URayCoder UHE265-1-Mini H.265 HEVC HDMI Video Encoder User Manual

URayCoder
H.265 HEVC/H.264 AVC/MPGE4
FHD Video/Audio Live Encoder
Manual

Contents [hide

Interface

Power: DC 9-12V 1A A **HDMI IN:** HDMI Video Input Port **Reset:** Recovery to the Default setting **LAN:** LAN: 1000M Ethernet Port **WIFI:** it is AP when it is blinking, it is connected it is always bright.	**ANT:** HG WIFI **Power:** Power Light(Red) **LAN:** Lan Status Light(Greer **Video:** Video Signal Light(Bl

Instructions

A. Power —-9-12 V/DC 1A;

B. Reset—— it is used to reset the equipment; after the equipment is started, press the button for 10 seconds, and the equipment IP is recovered to the default IP, 192.168.1.168.

C. Video input — it is used to input high-definition HDMI

D. LAN —- 100M or 1000M Ethernet connection.

Specification

Input

Video	1.4 HDMI HDCP
HDMI resolution ratio	1920x1200_60P,1920×1080_50/60P,1920×1080_50/60i, 1280×720 _50/60p 720x576i/p 720x480i/p.
Encoding	H.265 HEVC or H.264 AVC Profile 4.2
Bitrate	16kbit/s 32Mbit/s
Bitrate control	CBR/VBR
GOP	Adjustable

Audio:

Encoding	AAC AAC+ AAC++ MP3 MP2 AC3 G.711A/U
Re-Sampling rate	44100/48000
Bitrate	48K 64K 96K 128K 160K 192K 256K
Sampling precision	24 bit
Bitrate	64Kb/s-384Kb/s

System:

Network	100M/1000M Base-T Ethernet /WIFI 2.4G
Stream	UTP,HTTP,FLV,HLS,RTSP,RTMP RTP UDP(Multicast,Unicast) and ONVIF
Configuration interface	WEB operation interface or CGI Command
Updating	Software update

General

Size	89*103*29mm
Net Weight	0.3KG
Temperature range	-20-55 C (workable)
Power supply	9-12V/1A or 5V/2A
Power consumption	5W

System Setting

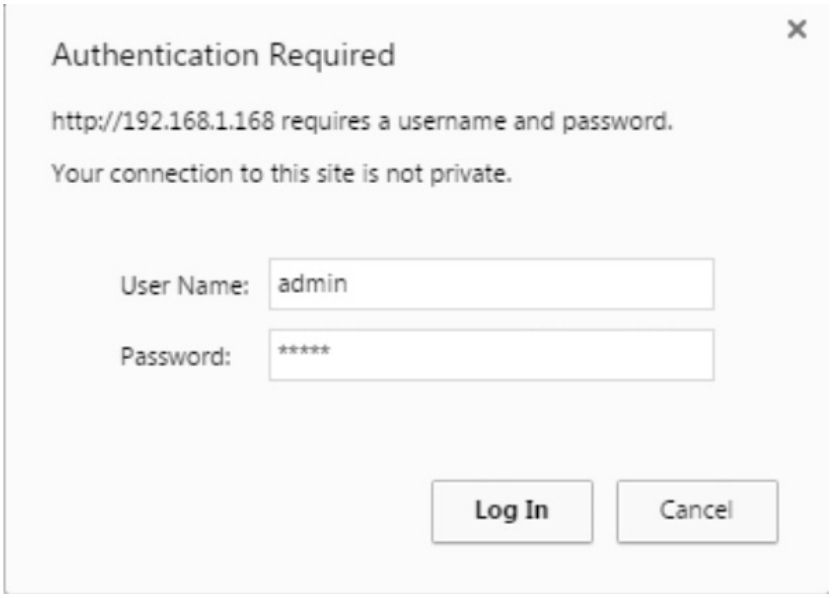
3.1 Reset

there is an RST hole on the front panel which is used to conduct an initialization reset for the high-definition encoder. When the equipment is powered on, press the button and hold for 12 seconds, when the power light is off, release the button, and all the parameters will be initialized. The initialized IP is 192.168.1.168.

3.2 Computer IP Address Setting

Computer IP can be set as 192.168.1.*. Note: anyone from 1 254, except for 168

3.3 Open IE Explorer
Fill http://192.168.1.168 to the address bar, Default user name: admin Pass: admin



3.4 Status Display
3.4.1 status: when there is video input, it will display the resolution of the input, and if there is no status info, the input is not correct, please check your video source or video cable.

