source.

**Step2: Login Your YouTube or Facebook account and find “Go Live”. User can get a stream Key and URL**



**Step3:** Log in the control web of the video encoder. Find the “Stream”—“Client”—“Rtmp(s)” Page, enable the RTMP protocol as bellow. Enter the address and secret key of the RTMP server into the corresponding boxes



HD Encoder Device  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support Language: ENGLISH

Status > Encoder Server **Client** Text OSD Advance

Client

Multicast: Disable

Rtmp(s): Enable

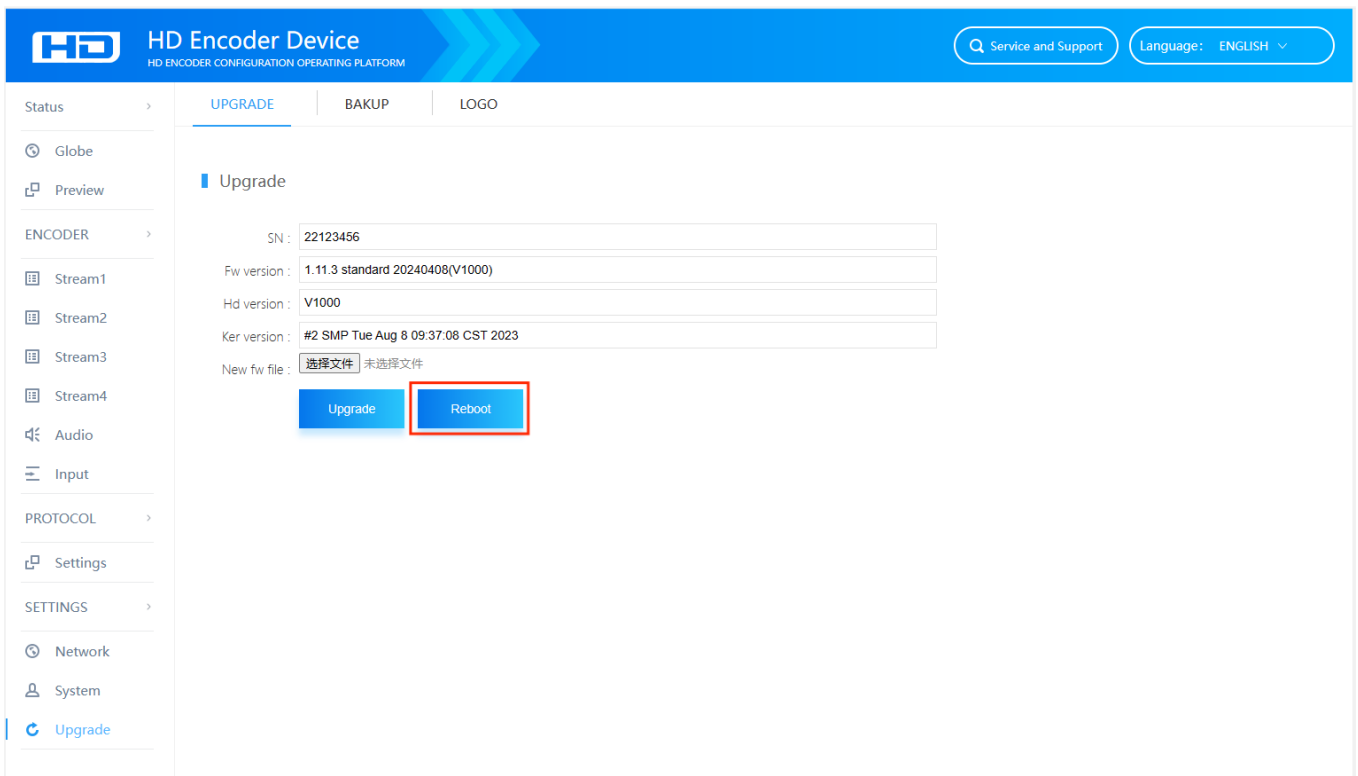
Server addr: rtmp://a.rtmp.youtube.com/live2

Server app: 9pdu-5qv-3zfq-33hh

Rtsp push: Disable

Apply

**Step4:** After set the RTMP, pls press the “Apply” button on the bottom of the page. Then press “REBOOT” button in the upgrad page.



HD Encoder Device  
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support Language: ENGLISH

Status > **UPGRADE** BAKUP LOGO

Upgrade

SN: 22123456

Fw version: 1.11.3 standard 20240408(V1000)

Hd version: V1000

Ker version: #2 SMP Tue Aug 8 09:37:08 CST 2023

New fw file: 选择文件 未选择文件

Upgrade Reboot

Stream1 Stream2 Stream3 Stream4 Audio Input

PROTOCOL > Settings

SETTINGS > Network System **Upgrade**



Note:

If it's failed to stream on YouTube or Facebook, Pls check the DNS settings, the value of DNS0 and DNS1 are the DNS of router.



