



V1.1
USER MANUAL



4K 60Hz (4:4:4) Input, 1080P 60Hz Output IPTV H264 Encoder
with Audio Input & POE
JTD-3219 | JTECH-ENCH4AP

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Scan the QR code below or visit
<https://www.jtechdigital.com/product/3219>
to view and access detailed digital
resources regarding this unit.



Safety Instructions:

- Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:
- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do not place the product near heat sources like radiators, heat registers, stove, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

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Dear Customer

Thank you for purchasing the JTECH-ENCH4AP. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

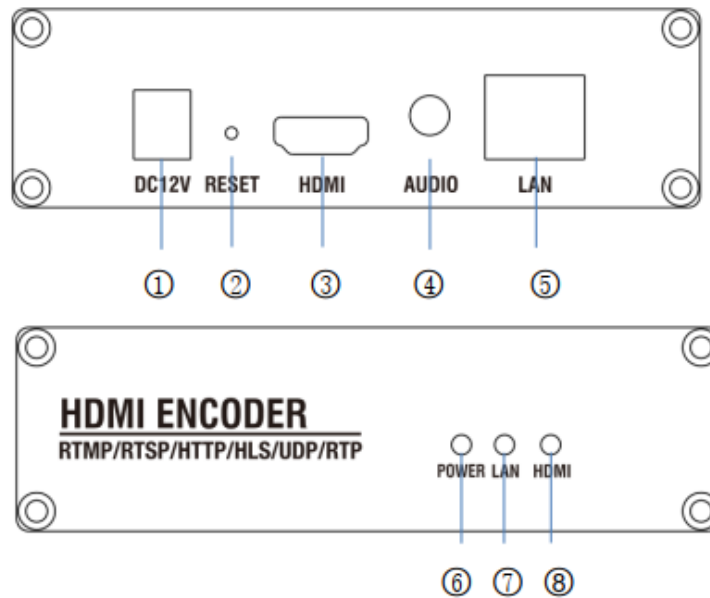
1. Features

- Supports H.265 | H.264 | MJPEG Encoding
- Supports up to 4K@60Hz (4:4:4) Input and 1080P@60Hz Output
- Supports Audio Input
- Supports HDMI Input
- Supports UDP, HTTP, RTSP, RTMP, SRT, HLS, FLV, ONVIF Protocols
- Supports MPEG1 Audio Layer 2
- CBR/VBR Rate: 32Kbps~32Mbps
- 100M Network Interface (full duplex mode)
- Supports Image Parameter Settings
- Supports Remote Management in WAN (webGUI)
- Supports Customized Resolution Settings
- Support Power over Ethernet (PoE)

2. Package Contents

- (1) x J-Tech Digital JTECH-ENCH4AP Encoder
- (1) x Power Adapter DC12V 1A
- (1) x User Manual

3. Hardware Description



- ① Power Input Port ③ Reset Button ⑤ LAN Output Port and PoE ⑦ LAN Output Indicator
② HDMI Input Port ④ Audio Input Port ⑥ Power Input Indicator ⑧ HDMI Input Indicator

Note: **1** Reset to Factory Default Settings: press & hold "Reset" for 10 seconds until all three indicators go out.

2 LAN: Default IP is **192.168.1.168**

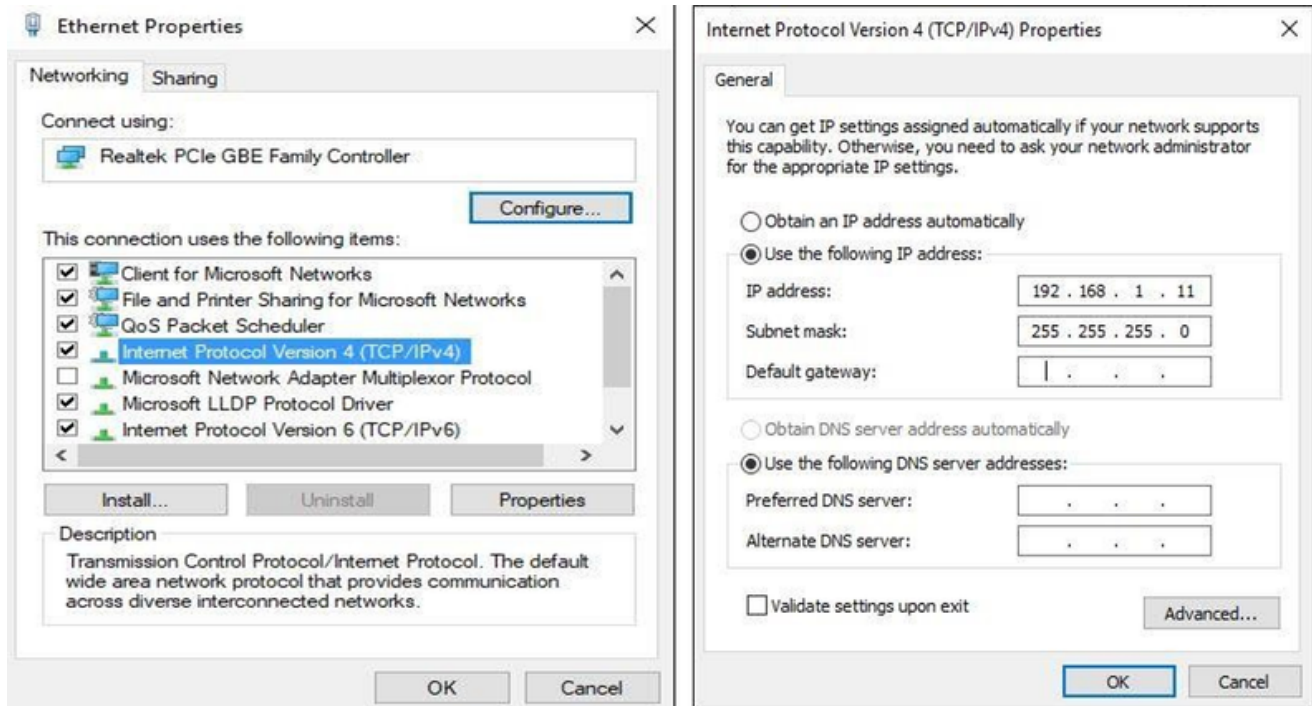
4. Typical Application



5. Connection Configuration

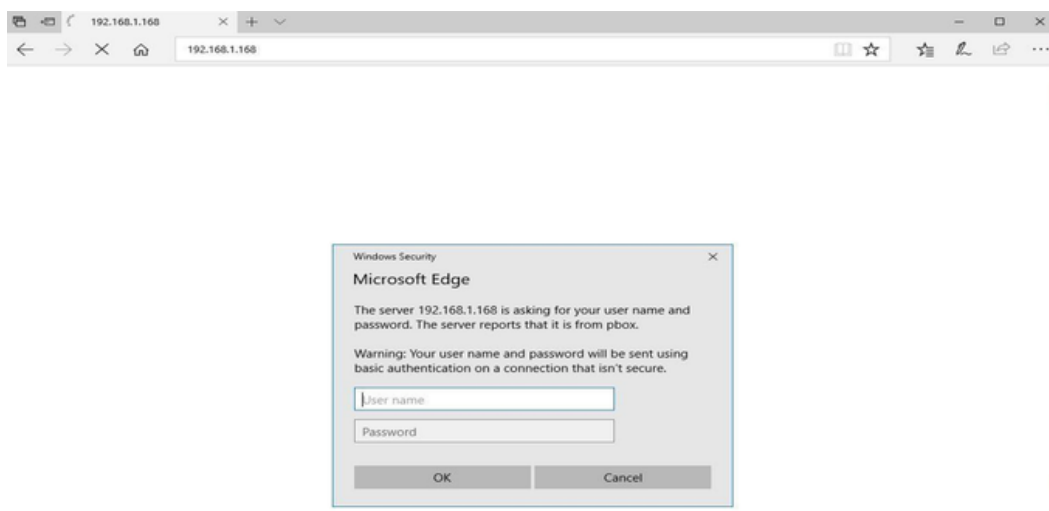
5.1 Change the IP Address of PC

Assign the PC (or laptop) an IP address. On a Windows PC: Press the **Win + R** on your keyboard → Enter “**control netconnections**” in the run box and press enter → Right click on your wired ethernet adapter → Select “**Properties**” → Double click “**Internet Protocol Version 4 (TCP/IPv4)**” → Enter the IP address with 192.168.1.11 (0-255) and Subnet mask 255.255.255.0. Press OK twice to save the configuration.



