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User Manual [V1.0]



1080P 60Hz H.264 H.265 IPTV Encoder

ZT-463 | ZT-EN200V2



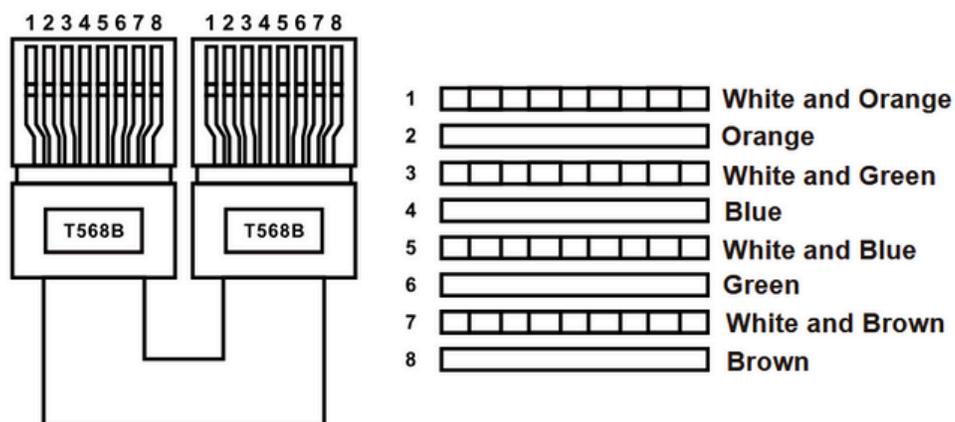
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SUPPORT@ZENTY.COM

SAFETY PRECAUTIONS

- Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.
- Please keep the following in mind as you unpack and install this equipment:
- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

Caution

The product requires the use of UTP connectors. Please connect in direct interconnection method and do not cross connect.



Direct Interconnection Method

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Dear Customer

Thank you for purchasing the ZT-EN200V2. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

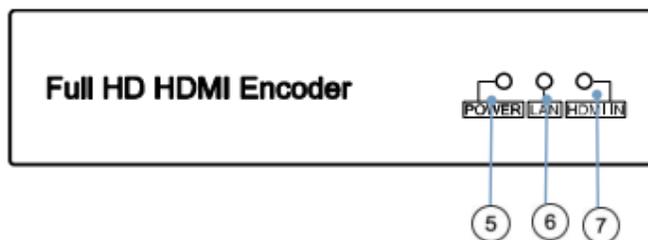
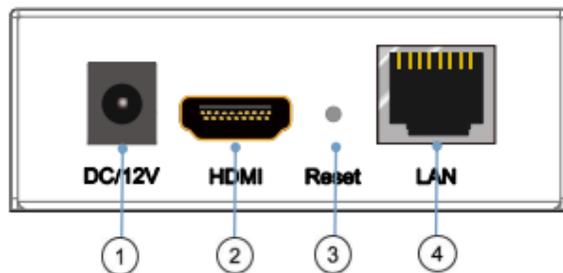
1. Features

- Supports H.265 | H.264 | MJPEG Encoding
- Supports 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 up to 1080p@60Hz HD Video Input
- Supports Image Parameter Settings
- Supports Remote Management in WAN (webGUI)
- Supports Customized Resolution Settings

2. Package Contents

- (1) x ZT-EN200V2 Encoder
- (1) x Power Adapter DC12V 1A
- (1) x User Manual

3. Hardware Description



- ① Power Input Port ③ Reset Button ⑤ Power Input Indicator ⑦ HDMI Input Indicator
- ② HDMI Input Port ④ LAN Output Port ⑥ LAN Output 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**

