

# ULTRA ENCODE PLUS

User Manual, Reference and FAQ



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# Preface



## Introduction

Our Ultra Encode family of universal live media encoders offers systems integrators, streaming professionals, and OEM partners a flexible and affordable encoding solution for applications including live streaming, AV over IP, remote contribution, IP production workflows and much more. Available in HDMI and SDI models, it builds on the functionality of the Ultra Encode family with expanded features including 4K encoding and streaming from the HDMI input; simultaneous multi-protocol streaming; higher streaming bitrates; file recording; and much more. This device is ideal for high-quality live streaming of content including sports, education, and live events as well as IP-based production and AV-over-IP.

Encoder supports multiple video encoding formats – including H.264, H.265 (HEVC), NDI®|HX2, and NDI®|HX3 – and a wide array of delivery protocols including RTMP, RTMPS, SRT, RTSP, HLS, TS over UDP, TS over RTP, ZIXI, RIST and TVU's ISSP technology. Up to eight channels of audio can be encoded in AAC format.

Encoder is ideal for broadcast video and audio, natively support live broadcast for Facebook, YouTube, and Twitch, as well as WOWZA, your own site, with multi-platform distribution. To customize encoder perfectly for your session, we have Web UI, where device work status, a thumbnail preview window and tabs for streaming settings, analytics, and stream health monitoring are provided.

## Key Features

- Support RTSP/RTMP/RTMPS/SRT Caller/SRT Listener/NDI®|HX2/NDI®|HX3/HLS/TS over UDP/TS over RTP/TVU ISSP/ZIXI/RIST streaming protocols
- Dual stream encoding - main-stream and sub-stream
- 8 overlays for main and sub streams each
- Specify main stream or sub stream for each streaming session
- Multi-streaming to various video platforms simultaneously and up to 16 schedules are supported for each session.
- H.264 and H.265 (HEVC) Video encoders
- Recording main or sub streams to SD card, USB drive, and NAS. Up to 16 schedules are supported for each task.
- AAC Audio encoder
- Web UI - a remote network management system - provides webpage configuration with kinds of customization for device functions

## System Requirements

### Network

- 10/100/1000Mbps Ethernet
- Wi-Fi 802.11 a/b/g/n/ac
- USB 4G/5G mobile broadband modem (not included)
- USB Net

### Web UI Supported Web Browser

- Microsoft Edge
- Mozilla Firefox version 61 and above
- Google Chrome version 49 and above
- Apple Safari 11.1 and above
- Opera 55.0.2994.44 and above

### Ultra Encode Family

- Ultra Encode HDMI Plus
- Ultra Encode SDI Plus

# Tutorial

Let's learn by example.

Throughout this tutorial, we'll walk you through the creation of a basic YouTube live streaming with Ultra Encode.

It'll consist of two parts:

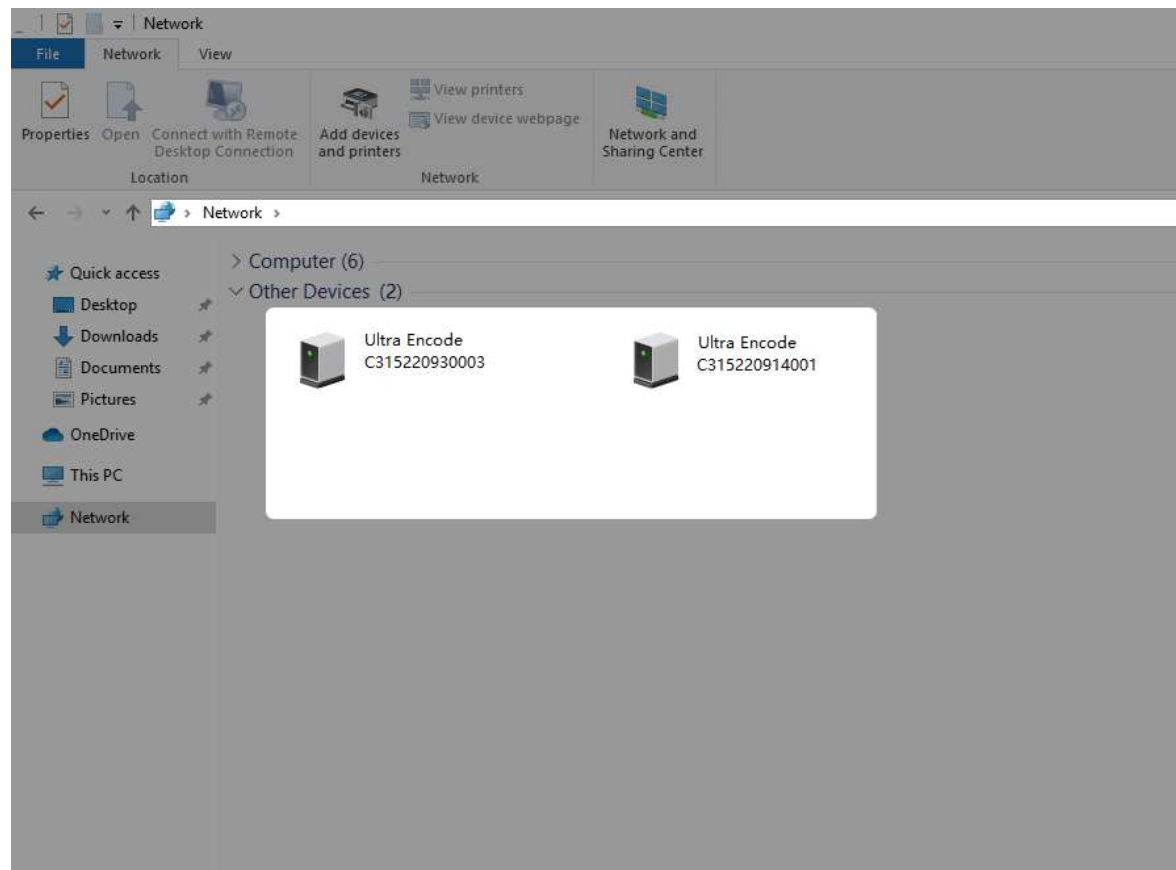
[Part 1. Ultra Encode setup](#)

[Part 2. YouTube setup](#)

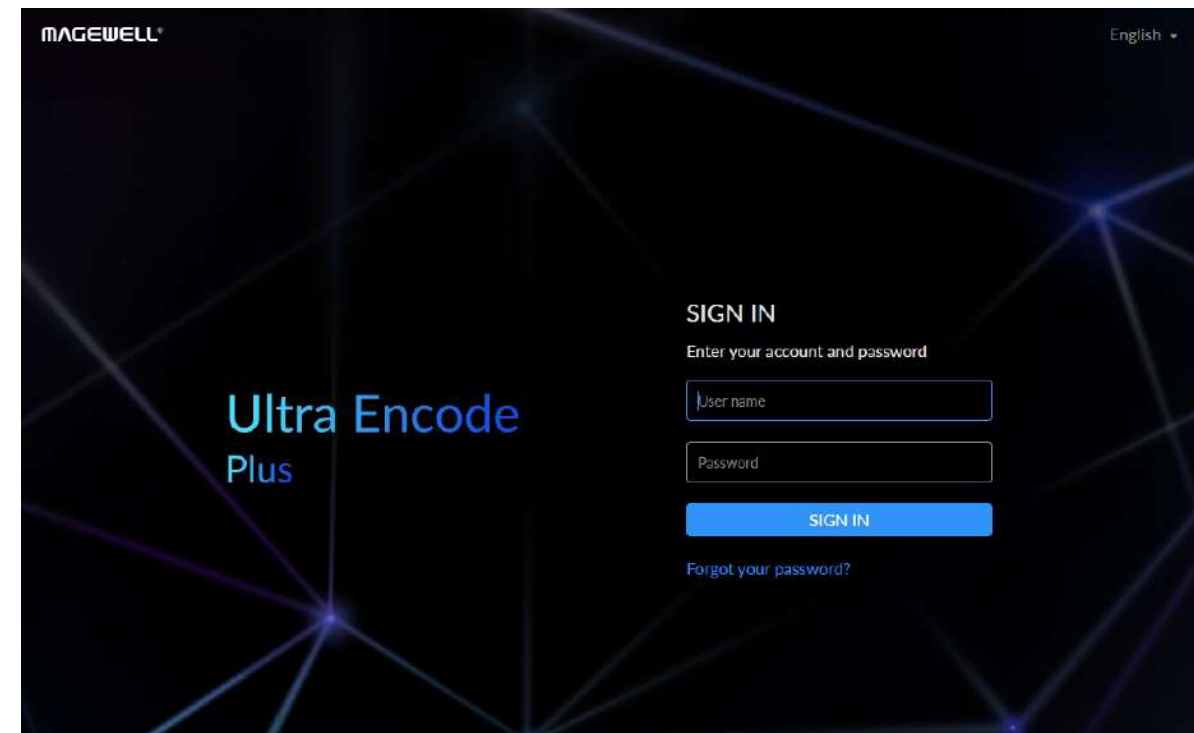
## Part 1. Ultra Encode Setup

### 1. Find Ultra Encode

1. Connect the encoder to a LAN and power it up.
2. Connect input signal.
3. Access Web UI
  - i. In Windows 10, open a File Explorer window, find the encoder in **Network > Other Devices**.
  - ii. Double click a encoder icon to open the Web UI of the device in your default web browser.
4. Log in with your username and password.



Find your Device



Sign In

## 2. Add YouTube streaming session

If you need low latency, then YouTube RTMP is the better option. However, if you need adaptive bitrate streaming, then YouTube HLS is the better option.

1. In the left control pane, go to **Live** tab. Click **Add Destination** and choose YouTube RTMP or YouTube HLS.
2. Go to YouTube <https://www.google.com/device>, and paste the code prompted.

YouTube RTMP



Next, visit  
<https://www.google.com/device> on  
your smartphone or computer and  
enter this code:

**YQFG-TGWL** 

Go to YouTube



### Connect a device

Enter the code displayed on your device

Enter code

YQFG-TGWL

Next

3. Follow the page instructions to log in and trust your device.

YouTube RTMP



Next, visit

<https://www.google.com/device> on  
your smartphone or computer and  
enter this code:

**YQFG-TGWL**

Go to YouTube

Sign in with Google



Choose an account

to continue to **Ultra Streamer**



Use another account

To continue, Google will share your name, email address, language preference, and profile picture with Ultra Streamer. Before using this app, you can review Ultra Streamer's [privacy policy](#) and terms of service.

4. Choose the **Event** where you want to show your video clips.  
Then you can simply save the server with default parameters for streaming.
5. **Content made for kids** switch is off by default. You can go to [Youtube Help](#) to get detailed requirements.
6. Go back to the **Live** tab and turn on the switch before YouTube icon to start the streaming session.  
Now the encoder is ready to bring your content to YouTube directly with all these settings.

## Part 2. YouTube Setup

Create a live stream task in YouTube Studio to go live, and specify the Title, Category, Privacy, etc.

The screenshot shows the YouTube Studio interface for configuring a live stream. The main area is titled "Connect streaming software to go live" and includes a "STREAM SETUP HELP" link. The right sidebar shows the stream details: Title "Live Stream", Category "Gaming", Privacy "Private", Viewers waiting "0", and Likes "0". Below this, there are tabs for "STREAM SETTINGS", "ANALYTICS", and "STREAM HEALTH". The "STREAM SETTINGS" tab is active, showing fields for "Stream key" (Default stream key (Variable)), "Stream URL" (rtmp://), and "Backup server URL" (rtmp://). There are also "RESET" and "COPY" buttons for the stream key and URL. The "Additional settings" section includes "Enable DVR" (checked), "360° video" (unchecked), "Added delay" (None), "Closed captions" (unchecked), and "Unlist live replay once stream ends" (unchecked). The "Stream latency" section has three options: "Normal latency", "Low-latency" (selected), and "Ultra low-latency". The bottom right corner shows a "Live chat" section with a welcome message and a "Say something..." input field.