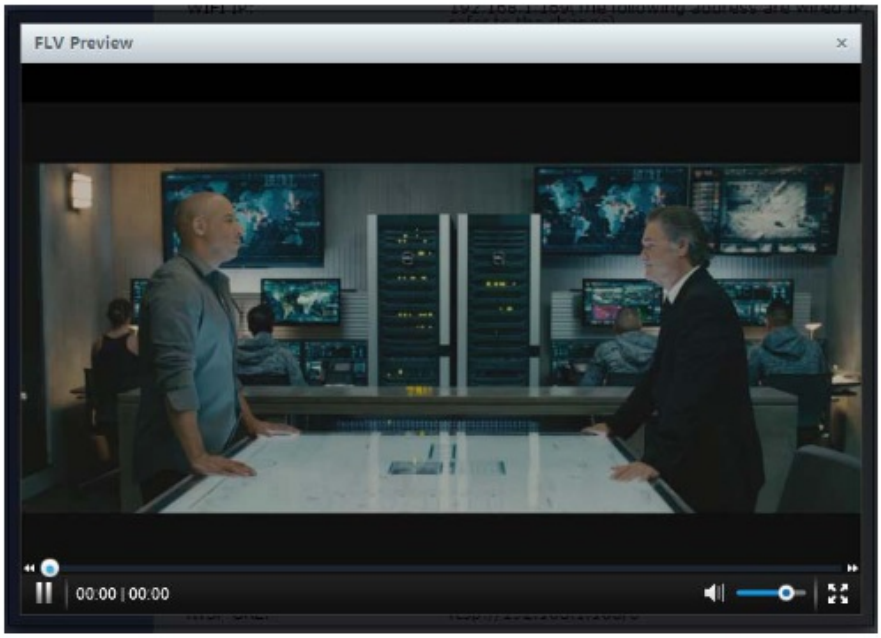
Status
Running Time: 0000-00-00 00:05:49
Device Time: 2018-03-23 06:28:11(Sync tTme To Device)
CPU Usage: 22%
Memory Usage: 16.8M/89.1M
Input Size: 1920x1080p@60
Collected Video Frames: 20890
Lost Video Frames: 2
Audio Samplerate: 48000
Collected Audio Frames: 16328
Net Packet Sent: 17
Net Packet Dropped: 0
3.4.2 mainstream: it shows main Stream Encoding Type, Resolution, Bitrate, and access address

Main Stream
Encoding Type: H.264
Encoded Size: 1920×1080@30
Bitrate(kbit): 2800
TS URL: http://192.168.1.168/0.ts
HLS URL: http://192.168.1.168/0.m3u8
FLV URL: http://192.168.1.168/0.fly
RTSP URL: rtsp://192.168.1.168/0
RTMP URL: Disable
RTMP PUSH URL(Not Connected): rtmp://192.168.1.50/live/0
Multicast URL: udp://0238.0.0.1:1234
Preview—>Click
3.4.3 Sub stream: it shows Sub-Stream Encode Type, Resolution Bitrate, and access address

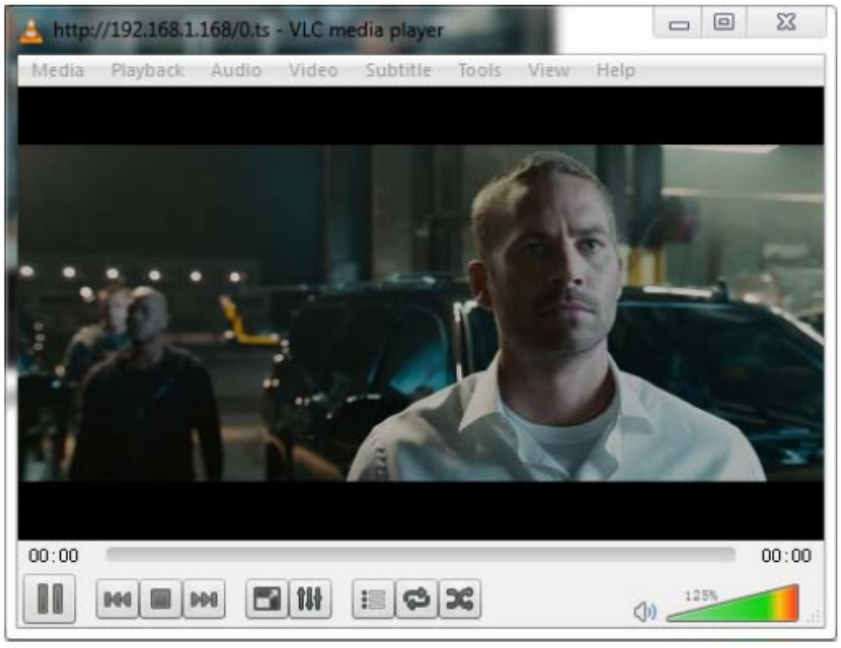
Substreaml
Encoding Type: H.264
Encoded Size: 1280×720@30
Bitrate(kbit): 1800

TS URL: http://192.168.1.168/1.ts
HLS URL: http://192.168.1.168/1.m3u8
FLV URL: http://192.168.1.168/1.flv
RTSP URL: rtsp://192.168.1.168/1
RTMP URL: rtmp://192.168.1.168/live/1
RTMP PUSH URL: Disable
Multicast URL: Disable
Preview—–>Click
3.3.4 Preview:
a.Click Preview, and it will play the stream in the browser

Main Stream
Encoding Type: H.264
Encoded Size: 1920×1080@30
Bitrate(kbit): 2800
TS URL: http://192.168.1.168/0.ts
HLS URL: http://192.168.1.168/0.m3u8
FLV URL: http://192.168.1.168/0.flv
RTSP URL: rtsp://192.168.1.168/0
RTMP URL: Disable
RTMP PUSH URL(Not Connected): rtmp://192.168.1.50/live/0
Multicast URL: udp://@238.0.0.1:1234
Preview >Click

