



# Ezhometech UDP Panel Tutorial

## Reduce HTTP, UDP streams bitrate

Revision: 02/26/2021

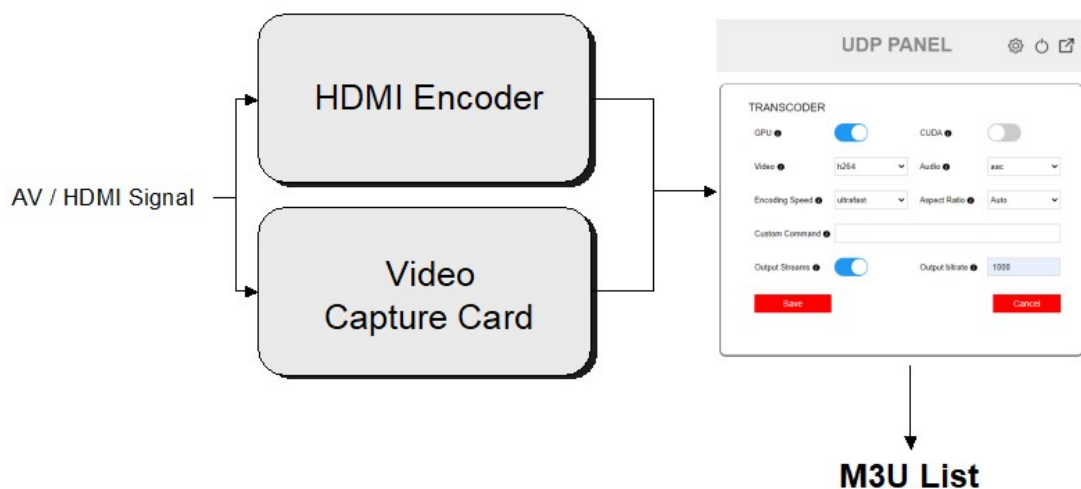


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## 1 Overview of Ezhometech UDP Panel

Ezhometech UDP Panel gets HTTP m3u URL, multicast / unicast UDP streams from HDMI Encoder or Video Capture Card, then reduces video bitrate and provides m3u URLs for IPTV servers or players. The output video container is MPEG TS with h264 or h265 and audio container is ADTS with aac or mp3. It can support one channel input and output at most 3 different codec or bitrate streams.



### 1.1 Related Information

Ezserver Forum:

<https://ezserver.createaforum.com/>

GPU driver and ffmpeg installation Guide

[http://www.ezhometech.com/html/udp\\_panel\\_user\\_guide.html](http://www.ezhometech.com/html/udp_panel_user_guide.html)

## 2 UDP Panel

Login menu:

### UDP Panel

Admin Only

Username

Password

[LOGIN](#)

Ezhometech Inc.

Dashboard:

UDP PANEL
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**SYSTEM V1.1(12/01/21)**

Uptime	0 Day 0:01:55
Network interface	eno1 (0CC47A141AAC)
Download bandwidth	0.00 Mbps
Upload bandwidth	12.36 Mbps
Total RAM size	31.33 GB
Available RAM size	28.15 GB
Disk Use	40%
Load average	0.56

**CHANNELS**

Active channels  
**2**

Total channels    2

**CONNECTIONS**

Current connections  
**0**

Stream URL #1

Stream URL #2

Stream ABR URL

Hardware Requirement:

- **Min. Requirement:** Dual-Core, 8GB RAM, 1GB Network card.
- **Nvidia GPU card**





Software Requirement:















- **Linux:** Ubuntu 20.04(Recommended), Debian, Centos

## 3 Input Setting

### Panel Setting

PANEL SETTING

Admin password 	<input type="text" value="1234"/>	Re-password 	<input type="text" value="1234"/>
Output password 	<input type="text" value="12345"/>	Re-password 	<input type="text" value="12345"/>
Panel port 	<input type="text" value="18010"/>	Output port 	<input type="text" value="8010"/>
Total Channel 	<input type="text" value="10"/>	Max. Client 	<input type="text" value="1000"/>
Input Adapter 	<input type="text" value="38.17.4.160"/> 	Output Stream 	<input type="text" value="2"/> 
Input Buffer size 	<input type="text" value="7000"/>		
Input url 	<input type="text" value="http://192.168.9.10:18000/input.m3u"/>		