Studio

Connect streaming software to go live

Viewers will be able to find your stream once you go live

[STREAM SETUP HELP](#)

Title **Live Stream** [EDIT](#)

Category **Gaming** **Game**

Privacy **Private**

Viewers waiting **0** Likes **0**

● Start sending us your video from your streaming software to go live

**STREAM SETTINGS** ANALYTICS STREAM HEALTH

Stream key

Select stream key

**Default stream key (Variable)**

Stream key (paste in encoder)

..... [RESET](#) [COPY](#)

Stream URL

**rtmp://** [COPY](#)

Backup server URL

**rtmp://** [COPY](#)

Stream latency

Normal latency ?

Low-latency ?

Ultra low-latency ?

Additional settings

Enable DVR

360° video

Added delay

**None**

Closed captions

Unlist live replay once stream ends

Live chat

Welcome to live chat! Remember to guard your privacy and abide by our community guidelines.

[LEARN MORE](#)

Say something... 0/200

# Installation

## Safety Information

### Electrical Safety

- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that you are using the correct power adapter for the local voltage. If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power adapter is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer for help.

### Operation Safety

- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you notice any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- If you encounter technical problems with the product, contact your dealer or the Magewell Support Team via [support@magewell.net](mailto:support@magewell.net).

## FCC Compliance Statement

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 cause undesired operation
- (2) this device must accept any interference received, including interference that may cause undesired operation.

## FCC Statement

This device 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 provide reasonable protection against harmful interference in a residential installation. This device 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 device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located for operating in conjunction with any other antenna or transmitter.

## Interfaces & Indicators

### Ultra Encode HDMI Plus

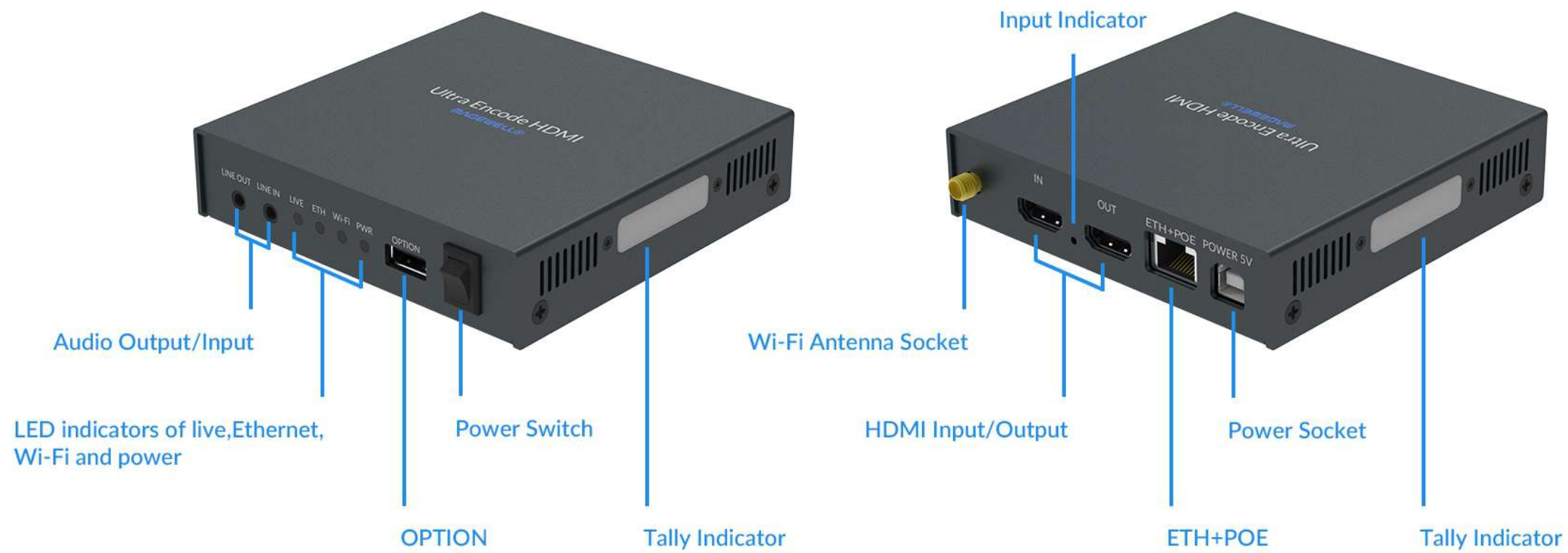


Figure 1 Ultra Encode HDMI

⚠ Plug included Wi-Fi antenna when you want to connect to a wireless network.

## Ultra Encode SDI Plus

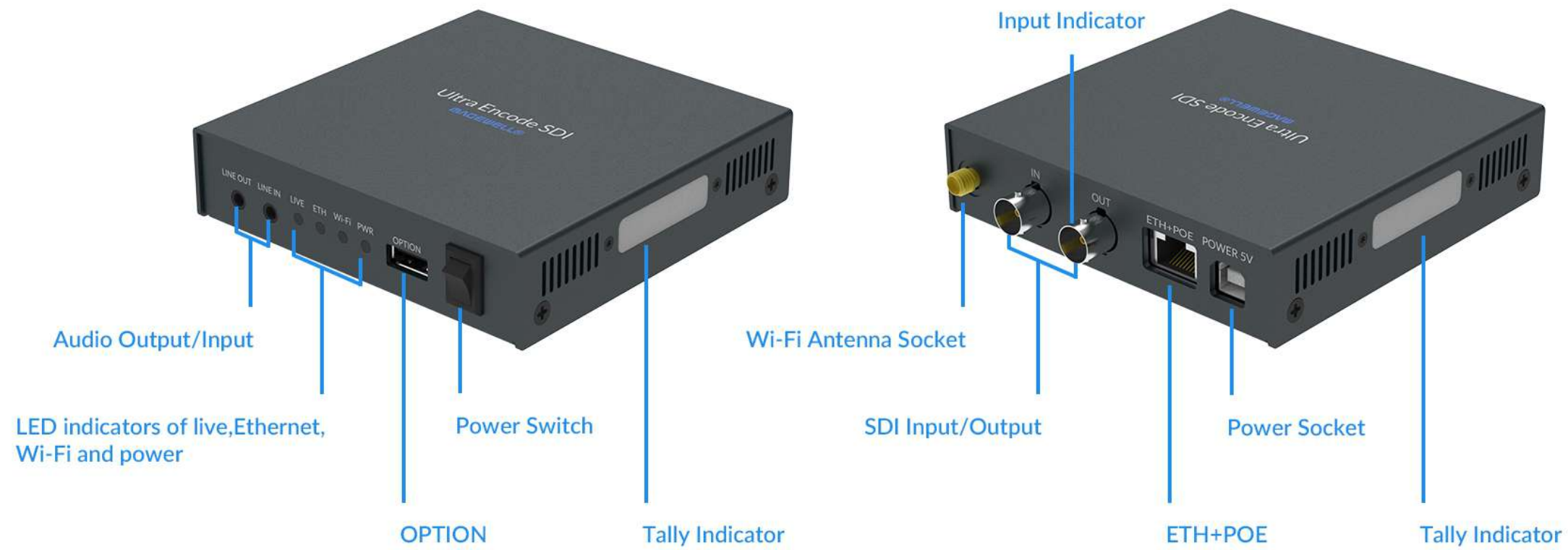


Figure 2 Ultra Encode SDI

⚠ Plug included Wi-Fi antenna when you want to connect to a wireless network.

## Indicators

Indicators status is as follows.

### PWR (Power)

- On: power on.
- Off: power off.

### IN (HDMI/SDI)

- On: input signal detected.
- Breathing: input signal undetected.

### LIVE

- On: the encoder is streaming to at least one streaming address.
- Breathing: none of the live sessions is enabled.

### ETH

- On: Ethernet connected.
- Off: Ethernet unconnected.

### Wi-Fi

- On: Wi-Fi connected.
- Breath: Wi-Fi not connected or connecting.

### Tally (For NDI)

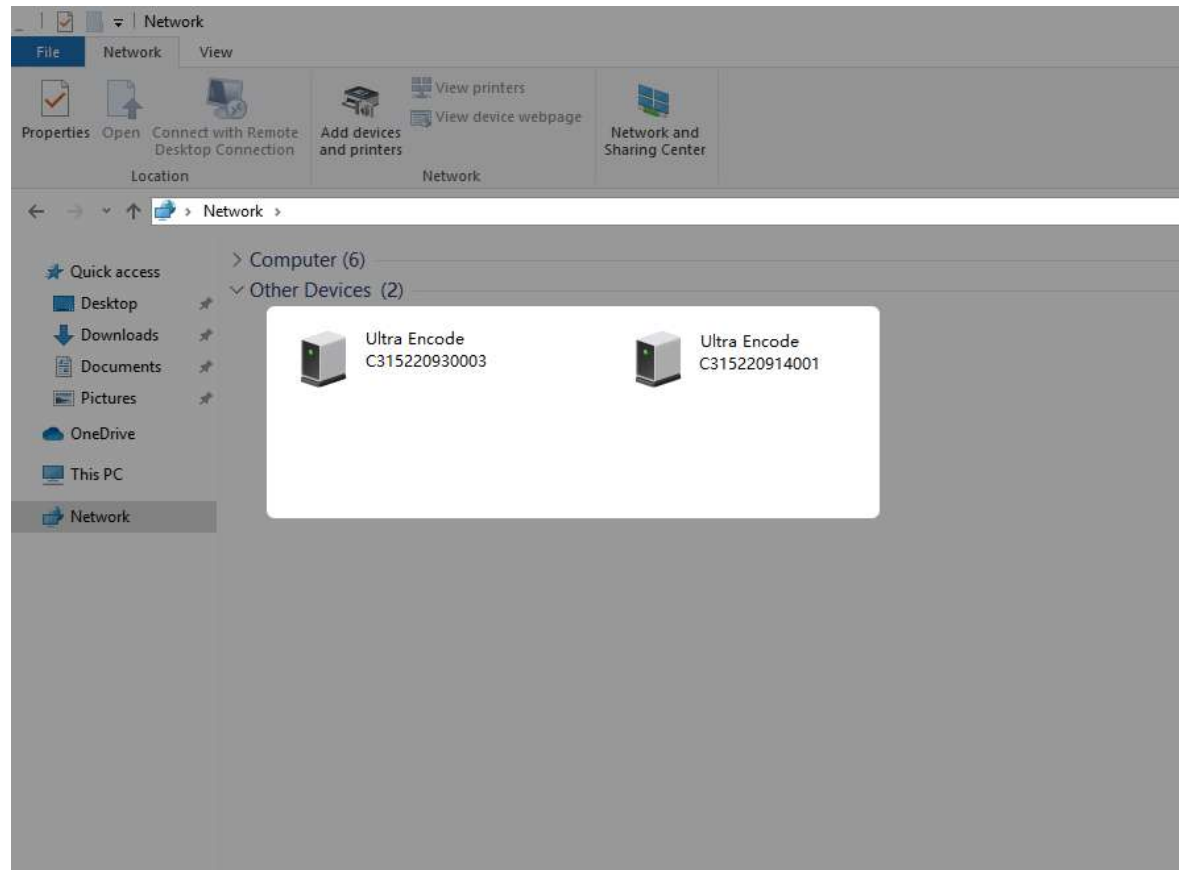
- Two-green-on: Preview
- Two-red-on: Program

Multiple indicators flash:

- The indicator lights of live, Eth, Wi-Fi flash once simultaneously: system is booting up or rebooting.
- The indicator lights of live, Eth, Wi-Fi flash in turn: firmware is updating.