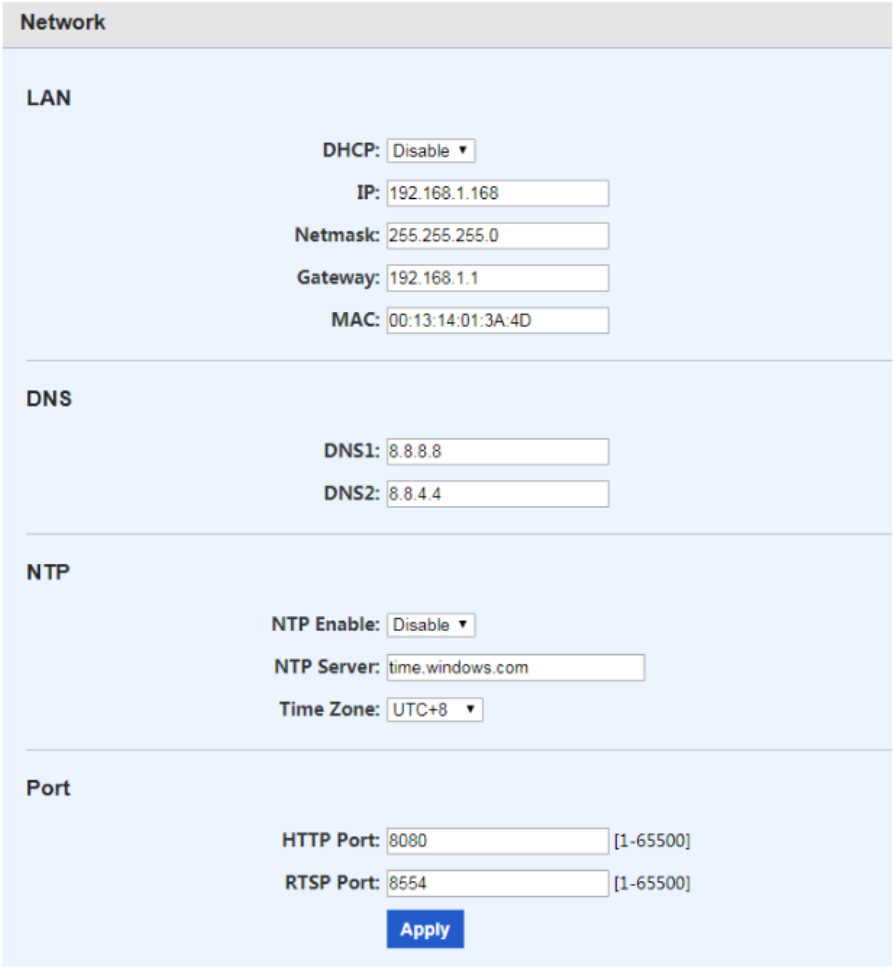


b.open VLC software to play stream
default HTTP stream address: http://192.168.1.168/0.ts
default RTSP stream address: rtsp://192.168.1.168/0



Network Setting

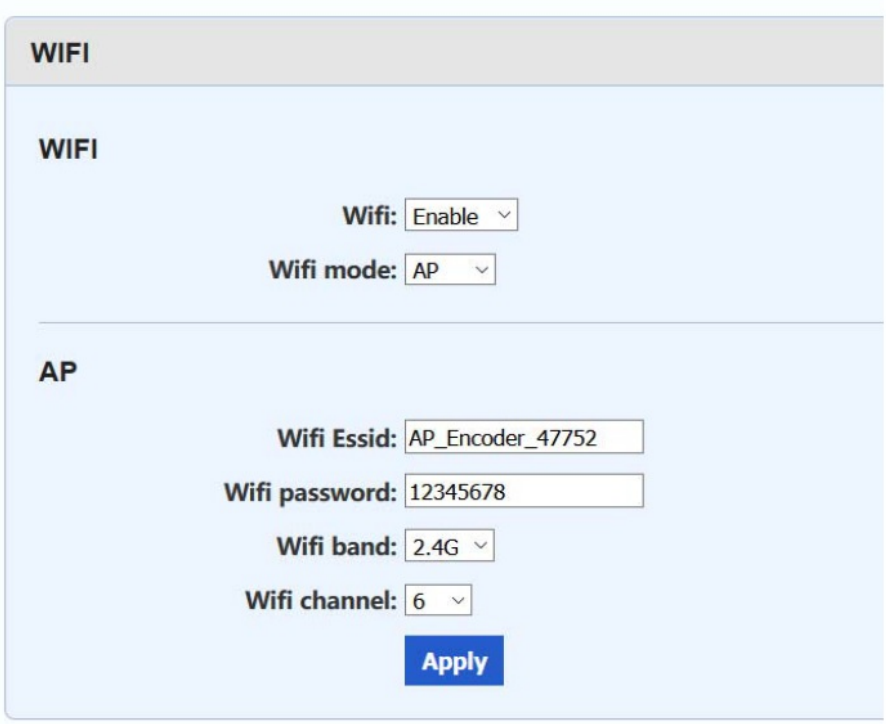
4.1 Ethernet Port



Instructions: in terms of the IP address of the equipment, the factory default is 192.168.1.168. If you forget the IP address after modification, you can reset the equipment by pressing the reset button for 12 seconds when the equipment is powered on and restore the factory default IP.

4.2 WIFI/AP SETTING

4.2.1 AP Mode



AP Access Point mode is the default wireless status.
The default AP name is AP_Encoder_XXXX, you can search hotspot on a smartphone or laptop. The default pass is 12345678.
Wifi band supports 2.4G/5.8G
Wifi channel: if the wireless transmission is jammed, you can try to switch channel

WIFI Status
WIFI SSID: APEncoder47752
WIFI IP: 192.168.8.8
WIFI MAC: 7C:A7:130:35:5C1C
You also can check ap information on the status page.