5.2 Login for Configuration

Enter the unit's IP address (192.168.1.168) in your browser's address bar, to open the web GUI. Login with the default credentials, **User Name – admin | Password – admin**



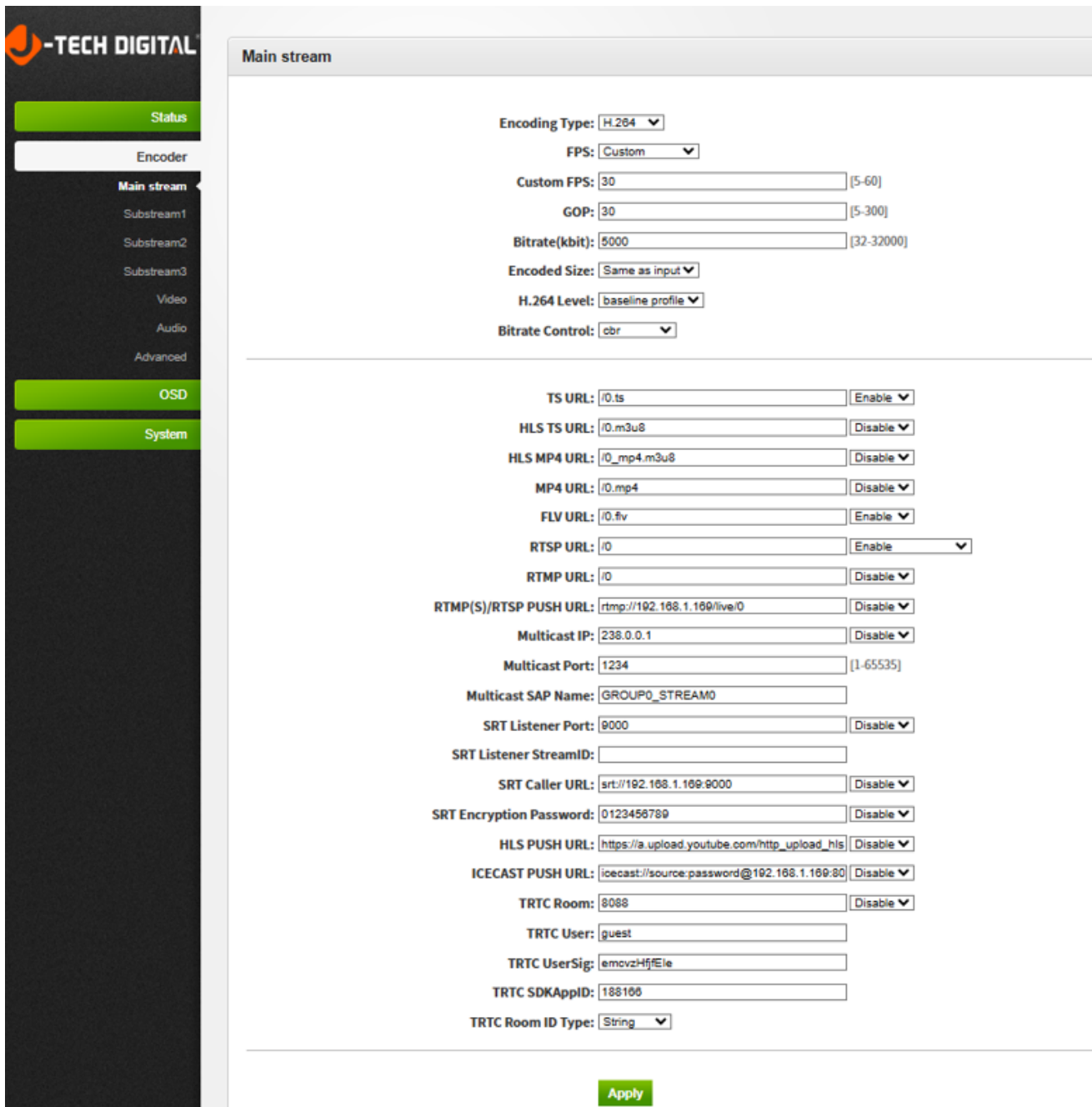
5.3 Check the Stream Address

Stream addresses populate in the “Main Stream” category of the encoders web GUI.

6. Encoder Setting

6.1 Encoder Setting

Click “Encoder” setting → “Main stream” → Configure your settings → Click Apply



The screenshot displays the web interface for configuring an encoder. On the left is a dark sidebar with the logo and a menu containing: Status, Encoder, Main stream (highlighted), Substream1, Substream2, Substream3, Video, Audio, and Advanced. Below the menu are three green buttons: OSD and System. The main content area is titled "Main stream" and contains two sections of settings. The top section, separated by a horizontal line, includes: Encoding Type (H.264), FPS (Custom), Custom FPS (30), GOP (30), Bitrate(kbit) (5000), Encoded Size (Same as input), H.264 Level (baseline profile), and Bitrate Control (cbr). The bottom section includes various streaming URLs and ports, each with an "Enable" or "Disable" dropdown: TS URL (/0.ts), HLS TS URL (/0.m3u8), HLS MP4 URL (/0_mp4.m3u8), MP4 URL (/0.mp4), FLV URL (/0.flv), RTSP URL (/0), RTMP URL (/0), RTMP(S)/RTSP PUSH URL (rtmp://192.168.1.169/live/0), Multicast IP (238.0.0.1), Multicast Port (1234), Multicast SAP Name (GROUP0_STREAM0), SRT Listener Port (9000), SRT Listener StreamID (empty), SRT Caller URL (srt://192.168.1.169:9000), SRT Encryption Password (0123456789), HLS PUSH URL (https://a.upload.youtube.com/http_upload_hls), ICECAST PUSH URL (icecast://source:password@192.168.1.169:80), TRTC Room (8088), TRTC User (guest), TRTC UserSig (emovzHffELe), TRTC SDKAppID (188100), and TRTC Room ID Type (String). A green "Apply" button is located at the bottom center of the settings area.

Main stream

Encoding Type:

FPS:

Custom FPS: [5-60]

GOP: [5-300]

Bitrate(kbit): [32-32000]

Encoded Size:

H.264 Level:

Bitrate Control:

TS URL:

HLS TS URL:

HLS MP4 URL:

MP4 URL:

FLV URL:

RTSP URL:

RTMP URL:

RTMP(S)/RTSP PUSH URL:

Multicast IP:

Multicast Port: [1-65535]

Multicast SAP Name:

SRT Listener Port:

SRT Listener StreamID:

SRT Caller URL:

SRT Encryption Password:

HLS PUSH URL:

ICECAST PUSH URL:

TRTC Room:

TRTC User:

TRTC UserSig:

TRTC SDKAppID:

TRTC Room ID Type:

6.2 Audio Setting

Audio from HDMI Port: Click “Encoder” → “Audio” → Select “HDMI” from the drop-down menu for Audio Input → Click “Apply”

ONVIF Audio

Audio

Audio Input: **HDMI** ▼

Sampling Rate: Same as input sample rate ▼

Encoder: AAC ▼

Audio Channel: L+R ▼

Bitrate: 128000 [48000~320000]

Analog Volume Gain: 10 [-78~80]

Digital Volume Gain: 0 [-50~50]

Denoise: Disable ▼

Denoise(dB): 15 [1~100]

G711 Over PTE: Enable ▼

ONVIF Audio

G711 Over RTSP: Disable ▼

G711: G711A ▼

Apply

Audio from the 3.5mm audio port: Click “Encoder” → “Audio” → Select “ANALOG” from the drop-down menu for Audio Input → Click “Apply”

iVMS-4000

Encoder

- Main stream
- Substream1
- Substream2
- Substream3
- Video
- Audio**
- Advanced

OSD

System

Audio

Audio Input: **ANALOG** ▼

Sampling Rate: Same as input sample rate ▼

Encoder: AAC ▼

Audio Channel: L+R ▼

Bitrate: 128000 [48000~320000]

Analog Volume Gain: 10 [-78~80]

Digital Volume Gain: 0 [-50~50]

Denoise: Disable ▼

Denoise(dB): 15 [1~100]

G711 Over PTE: Enable ▼

ONVIF Audio

G711 Over RTSP: Disable ▼

G711: G711A ▼

Apply

6.3 Advanced

Click “Encoder” → “Advanced” → Configure your settings → Click “Apply”

i-TECH DIGITAL

Advanced

EDID: 0.Default(1080P60) ▼

Gamut: BT709 ▼

Color Range: TV ▼

Video Only: Disable ▼

Audio Only: Disable ▼

No Video Restart Stream: Enable ▼

AV Sync Strategy: Resample ▼

No Signal: Display Picture ▼

Record Type: MP4 ▼

Cycle Record: Enable ▼

Record Splitter Time(s): 1800 [60-7200]

Deinterlaced: Field combination(Weaving) ▼

Audio Delay(ms): 0 [-2000,2000]

Hls Splitter Time(s): 10 [3-20]

Hls Number: 5 [3-20]

HLS Index Address: /index.m3u8

TS Muxer: Compatible with FFmpeg ▼

Net Drop Threshold: 5000 [50-50000]

TS Once Pack: 7 [1-128]

TS/RTSP Password Enable: Disable ▼

HTTP No Password: Disable ▼

Telnet Service: LAN Enable ▼

Onvif Service: Enable ▼

RTSP Default Stream: Main Stream ▼

Vmix Compatible: Disable ▼

TS Over RTSP: ES ▼

Multicast Type: UDP ▼

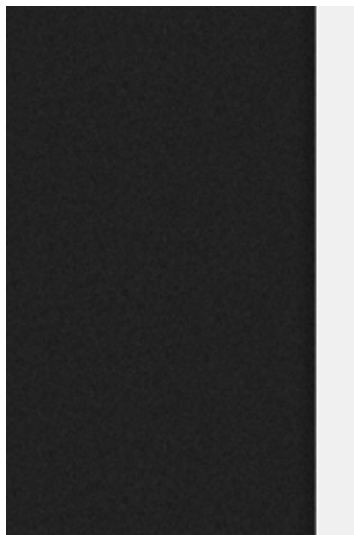
Enable SAP: Enable ▼

Slice Split Enable: Disable ▼

Slice Size: 1024 [128-65535]

MIN_QP: 5 [1-35]

MAX_QP: 42 [MIN_QP-50]



SAR(H.264 Only): ▼

MTU Size: [500-1500]

UDP TTL: [1-254]

UDP SOCKET_BUF_SIZE: [0-20971520]

Contrast improve: [0-63]

Image enhance: [0-16]

Y space filter: [0-255]

Y time filter: [0-63]

C space filter: [0-255]

C time filter: [0-32]

7. OSD Setting

7.1 Streaming OSD Setting

Click “OSD” → Configure your settings → Click “Apply”

**-TECH DIGITAL**

Status

Encoder

OSD

Main stream

Substream1

Substream2

Substream3

LOGO Upload

System

Main stream

Alpha: [0-255]

Zone 1

Zone: ▼

Type: ▼

X: [0-1920]

Y: [0-1080]

Text:

Font Size: [8-72]

Background Color: ▼

Color: select color

Zone 2

Zone: ▼

Zone 3

Zone: ▼

Zone 4

Zone: ▼

7.2 Logo Uploading

“LOGO upload” → Choose a bmp file that matches the requirements → Click “Apply”

The screenshot shows the 'LOGO Upload' section of the i-TECH DIGITAL web interface. On the left is a sidebar with navigation links: Status, Encoder, OSD, Main stream, Substream1, Substream2, Substream3, LOGO Upload (highlighted), and System. The main content area has a title 'LOGO Upload'. Below it, there is a 'LOGO:' label followed by a file selection button '选择文件' and the text '未选择文件'. A detailed instruction states: 'Please upload PNG or 24-bit BMP(0xF1F1 is transparent) pictures less than 500 kByte, the file name is logo1.bmp/logo2.bmp/logo3.bmp/logo4.bmp, or logo1.png/logo2.png/logo3.png/logo4.png'. At the bottom of this section is a green 'Upload' button.