⚠ If any other status appear, please try to unplug and re-plug in the power cable to recover your encoder.

# Get Started With Ultra Encode



## Access Web UI

Manage your device via wired networks, USB NET, or Wi-Fi.

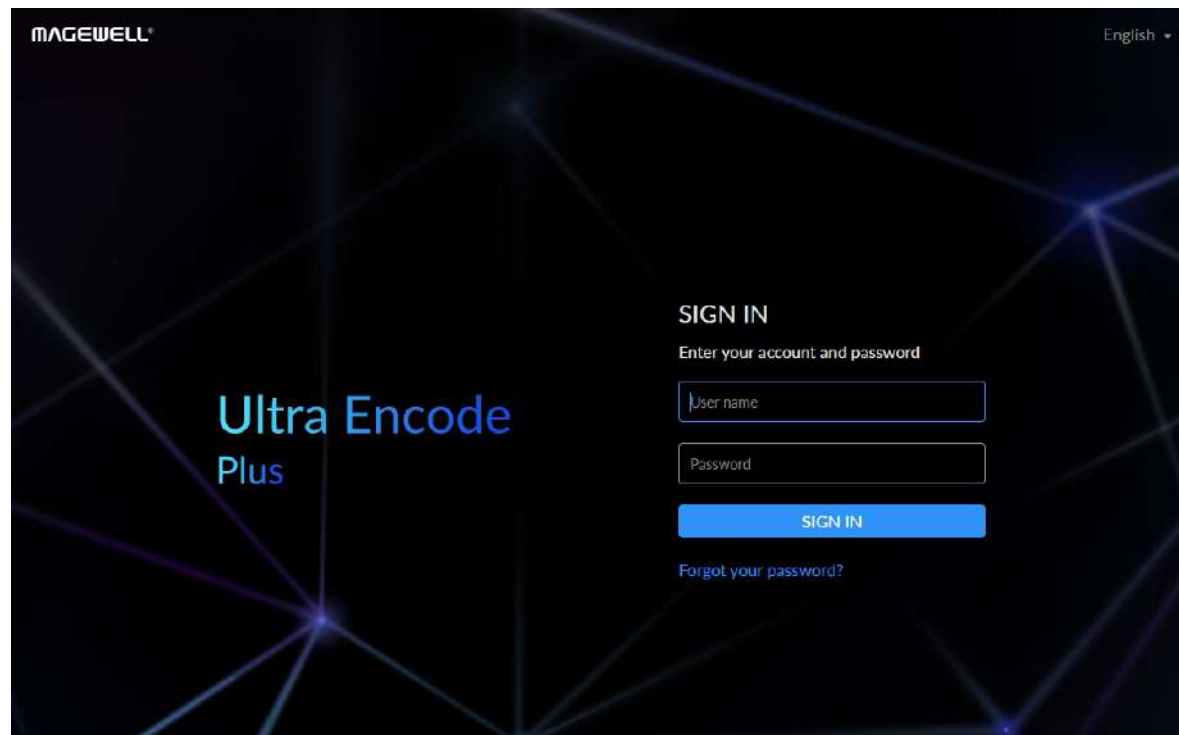
1. Connect your device to your LAN and power it up.  
The device may be powered by PoE through the ETH+PoE port or by DC input using the provided power adapter.

⚠ To ensure a smooth video, you are recommended to connect to a wired network.

2. Open Web UI:
  - Via File Explorer on Windows 7 and above
    - i. Open File Explorer in your PC, then locate your device in **Network > Other Devices**.
    - ii. Double click the device icon, open the sign page of Web GUI.
  - Via USB NET, IP Address: 192.168.66.1
    - i. Connect the device to your computer using provided USB cable.
    - ii. Type the USB NET IP address 192.168.66.1 in your web browser to access the Web UI.
  - Via device Wi-Fi AP, IP Address: 192.168.48.1

⚠ Plug included Wi-Fi antenna when you want to connect to a wireless network.

- i. In your smartphone/tablet/laptop, turn on WLAN, search for and join the device AP named **Ultra Encode + (Serial number)**.



The AP names after your gear's **Serial number**, and the password is the last 8-number of the serial number. For example, a serial number 311210101001 indicates the initial AP password is 10101001.

We recommend that the distance between the Web UI and the encoder should be within 10m.

- ii. In your web browser, enter 192.168.48.1 to open the Web UI.
  - Via "device-name.local":
    - i. Connect the Ethernet on the rear panel to the Ethernet based on your specific network requirements.
    - ii. Enter the "device-name.local" on the web browser within the same LAN as the device, to access the Web UI login page. The default device-name is the SN (serial number) marked on the device surface.
3. Input your username and password.
  - The default administrator name and password are both Admin.
  - We recommend you to modify the admin password after initial logging-in.

Set Device Name

- 1. 1-31 characters
- 2. A-Z, a-z, 0-9, space and . \_ - + ' [ ] ( )
- 3. Cannot begin or end with a space.

Next

## Initialization

Follow the instructions of the Web UI to perform the device initialization and set a new device name.

# Web UI Configuration

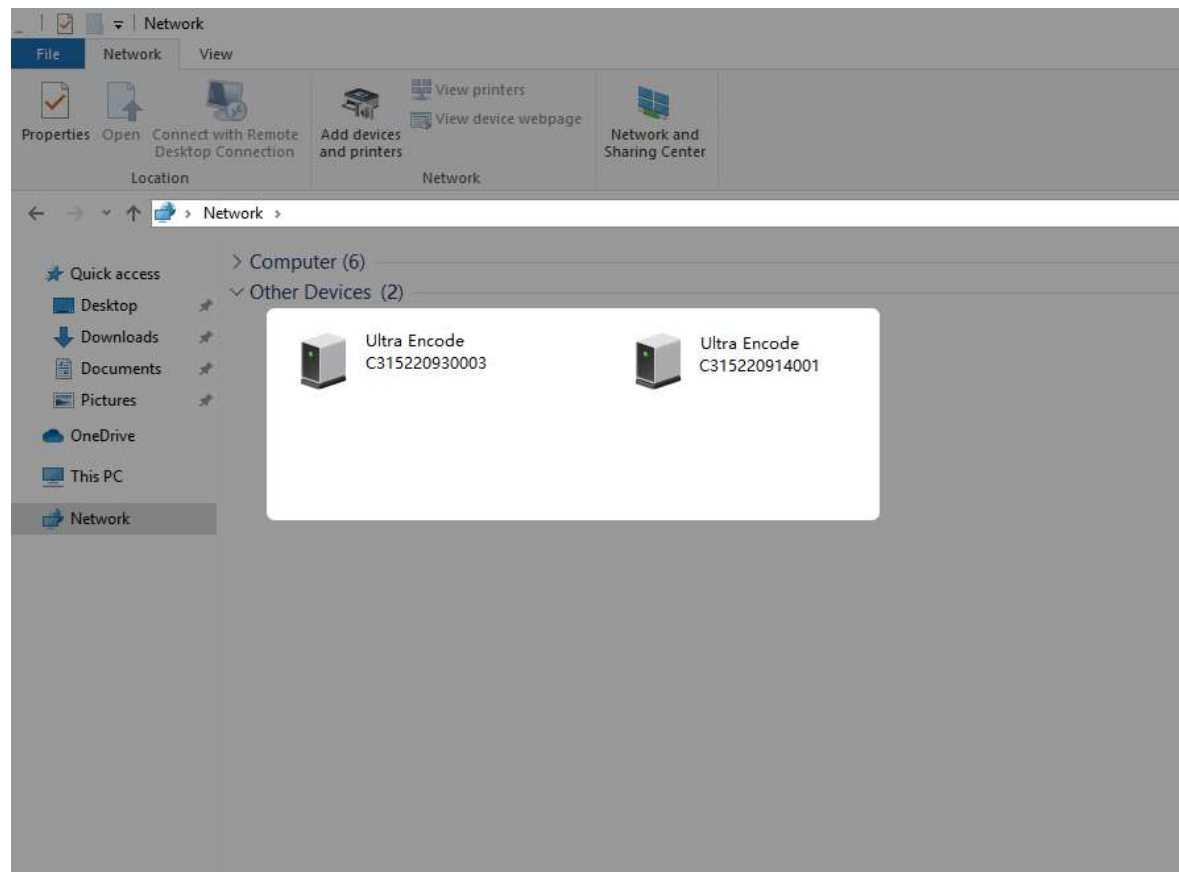


Fig1 Find your device in Windows > Network

## Accessing the Web UI

A free tool, Web UI, is provided to monitor and manage device status and configuration. If you know your device's IP address, type it into your web browser to access the Web UI. Alternatively, you can access the Web UI via wired Ethernet, USB NET, or Wi-Fi following the steps below.

1. Connect your device to your LAN and power it up.  
The device may be powered by PoE through the ETH+PoE port or by DC input using the provided power adapter.

⚠ To ensure a smooth video, you are recommended to connect to a wired network.

2. Access Web UI:
  - Via File Explorer on Windows 7 and above
    - i. Open File Explorer in your PC, then locate your device in **Network > Other Devices**.
    - ii. Double click the device icon to open the sign page of Web UI.
  - Via USB NET, IP Address: 192.168.66.1
    - i. Connect the device to your computer using provided USB cable.
    - ii. Type the USB NET IP address 192.168.66.1 in your web browser to access the Web UI.
  - Via device Wi-Fi AP, IP Address: 192.168.48.1

⚠ Plug included Wi-Fi antenna when you want to connect to a wireless network.