**ORIVISION** HD Encoder Device  
www.orivision.com.cn HD ENCODER CONFIGURATION OPERATING PLATFORM

Status

Network

Advance

Intercom

Remote uart

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Input

PROTOCOL

Settings

**Network**

DHCP : Disable

IP address : 192.168.10.38

Mask address : 255.255.255.0

GW address : 192.168.10.1

DNS0 : 192.168.10.1

DNS1 : 192.168.10.1

MTU : 1500

MAC address : F4:69:D5:D0:28:96

Apply

## 6) How to set the SRT protocol in the encoder

There are two modes are available: caller and Listener

### 6.1 Listener mode

1. SRT Port: 7130 is default. But customers can modify it and suggest to set it more than 1024.
2. SRT delay: 120 is default.
3. SRT Key: set a password of at least 10 digits if the user need.
4. Press the “Apply” button and reboot the encoder after any change the parameter.
5. After reboot the encoder, the user can use the SRT address: srt://ip:port to pay it VLC Player to make it working or paste the address into the video decoder

#### SRT

E.g: the ip of the encoder is 192.168.10.38; the port is 7130. Then the address should be srt://192.168.10.38:7130  
Users can view the address of the SRT on the status page

HD

HD Encoder Device

HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Input

PROTOCOL

Settings

SETTINGS

Network

System

Upgrade

Globe

Encoder

System (%)

Server

Client

Input1: video: 1280 x 720 P @54 audio: 48000

Input2: No input

Input3: No input

Input4: No input

Stream1: video: H264 1280 x 720 @30 2048 audio: AAC 48000

Stream2: Disable

Stream3: Disable

Stream4: Disable

3%

34%

33%

CPU

MEM

FLASH

Stream1: http://192.168.10.38:8000/chn1 (ts)

Stream1: rtsp://192.168.10.38:554/chn1 (ts)

Stream1: http://192.168.10.38:8100/chn1.m3u8 (hls)

Stream1: srt://192.168.10.38:7130 (0 online)

rtmp server: rtmp://192.168.10.38/live Status

Internet: online

Users can fill in the SRT address directly into the decoder or play it through the VLC player

**If the user wants to encrypt the SRT**

**Then the encrypt SRT address format:** `srt://ip:port?passphrase=passwords`

E.g: `srt://192.168.10.38:7130?passphrase=1234567890`

SRT

Group 1: Listener

Status: srt://192.168.10.38 (0 online)

Stream: Stream1

Port: 7130 [1 - 65535]

Delay: 120 ms

Stream id:

Key: 1234567890

Group 2: Disable

Group 3: Disable

Group 4: Disable

Apply

## 6.2 Caller mode

SRT Port: 7130 is default. But customers can modify it and suggest to set it more than 1024.

SRT delay: 120 is default.

SRT Key: set a password of at least 10 digits if the user need

Press the “Apply” button and reboot the encoder after any change the parameter.

After reboot the encoder, the user can use the SRT address: `srt://@:port?mode=listener` to play it VLC Player to make it working or paste the address into the video decoder

### SRT

Group 1 : **Caller** ▼

Status : `srt:// offline`

Stream : **Stream1** ▼

Server addr : **IP of the decoder**

Port : **7130** [1 - 65535]

Delay : **120** ms

Stream id :

Key :

Group 2 : **Disable** ▼

Group 3 : **Disable** ▼

Group 4 : **Disable** ▼

**Apply**

If the user wants to encrypt the SRT

**Then the encrypt SRT address format:** `srt://@:port?mode=listenser&passphrase=passwords`

E.g `srt://@:7130?mode=listener&passphrase=1234567890`

## SRT

Group 1 :	Caller	▼
Status :	srt:// offline	
Stream :	Stream1	▼
Server addr :	IP of the decoder	
Port :	7130	[1 - 65535]
Delay :	120	ms
Stream id :		
Key :	1234567890	
Group 2 :	Disable	▼
Group 3 :	Disable	▼
Group 4 :	Disable	▼
<button>Apply</button>		

Description of decoder stream address:

1) Video Encoder choose "listener" mode, the SRT address format in Video Decoder:

srt://ip:port

srt://ip:port?passphrase=passwords

2) Video Encoder choose "caller" mode, the SRT address format in Video Decoder:

Srt://@:port?mode=listener

Srt://@port?mode=listenser&passphrase=passwords

## 7) How to Upgrade the new firmware

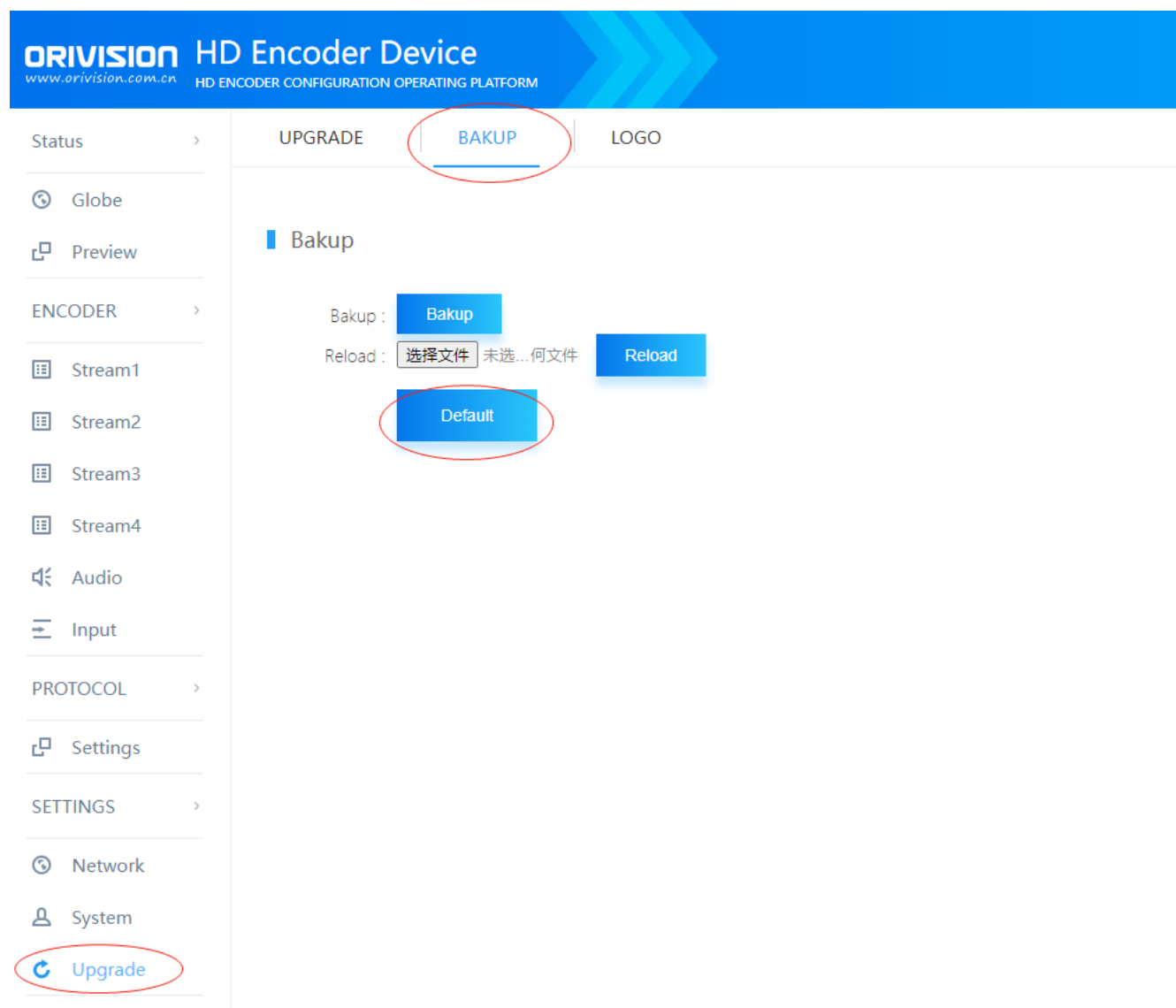
- 1) Once the user has obtained the firmware, do not unzip it and upload it directly
- 2) During the upgrade process, don't refresh or close the webpage and don't turn off the encoder.
- 3) When the system prompts that the upgrade is successful, Pls reboot your encoder to finish installing update.
- 4) If you are prompted that the upgrade failed, pls don't reset it, just reboot it

The screenshot displays the 'HD Encoder Device' configuration web interface. The top navigation bar includes the Orivision logo, the title 'HD Encoder Device', the subtitle 'HD ENCODER CONFIGURATION OPERATING PLATFORM', a search bar for 'Service and Support', and a language dropdown set to 'ENGLISH'. The left sidebar contains a menu with categories: Status, ENCODER, AUDIO, INPUT, PROTOCOL, SETTINGS, and NETWORK. The 'UPGRADE' tab is selected in the top navigation. The main content area shows the 'Upgrade' section with the following fields: SN (22123456), Fw version (1.11.3 standard 20240408(V1000)), Hd version (V1000), and Ker version (#2 SMP Tue Aug 8 09:37:08 CST 2023). The 'New fw file' field is highlighted with a red box and contains a file selection button labeled '选择文件' (Select File) and the text '未选择文件' (No file selected). Below these fields are two buttons: 'Upgrade' and 'Reboot', both of which are also highlighted with red boxes.

## 8) How to Reset/Reboot the encoder

There are two ways to reset the factory settings:

- 1) Find the “backup” button in the system settings of the encoder and click on the "default" button to restore the factory settings



- 2) There is an RST hole on the front of the unit, Then get a sharp needle and insert it into the SRT hole and hold it for about 10 seconds. When all the lights no longer flash, the factory settings have been restored. At this point the default IP(192.168.0.31) is displayed on the OLED display.



Users can restart the encoder by “Upgrade-UPGRADE-reboot”

Note: The encoder needs to be rebooted after the above changes.