※ Note: The above interface screenshot examples may show a difference with actual operation interface due to software upgrades. All screenshots are for reference only.

8. System

8.1 Network

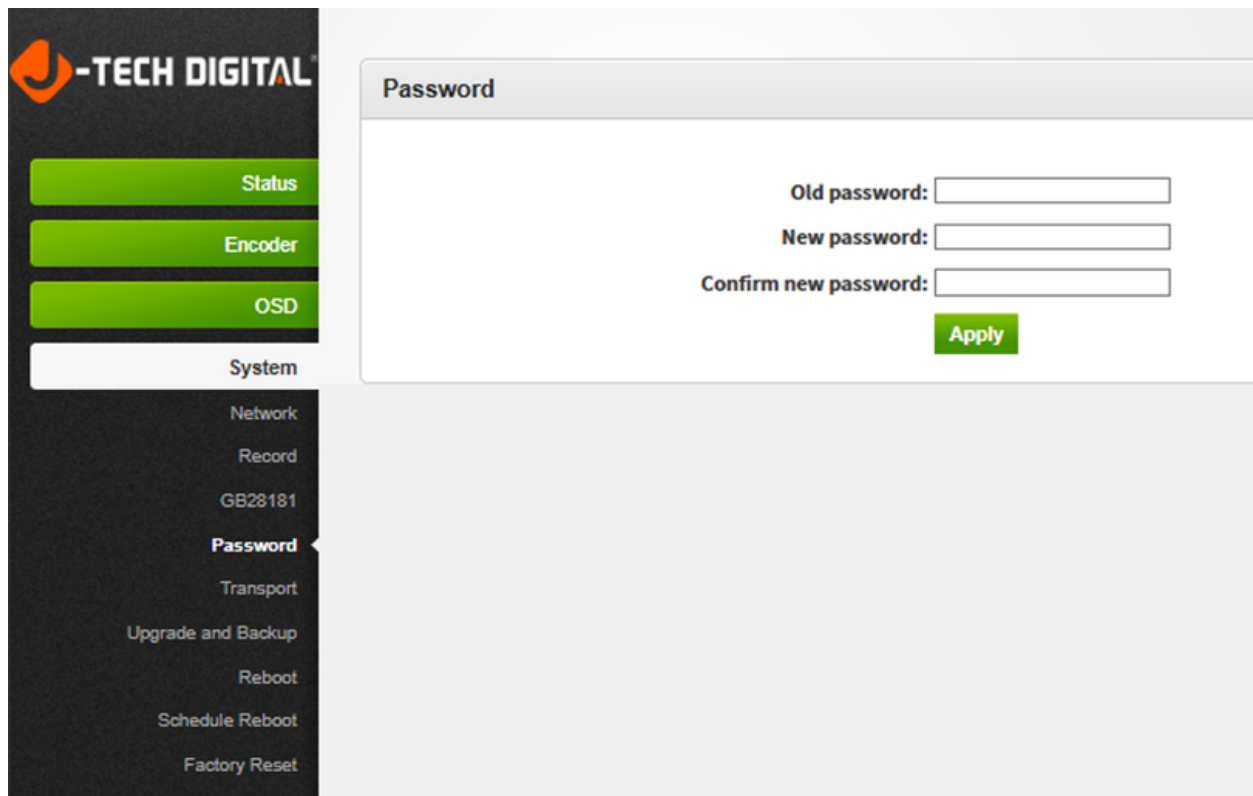
Click System → Network → Modify the network settings to match those of your network

Click apply. **Note: Please change your DNS server to use Google's DNS servers. (Provided in the picture below.)**

The screenshot shows the 'Network' configuration page in the i-TECH DIGITAL web interface. The sidebar on the left includes links for Status, Encoder, OSD, System, Network (highlighted), Record, OSD1/81, Password, Transport, Upgrade and Backup, Reboot, Schedule Reboot, and Factory Reset. The main content area is titled 'Network' and contains several sections: LAN, DNS, NTP, Port, HTTPS, and HOSTNAME. The LAN section includes fields for DHCP (set to 'enable'), IP (192.168.1.188), Netmask (255.255.255.0), LAN Gateway (192.168.1.1), and MAC (00:13:14:04:D8:2E). The DNS section has fields for DNS1 (8.8.8.8) and DNS2 (192.168.1.1). The NTP section includes NTP (set to 'enable'), NTP Server (time.windows.com), and Time Zone (UTC+8). The Port section has fields for HTTP Port (8088) and RTSP Port (5554). The HTTPS section includes HTTPS (set to 'enable'), HTTPS Port (8443), HTTPS Private Pass (empty), and an 'Upload Certificate File' button with a file selection button '选择文件' and the text '未选择文件'. Below this are links for 'Upload Certs' and 'Delete Certs'. The HOSTNAME section includes fields for HOSTNAME (i-mcode-55342), mDNS (set to 'enable'), and mDNS URL (i-mcode-55342.local). At the bottom of the page is a green 'apply' button.

8.2 Change Password

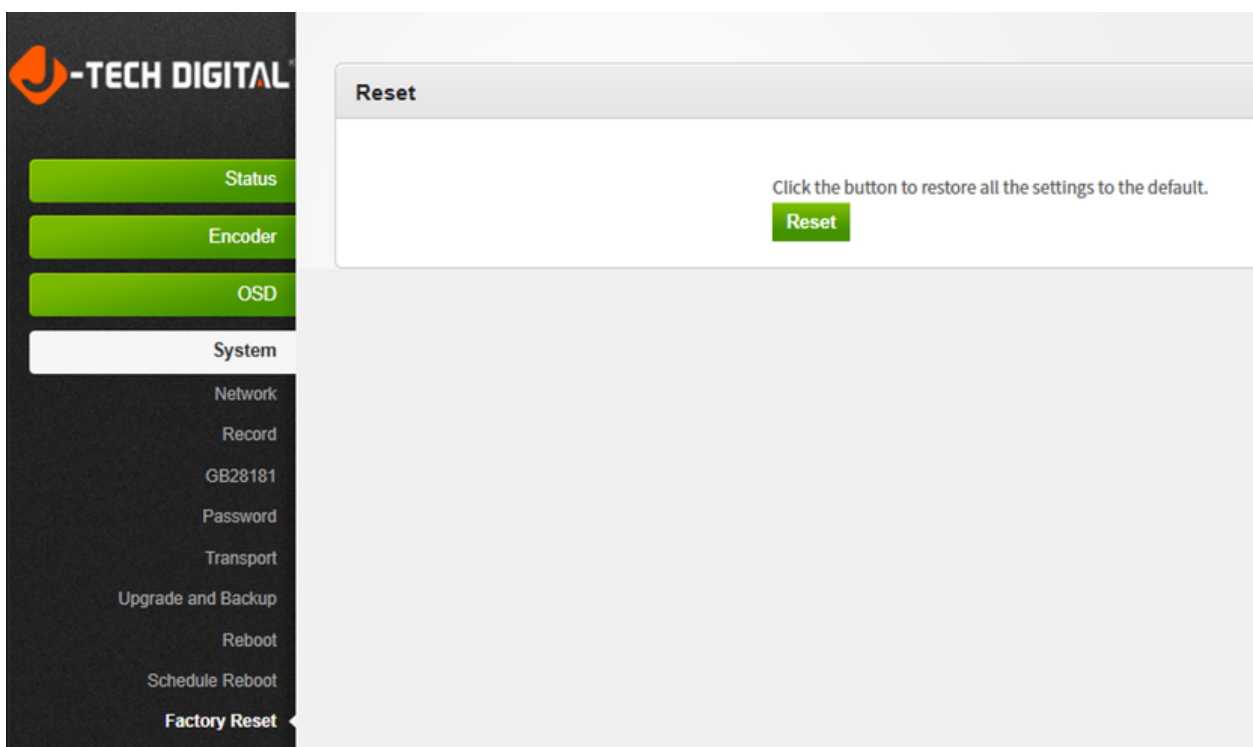
System → Change password → Set your password → Apply



The screenshot shows the -TECH DIGITAL web interface. On the left is a dark sidebar with a logo at the top and a list of menu items: Status, Encoder, OSD, System, Network, Record, GB28181, Password, Transport, Upgrade and Backup, Reboot, Schedule Reboot, and Factory Reset. The 'System' menu item is highlighted. The main content area has a header 'Password' and contains three input fields labeled 'Old password:', 'New password:', and 'Confirm new password:'. Below these fields is a green 'Apply' button.