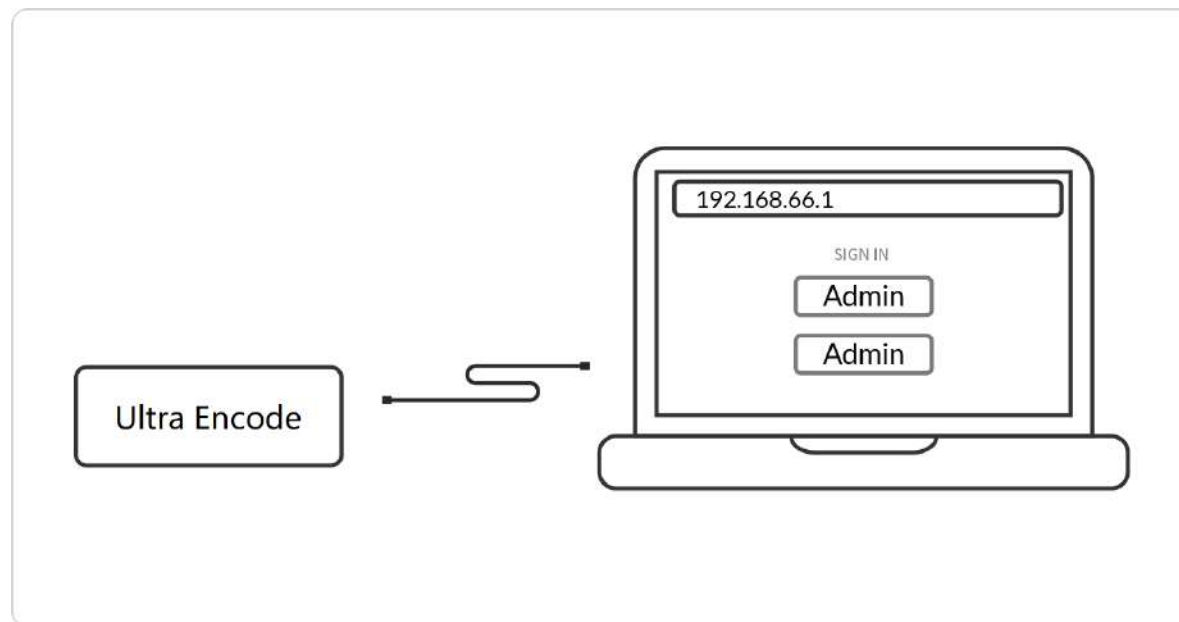


Fig2 USB NET connection

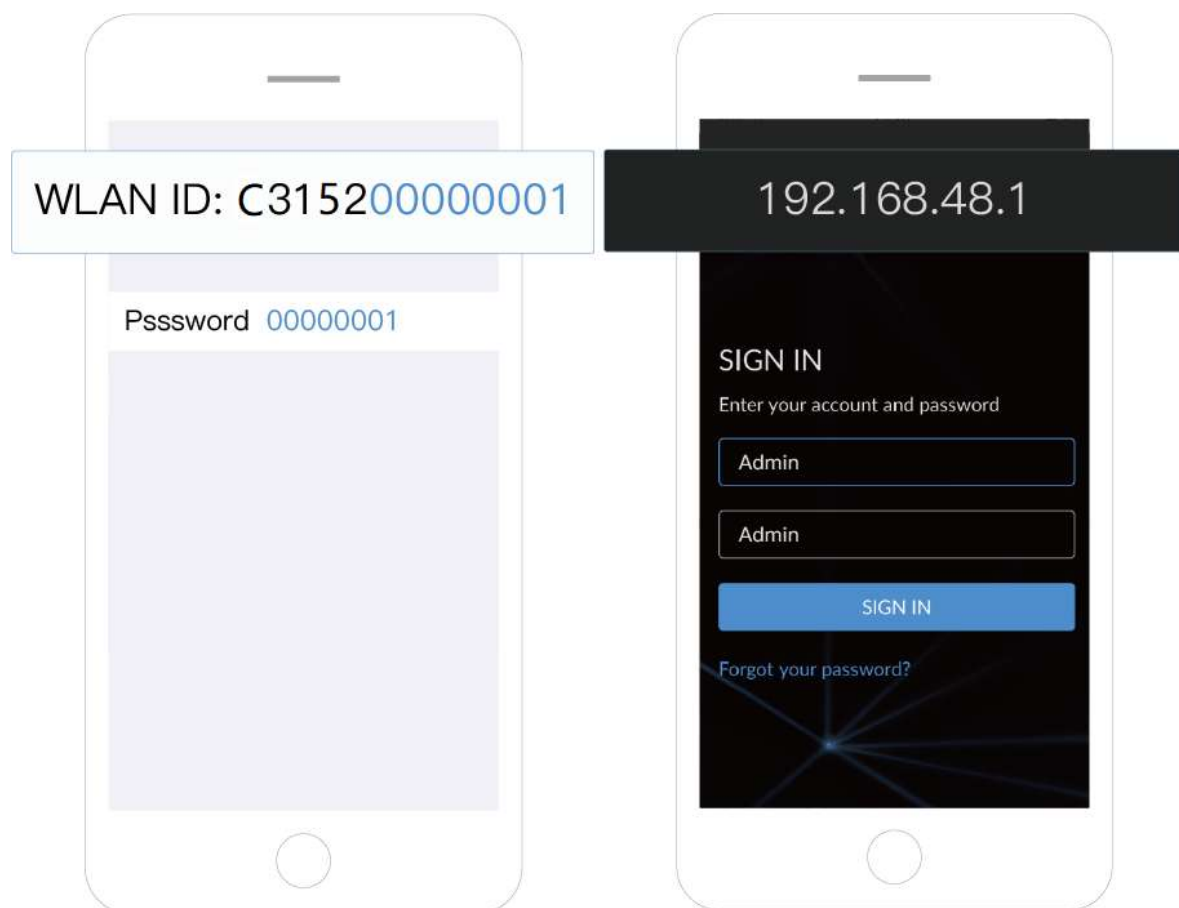
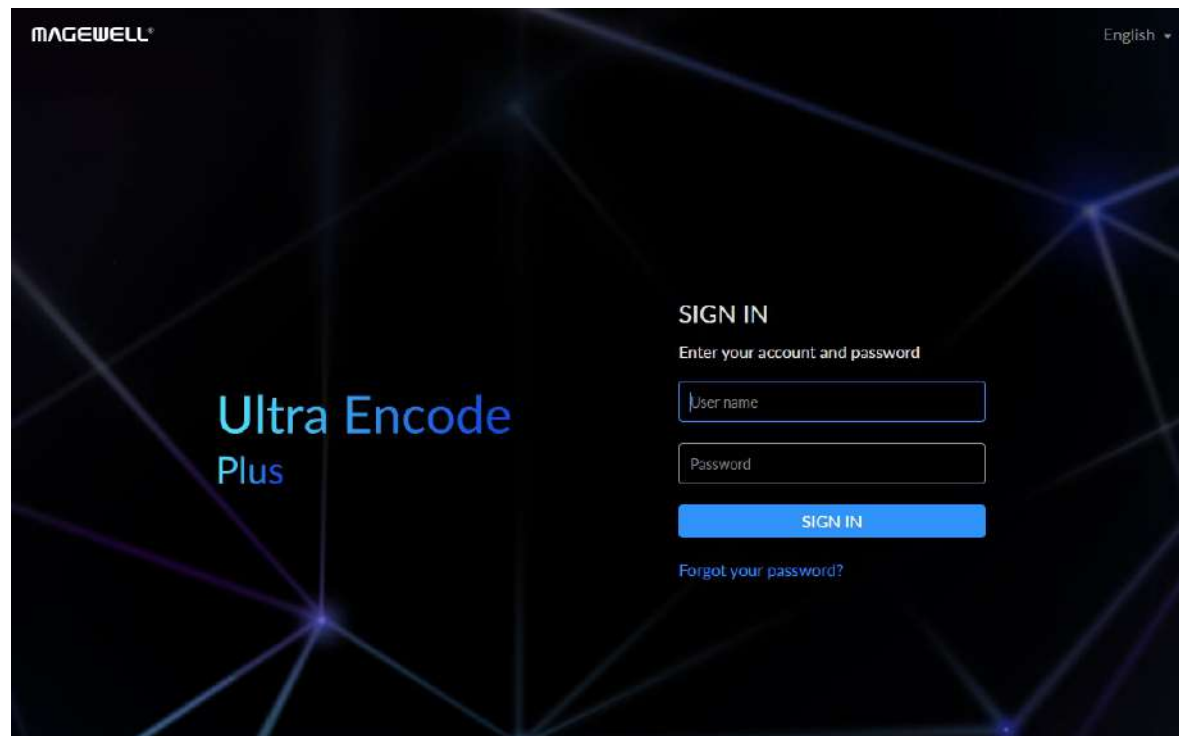


Fig3 AP connection

- i. In your smartphone/tablet/laptop, turn on WLAN, search for and join the device AP named **Ultra Encode + (Serial number)**.


The AP names after your gear's **Serial number**, and the password is the last 8-number of the serial number by default. For example, a serial number 311210101001 indicates the initial AP password is 10101001. We recommend that the distance between the Web UI and the encoder should be within 10m.

- ii. In your web browser, enter 192.168.48.1 to open the Web UI.
- iii. Via "device-name.local":
  - i. Connect the Ethernet on the rear panel to the Ethernet based on your specific network requirements.
  - ii. Enter the "device-name.local" on the web browser within the same LAN as the device, to access the Web UI login page. The default device-name is the SN (serial number) marked on the device surface.



## Signing In/Out

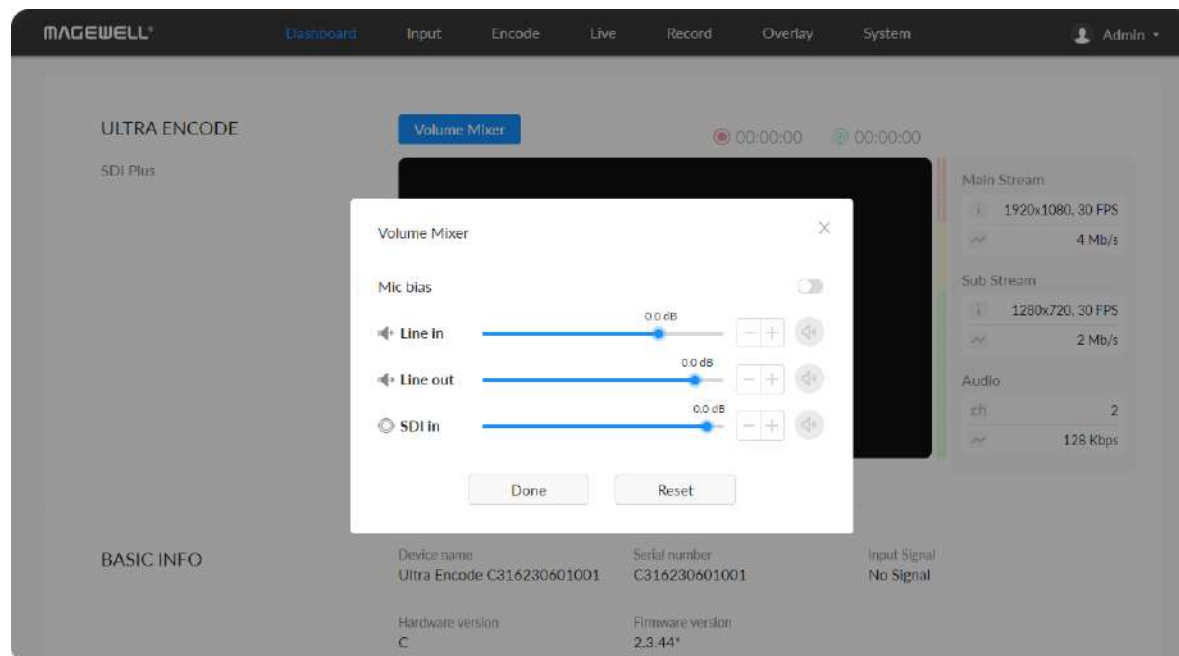
The Web UI allows multiple users to have read/write access to make configuration settings at the same time after logging-in. However, to avoid configuration conflicts, we do not recommend you to operate one device simultaneously.

1. Sign In: enter your account and password in the **SIGN IN** page.
  - The default administrator name and password are both Admin.
  - We recommend you to modify the admin password after initial logging-in.
2. Sign Out: click the down arrow symbol  behind the logging-in username at the top-right of the Web UI, and select **Sign out**.