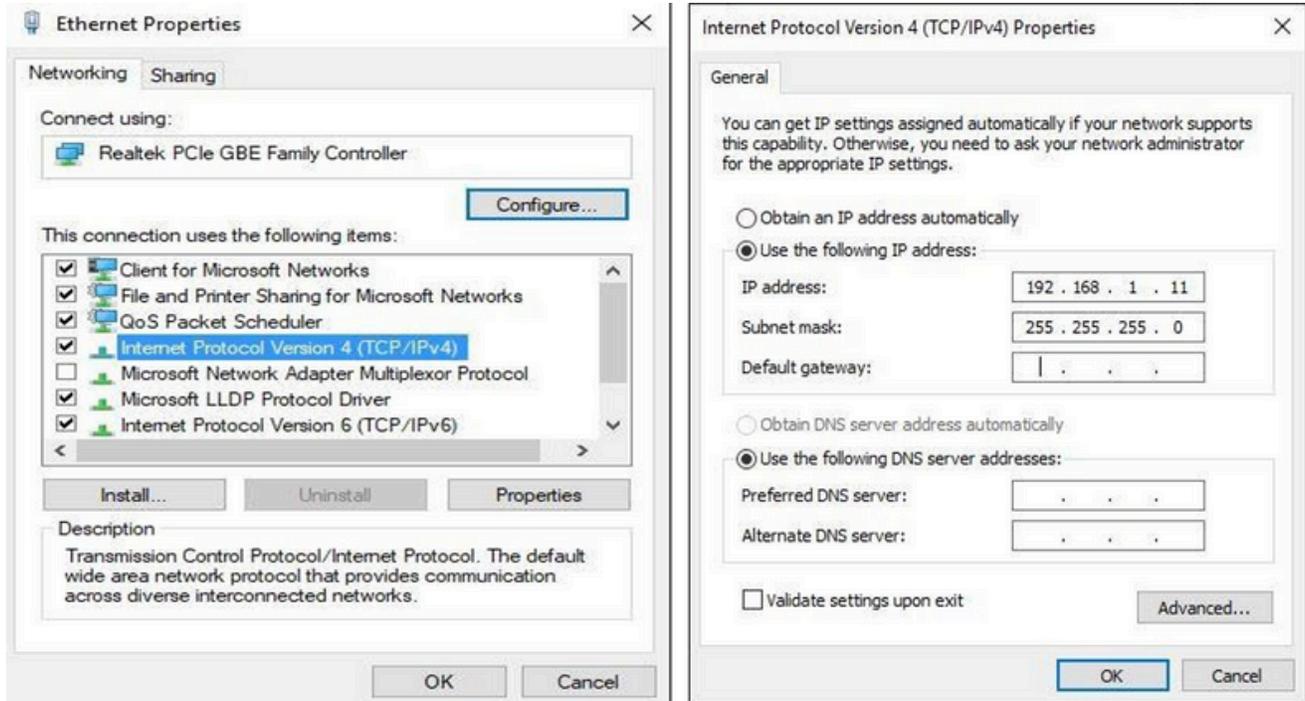
4. Typical Application



5. Connection Configuration

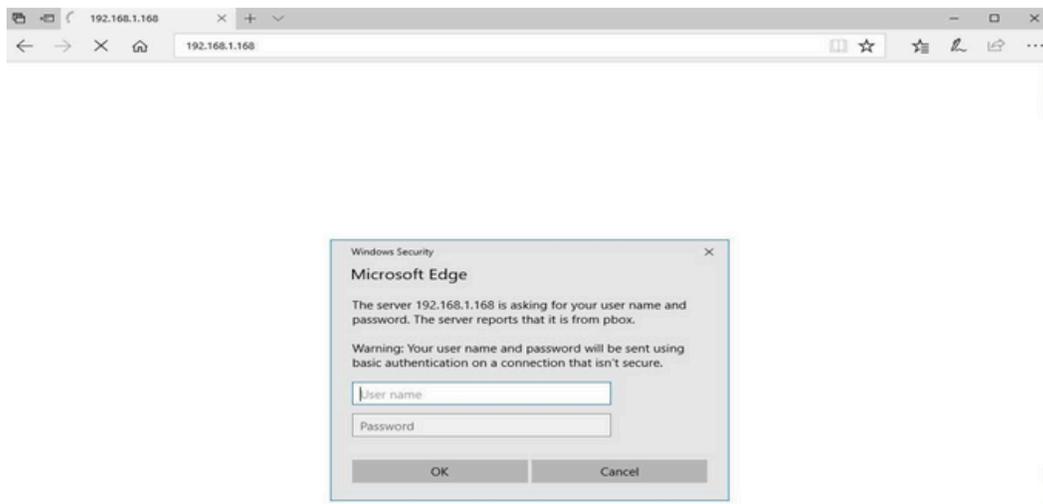
5.1 Change the IP Address of PC

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

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 Advanced

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

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 ▼

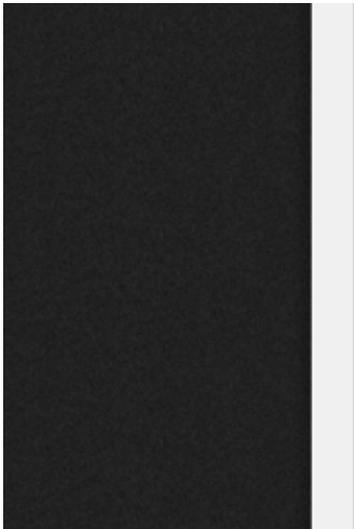
Enable SAP: Enable ▼

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]

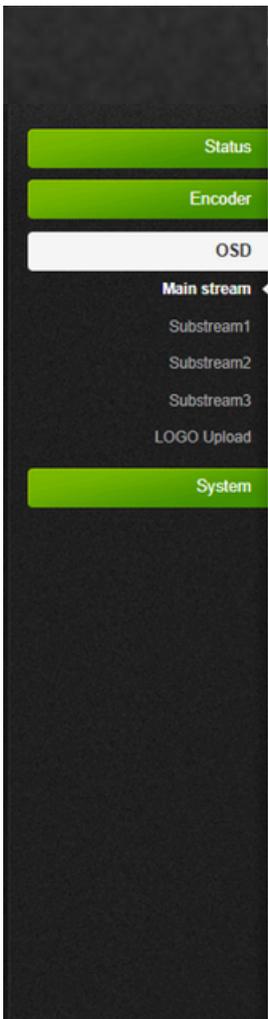
C space filter: [0-255]

C time filter: [0-32]

7. OSD Setting

7.1 Streaming OSD Setting

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



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

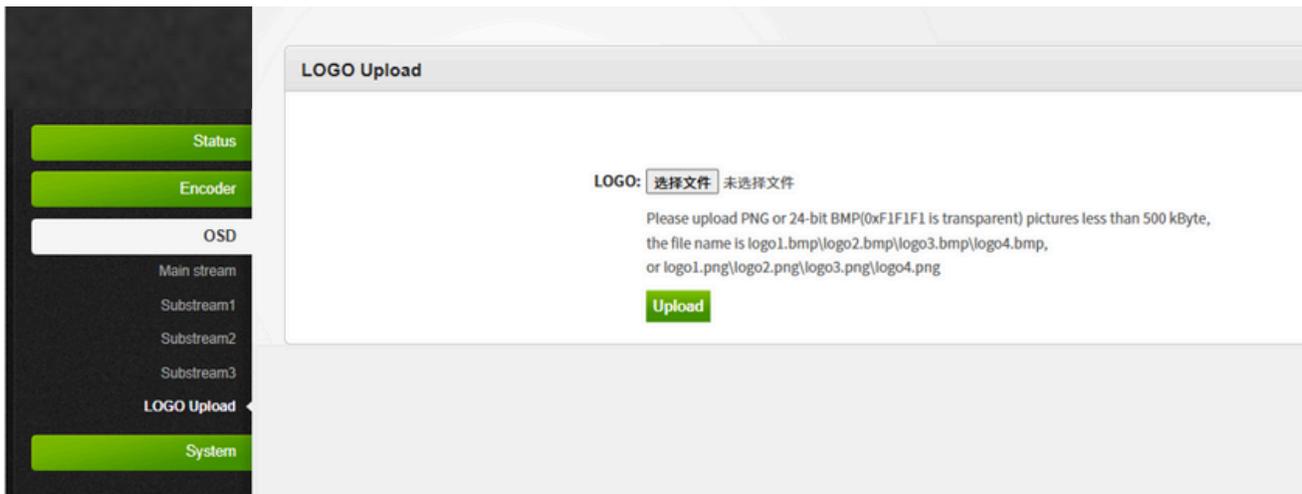
Zone: ▼

Zone 4

Zone: ▼

7.2 Logo Uploading

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



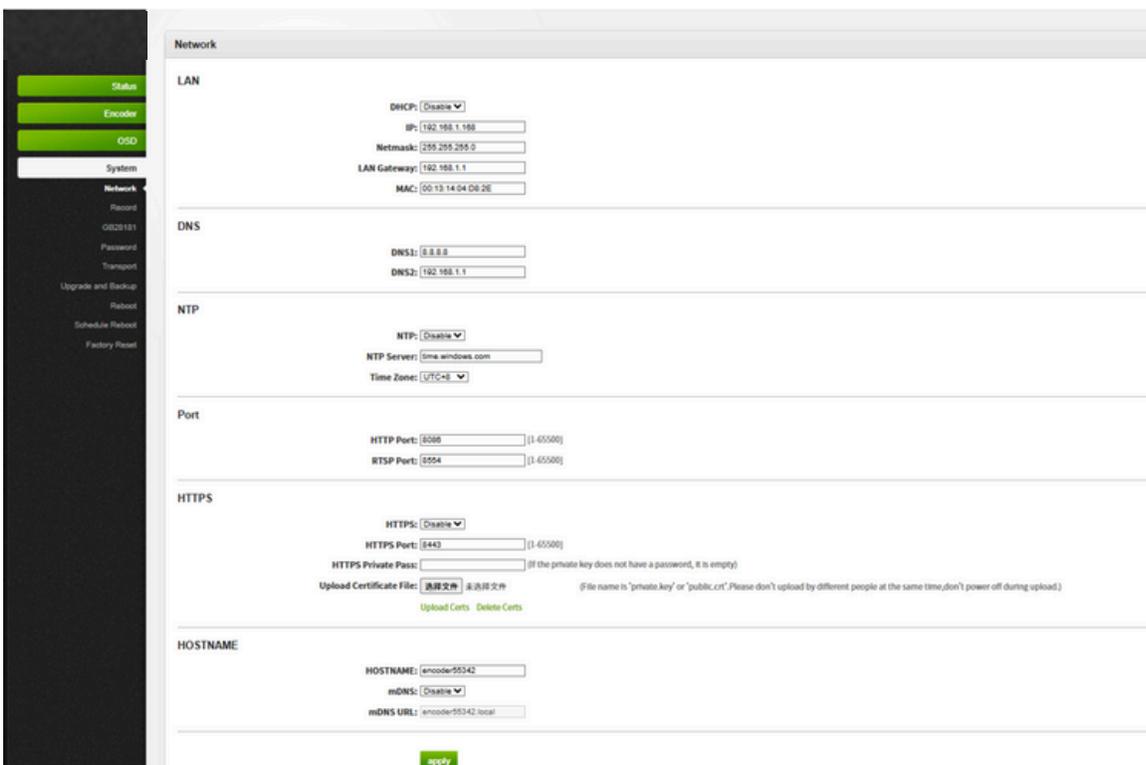
※ Note: The above interface screenshot examples may show a difference with actual operation interface due to software upgrades. All screenshots are for reference only.