4.2.2 WIFI Mode

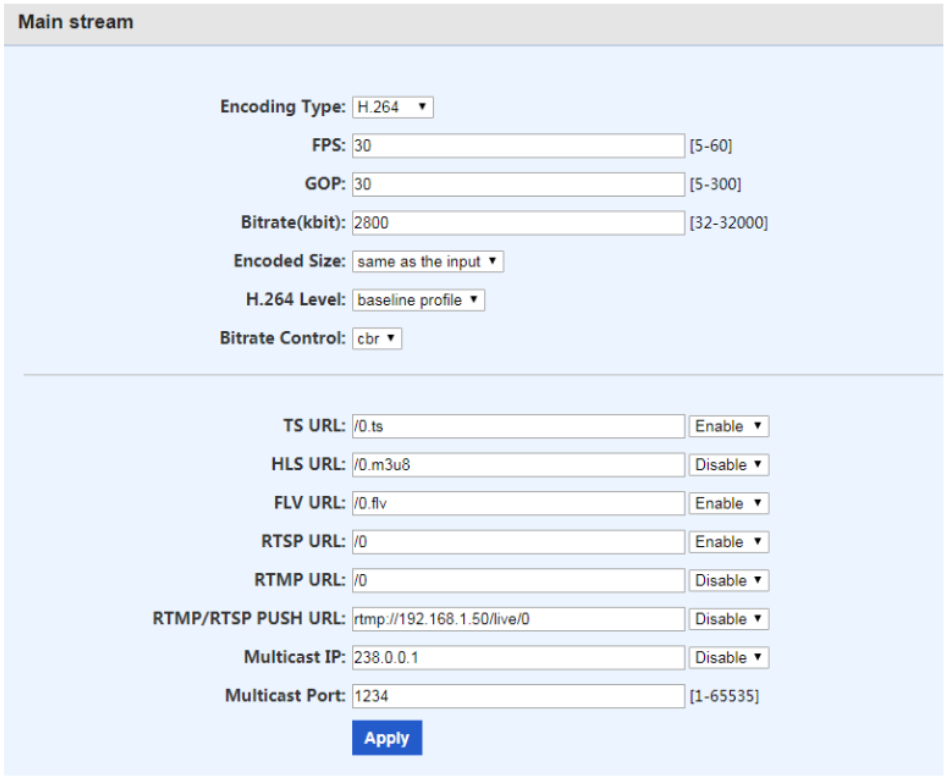
Select WIFI mode, you can click Refresh to scan the hotspot after reboot

Fill correct hotspot name and pass and wifi IP. Click Apply button, reboot
You will check the connection information on the status page.

WIFI Status
WIFI: COMPLETED
WIFI SSID: HUAWEI-040MON_5G
WIFI IP: 192.168.0.168
WIFI MAC: 7C:A7:130:35:5C:1C
WIFI Level: 71%
WIFI Freq: 5.745 GHz
WIFI Max Bit Rate: 270 Mb/s
If the wifi level is under 60%, please check the environment, it is better to visual range away from the router.