8.3 Reset

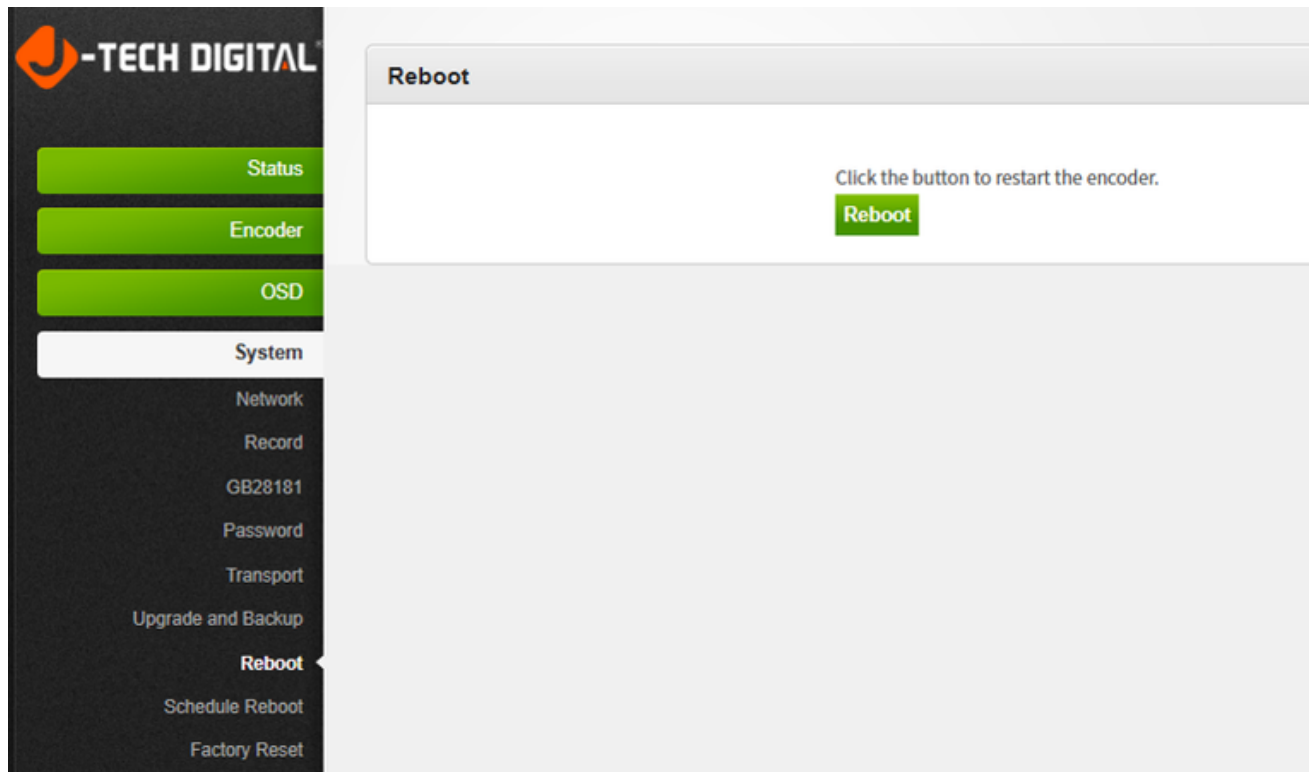
System → Factory Reset → Reset **Note: This will set your device to the factory defaults.**



The screenshot shows the -TECH DIGITAL web interface. On the left is a dark sidebar with a logo at the top and a list of menu items: Status, Encoder, OSD, System, Network, Record, GB28181, Password, Transport, Upgrade and Backup, Reboot, Schedule Reboot, and Factory Reset. The 'Factory Reset' menu item is highlighted. The main content area has a header 'Reset' and contains a text instruction: 'Click the button to restore all the settings to the default.' Below this text is a green 'Reset' button.

8.4 Reboot

System → Reboot → Reboot (please refresh the web page after 1 minute)



9. Application

9.1 User Application Example

9.1.1 Web Video Preview

Status → Main Stream → Preview

Note: For Internet Explorer, you can get preview window directly.

For Chrome, you must install an extension called "Native HLS Playback" to get the preview window.

Status

Encoder

OSD

System

Status

Status

Running Time: 0000-00-00 00:51:43
Device Time: 2018-03-22 23:14:05 (Sync Time To Device)
CPU Usage: 2%
CPU Junction Temperature: 45°C
Memory Usage: 23.3M/61.7M
Input Size: 1920x1080p@0
Collected Video Frames: 0
Lost Video Frames: 0
Audio Samplerate: 48000
Collected Audio Frames: 0
Net Packet Sent: 331 (Network connectivity test)
Net Packet Dropped: 0

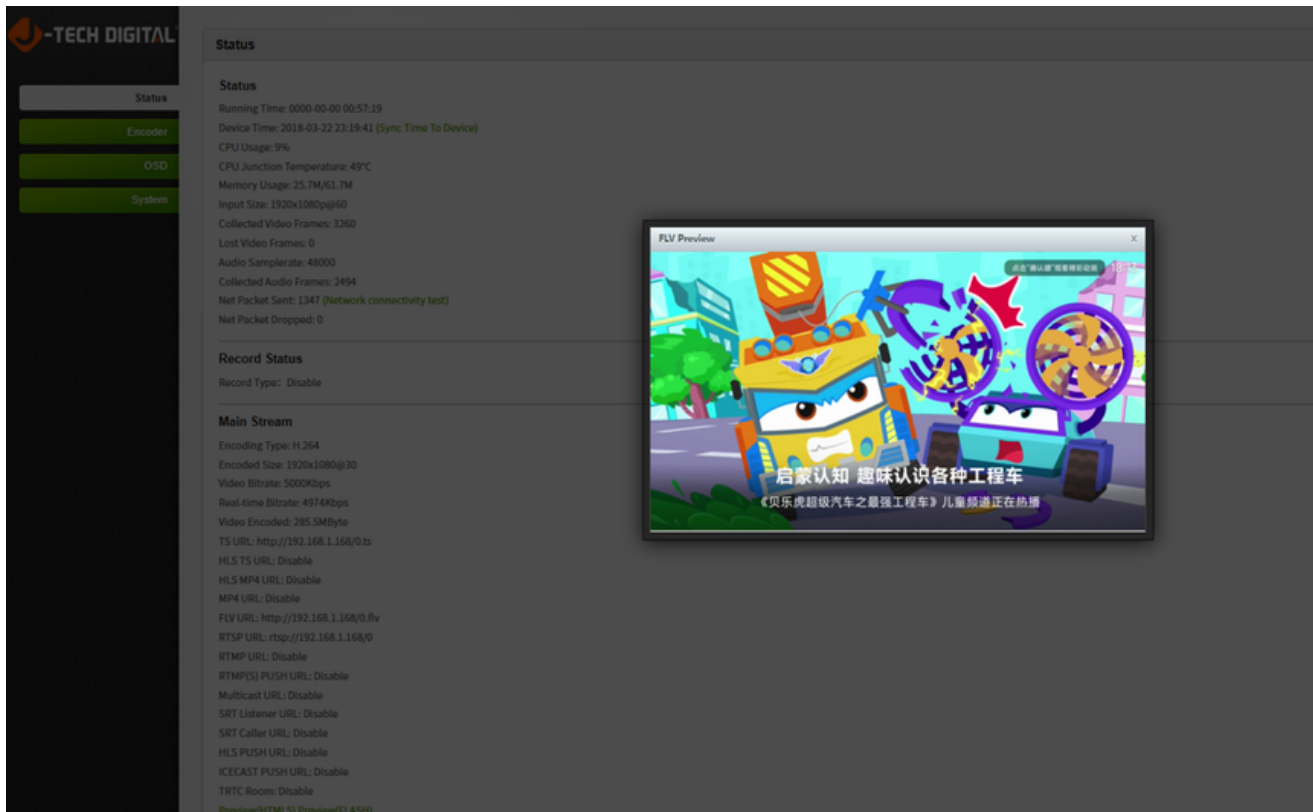
Record Status

Record Type: Disable

Main Stream

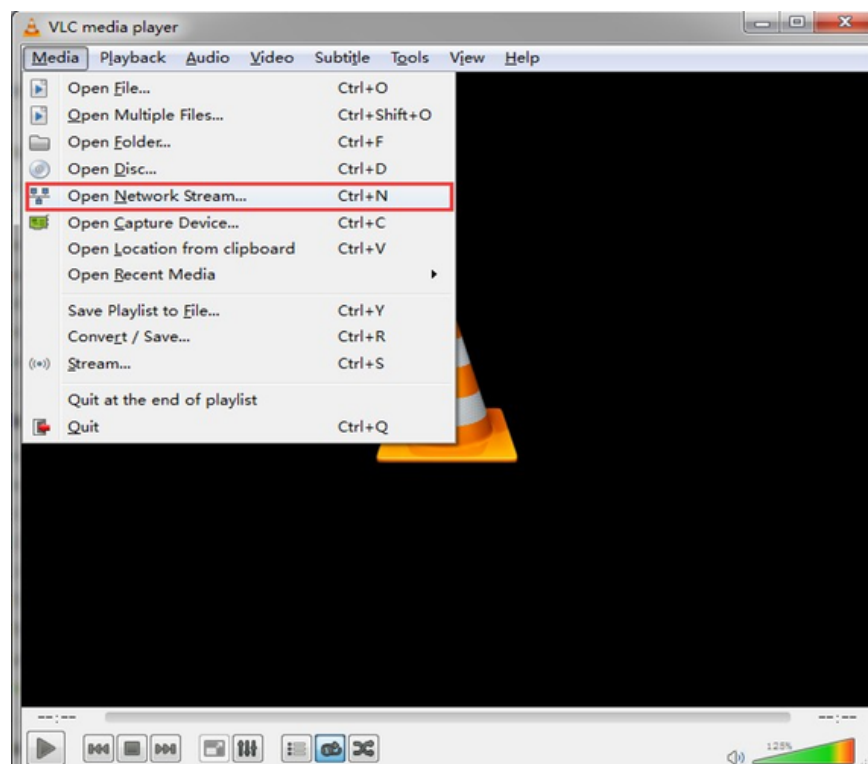
Encoding Type: H.264
Encoded Size: 1920x1080@30
Video Bitrate: 5000Kbps
Real-time Bitrate: 460Kbps
Video Encoded: 220.0MByte
TS URL: http://192.168.1.168/0.ts
HLS TS URL: Disable
HLS MP4 URL: Disable
MP4 URL: Disable
FLV URL: http://192.168.1.168/0.flv
RTSP URL: rtsp://192.168.1.168/0
RTMP URL: Disable
RTMP(S) PUSH URL: Disable
Multicast URL: Disable
SRT Listener URL: Disable
SRT Caller URL: Disable
HLS PUSH URL: Disable
ICECAST PUSH URL: Disable
RTTC Room: Disable
Preview(HTML5) Preview(FLASH)

