



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

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

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## 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(Green)  
**Video:** Video Signal Light(Blue)

### 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,1920x1080_50/60P,1920x1080_50/60i, 1280x720_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	UDP,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

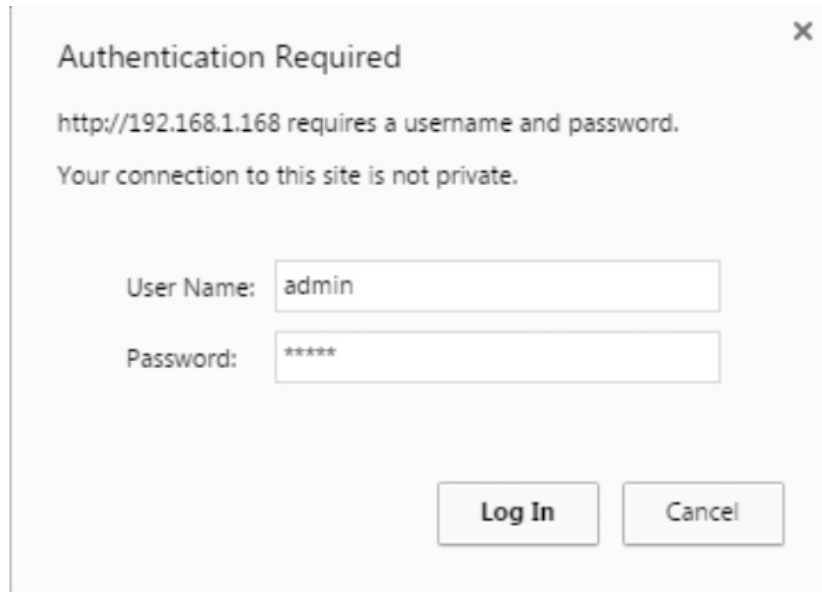
there is an RST hole on the front panel which is used to conduct an initialization reset for the high-definition encoder. When the equipment is powered on, press the button and hold for 12 seconds, when the power light is off, release the button, and all the parameters will be initialized. The initialized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



The image shows a standard Windows Internet Explorer authentication dialog box. The title bar says 'Authentication Required' with a close button (X) in the top right corner. The main text reads: 'http://192.168.1.168 requires a username and password. Your connection to this site is not private.' Below this, there are two input fields: 'User Name:' with the text 'admin' entered, and 'Password:' with '\*\*\*\*\*' entered. At the bottom right, there are two buttons: 'Log In' and 'Cancel'.

### 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:** 1920x1080@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

#### Substream1

**Encoding Type:** H.264

**Encoded Size:** 1280x720@30

**Bitrate(kbit):** 1800

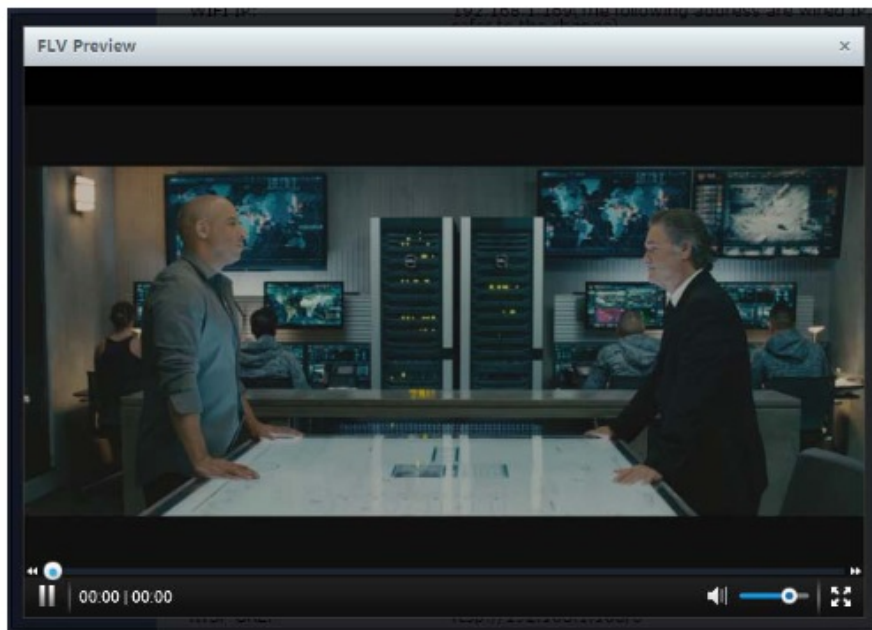
TS URL: <http://192.168.1.168/1.ts>  
HLS URL: <http://192.168.1.168/1.m3u8>  
FLV URL: <http://192.168.1.168/1.flv>  
RTSP URL: <rtsp://192.168.1.168/1>  
RTMP URL: <rtmp://192.168.1.168/live/1>  
RTMP PUSH URL: Disable  
Multicast URL: Disable  
Preview—>Click