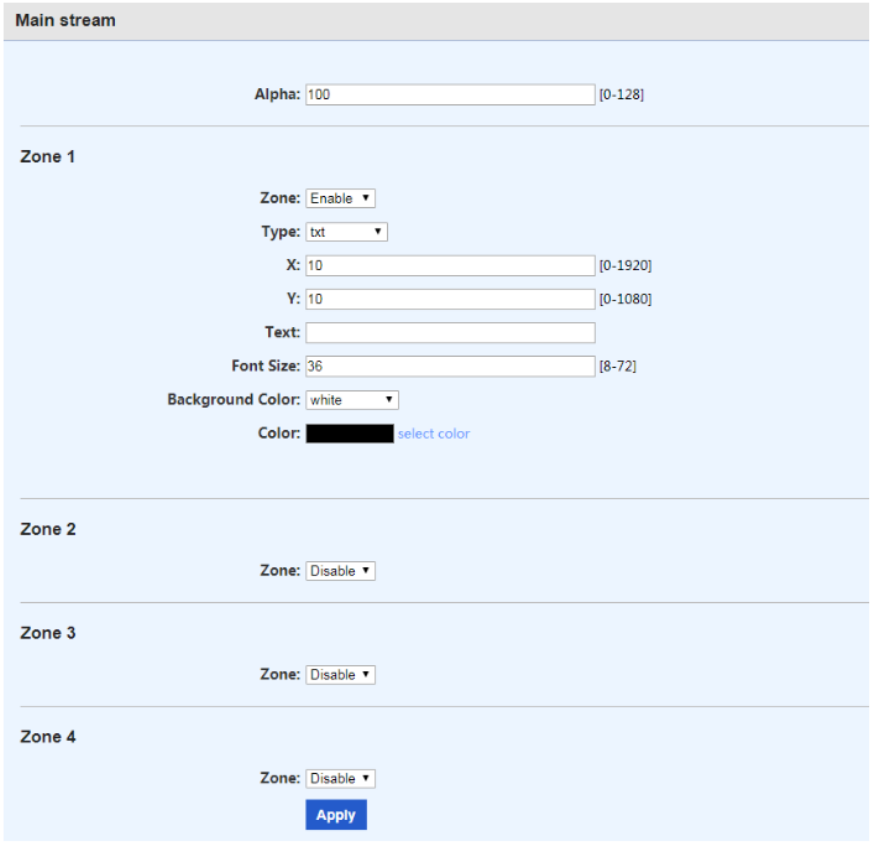
Main Stream Encoding Setting

5.1Encoding Setting of Main Stream



5.1.1 Encoding Type: H.264 or H.265 or Mjpeg
5.1.2 Encode level: baseline profile / main profile / high profile
5.1.3 Encoding frame rate: 5-60 frames **it can output 60p When Input is 60p**)
5.1.4 Bitrate control: VBR(quality priority) and CBR(bandwidth Priority)
5.1.5 GOP: 30
5.1.6 Encoding size: 1920×1080, 1680×1050,1280×720, 1024×576,850×480,720×576, 720×540,720×480,720×404,704×576,640×480,640×360,608×488, 544×480,480×480,480×384,480×360,480×320,480×272,480×720,400×320,400×224,352×480,352×228,320×256,320×240,320×180,240×180,176x 144
5.1.7 Video bit rate: 16-32000K
5.2 Main Stream Protocal Setting
UTP protocol(Private) ,Default address **http://192.168.1.168/0.utp**
HTTP protocol,Default address **http://192.168.1.168/0.ts**
HLS protocol,Default address **http://192.168.1.168/0.m3u8**
FLV protocol,Default address **http://192.168.1.168/0.flv**
RTSP protocol,Default address **rtsp://192.168.1.168/0**

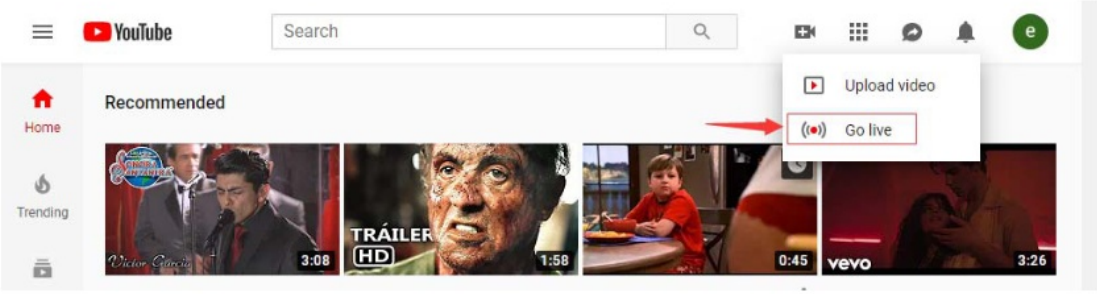
RTMP pull stream address: Default address **rtmp://192.168.1.168/live/0**
default port :1935
RTMP push stream address: rtmp://ip:port/xxx/xxx
or rtmp://user:pass@ip:port/xxx/xxx
RTMP default port: 1935
A multicast protocol, Default address UDP://@238.0.0.1:1234
Unicast protocol, Default address: UDP://@192.168.1.50:1234 **(Note:192.168.1.50** is received device)
5.3 OSD Setting



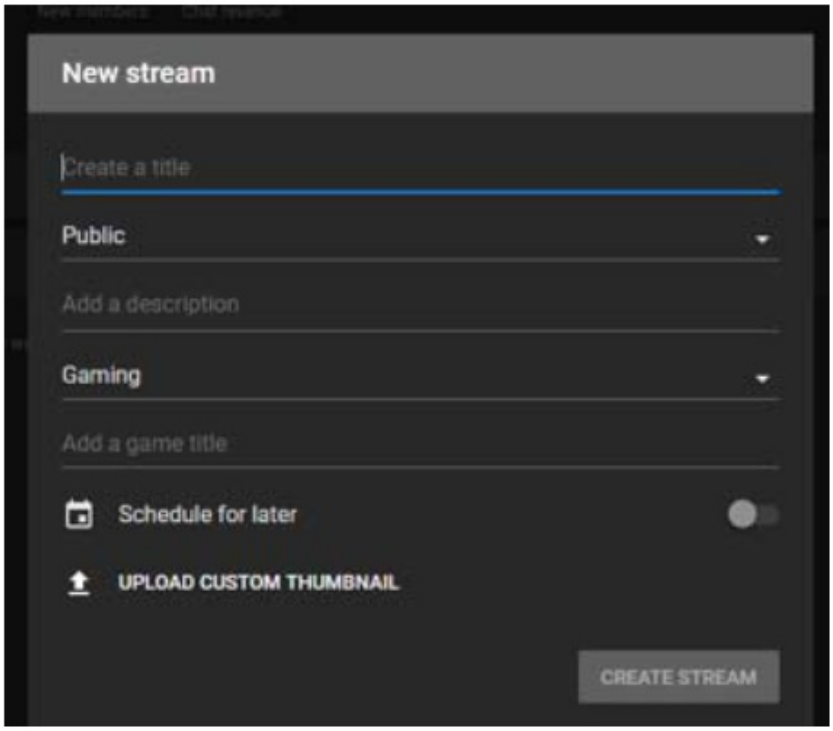
5.3.1 Zone 1-4, you can enable a max of 4 images or text
Text, support English/number Character
Image, support 24bit BMP file ,less than 500KB,transparency color is **R:241 G:241 B:241**
5.3.2 X coordinate: the left and right positions are displayed by 0-1920 text.
Y coordinate: the up and down positions displayed by 0-1080 text.
5.3.3 font: the size of 8-72 text display on the display screen.
5.3.4 Alpha: 0-128 , transparency
5.3.5 Logo: select logo files
5.4 Sub Stream Encoding Setting
Note: the setting method is as same as that of mainstream