Picture below shows the stream preview

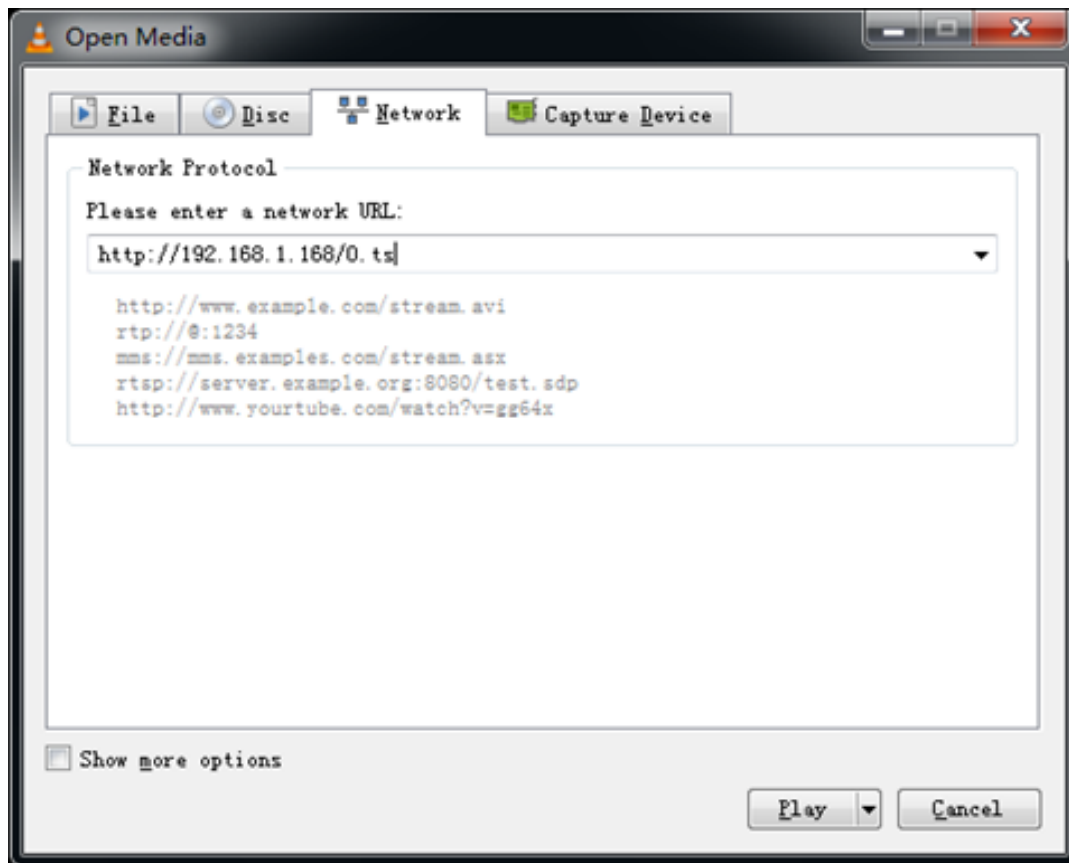


9.1.2 VLC

Connect an HDMI source to the JTECH-ENCH4AP encoder. Open VLC media player (Download link: <http://www.videolan.org/>), Click “Media”, then click “Open Network Stream”.



Enter the Stream URL from the page of “Main stream”, click “Play”. **Note: Please make sure that the stream type you choose is enabled in the encoder.**

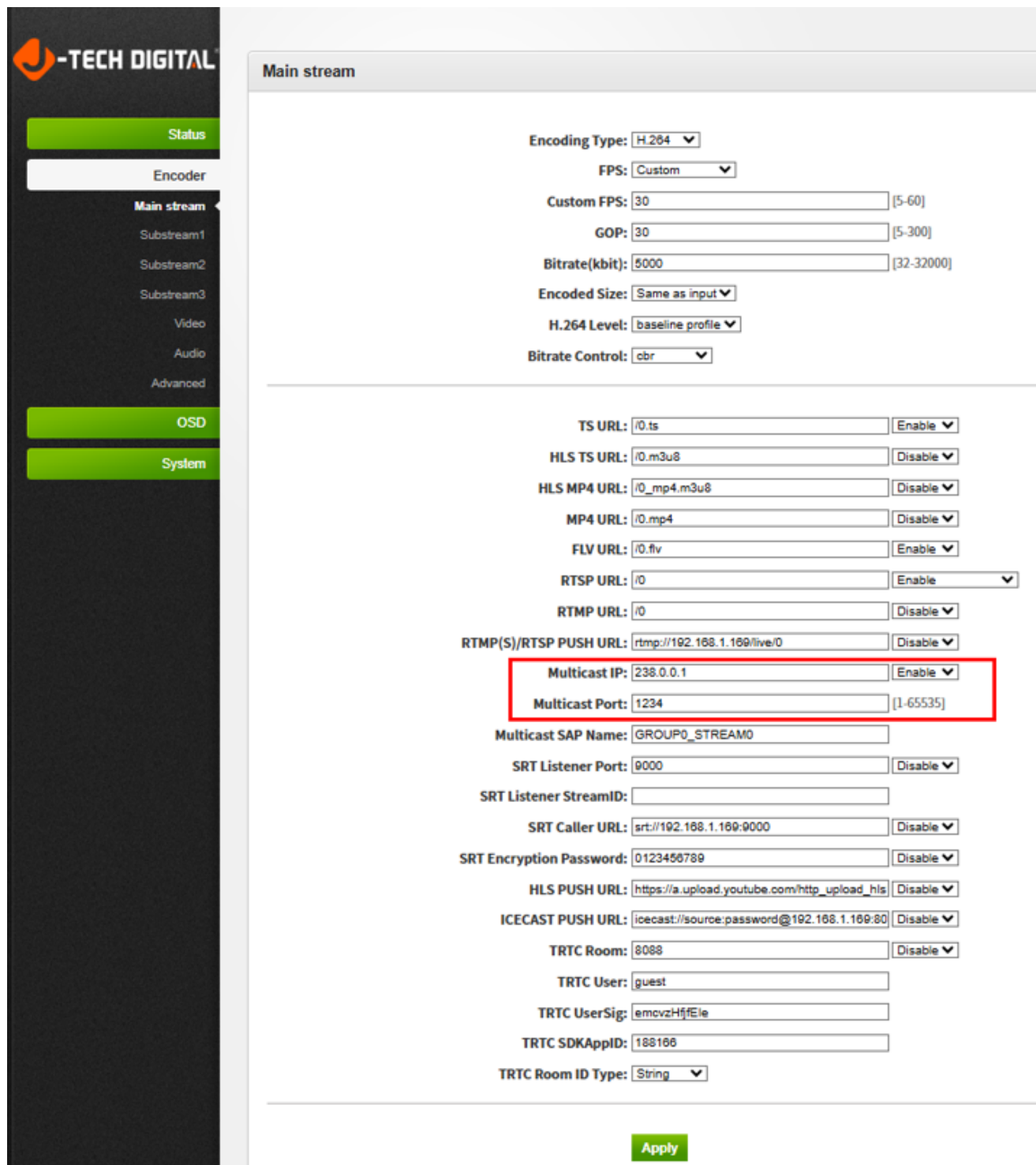


VLC Example:



9.2 Multi Local User Application - Multicast

If more than one local user needs to stream the video of the encoder simultaneously, you may enable multicast IP, then reboot the JTECH-ENCH4AV2 encoder.



The screenshot displays the JTECH DIGITAL encoder web interface. On the left is a dark sidebar with navigation links: Status, Encoder, Main stream (selected), Substream1, Substream2, Substream3, Video, Audio, and Advanced. Below these are OSD and System buttons. The main content area is titled 'Main stream' and contains various configuration settings. The 'Encoding Type' is set to H.264, FPS to Custom (30), GOP to 30, Bitrate to 5000, Encoded Size to Same as input, H.264 Level to baseline profile, and Bitrate Control to cbr. Below these are sections for output URLs: TS URL (/0.ts), HLS TS URL (/0.m3u8), HLS MP4 URL (/0_mp4.m3u8), MP4 URL (/0.mp4), FLV URL (/0.flv), RTSP URL (/0), and RTMP URL (/0). The 'RTMP(S)/RTSP PUSH URL' is set to rtmp://192.168.1.169/live/0. The 'Multicast IP' is set to 238.0.0.1 and 'Multicast Port' to 1234, both highlighted with a red box. Other settings include Multicast SAP Name (GROUP0_STREAM0), SRT Listener Port (9000), SRT Listener StreamID, SRT Caller URL (srt://192.168.1.169:9000), SRT Encryption Password (0123456789), HLS PUSH URL (https://a.upload.youtube.com/http_upload_hls), ICECAST PUSH URL (icecast://source:password@192.168.1.169:80), TRTC Room (8088), TRTC User (guest), TRTC UserSig (emcvzHfIEle), TRTC SDKAppID (188166), and TRTC Room ID Type (String). An 'Apply' button is at the bottom right.