### 3.3.4 Preview:

a. Click Preview, and it will play the stream in the browser

### Main Stream

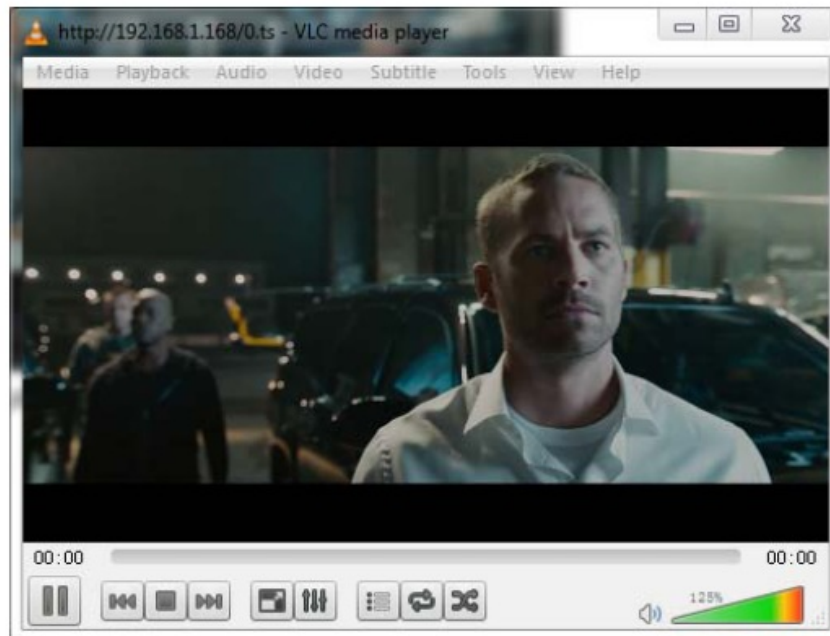
Encoding Type: H.264  
Encoded Size: 1920×1080@30  
Bitrate(kbit): 2800  
TS URL: <http://192.168.1.168/0.ts>  
HLS URL: <http://192.168.1.168/0.m3u8>  
FLV URL: <http://192.168.1.168/0.flv>  
RTSP URL: <rtsp://192.168.1.168/0>  
RTMP URL: Disable  
RTMP PUSH URL(Not Connected): <rtmp://192.168.1.50/live/0>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

**Network**

**LAN**

DHCP: Disable ▾

IP:

Netmask:

Gateway:

MAC:

**DNS**

DNS1:

DNS2:

**NTP**

NTP Enable: Disable ▾

NTP Server:

Time Zone: UTC+8 ▾

**Port**

HTTP Port:  [1-65500]

RTSP Port:  [1-65500]

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

The screenshot shows a web interface for configuring a wireless device. At the top, there's a header 'WIFI'. Below it, the 'WIFI' section contains two dropdown menus: 'Wifi:' set to 'Enable' and 'Wifi mode:' set to 'AP'. A horizontal line separates this from the 'AP' section below. In the 'AP' section, there are five input fields: 'Wifi Essid:' with the value 'AP\_Encoder\_47752', 'Wifi password:' with '12345678', 'Wifi band:' with '2.4G', and 'Wifi channel:' with '6'. At the bottom of the 'AP' section is a blue 'Apply' button.

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

The screenshot shows the same web interface but with 'Wifi mode:' set to 'WIFI'. Below the 'WIFI' section, there's a 'WIFI Main Profile' section. It starts with a 'Wifi List:' dropdown menu showing 'unisheen\_5G(00:5A:13:46:55:1C/46dB/5805MHz)' and a 'Refresh' link. Below this are several input fields: 'Wifi Essid:' with 'unisheen\_5G', 'Wifi password:' with 'UNISHEEN715', 'Wifi DHCP:' with 'Disable', 'Wifi IP:' with '192.168.0.168', 'Wifi netmask:' with '255.255.255.0', and 'Wifi gateway:' with '192.168.0.1'.