8. System

8.1 Network

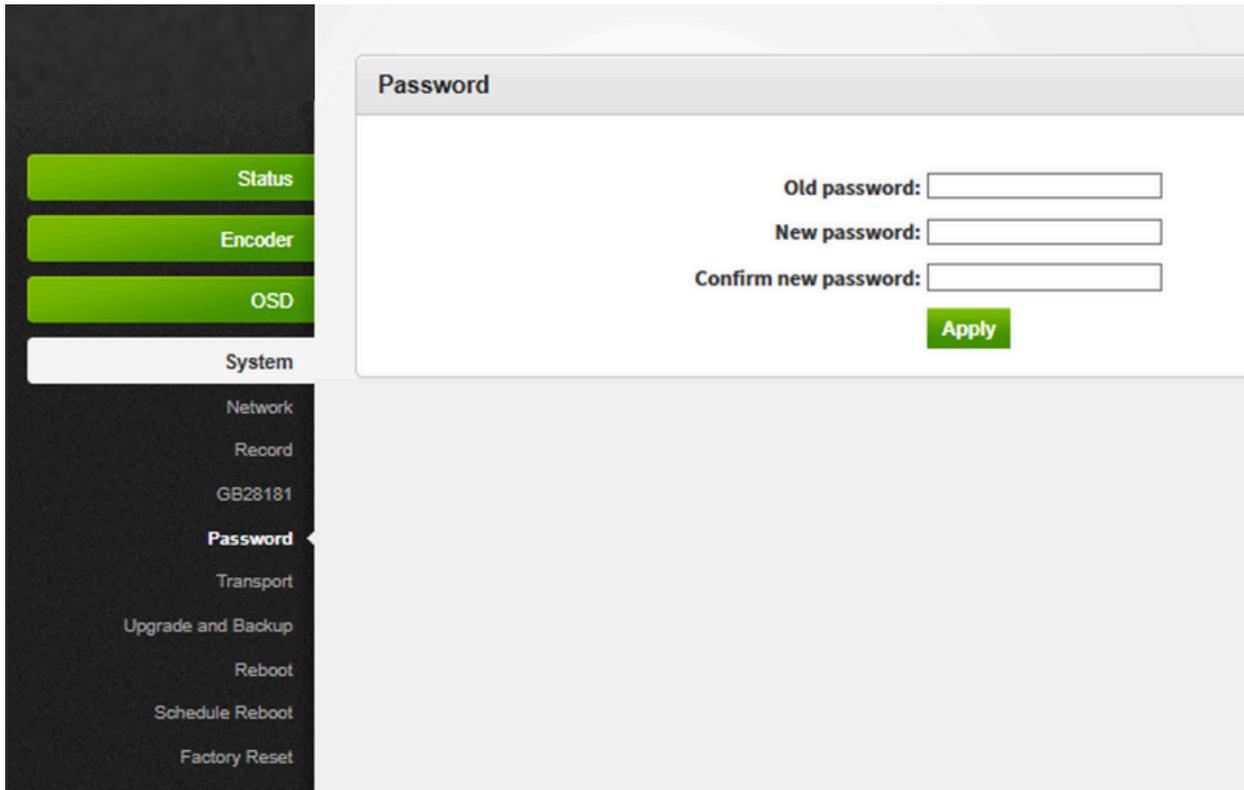
Click System → Network → Modify the network settings to match those of your network

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



8.2 Change Password

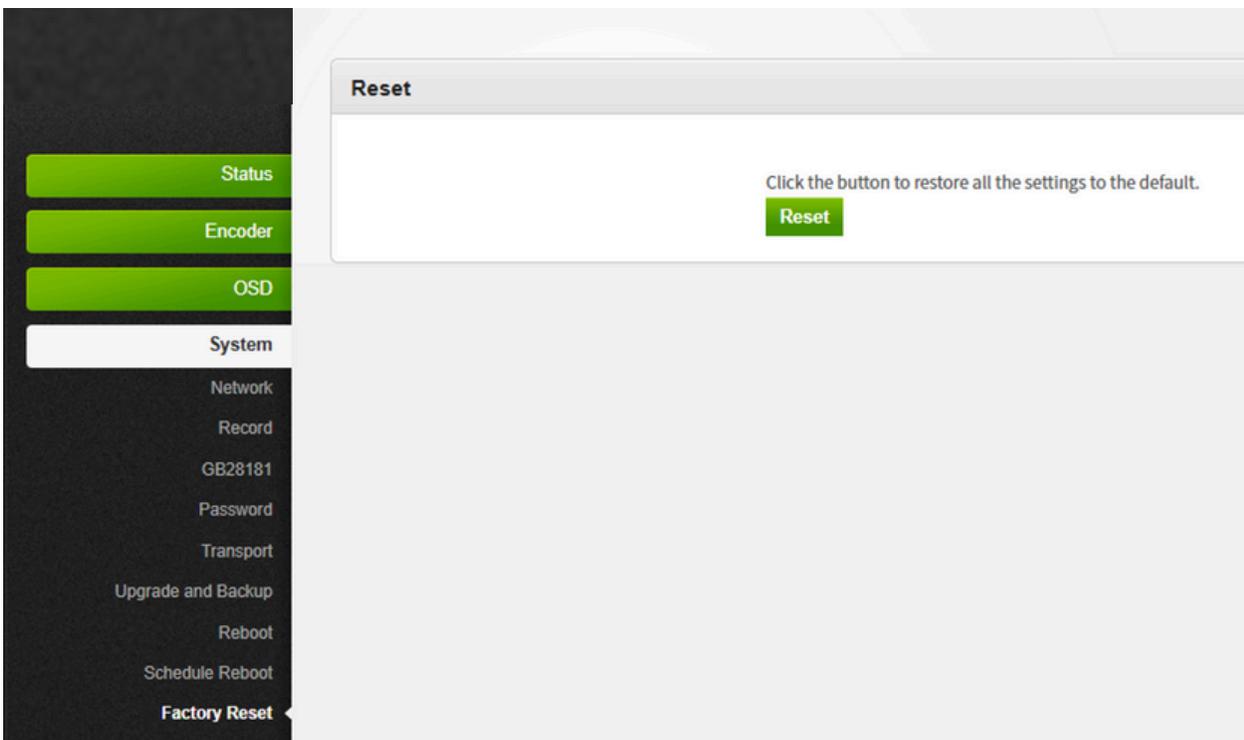
System → Change password → Set your password → Apply



The screenshot shows a web interface with a dark sidebar on the left and a main content area. The sidebar contains a menu with items: Status, Encoder, OSD, System (highlighted), Network, Record, GB28181, Password (selected), Transport, Upgrade and Backup, Reboot, Schedule Reboot, and Factory Reset. The main content area has a header 'Password' and three input fields: 'Old password:', 'New password:', and 'Confirm new password:'. A green 'Apply' button is located below the input fields.