## Dashboard

On **Dashboard** page, you can

- preview the thumbnail of the encoded video
- check device hardware information
- check system status
- set global volume mixer
- check product module at the upper left corner



## Setting Volume Mixer

- **Mic Bias:** turn it on when connecting a microphone via line in. It allows flowing way power (around 2.3V) to the jack which makes the microphone sound. It is off by default.
- **LINE IN:** adjust the audio connected to the LINE IN. Click to fine tune the volume at 0.1dB.
- **LINE OUT:** adjust the LINE OUT audio which remixes audio embedded in input signal and LINE IN. Click to fine tune the volume at 0.1dB.
- **HDMI/SDI IN:** adjust input signal volume
- : mute current channel. Click to fine tune the volume at 0.1dB.
- : restore current channel to default value
- **Reset:** restore all settings of the volume to default settings
- **Done:** click to save your configuration

The screenshot displays the MAGEWELL Ultra Encode web interface. At the top, there is a navigation bar with links for Dashboard, Input, Encode, Live, Record, Overlay, System, and Admin. The main content area is divided into several sections:

- Ultra Encode:** Features a "Volume Mixer" control, a "Live" status indicator with a timer at 02:11:52, and a "Record" button with a timer at 00:00:00. A central video preview window shows a scene with the text "Big Buck BUNNY" overlaid. To the left of the preview is a vertical volume bar with a green-to-red gradient. Below the preview, it says "Low resolution preview".
- Main Stream:** Shows a resolution of 1920x1080 at 29.97 FPS and a bitrate of 8 (8.05) Mbps.
- Sub Stream:** Shows a resolution of 1280x720 at 25 FPS and a bitrate of 1.5 (1.37) Mbps.
- Audio:** Shows 2 channels and a bitrate of 128 (128.26) Kbps.
- Basic Info:** Provides device details: Device name (zj Ultra Encode C315230423004), Serial number (C315230423004), Input Signal (HDMI, 1920x1080i, 59.94Hz, 48.00KHz), Hardware version (C), and Firmware version (2.3.325\*).
- Status:** Displays system health metrics: CPU (21% usage, 1.5GHz, 84°C), Memory (40% usage), Ethernet (Send: 626.33 Kb/s, Receive: 8.69 Mb/s), Wi-Fi (Send: 31.31 Kb/s, Receive: 6.01 Kb/s), and Mobile (Disconnected).

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## Previewing Thumbnails

Thumbnails, with a low resolution of 640x360, give you a quick snapshot of video being encoded.

The screenshot displays the MAGEWELL Ultra Encode web interface. At the top, there is a navigation menu with options: Dashboard, Input, Encode, Live, Record, Overlay, System, and Admin. The main content area is divided into several sections:

- Ultra Encode:** Includes a Volume Mixer control, Live/Record status indicators, and a central video preview window showing a scene with the text "Big Buck BUNNY". Below the preview is a "Low resolution preview" label.
- Main Stream:** Displays 1920x1080, 29.97 FPS and 8 (8.05) Mbps.
- Sub Stream:** Displays 1280x720, 25 FPS and 1.5 (1.37) Mbps.
- Audio:** Shows 2 channels and 128 (128.26) Kbps.
- Basic Info:** A white box containing the following details:
 

Device name	zj Ultra Encode	Serial number	C315230423004	Input Signal	HDMI, 1920x1080i, 59.94Hz, 48.00KHz
Hardware version	C	Firmware version	2.3.325*		
- Status:** A section with four performance metrics:
  - CPU:** 21% usage, 1.5GHz, 84°C.
  - Memory:** 40% usage.
  - Ethernet:** Send 626.33 Kb/s, Receive 8.69 Mb/s.
  - Wi-Fi:** Send 31.31 Kb/s, Receive 6.01 Kb/s.
  - Mobile:** Unconnected.

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## Checking BASIC INFO

- **Device name:** device name of your unit. You can modify the device name in the [System > General > Device name](#) section.
- **Serial number:** serial number of your unit, which is also marked on your device.
- **Input Signal:** current input signal format.
- **Hardware version:** hardware version of your unit.
- **Firmware version:** current firmware version that is installed in your unit. You can update the firmware, via the [System > Firmware](#) tab.

The screenshot displays the MAGEWELL Ultra Encode web interface. At the top, there is a navigation bar with options: Dashboard, Input, Encode, Live, Record, Overlay, System, and Admin. The main content area is divided into several sections:

- Ultra Encode:** Includes a Volume Mixer, Live/Record buttons, and a central video preview window showing a scene with the text "Big Buck BUNNY". To the right of the preview, there are stream statistics:
  - Main Stream:** 1920x1080, 29.97 FPS, 8 (8.05) Mbps
  - Sub Stream:** 1280x720, 25 FPS, 1.5 (1.37) Mbps
  - Audio:** 2 ch, 128 (128.26) Kbps
- Basic Info:** A table of device details:
 

Device name	zj Ultra Encode	Serial number	C315230423004	Input Signal	HDMI, 1920x1080i, 59.94Hz, 48.00KHz
Hardware version	C	Firmware version	2.3.325*		
- Status:** A section with four performance indicators:
  - CPU:** 21% usage, 1.5GHz, 84°C
  - Memory:** 40% usage
  - Ethernet:** Send 628.33 Kb/s, Receive 8.69 Mb/s
  - Wi-Fi:** Send 31.31 Kb/s, Receive 6.01 Kb/s
  - Mobile:** Unconnected

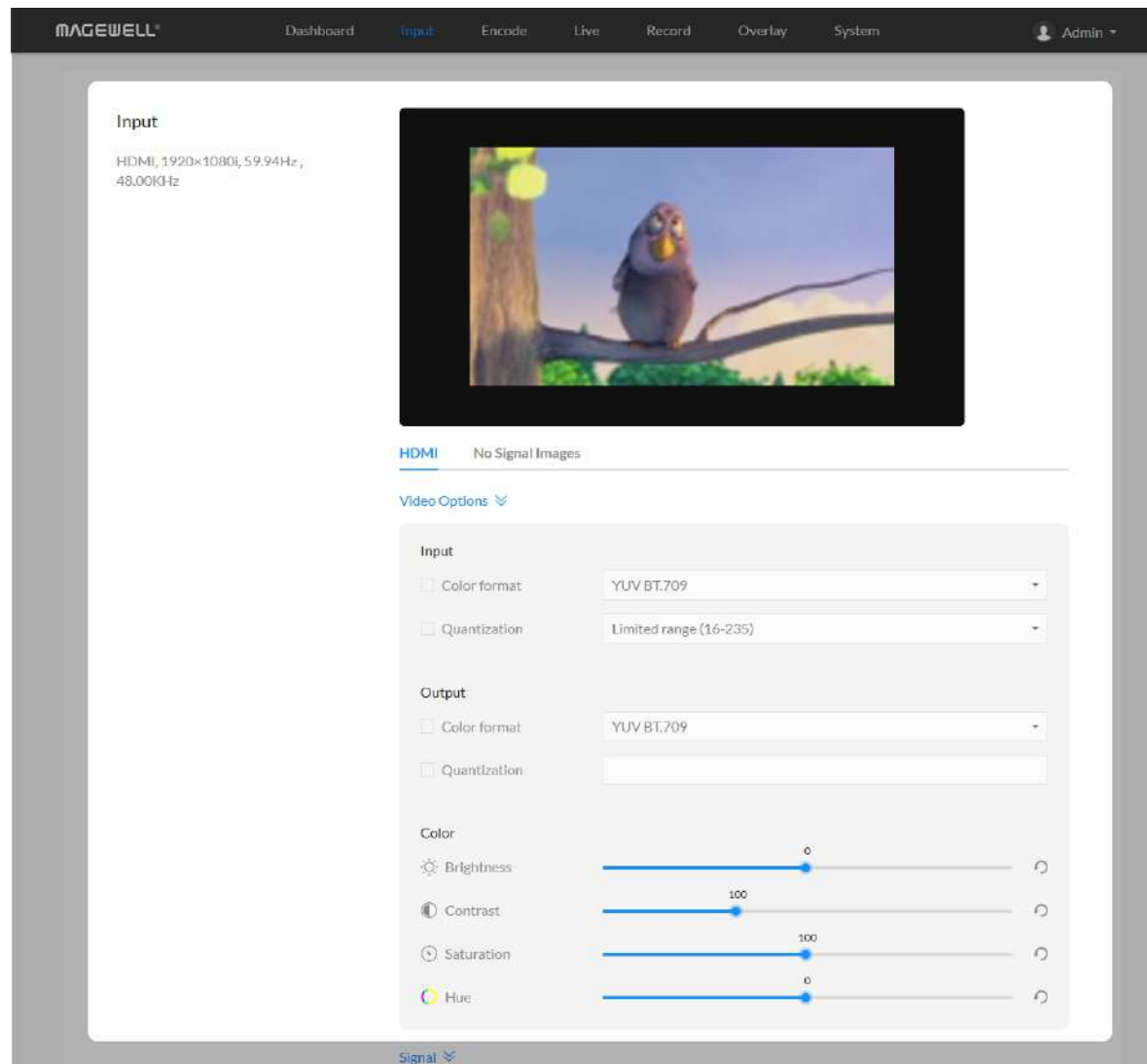
At the bottom, there is a footer with copyright information: © 2025, Nanjing Magewell Electronics Co., Ltd. All rights reserved. and links for Support, User guide, Legal, and Warranty.

## Checking Status

- Gives you an overview of your system CPU, memory usage, network usage in real-time in order to evaluate the device performance & health.

## Input

Click and enter the **Input** tab to check the input signal information detected by the device.



## Set Input Source


- **Color format:** input video color format. Check the box to select other options, including RGB, YUV BT.601, YUV BT.709, YUV BT.2020.
- **Quantization:** input quantization range. Check the box to select other options, including Full range(0-255), Limited range(16-235).

## Setting Output

- **Color format:** check the box to select other options, including YUV BT.601, YUV BT.709.
- **Quantization:** check the box to select other options, including Full range(0-255), Limited range(16-235).

## Setting Color

Set color format of preview and stream video.

- **Brightness:** range from -100 to 100, the default value is 0.
- **Contrast:** range from 50 to 200, the default value is 100.
- **Saturation:** range from 0 to 200, the default value is 100.
- **Hue:** range from -90 to 90, the default value is 0.
- Click  icon to restore the current setting to default value.

The screenshot displays a video status monitoring interface with three main sections: VIDEO STATUS, AUDIO STATUS, and SDI STATUS. Each section contains a table of parameters and their values.

VIDEO STATUS	
Resolution	1920×1080p, 60.00Hz
Color depth	10
Sampling	4:2:2
Aspect ratio	16:9
Color format	BT.709
Frame struct	2D
Quantization range	Limited
Saturation range	Limited

AUDIO STATUS	
Sampling	48000, 24 bits
Channels	8

SDI STATUS	
Link type	Single link
Link speed	3G
Stream type	Single stream
Level B	False
Interlaced	False
Assignment	0
ST 352 payload ID	0x00000000
H total	2200 Pixels
V total	1125 Lines
H active	1920 Pixels
V active	1080 Lines

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## Check Video Status

- **Resolution** shows the input video pixel resolution & frame rate.
- **Color depth** shows the input video color depth, in bits.
- **Sampling** shows the input video color sampling format.
- **Aspect ratio** shows the input video aspect ratio.
- **Color format** shows the input video color encoding format.
- **Frame struct** shows the input video frame type, 2D or 3D.
- **Quantization range** shows the quantization range, Full or Limited.
- **Saturation range** shows the saturation range, e.g. Full or Limited.

## Check Audio Status

- **Sampling** shows the input audio sampling rate and bit depth.
- **Channels** shows the number of input audio channels detected.

## Check SDI Status

NOTE: This parameter is available for SDI products.

- **Link type** shows link type of input SDI signal, including single link, dual link, quad link.
- **Link speed** shows the current data speed.
- **Stream type** shows the number of streams that is contained in the data source.
- **Level B** shows whether the input signal is level B format.
- **Interlaced** shows whether the input signal is interlaced.
- **Assignment** shows the link number, especially when be fed into a source of multi-link interfaces.
- **ST 352 payload ID** shows the SMPTE ST 352 video payload identification code

for SDI.

- **H total** shows the total number of pixels, horizontally.
- **V total** shows the total number of pixels, vertically.
- **H active** shows the number of active pixels, horizontally.
- **V active** shows the number of active pixels, vertically.