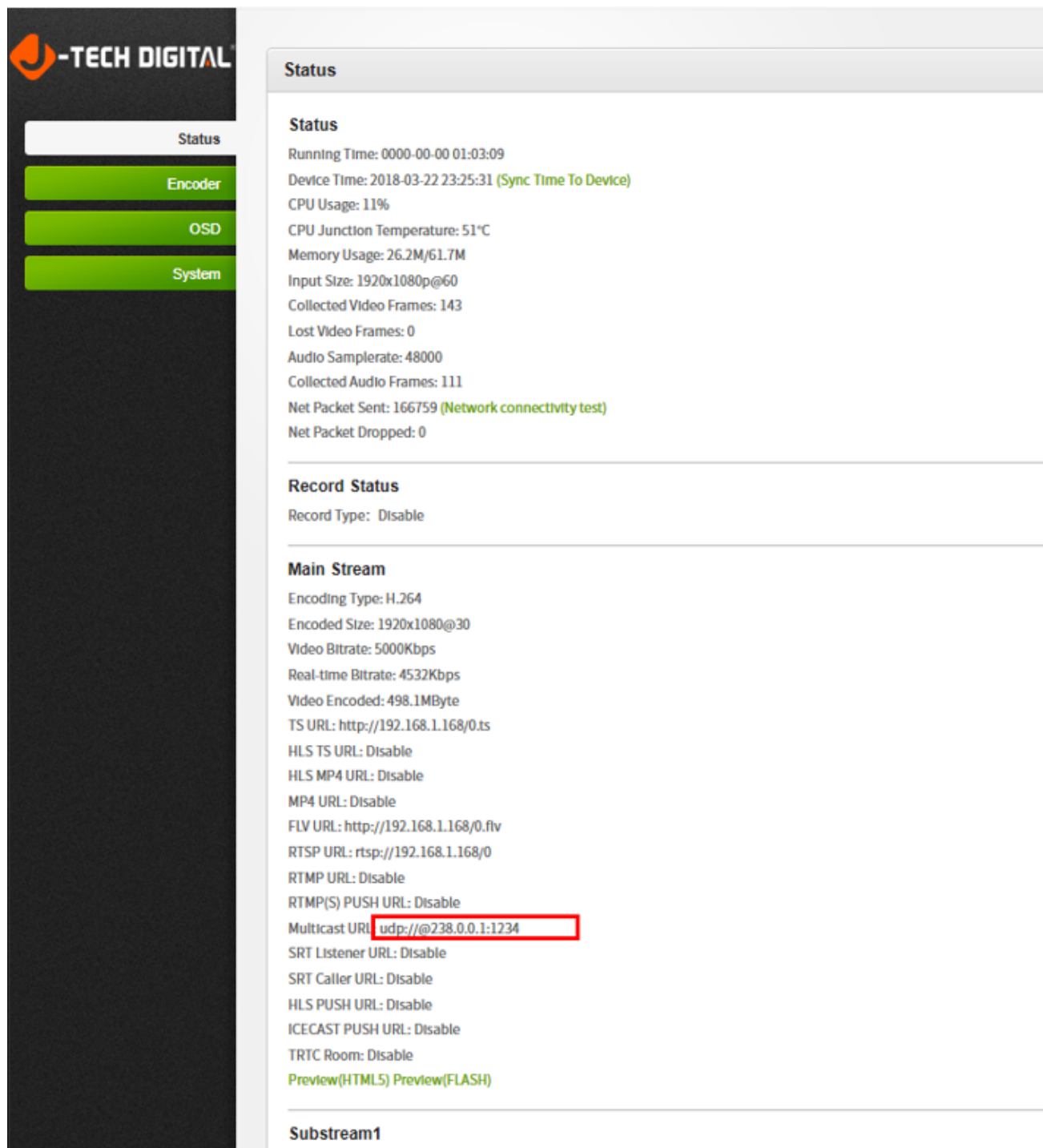
Main stream

Encoding Type: H.264 ▼
FPS: Custom ▼
Custom FPS: 30 [5-60]
GOP: 30 [5-300]
Bitrate(kbit): 5000 [32-32000]
Encoded Size: Same as input ▼
H.264 Level: baseline profile ▼
Bitrate Control: cbr ▼

TS URL: /0.ts [Enable ▼]
HLS TS URL: /0.m3u8 [Disable ▼]
HLS MP4 URL: /0_mp4.m3u8 [Disable ▼]
MP4 URL: /0.mp4 [Disable ▼]
FLV URL: /0.flv [Enable ▼]
RTSP URL: /0 [Enable ▼]
RTMP URL: /0 [Disable ▼]
RTMP(S)/RTSP PUSH URL: rtmp://192.168.1.169/live/0 [Disable ▼]
Multicast IP: 238.0.0.1 [Enable ▼]
Multicast Port: 1234 [1-65535]
Multicast SAP Name: GROUP0_STREAM0
SRT Listener Port: 9000 [Disable ▼]
SRT Listener StreamID:
SRT Caller URL: srt://192.168.1.169:9000 [Disable ▼]
SRT Encryption Password: 0123456789 [Disable ▼]
HLS PUSH URL: https://a.upload.youtube.com/http_upload_hls [Disable ▼]
ICECAST PUSH URL: icecast://source:password@192.168.1.169:80 [Disable ▼]
TRTC Room: 8088 [Disable ▼]
TRTC User: guest
TRTC UserSig: emcvzHfIEle
TRTC SDKAppID: 188166
TRTC Room ID Type: String ▼

Apply

After the reboot, copy the multicast IP address from the Status page, and paste the IP address into VLC Player. This stream can be viewed by more than one user at the same time



The screenshot displays the i-TECH DIGITAL web interface. On the left is a dark sidebar with a logo and a menu containing 'Status', 'Encoder', 'OSD', and 'System'. The 'Status' menu item is highlighted. The main content area has a light gray header with the title 'Status'. Below this, the 'Status' section lists various system metrics: Running Time (0000-00-00 01:03:09), Device Time (2018-03-22 23:25:31 with a link to sync time), CPU Usage (11%), CPU Junction Temperature (51°C), Memory Usage (26.2M/61.7M), Input Size (1920x1080p@60), Collected Video Frames (143), Lost Video Frames (0), Audio Samplerate (48000), Collected Audio Frames (111), Net Packet Sent (166759 with a link for network connectivity test), and Net Packet Dropped (0). A horizontal line separates this from the 'Record Status' section, which shows 'Record Type: Disable'. Another horizontal line leads to the 'Main Stream' section, which lists encoding details: Encoding Type (H.264), Encoded Size (1920x1080@30), Video Bitrate (5000Kbps), Real-time Bitrate (4532Kbps), Video Encoded (498.1MByte), and various streaming URLs (TS, HLS TS, HLS MP4, MP4, FLV, RTSP, RTMP, RTMP(S) PUSH, Multicast, SRT Listener, SRT Caller, HLS PUSH, ICECAST PUSH, TRTC Room). The 'Multicast URL' is 'udp://@238.0.0.1:1234' and is highlighted with a red rectangle. At the bottom of the 'Main Stream' section are links for 'Preview(HTML5)' and 'Preview(FLASH)'. A final horizontal line leads to the 'Substream1' section, which is currently empty.

Status

Status

Running Time: 0000-00-00 01:03:09
Device Time: 2018-03-22 23:25:31 ([Sync Time To Device](#))
CPU Usage: 11%
CPU Junction Temperature: 51°C
Memory Usage: 26.2M/61.7M
Input Size: 1920x1080p@60
Collected Video Frames: 143
Lost Video Frames: 0
Audio Samplerate: 48000
Collected Audio Frames: 111
Net Packet Sent: 166759 ([Network connectivity test](#))
Net Packet Dropped: 0

Record Status

Record Type: Disable

Main Stream

Encoding Type: H.264
Encoded Size: 1920x1080@30
Video Bitrate: 5000Kbps
Real-time Bitrate: 4532Kbps
Video Encoded: 498.1MByte
TS URL: http://192.168.1.168/0.ts
HLS TS URL: Disable
HLS MP4 URL: Disable
MP4 URL: Disable
FLV URL: http://192.168.1.168/0.flv
RTSP URL: rtsp://192.168.1.168/0
RTMP URL: Disable
RTMP(S) PUSH URL: Disable
Multicast URL: **udp://@238.0.0.1:1234**
SRT Listener URL: Disable
SRT Caller URL: Disable
HLS PUSH URL: Disable
ICECAST PUSH URL: Disable
TRTC Room: Disable
[Preview\(HTML5\)](#) [Preview\(FLASH\)](#)

Substream1

9.3 Local Surveillance System Application NVR Connection

1. Confirm if your NVR supports the H.264 codec. Since we're using ONVIF, you will need to enable the "RTSP" function as pictured below.

The screenshot displays the 'Main stream' configuration page of an NVR. The left sidebar contains navigation options: Status, Encoder, Main stream (selected), Substream1, Substream2, Substream3, Video, Audio, Advanced, OSD, and System. The main configuration area is divided into two sections. The top section, 'Main stream', includes settings for Encoding Type (H.264), FPS (Custom, 30), GOP (30), Bitrate (5000), Encoded Size (Same as input), H.264 Level (baseline profile), and Bitrate Control (cbr). The bottom section contains various streaming protocols and their URLs, each with an enable/disable toggle. The 'RTSP URL' field, set to '/0', is highlighted with a red rectangular box, and its 'Enable' toggle is selected. Other protocols shown include TS, HLS TS, HLS MP4, MP4, FLV, RTMP, RTMP(S)/RTSP PUSH, Multicast, SRT, HLS PUSH, ICECAST PUSH, and TRTC.