8.3 Reset

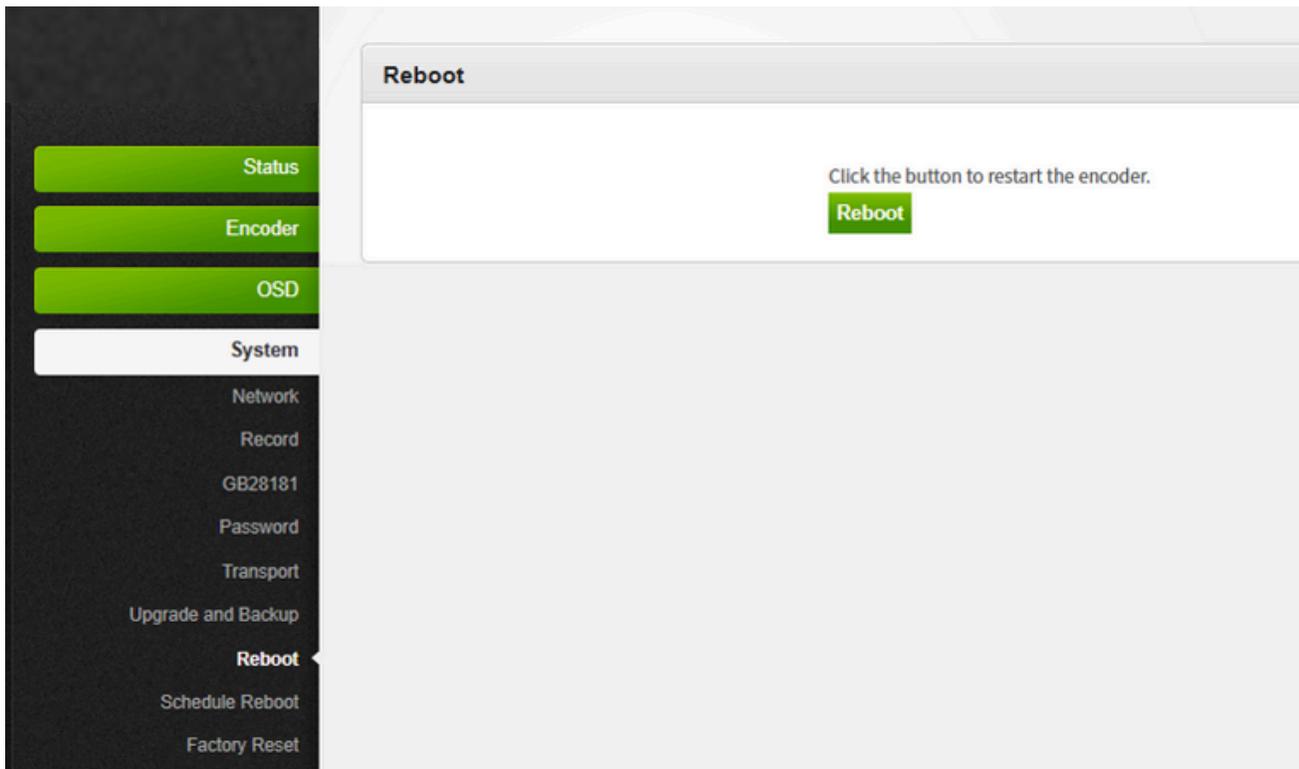
System → Factory Reset → Reset **Note: This will set your device to the factory defaults.**



The screenshot shows a web interface with a dark sidebar on the left and a main content area. The sidebar contains a menu with items: Status, Encoder, OSD, System, Network, Record, GB28181, Password, Transport, Upgrade and Backup, Reboot, Schedule Reboot, and Factory Reset (selected). The main content area has a header 'Reset' and a green 'Reset' button. Text above the button reads: 'Click the button to restore all the settings to the default.'

8.4 Reboot

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



9. Configure SSL Certificate

The web GUI of this encoder comes with an option of enabling HTTPs communication between the device and the user's computers.

By default, the system does not have HTTPs enabled.

HTTPS

HTTPS: **Disable** ▼

HTTPS Port: [1-65500]

HTTPS Private Pass: (If the private key does not have a password, it is empty)

Upload Certificate File: No file chosen (File name is 'private.key' or 'public.crt'. Please don't upload by different people at the same time, don't power off during upload.)

[Upload Certs](#) [Delete Certs](#)

Once “enabled”, followed by “apply” and “reboot”, the system will use the built-in default certificate, which can be removed or replaced by user’s own certificate if the user chooses to do so.

HTTPS

HTTPS: ▾

HTTPS Port: [1-65500]

HTTPS Private Pass: (If the private key does not have a password, it is empty)

Upload Certificate File: No file chosen (File name is 'private.key' or 'public.crt'. Please don't upload by different people at the same time, don't power off during upload.)

Steps to uploading a user’s own certificate:

1. Choose file

HTTPS

HTTPS: ▾

HTTPS Port: [1-65500]

HTTPS Private Pass: (If the private key does not have a password, it is empty)

Upload Certificate File: No file chosen (File name is 'private.key' or 'public.crt'. Please don't upload by different people at the same time, don't power off during upload.)

The system only accepts certificates using two specific file names:

- private.key
- public.crt



2. These two certificate files can be uploaded in any order followed by clicking the “Upload Certs” button.

HTTPS

HTTPS: ▾

HTTPS Port: [1-65500]

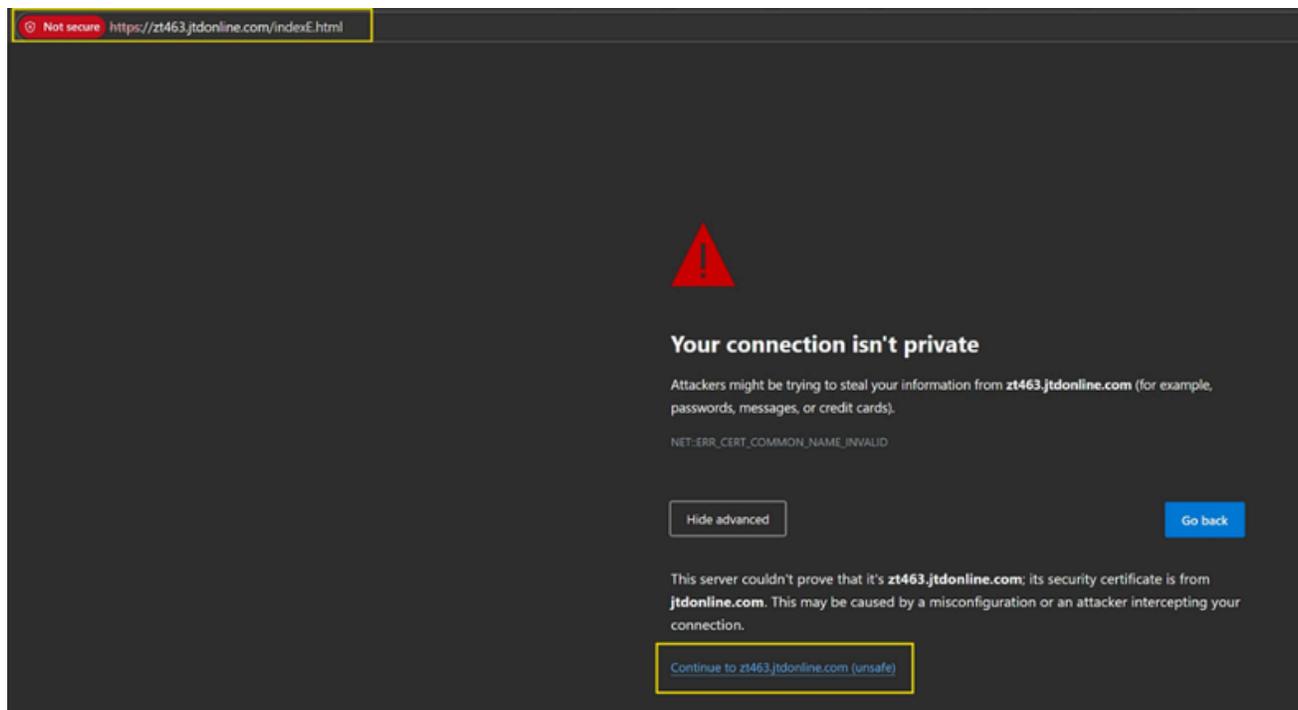
HTTPS Private Pass: (If the private key does not have a password, it is empty)