Signal

VIDEO STATUS	
Resolution	1920×1080i, 59.94Hz
Color depth	8
Sampling	4:4:4
Aspect ratio	16:9
Color format	BT.709
Frame struct	2D
Quantization range	Limited
Saturation range	Limited

AUDIO STATUS	
Sampling	48000, 24 bits
Channels	2

HDMI STATUS	
Mode	HDMI
HDCP encrypted	False
VIC	5
IT content	False
Pixel rate	74.18 MHz
Timing-H total	2200 Pixels
Timing-H active	1920 Pixels
Timing-H front porch	88 Pixels
Timing-H sync width	44 Pixels
Timing-H back porch	148 Pixels
Timing-V total	1125 Pixels
Timing-V active	540 Pixels
Timing-V front porch	2 Pixels
Timing-V sync width	5 Pixels
Timing-V back porch	15 Pixels

INFO FRAME	
AVI	
Type	0x82
Version	0x02
Length	13 bytes
Checksum	0x82
Data	40 A8 00 05 00 00 00 00 00 00 00 00 00

AUDIO	
Type	0x84
Version	0x01
Length	10 bytes
Checksum	0x70
Data	01 00 00 00 00 00 00 00 00 00

EDID

## Check HDMI Status

NOTE: This parameter is available for HDMI products.

- **Mode** shows the signal type (which is always HDMI for the HDMI product).
- **HDCP encrypted** shows whether the signal source is HDCP encrypted. In accordance with the related laws and regulations, the device doesn't process HDCP encrypted signals, so the value is None.
- **VIC** Video Identification Code, which is defined for CEA formats.
- **IT content** shows whether the transmission package is content.
- **Pixel rate** shows the maximum number of pixels the unit could possibly write to the memory in one second.
- **Timing-H total** shows the total number of pixels, horizontally.
- **Timing-H active** shows the number of active pixels, horizontally.
- **Timing-H front porch** shows the Front Porch width in pixels.
- **Timing-H sync width** shows the Sync Pulse width in pixels.
- **Timing-H back porch** shows Back Porch width in pixels.
- **Timing-V total** shows the total number of pixels, vertically.
- **Timing-V active** shows the number of active pixels, vertically.
- **Timing-V front porch** shows the size of the vertical Front Porch in pixels.
- **Timing-V sync width** shows the width of the vertical Sync Pulse in pixels.
- **Timing-V back porch** shows the size of the vertical Back Porch in pixels.

The screenshot displays two tables for AVI and AUDIO info frames. The AVI table has 5 rows: Type (0x82), Version (0x02), Length (13 bytes), Checksum (0x72), and Data (50 A8 00 05 00 00 00 00 00 00 00 00 00). The AUDIO table has 5 rows: Type (0x84), Version (0x01), Length (10 bytes), Checksum (0x70), and Data (01 00 00 00 00 00 00 00 00 00). Below the tables is an 'EDID' section and an 'INPUT PORT' section with descriptive text.

INFO FRAME	
AVI	
Type	0x82
Version	0x02
Length	13 bytes
Checksum	0x72
Data	50 A8 00 05 00 00 00 00 00 00 00 00 00

AUDIO	
Type	0x84
Version	0x01
Length	10 bytes
Checksum	0x70
Data	01 00 00 00 00 00 00 00 00 00

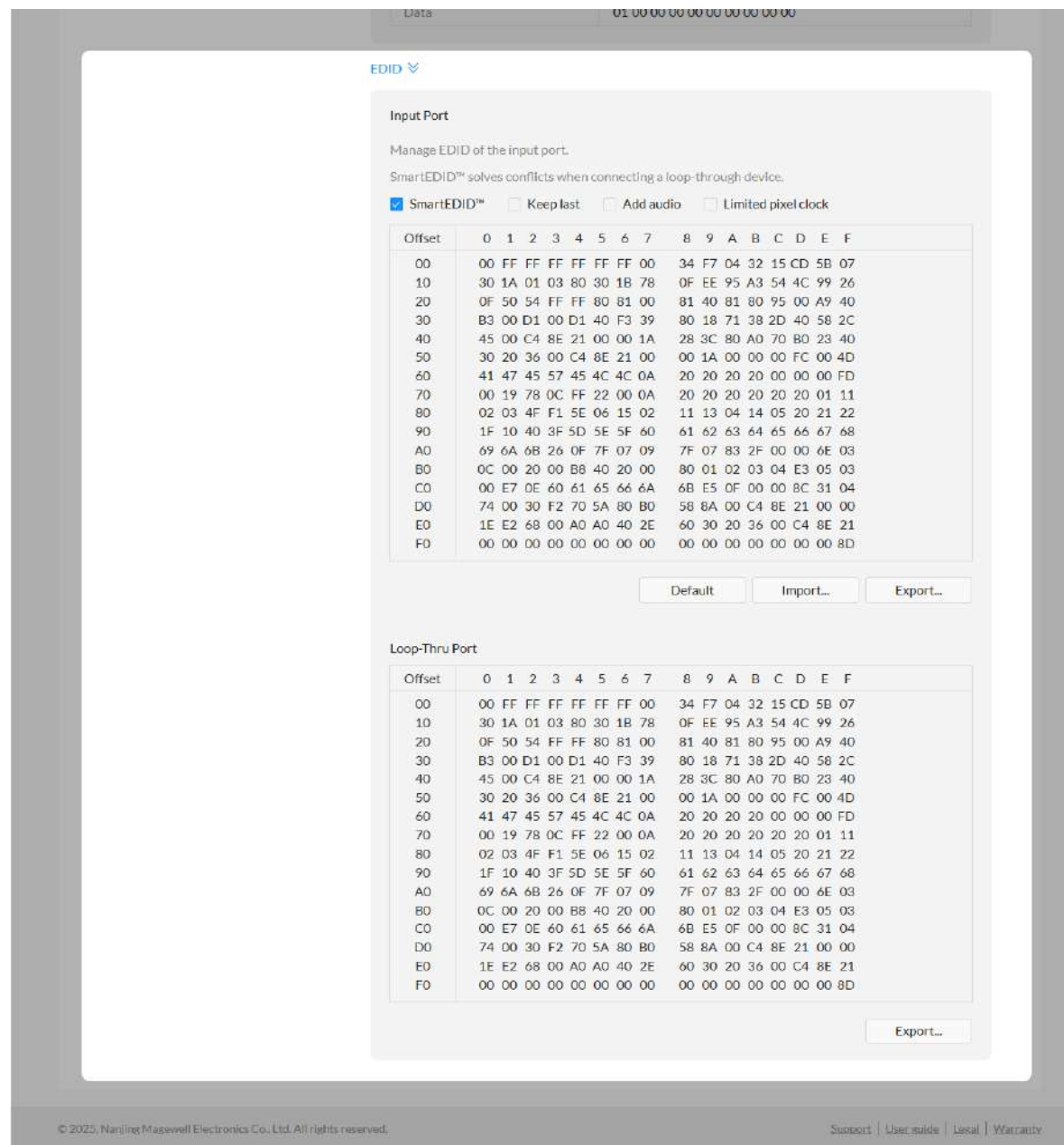
EDID

INPUT PORT  
Manage EDID of the Input port.  
SmartEDID™ solves conflicts when connecting a loop-through device.

## Check HDMI INFO FRAME

The info frames vary from different signal sources, AVI/AUDIO/SPD/VS may be included.

- **Type** shows the packet type.
- **Version** shows the packet Version.
- **Length** shows the length of the AVI InfoFrame payload.
- **Checksum** shows the packet checksum.
- **Data** shows the InfoFrame payload.



## EDID

Click the **EDID** to check the EDID information. By clicking **Reset to Default**, you can cancel your settings.

EDID is only available for products supporting HDMI signal.

## Set SmartEDID™

NOTE: This function is available for HDMI products.

### • SmartEDID™

- SmartEDID™ is enabled by default. When it is disabled, other related functions can not be set.
- Depending on the input capability of the encoder and that of the device connected to the loop-through interface, the encoder will smartly select to send the EDID to the video source device, to ensure both the encoder and the loop-through device can obtain the signal they support.

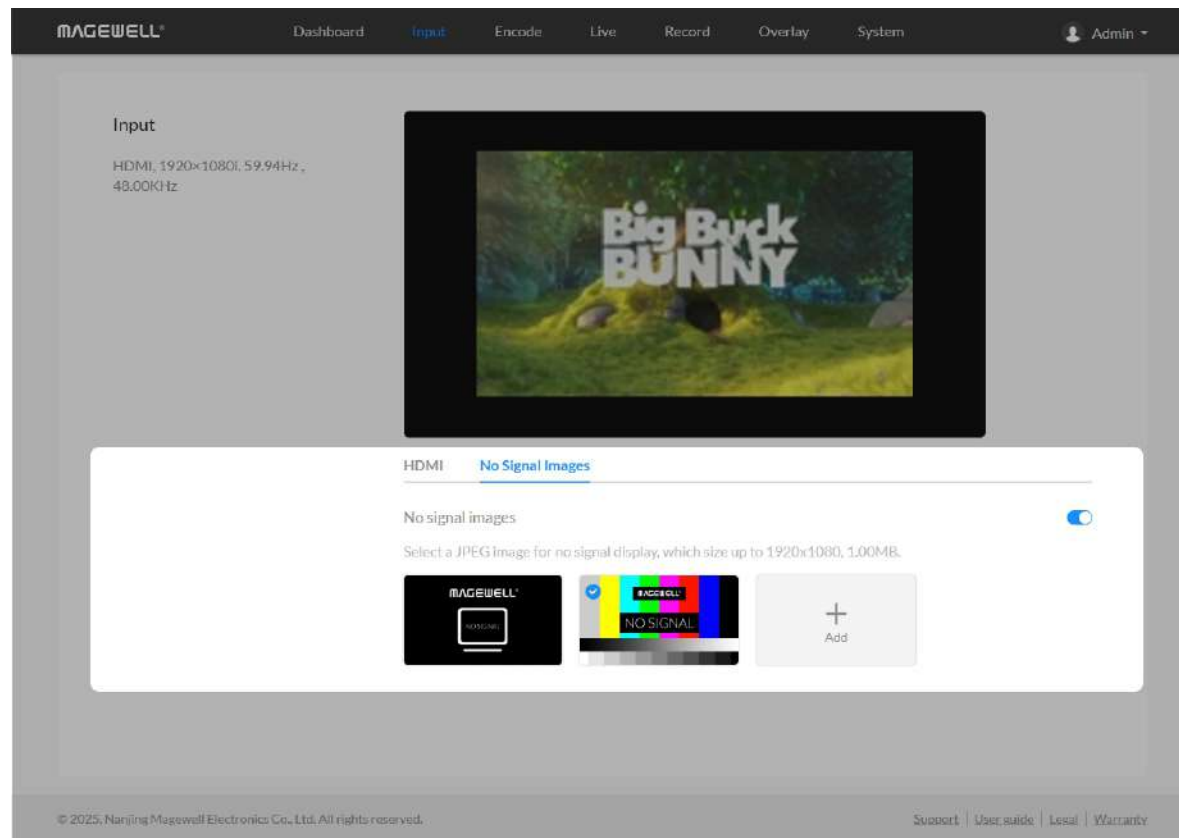
### • Keep last

- Keep the last EDID value used.
- This function is disabled by default. To enable it, the SmartEDID function should also be enabled. When Keep Last is enabled and the loop-through device is disconnected, the current EDID will still be used. The encoder will continue receiving signal so the video capture and encoding continues. Otherwise, the encoder will resend its EDID to the source device for it to redetermine what format of signal to send. As a result, there could be an interruption to the source signal for a short time.