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

### 5.1 Encoding Setting of Main Stream

Main stream

Encoding Type: H.264

FPS: 30 [5-60]

GOP: 30 [5-300]

Bitrate(kbit): 2800 [32-32000]

Encoded Size: same as the input

H.264 Level: baseline profile

Bitrate Control: cbr

TS URL: /0.ts Enable

HLS URL: /0.m3u8 Disable

FLV URL: /0.flv Enable

RTSP URL: /0 Enable

RTMP URL: /0 Disable

RTMP/RTSP PUSH URL: rtmp://192.168.1.50/live/0 Disable

Multicast IP: 238.0.0.1 Disable

Multicast Port: 1234 [1-65535]

Apply

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

0×240, 320×180, 240×180, 176×144

5.1.7 Video bit rate: 16-32000K

### 5.2 Main Stream Protocol 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

Main stream

Alpha: 100 [0-128]

Zone 1

Zone: Enable ▾

Type: txt ▾

X: 10 [0-1920]

Y: 10 [0-1080]

Text:

Font Size: 36 [8-72]

Background Color: white ▾

Color:   select color

Zone 2

Zone: Disable ▾

Zone 3

Zone: Disable ▾

Zone 4

Zone: Disable ▾

Apply

**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

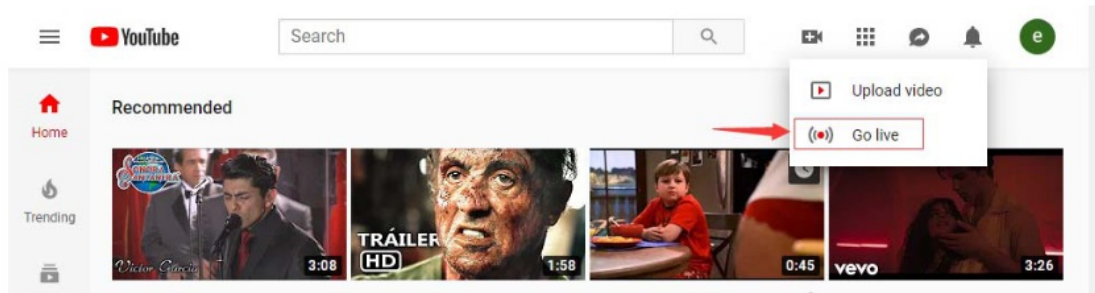
**5.3.5 Logo:** select logo files

### 5.4 Sub Stream Encoding Setting

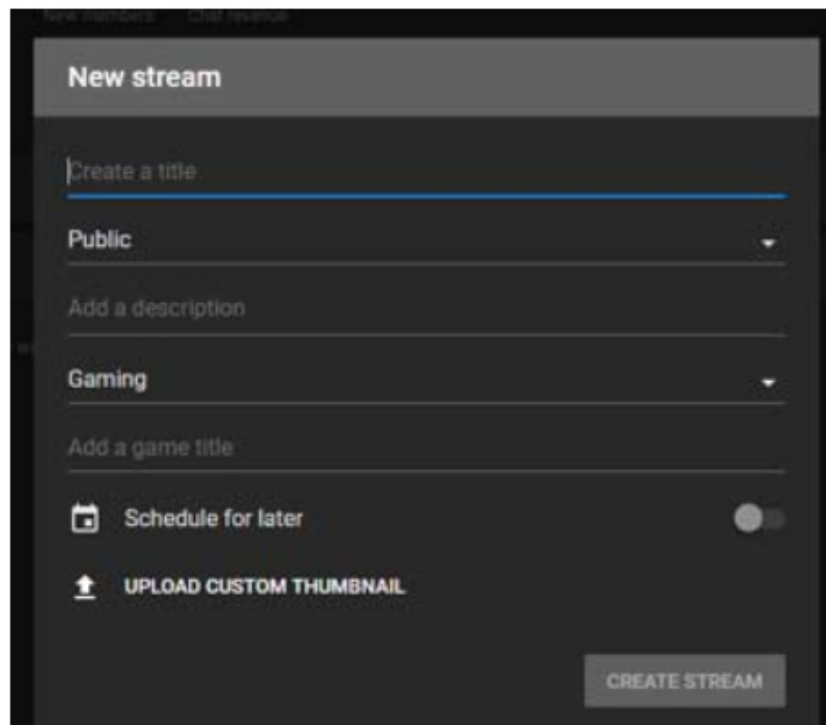
**Note:** the setting method is as same as that of mainstream