Upload Certificate File: No file chosen (File name is 'private.key' or 'public.crt'. Please don't upload by different people at the same time, don't power off during upload.)

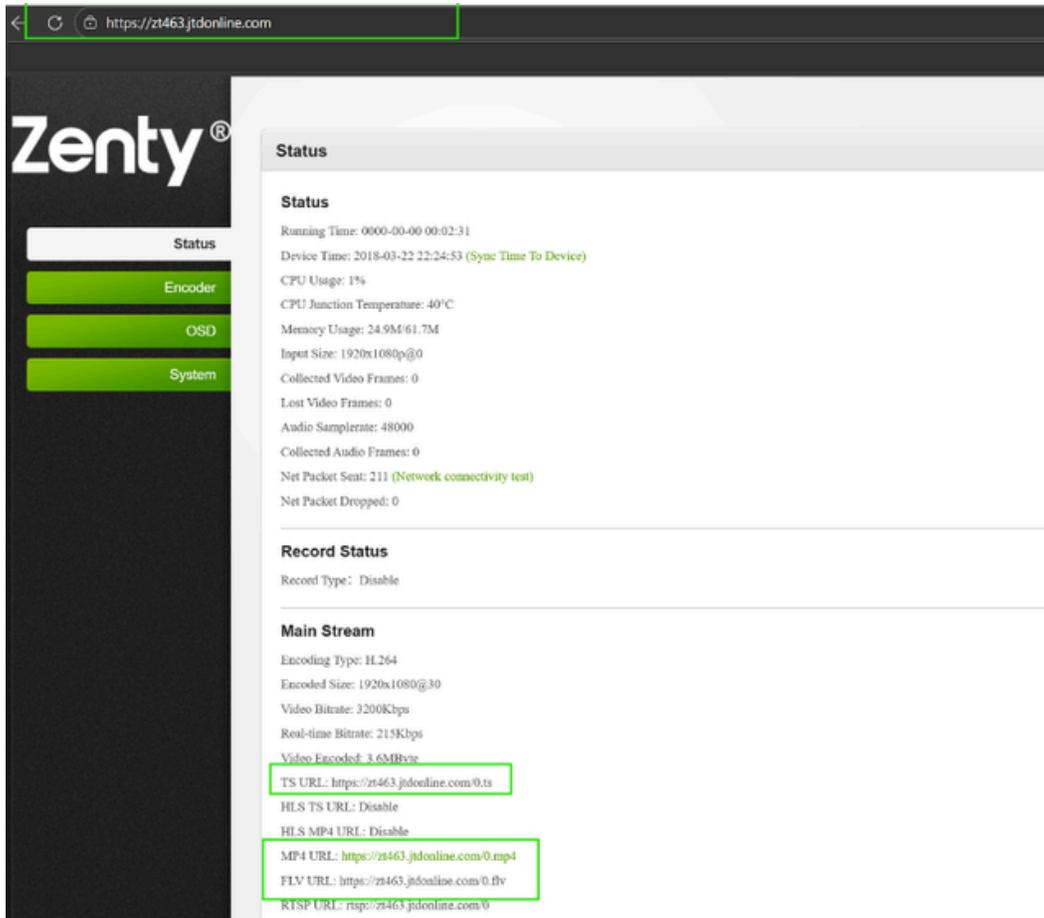
3. Once these two certificate files are uploaded, “Apply” and reboot the device to make the change in effect.

Note:

When the browser says, “Unsafe”, or “Not Secure”, the built-in web server on the device is missing the intermediate chain file. Here in the example below, ZT-463” is the hostname of the device, and there is a certificate issued for, “ZT463.jtdonline.com”.



If the user holds more than two primary files: public.crt and private.key, they can consider combining public.crt with ca_bundle.crt into one file, and then rename the new file to “public.crt” for uploading.



To combine server certificate with intermediate certificates to form a full chain file that contains:

1. Server certificate (public.crt)
2. Intermediate certificates (ca_bundle.crt)

Follow the format below:

```
-BEGIN CERTIFICATE
[Your server certificate]
-END CERTIFICATE]
-BEGIN CERTIFICATE
[Intermediate CA #1]
-END CERTIFICATE
-BEGIN CERTIFICATE
[Intermediate CA #2]
END CERTIFICATE
```

The server certificate always goes first, followed by the CA bundle exactly as provided.