### • Add audio

- Force the source device to output audio.
- If users connect a monitor which doesn't support audio to the loop-through output, the source device will decide not to output audio. As a result, the

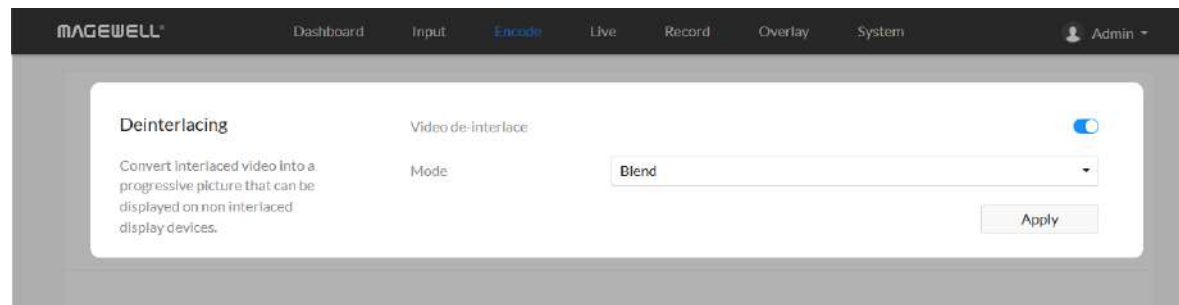




## No Signal Images

- Select a JPEG image for no signal display, which size up to 1920x1080, 1MB. The device provided 2 pictures can not be deleted. By default, the switch is on.
- **Add:** you can add 2 more JPEG photos sizing up to 1920x1080, 1.00 MB.
- **Delete:** click the delete icon  to remove the uploaded image from your device.

## Encode



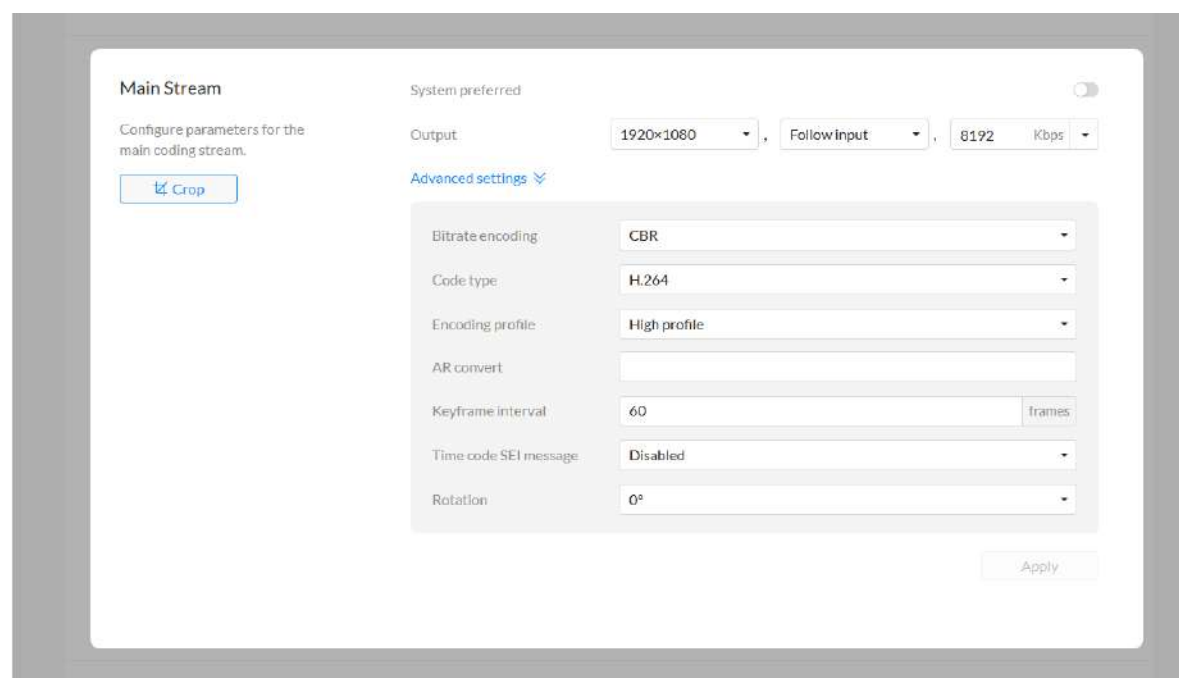
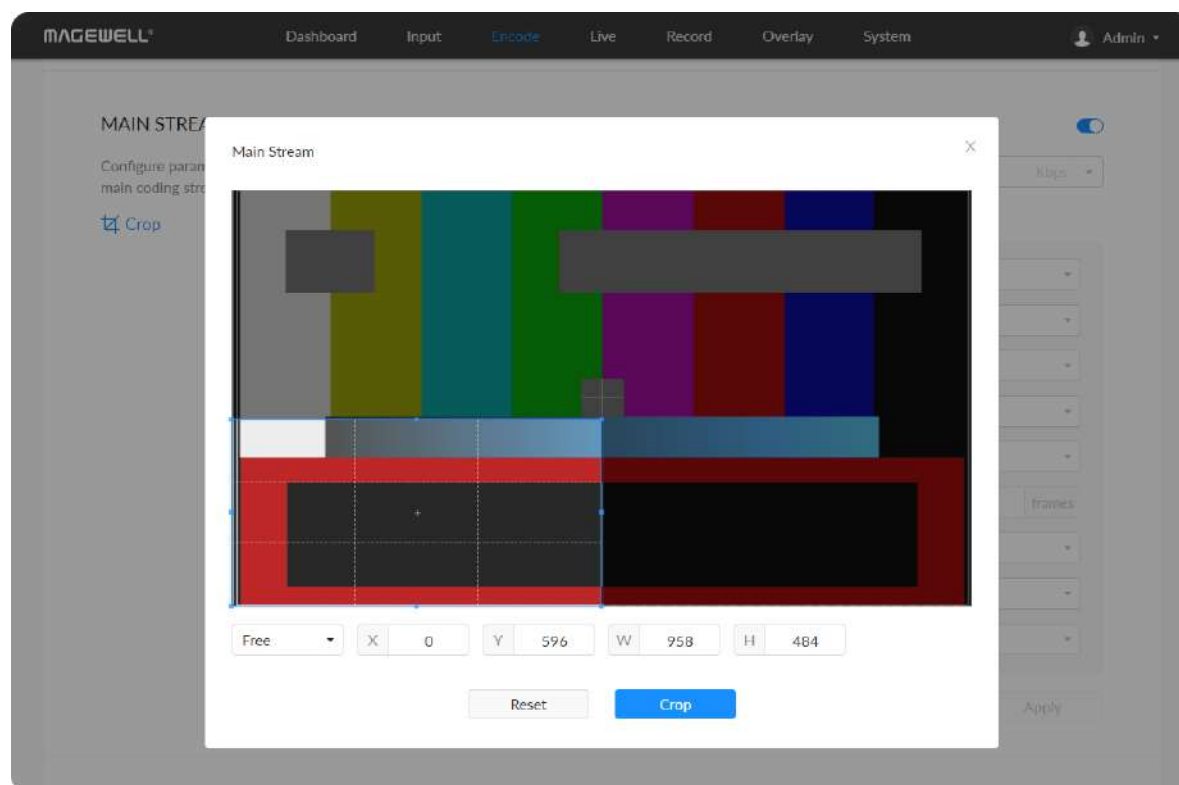
### Deinterlacing

For interlaced signals, the output can be interlaced HEVC stream, if de-interlace function is turned off, and the stream encoders both are HEVC.


- **Video de-interlace:** by default, the switch is on. The dual streams must be HEVC(H.265) for turning off de-interlace. After turning off, only HEVC is available for the code type of the dual streams.
  - **Mode:** when the Video de-interlace switch is on, it can be set to Blend or Bob, with Bob as the default.
- **Apply:** click Apply after configuration.

### 3D

- **3D:** by default, the switch is off. To output 3D video, you need to input progressive signal with resolution lower than 2048x1080.

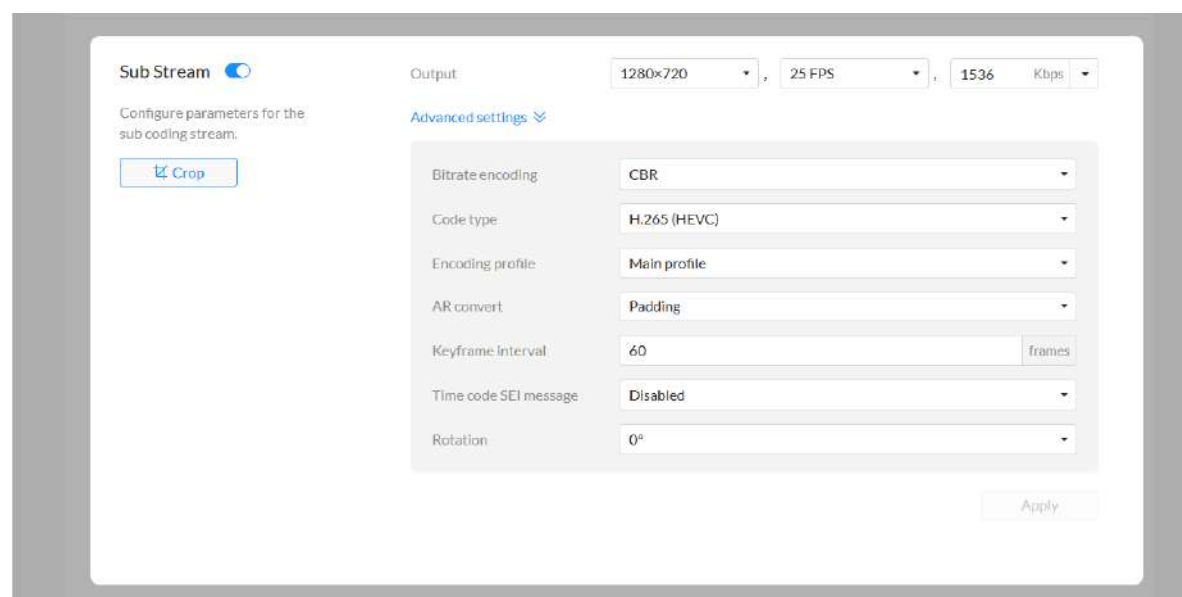
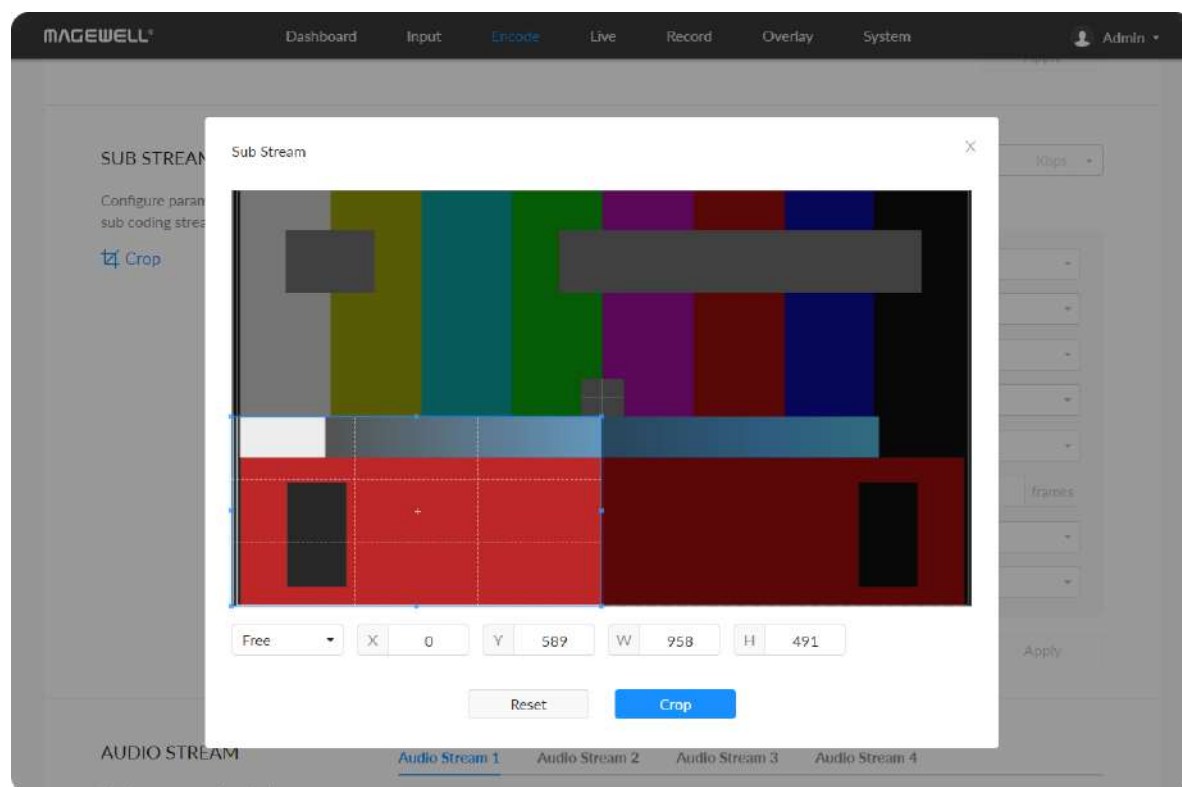