Instructions for Youtube Streaming

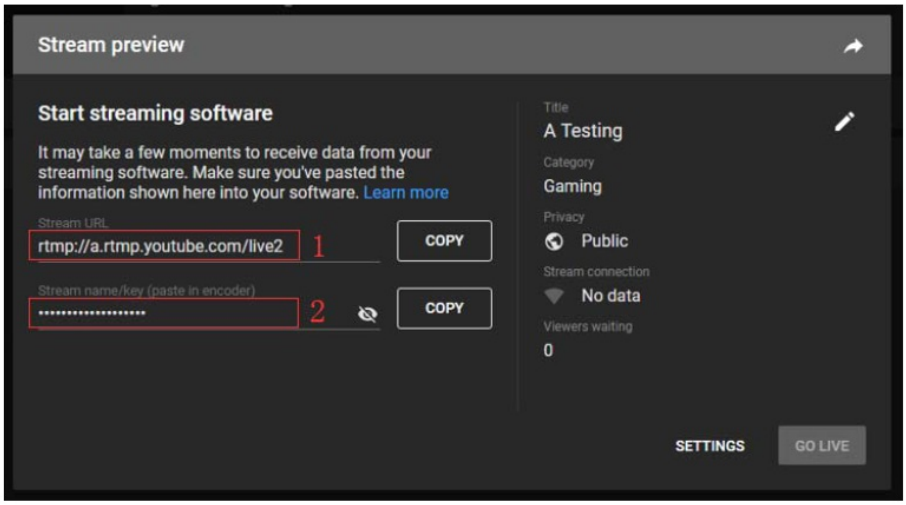
1. Open live streaming page on Youtube



2. Create a live stream channel



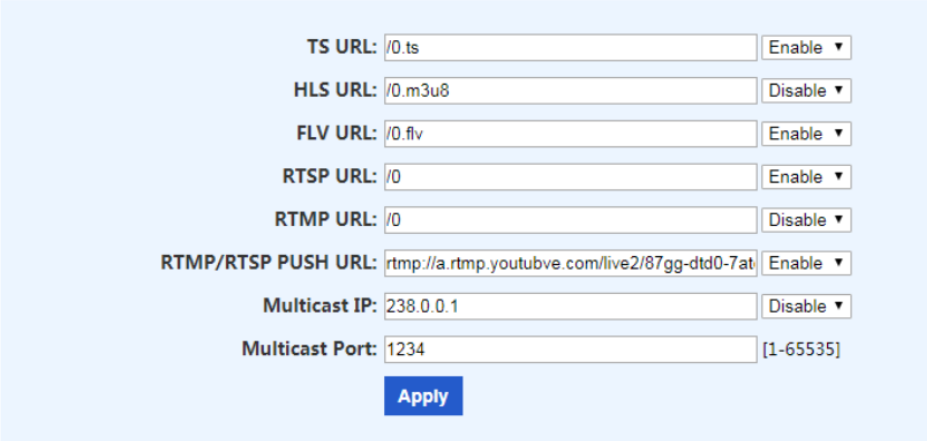
3. Copy RTMP address from Youtube



The whole address(part 1+part 2) is

rtmp://a.rtmp.youtube.com/live2/87gg-dtd0-7atc-8zwu

4. Paste the whole RTMP address into the encoder



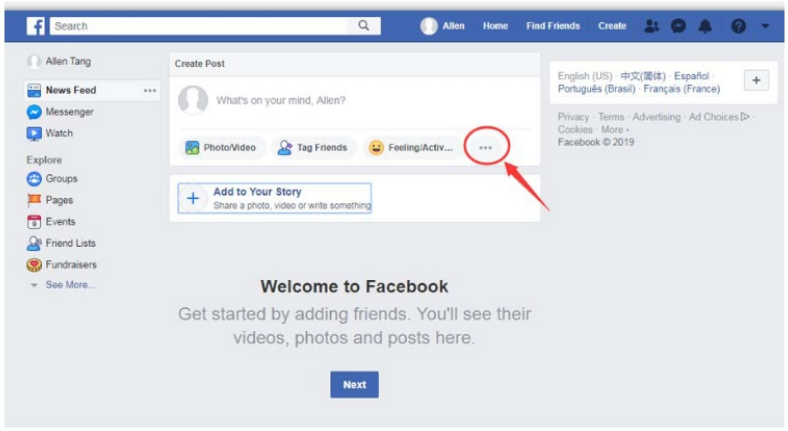
Paste the whole RTMP address

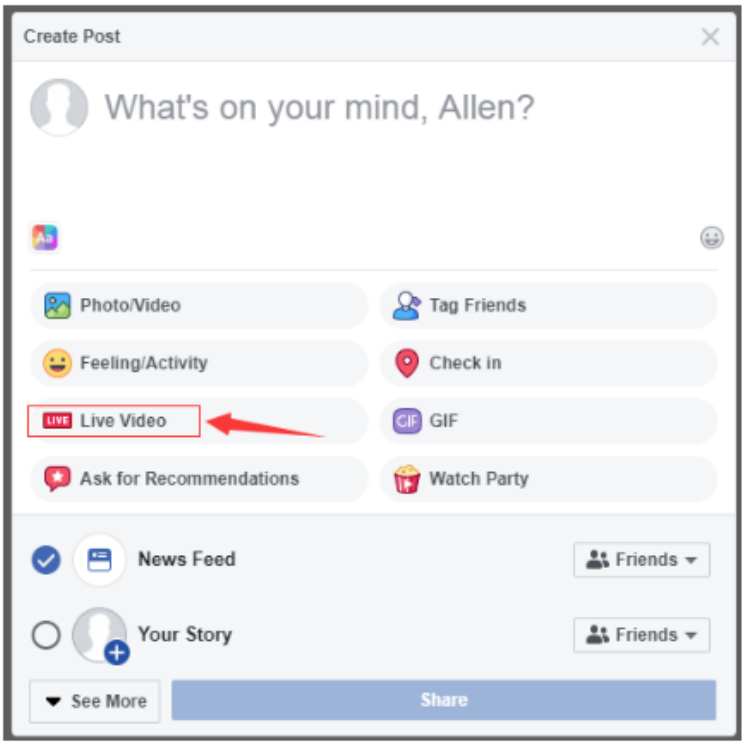
Enable it

Click Apply botton

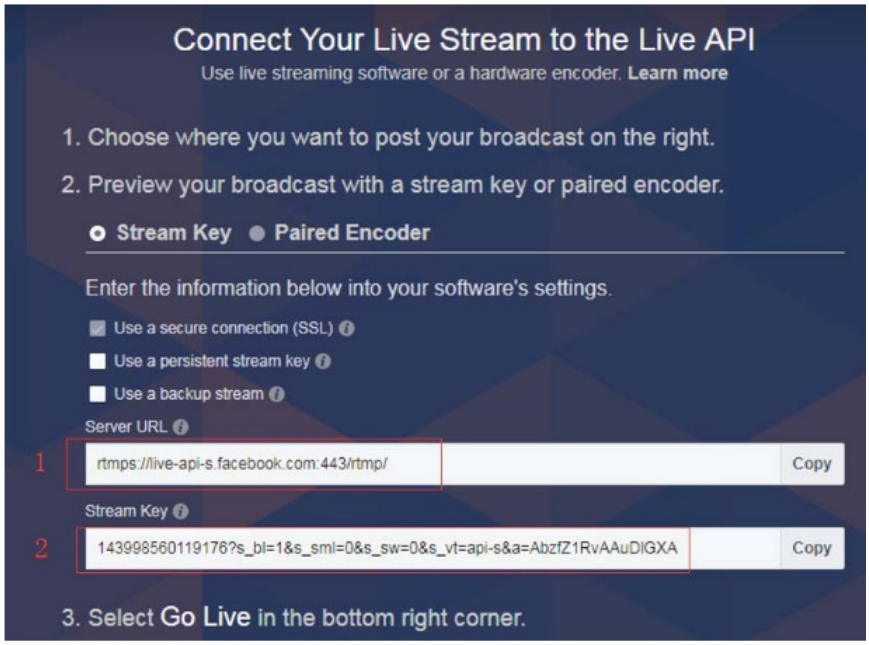