10. Application

10.1 User Application Example

10.1.1 Web Video Preview

Status → Main Stream → Preview

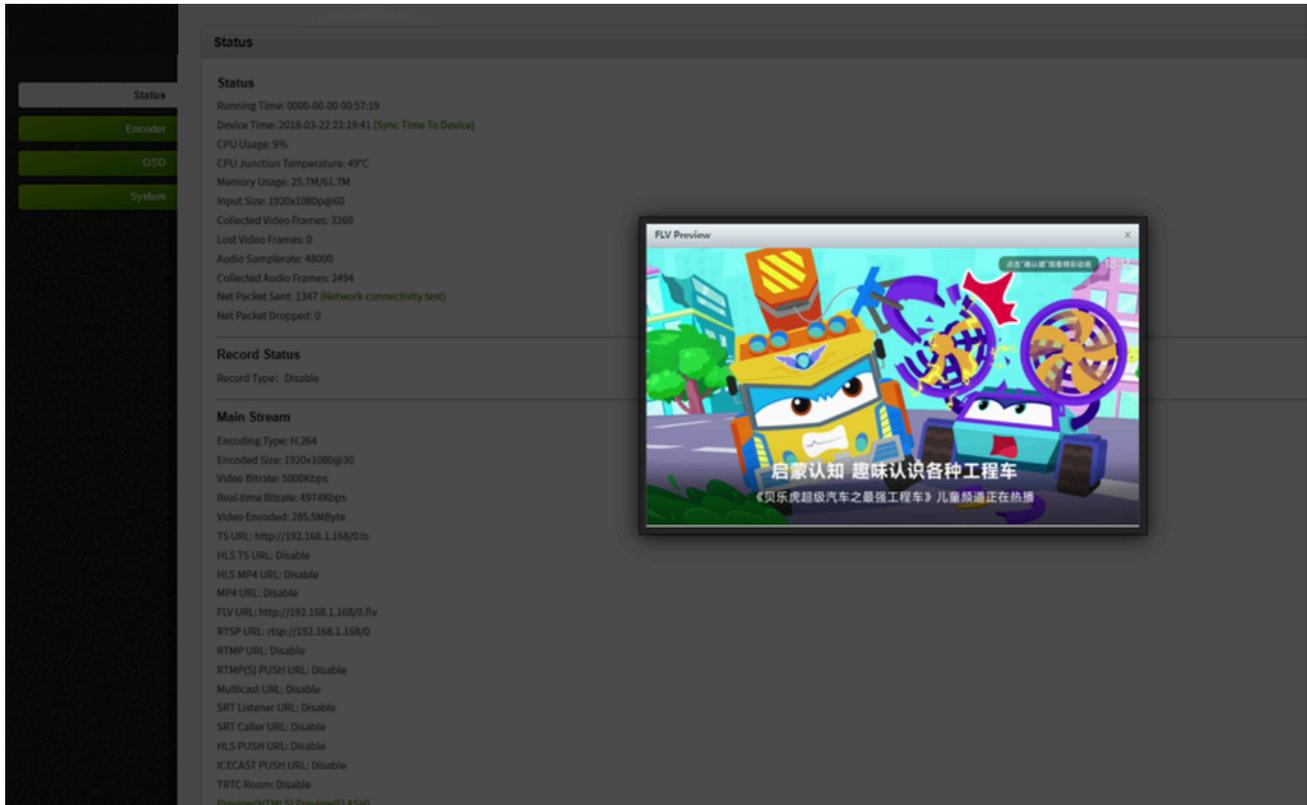
Note: For Internet Explorer, you can get preview window directly.

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

The screenshot shows a web interface with a dark sidebar on the left containing menu items: Status, Encoder, OSD, and System. The main content area is light gray and displays the following information:

- 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
 - TRTC Room: Disable
 - Preview(HTML5) | Preview(FLASH)

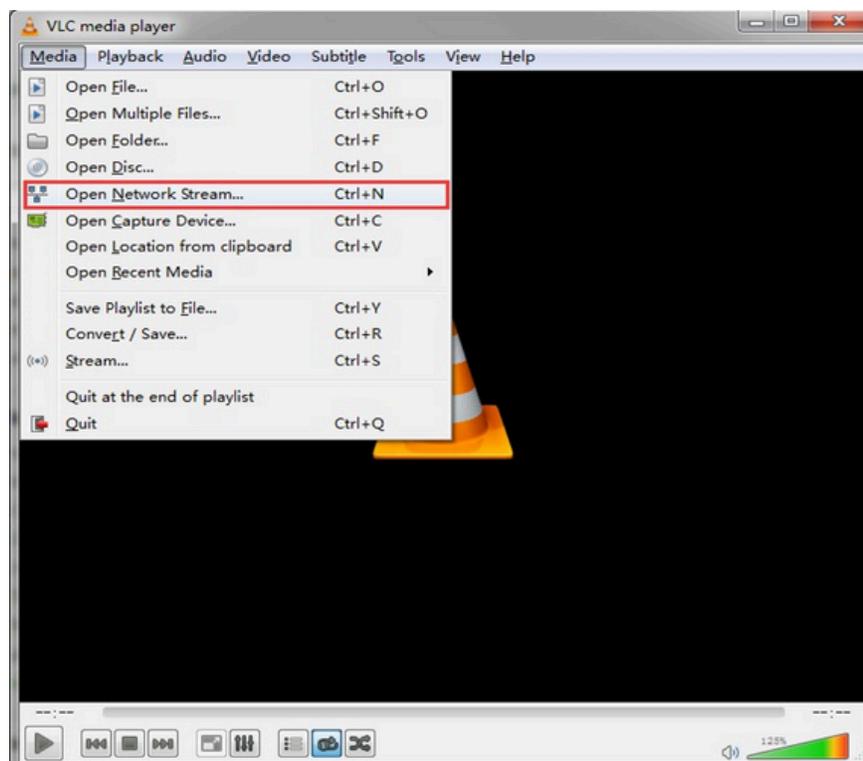
Picture below shows the stream preview



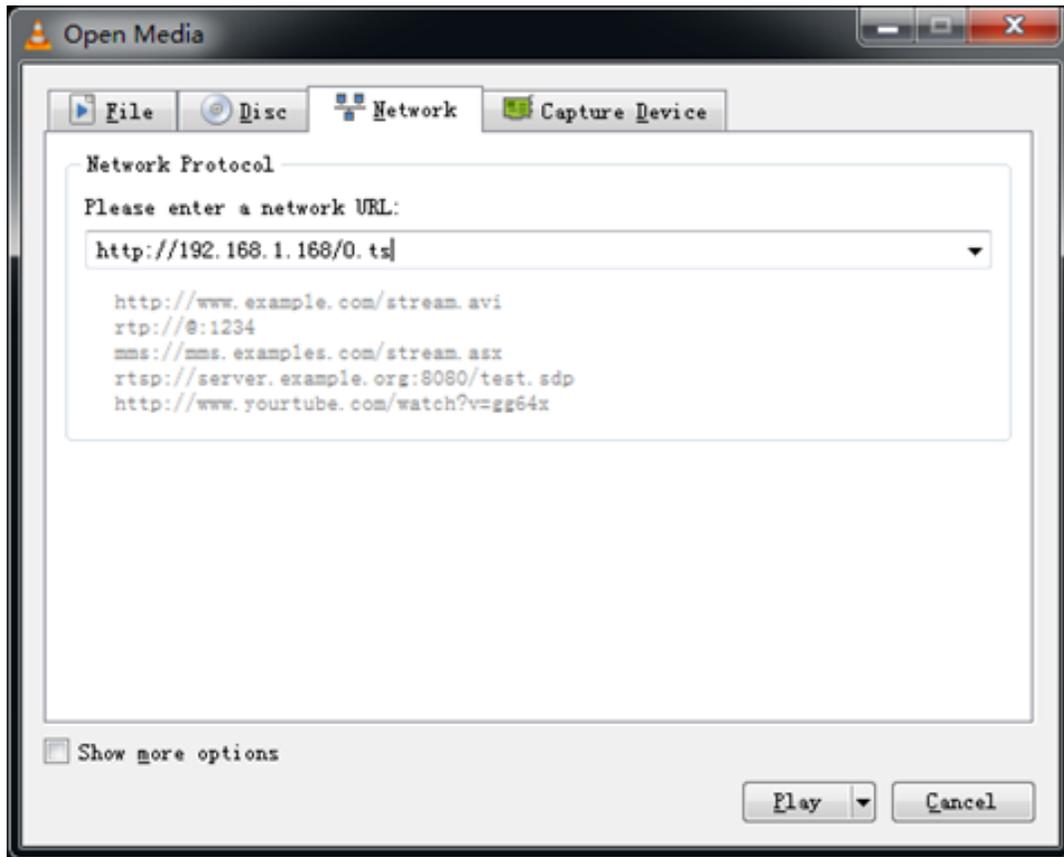
10.1.2 VLC

Connect an HDMI source to the 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:



10.2 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 encoder.