Protocol	URL	Enable/Disable
TS URL	/0.ts	Enable
HLS TS URL	/0.m3u8	Disable
HLS MP4 URL	/0_mp4.m3u8	Disable
MP4 URL	/0.mp4	Disable
FLV URL	/0.flv	Enable
RTSP URL	/0	Enable
RTMP URL	/0	Disable
RTMP(S)/RTSP PUSH URL	rtmp://192.168.1.169/live/0	Disable
Multicast IP	238.0.0.1	Disable
Multicast Port	1234	[1-65535]
Multicast SAP Name	GROUP0_STREAM0	
SRT Listener Port	9000	Disable
SRT Listener StreamID		
SRT Caller URL	srt://192.168.1.169:9000	Disable
SRT Encryption Password	0123456789	Disable
HLS PUSH URL	https://a.upload.youtube.com/http_upload_hls	Disable
ICECAST PUSH URL	icecast://source:password@192.168.1.169:80	Disable
TRTC Room	8088	Disable
TRTC User	guest	
TRTC UserSig	emovzHffEle	
TRTC SDKAppID	188166	
TRTC Room ID Type	String	

Apply

2. If you need the NVR to recognize the audio of the HD Encoder, you will need to enable the Audio as below picture:

i-TECH DIGITAL

Status

Encoder

- Main stream
- Substream1
- Substream2
- Substream3
- Video
- Audio**
- Advanced

OSD

System

Audio

Audio Input: HDMI ▼

Sampling Rate: Same as input sample rate ▼

Encoder: AAC ▼

Audio Channel: L+R ▼

Bitrate: 128000 [48000~320000]

Analog Volume Gain: 10 [-78~80]

Digital Volume Gain: 0 [-50~50]

Denoise: Disable ▼

Denoise(dB): 15 [1~100]

G711 Over PTE: Enable ▼

ONVIF Audio

G711 Over RTSP: Enable and resample with 8k ▼

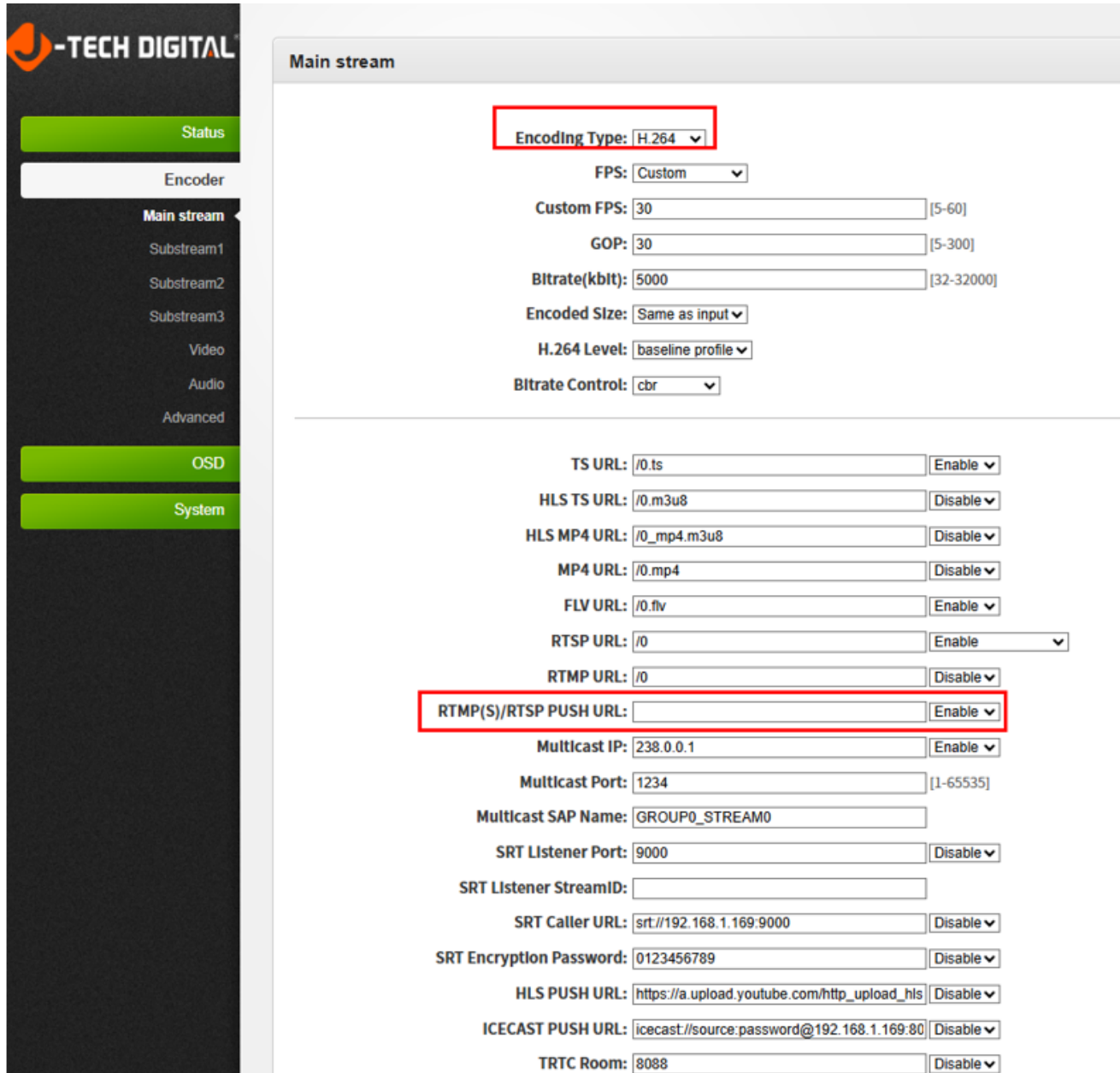
G711: G711A ▼

Apply

Note: If you've enabled the ONVIF setting and still can't open the video, we suggest you download the ONVIF TEST tool.

9.4 Remote Multi User: RTMP Connection

To stream over the web, to multiple locations, you may use RTMP. This encoder supports multiple platforms, including: YouTube Live, Facebook Live, DaCast, Red5, etc.



The screenshot displays the iVTECH DIGITAL encoder configuration interface. On the left is a sidebar with navigation tabs: Status, Encoder, Main stream (selected), Substream1, Substream2, Substream3, Video, Audio, and Advanced. Below these are OSD and System tabs. The main content area is titled 'Main stream' and contains various configuration options. Two red boxes highlight specific settings: 'Encoding Type: H.264' and 'RTMP(S)/RTSP PUSH URL:'. The 'RTMP(S)/RTSP PUSH URL' field is currently empty, and its 'Enable' checkbox is checked. Other visible settings include FPS (Custom, 30), GOP (30), Bitrate (5000), Encoded Size (Same as input), H.264 Level (baseline profile), Bitrate Control (cbr), and various output URLs for TS, HLS, MP4, FLV, RTSP, and RTMP, each with an enable/disable checkbox. Multicast settings (IP, Port, SAP Name) and SRT settings (Listener Port, StreamID, Caller URL, Encryption Password) are also present, along with HLS PUSH URL and ICECAST PUSH URL.

Encoding Type: H.264

FPS: Custom

Custom FPS: 30 [5-60]

GOP: 30 [5-300]

Bitrate(kbit): 5000 [32-32000]

Encoded Size: Same as input

H.264 Level: baseline profile

Bitrate Control: cbr

TS URL: /0.ts [Enable]

HLS TS URL: /0.m3u8 [Disable]

HLS MP4 URL: /0_mp4.m3u8 [Disable]

MP4 URL: /0.mp4 [Disable]

FLV URL: /0.flv [Enable]

RTSP URL: /0 [Enable]

RTMP URL: /0 [Disable]

RTMP(S)/RTSP PUSH URL: [Enable]

Multicast IP: 238.0.0.1 [Enable]

Multicast Port: 1234 [1-65535]

Multicast SAP Name: GROUP0_STREAM0

SRT Listener Port: 9000 [Disable]

SRT Listener StreamID:

SRT Caller URL: srt://192.168.1.169:9000 [Disable]

SRT Encryption Password: 0123456789 [Disable]

HLS PUSH URL: https://a.upload.youtube.com/http_upload_hls [Disable]

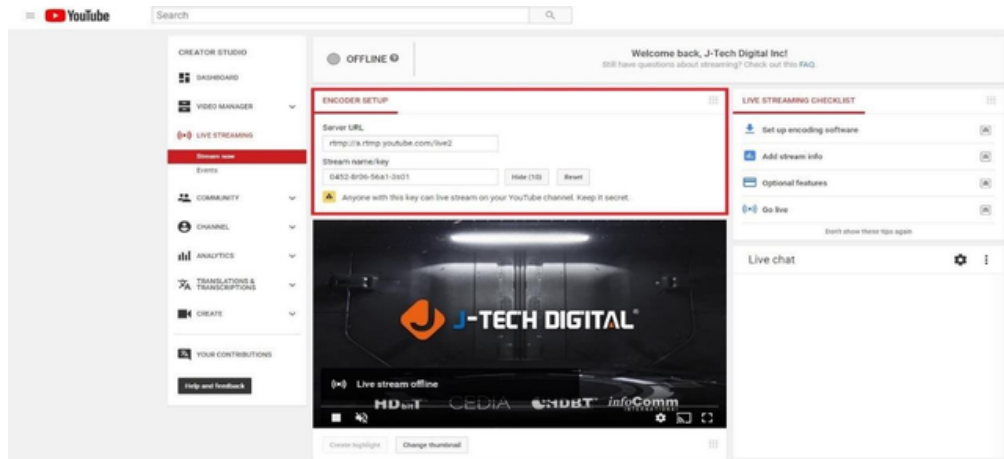
ICECAST PUSH URL: icecast://source:password@192.168.1.169:80 [Disable]