Instructions for Facebook Streaming

1. Open live streaming page on Youtube



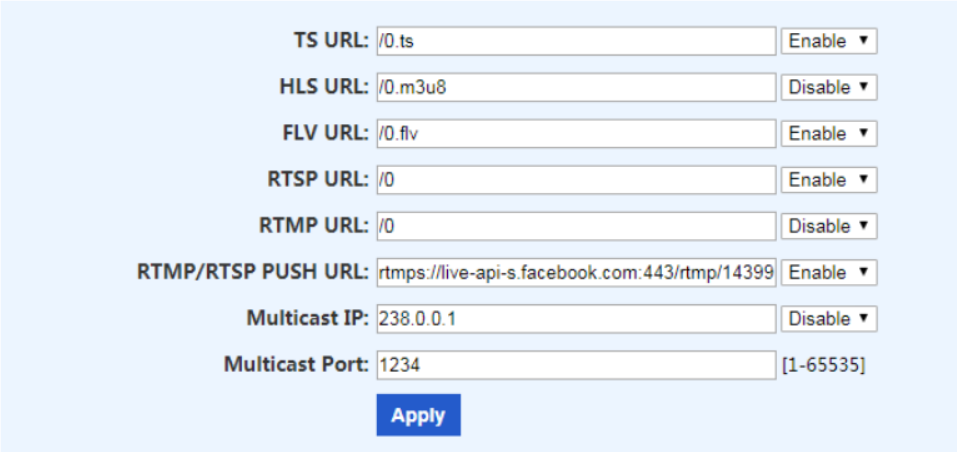


2. Copy RTMP address from Facebook



The whole address(part 1+part 2) is

rtmps://live-api-s.facebook.com:443/rtmp/143998560119176?s_bi=1&…….DlGXA

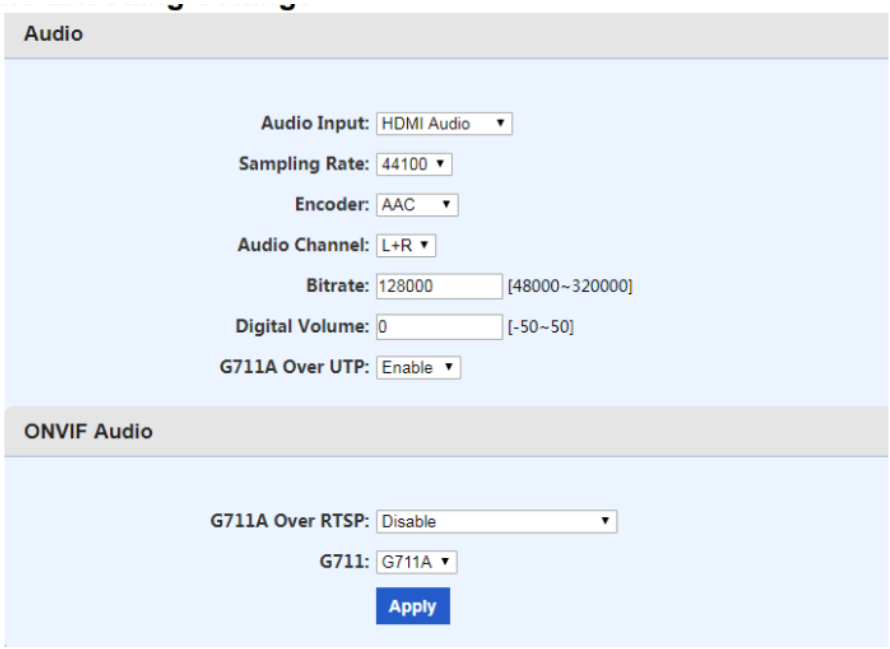


Paste the whole RTMP address

Enable it

Click Apply botton

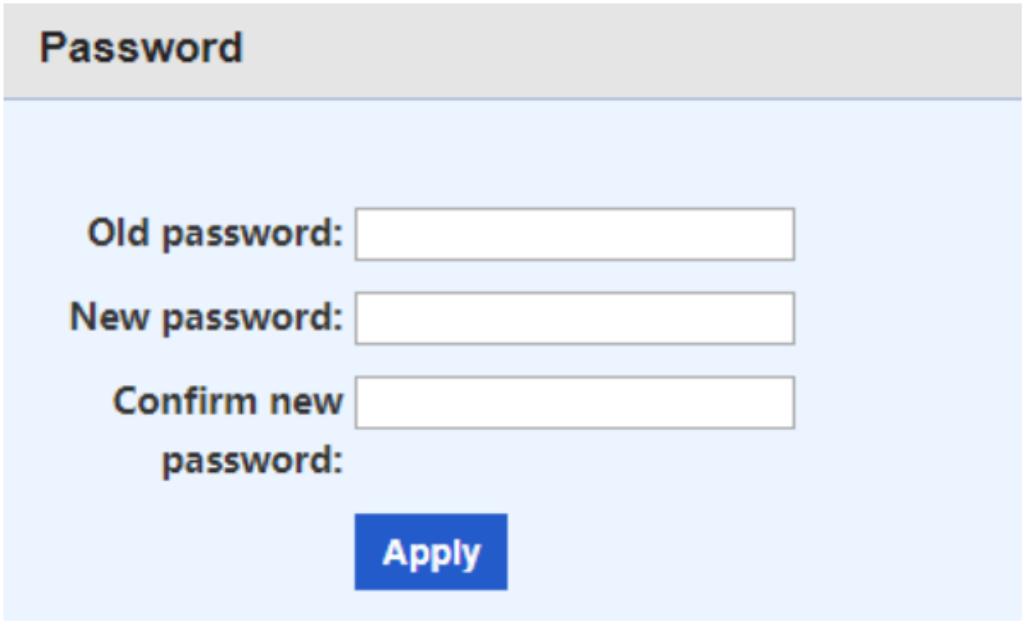
Audio Encoding Settings



Audio Bit rate: 48K, 64K, 96K, 128K, 160K, 192K and 256K
Audio type: AAC,AAC+,MP3, MP2,AC3,G711A,G711U
Audio resample: 44100,48000