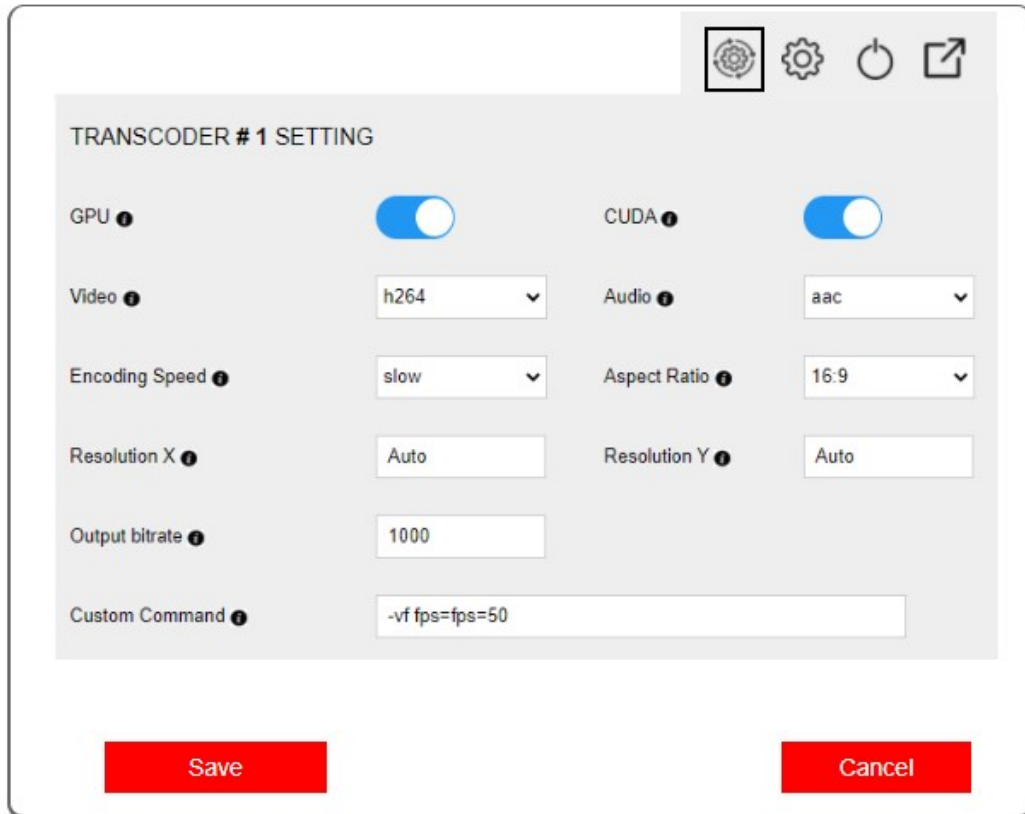
Save

Cancel

- **Panel port:** Login menu port number
- **Output port:** m3u list output stream port for IPTV servers or players
- **Total channel:** Input total channel number
- **Max clients:** The max output connection number
- **Input Adapter:** The IP of Multicast UDP input network card
- **Output Stream:** Transcoding no. for each channel
- **Input Buffer size:** Unit is KByte for each input channel
- **Input URL:** Import channels by a m3u link or multicast udp starting IP here, it supports HTTP, UDP Multicast and Unicast Input
  - ✧ HTTP URL:
    - ❑ `http://192.178.1.2/get.php?username=test&password=1234&type=m3u`
    - ❑ or upload **channel.m3u** into `udp_panel` folder
  - ✧ Multicast SPTS URL: `udp://224.1.1.1:9001`
  - ✧ Multicast MPTS URL: `udp://224.1.1.1:9001/1001`
  - ✧ Unicast UDP URL: `udp://9001`

## 4 Transcoding Setting

Transcoding menu



TRANSCODER # 1 SETTING

GPU       CUDA

Video       Audio

Encoding Speed       Aspect Ratio

Resolution X       Resolution Y

Output bitrate

Custom Command

**Save**      **Cancel**

- **GPU:** GPU or CPU for transcoding
  - ✧ For GPU option, please install GPU driver and ffmpeg from [http://www.ezhometech.com/html/udp\\_panel\\_user\\_guide.html](http://www.ezhometech.com/html/udp_panel_user_guide.html)
- **CUDA:** Nvidia card for input stream use
- **Encoding Speed:** **slow option for GPU enabled**, others for CPU enabled
- **Output bitrate:** reduced output stream bitrate
- **Custom Command:** add more ffmpeg options
  - ✧ Ex. -analyzeduration 5000000 -probesize 500000 **-i** -vf fps=fps=50
  - ✧ Use "**-i**" to separate input and output options




## 5 Output URL

Dashborad Connection menu

### CONNECTIONS

Current connections

0

Stream URL #1	<input type="text" value="http://38.17.49.160:8010/getlink?username=UDP&amp;passw"/>	
Stream URL #2	<input type="text" value="http://38.17.49.160:8010/getlink?username=UDP&amp;passw"/>	
Stream ABR URL	<input type="text" value="http://38.17.49.160:8010/getlink?username=UDP&amp;passw"/>	

- Stream URL #. depends on **Panel Setting: Output Stream** (value 1~3).