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: ▼

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

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

10.3 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, and Advanced. Below these are OSD and System sections. The main configuration area is titled 'Main stream' and includes the following settings:

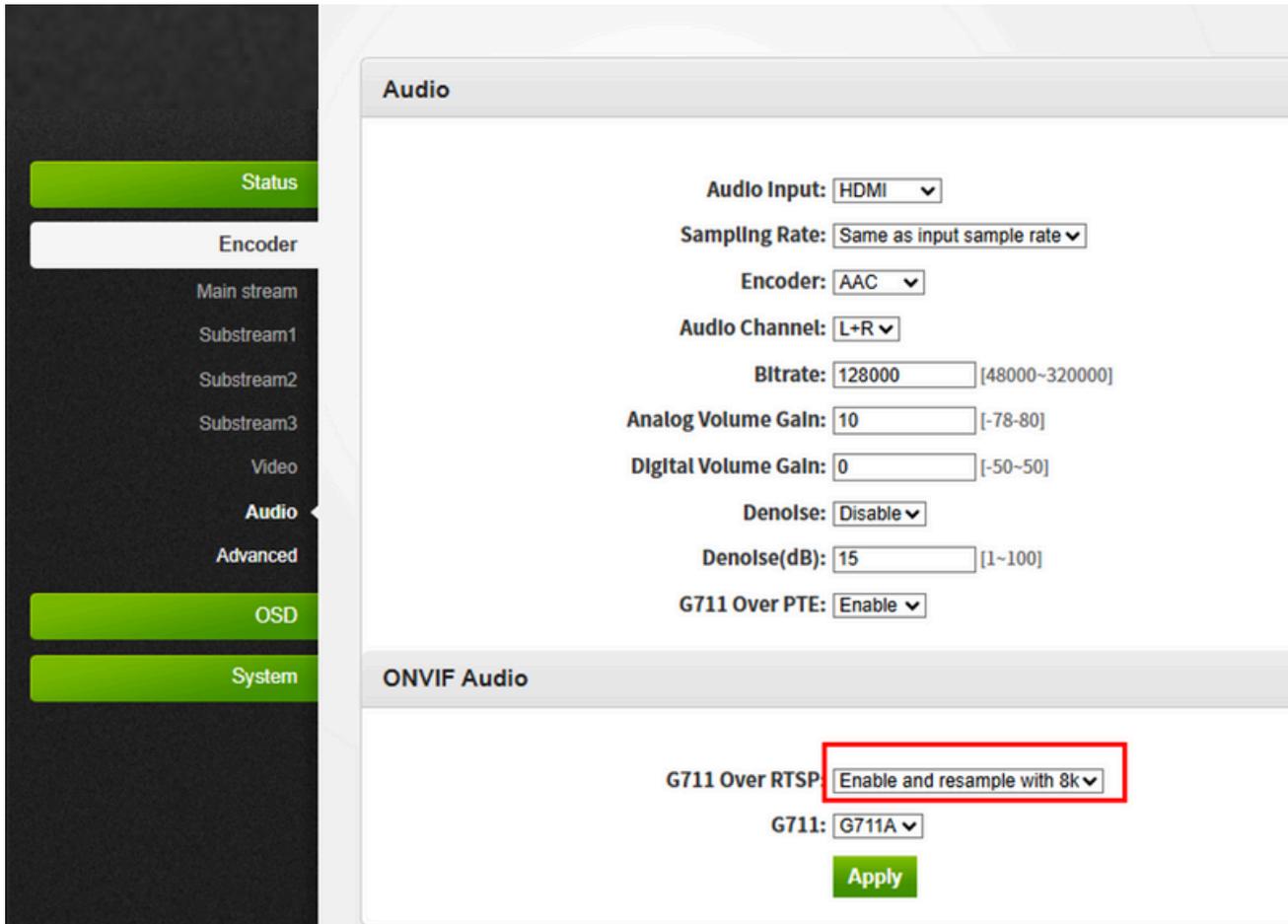
- Encoding Type: H.264
- FPS: Custom
- Custom FPS: 30 (range [5-60])
- GOP: 30 (range [5-300])
- Bitrate(kbit): 5000 (range [32-32000])
- Encoded Size: Same as input
- H.264 Level: baseline profile
- Bitrate Control: cbr

Below the encoding settings, there are various streaming protocol options, each with a URL field and an enable/disable dropdown:

- 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)** (highlighted with a red box)
- 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 (range [1-65535])
- Multicast SAP Name: GROUP0_STREAM0
- SRT Listener Port: 9000 (Disable)
- SRT Listener StreamID: (empty field)
- 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

An 'Apply' button is located at the bottom center of the configuration area.

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



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

10.4 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 image shows a web-based configuration interface for a video encoder. On the left is a dark sidebar with navigation options: Status, Encoder, Main stream (selected), Substream1, Substream2, Substream3, Video, Audio, and Advanced. Below these are OSD and System sections. The main content area is titled 'Main stream' and contains various configuration fields. Two fields are highlighted with red boxes: 'Encoding Type: H.264' and 'RTMP(S)/RTSP PUSH URL:'. The RTMP(S)/RTSP PUSH URL field is currently empty. Other visible settings include FPS (Custom, 30), GOP (30), Bitrate (5000), Encoded Size (Same as input), H.264 Level (baseline profile), and Bitrate Control (cbr). Below these are numerous output URL fields with enable/disable buttons, such as 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), Multicast IP (238.0.0.1), Multicast Port (1234), 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), and TRTC Room (8088).

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: [Empty] [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: [Empty]

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]

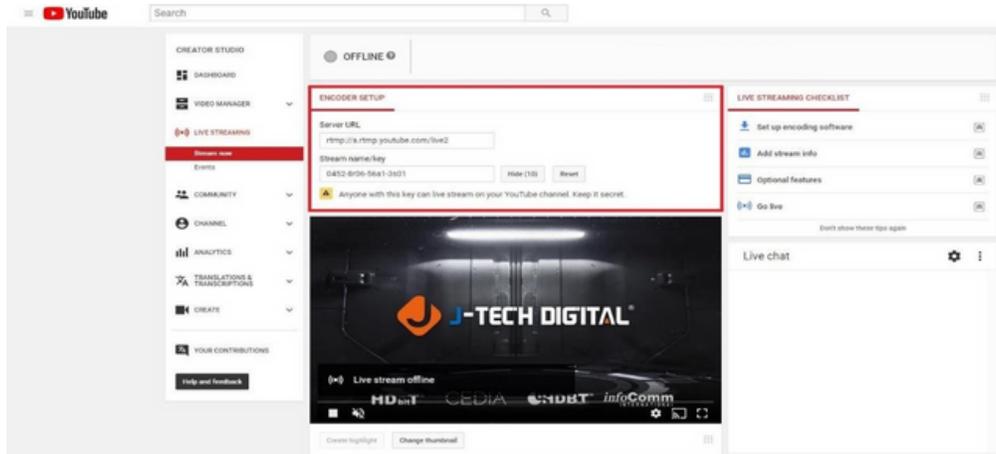
ICECAST PUSH URL: icecast://source:password@192.168.1.169:80 [Disable]