## Instructions for Youtube Streaming

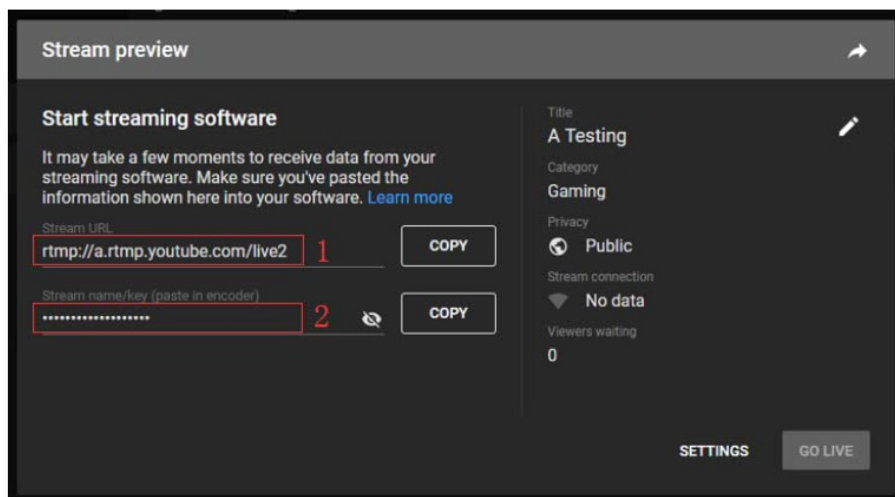
1. Open live streaming page on Youtube



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-8zww>

4. Paste the whole RTMP address into the encoder

TS URL:	/0.ts	Enable ▾
HLS URL:	/0.m3u8	Disable ▾
FLV URL:	/0.flv	Enable ▾
RTSP URL:	/0	Enable ▾
RTMP URL:	/0	Disable ▾
RTMP/RTSP PUSH URL:	rtmp://a.rtmp.youtube.com/live2/87gg-dtd0-7at	Enable ▾
Multicast IP:	238.0.0.1	Disable ▾
Multicast Port:	1234	[1-65535]
<b>Apply</b>		

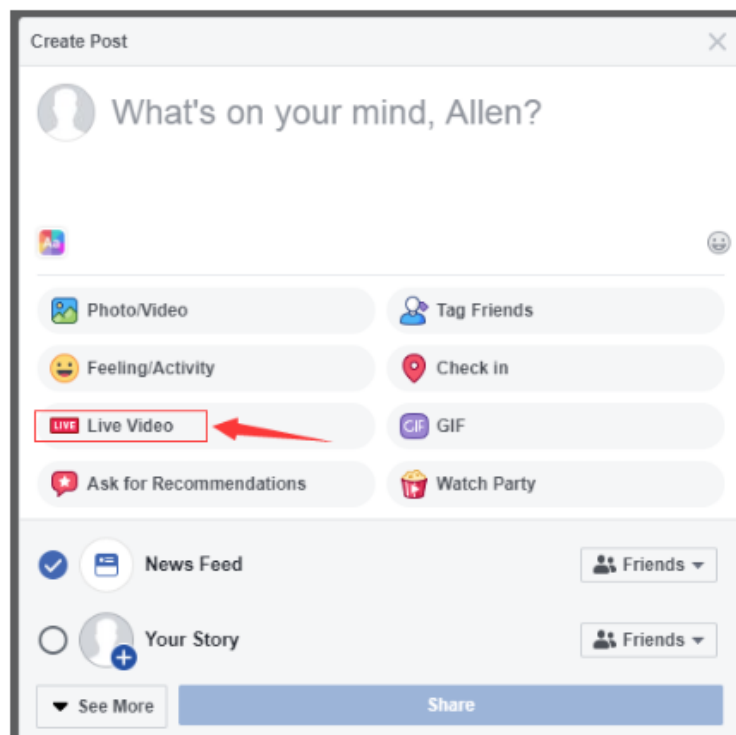
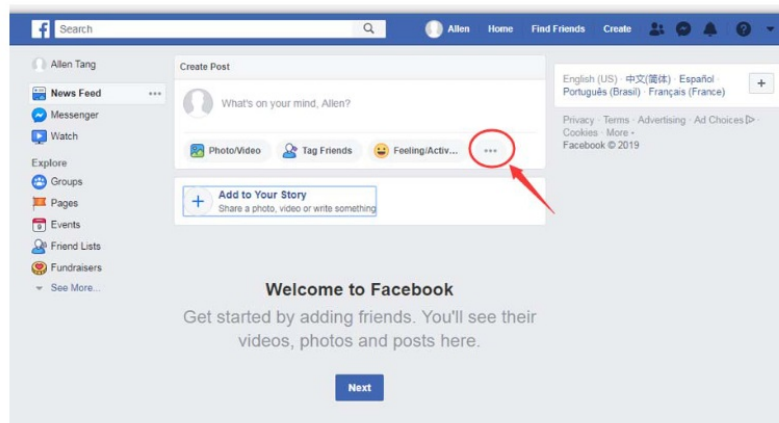
Paste the whole RTMP address