TRTC Room: 8088 [Disable]

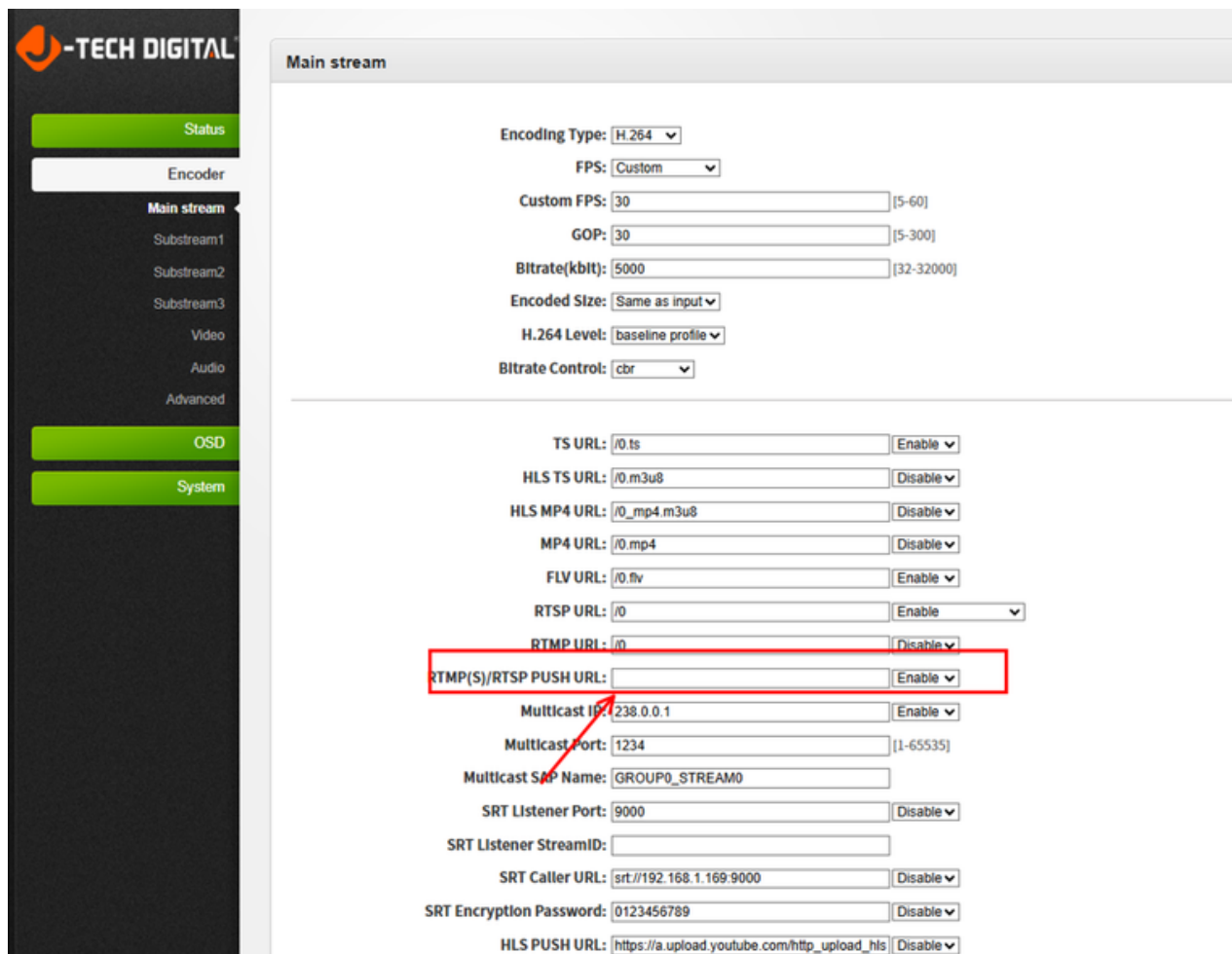
9.5 RTMP: Stream to YouTube Live

1. To stream to YouTube: access your YouTube Live settings (below) and combine your “Server URL” and “Stream name/key” (separated by a forward slash).

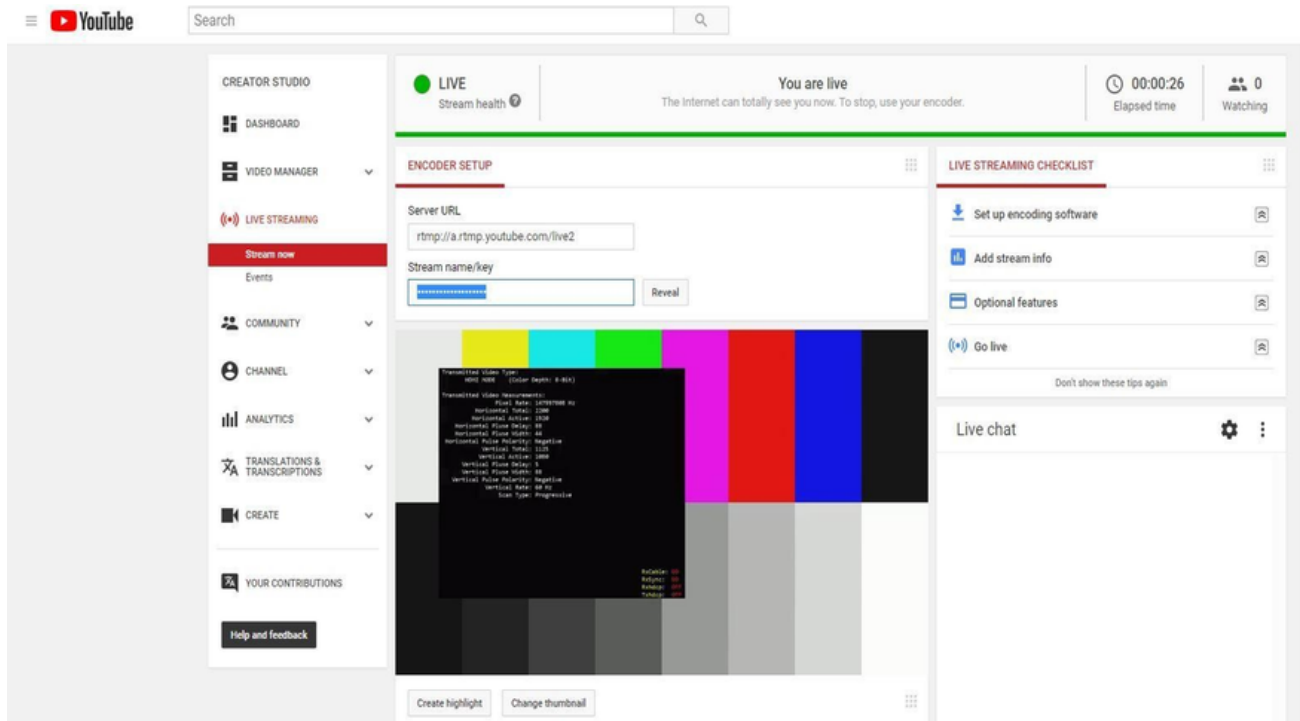
Full RTMP URL Example: `rtmp://a.rtmp.youtube.com/live2/zc3e-yw22-bbdw-baeg`



2. Enter the full RTMP URL into the “RTMP PUBLISH URL” setting of your J-Tech Digital Encoder; apply and reboot. **Note: For best results, check that “TS muxer” is set to “Compatible with FFMPEG”**



3. Check “Stream Health” in YouTube and adjust settings accordingly, per your specific stream requirements. **Note: Use Google’s DNS servers (8.8.8.8 and 8.8.4.4), in your encoder’s network settings for best results**



Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean.

10. Product Service

1. Damage requiring service: The unit should be serviced by qualified service personnel if:

- (a) The DC power supply cord or AC adapter has been damaged;
- (b) Objects or liquids have gotten into the unit;
- (c) The unit has been exposed to rain;
- (d) The unit does not operate normally or exhibits a marked change in performance;
- (e) The unit has been dropped or the cabinet damaged.

2. Servicing Personnel: Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

3. Replacement parts: When parts need replacing ensure the service uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.

4. Safety check: After repairs or service, ask the service to perform safety checks to confirm that the unit is in proper working condition.

11. Warranty

If your product does not work properly because of a defect in materials or workmanship, our Company (referred to as "the warrantor") will, for the length of the period indicated as below, (Parts(1)Year, Labor(90) Days) which starts with the date of original purchase ("Limited Warranty period"), at its option either(a) repair your product with new or refurbished parts, or (b) replace it with a new of a refurbished product. The decision to repair or replace will be made by the warrantor.

During the "Labor" Limited Warranty period there will be no charge for labor.

During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

12. Mail-In Service

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

13. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.) PARTS AND SERVICE, WHICH ARE NOT COVERED BY HIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

Extended Warranty:

With the registration of supported J-Tech Digital products, you extend the current warranty by 6 months. This extension is added to the warranty that starts at the purchase date of the device supported. Total product warranty with the extended period will equate to a total of 18 months of warranty from the date of purchase.

For extended warranties to be accepted, all warranty extensions must be claimed within 30 days of purchasing the eligible J-Tech Digital product. Extensions attempted to be claimed outside of the 30-day window will not be accepted. Visit <https://www.jtechdigital.com/get-warranty-extension> to register your extended warranty



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