TRTC Room: 8088 [Disable]

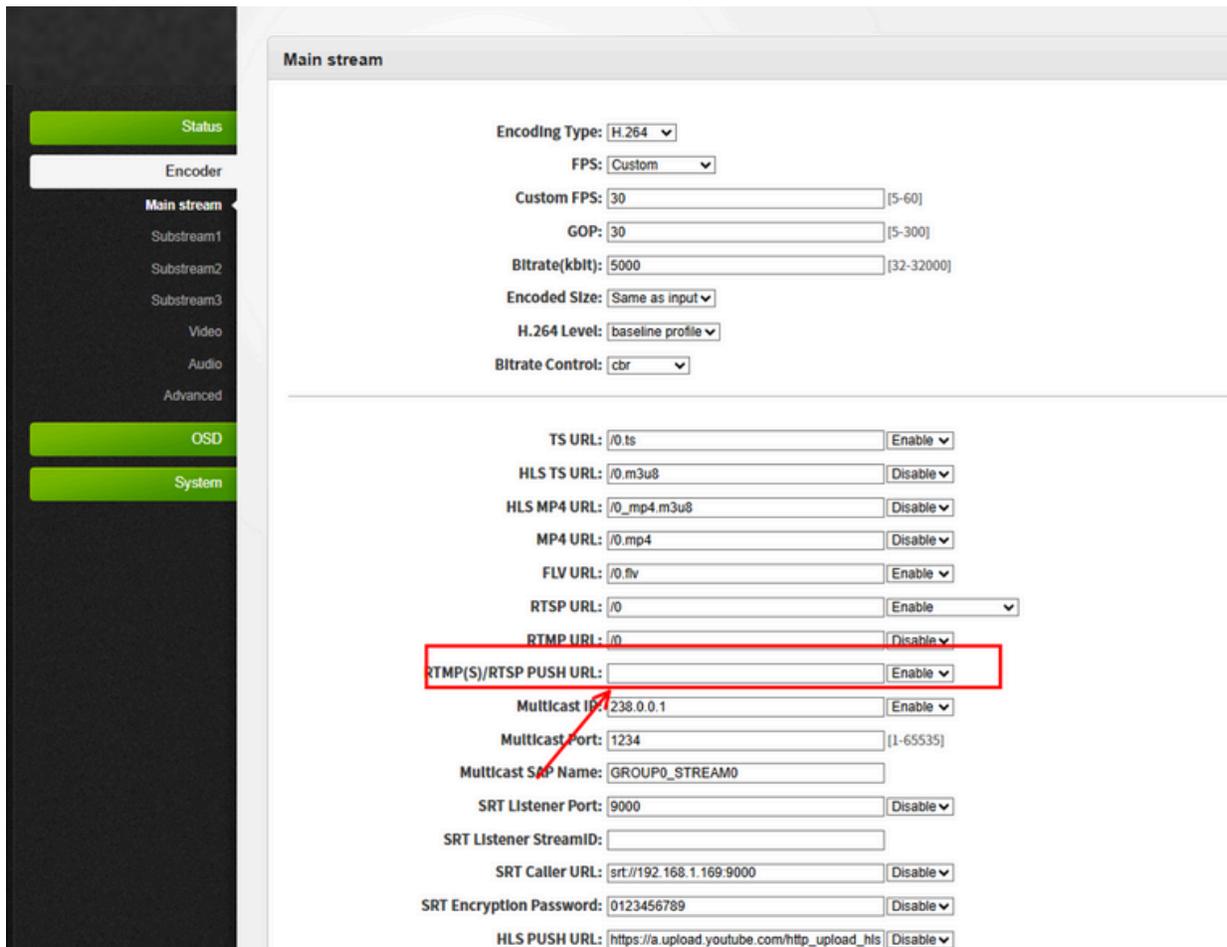
10.5 RTMP: Stream to YouTube Live

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).

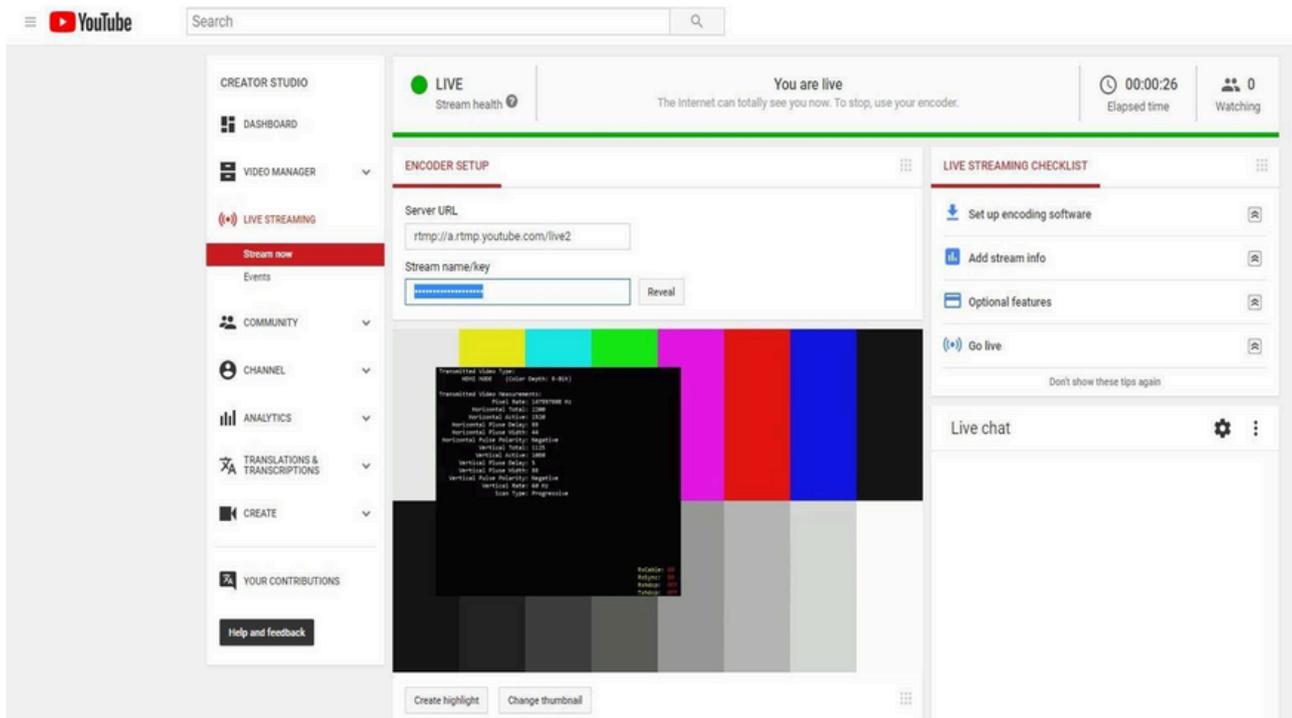
Full RTMP URL Example: `rtmp://a.rtmp.youtube.com/live2/zc3e-yw22-bbdw-baeg`



2. Enter the full RTMP URL into the “RTMP PUBLISH URL” setting of your 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.

11. 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.

12. 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.

13. 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.

14. 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.



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