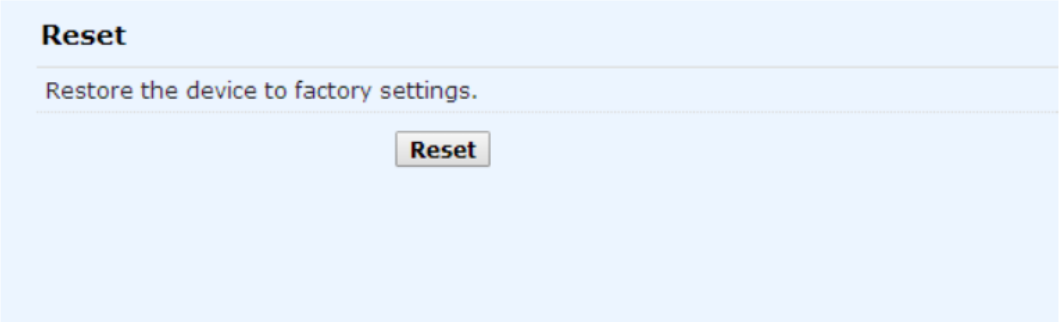
System Settings

9.1 User name and password change



9.2 Software upgrade

9.3 System settings: Device reset and initialization default settings



This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to protect reasonably against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body.

Documents / Resources

	**URayCoder UHE265-1-Mini H.265 HEVC HDMI Video Encoder** [pdf] User Manual ISV-HVCDW5, ISVHVCDW5, 2A7CO-ISV-HVCDW5, 2A7COISVHVCDW5, UHE265-1-Mini H.265 HEVC HDMI Video Encoder, UHE265-1-Mini, H.265 HEVC HDMI Video Encoder