Enable it

Click Apply button

## Instructions for Facebook Streaming

1. Open live streaming page on Youtube



2. Copy RTMP address from Facebook

### Connect Your Live Stream to the Live API

Use live streaming software or a hardware encoder. [Learn more](#)

1. Choose where you want to post your broadcast on the right.
2. Preview your broadcast with a stream key or paired encoder.

☒ Stream Key ☐ Paired Encoder

Enter the information below into your software's settings.

☒ Use a secure connection (SSL) ⓘ

☐ Use a persistent stream key ⓘ

☐ Use a backup stream ⓘ

Server URL ⓘ

1

Stream Key ⓘ

2

3. Select **Go Live** in the bottom right corner.

The whole address(part 1+part 2) is

[rtmps://live-api-s.facebook.com:443/rtmp/143998560119176?s\\_bi=1&.....DIGXA](rtmps://live-api-s.facebook.com:443/rtmp/143998560119176?s_bi=1&.....DIGXA)

TS URL:	<input type="text" value="/0.ts"/>	<input type="button" value="Enable"/> ▼
HLS URL:	<input type="text" value="/0.m3u8"/>	<input type="button" value="Disable"/> ▼
FLV URL:	<input type="text" value="/0.flv"/>	<input type="button" value="Enable"/> ▼
RTSP URL:	<input type="text" value="/0"/>	<input type="button" value="Enable"/> ▼
RTMP URL:	<input type="text" value="/0"/>	<input type="button" value="Disable"/> ▼
RTMP/RTSP PUSH URL:	<input type="text" value="rtmps://live-api-s.facebook.com:443/rtmp/14399"/>	<input type="button" value="Enable"/> ▼
Multicast IP:	<input type="text" value="238.0.0.1"/>	<input type="button" value="Disable"/> ▼
Multicast Port:	<input type="text" value="1234"/>	[1-65535]

Paste the whole RTMP address

Enable it

Click Apply button

## Audio Encoding Settings

**Audio**

Audio Input: HDMI Audio ▼

Sampling Rate: 44100 ▼

Encoder: AAC ▼

Audio Channel: L+R ▼

Bitrate: 128000 [48000~320000]

Digital Volume: 0 [-50~50]

G711A Over UTP: Enable ▼

**ONVIF Audio**

G711A Over RTSP: Disable ▼

G711: G711A ▼

Apply

**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

**Password**

Old password:

New password:

Confirm new password:

Apply

### 9.2 Software upgrade

Language: English ▾

Version : 3.34

**Upgrade:** (Upgrade file name is up.bin.Please don't upload by different people at the same time,don't power off or refresh the page during upload.)

Upload

### 9.3 System settings: Device reset and initialization default settings

**Reset**

Restore the device to factory settings.

Reset

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

<div>H.265 HEVC H.264 AVC MPSE4</div> <div>FHD Video Audio Live Encoder</div> <div>Manual</div> <div></div>	<div><a href="#">URayCoder UHE265-1-Mini H.265 HEVC HDMI Video Encoder</a> [pdf] User Manual</div> <div>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</div>
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