## Setting Main Stream


- Crop:** click on the  icon, and specify the cropping ratio as Free, 1:1, 3:2, 4:3, 16:9 in the pop-up window. You can drag and drop the crop border to set the crop window. Or specify the the left (x) and top (y) edges of the containing block and the specified width (w) and height (h) of the rectangle. The cropped image will be displayed on the Live and Overlay simultaneously. Click "Reset", the coordinates of the cropping frame will be changed to (0, 0, the resolution WH of the Output configuration).
- System preferred:** by default, it is off. Turn on the switch, and the output format would be consistent with the input signal. You can check the format on the right side of the thumbnail of the device status. System preferred is not available for NDI®|HX3.
- Output:** by default, it follows input resolution, frame rate, bitrate. Only the resolution and frame rate can be specified for NDI®|HX3, and the bit rate is determined by NDI® and is filled in automatically.
- Code type:** options are H.264 (default) and H.265(HEVC) encoders.
- Encoding profile:** for H.264 encoder, the profiles can be High (default)/Main profile/Baseline. For H.265 (HEVC), it can be Main profile.
- AR convert:** options are Ignore, Cropping and Padding (default).
- Keyframe interval:** options are 0.5, 15-300 frames, the default is 60. A smaller number will result in a larger file size and less buffer time for seeing the first frame. To ensure a clear and smooth live broadcast, it is recommended that the key frame interval be less than or equal to 60 frames. Keyframe interval is fixed at 20 for NDI®|HX3.
- Time code SEI message:** options are off, system clock, and embedded. Turn on the switch to get A/V sync between multiple devices which support this SEI message as well. Enabling Timecode SEI will write the corresponding Timecode

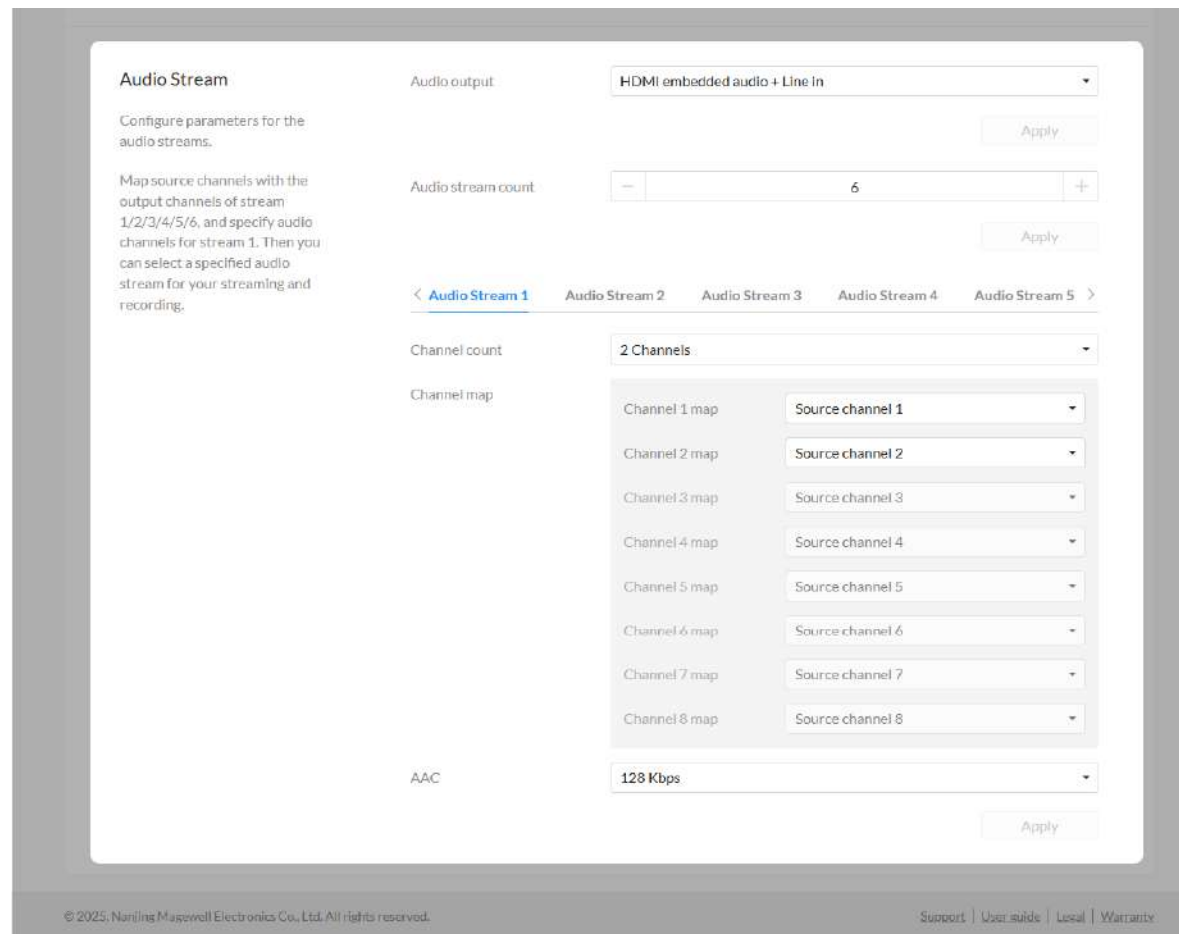
information into the recorded mp4/mov file.

- **Closed caption SEI message:** turn on the switch to encode closed captions (if present in the input signal) into H.264/H.265 (HEVC) SEI message. Native CEA-608 and 608 over 708 captions are both supported. It is off by default. **Note that it is only supported by SDI product.**
- **Rotation:** options are 0°(default), 90°, 180°, and 270°. Rotation will make overlay not working.



## Setting Sub Stream

- By default, the sub stream is on. You can turn it off to lower bandwidth usage.
- **Crop:** click on the  icon, and specify the cropping ratio as Free, 1:1, 3:2, 4:3, 16:9 in the pop-up window. You can drag and drop the crop border to set the crop window. Or specify the the left (x) and top (y) edges of the containing block and the specified width (w) and height (h) of the rectangle. The cropped image will be displayed on the Live and Overlay simultaneously. Click "Reset", the coordinates of the cropping frame will be changed to (0, 0, the resolution WH of the Output configuration).
- **Output:** by default, it is 1280x720, follow input frame, 2Mbps. Sub stream outputs at 640x360p30, 3Mbps for NDI®|HX3.
- **Code type:** options are H.264 (default) and H.265(HEVC) encoders. H.264 is the only choice for NDI®|HX3.
- **Encoding profile:** for H.264 encoder, the profiles can be High (default)/Main profile/Baseline. For H.265 (HEVC), it can be Main profile.
- **AR convert:** options are Ignore, Cropping and Padding (default).
- **Keyframe interval:** options are 15-300 frames. The default value is 60. A less number will result in a larger file size and less buffer time for seeing the first frame. To ensure a clear and smooth live broadcast, it is recommended that the key frame interval be less than or equal to 60 frames. Keyframe interval is fixed at 20 for NDI®|HX3.
- **Time code SEI message:** options are off (default), system clock, and embedded. Turn on the switch to get A/V sync between multiple devices which support this SEI message as well. Enabling Timecode SEI will write the corresponding Timecode information into the recorded mp4/mov file.
- **Rotation:** options are 0°(default), 90°, 180°, and 270°. Rotation will make overlay not working.

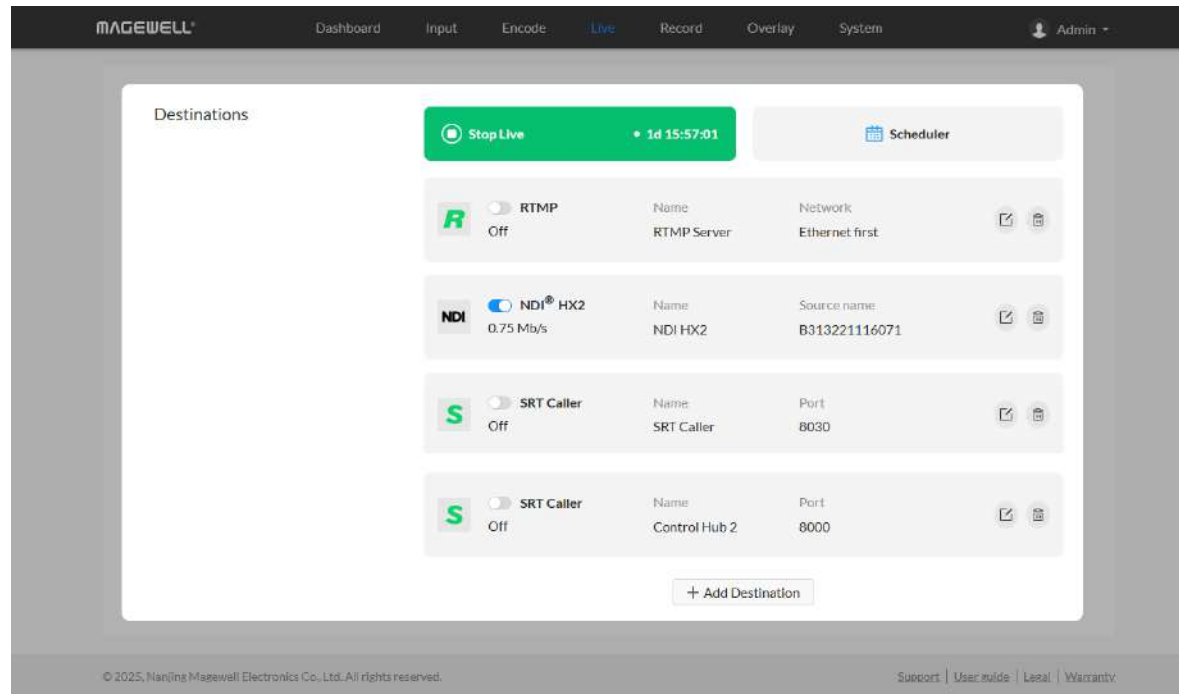


## Setting Audio

- **Audio stream count:** set the number of audio streams for encoding to be 1-8, default is 1.
- **Audio output:** can be either embedded audio signal (default) or embedded audio signal + Line in.
- **Audio stream:** the number of streams is controlled by the parameter "Audio stream count".
  - **Channel count:** for Audio Stream 1, default is 2 channels and it can be 2/4/6/8 channels or follow input. The other audio streams are fixed at 2 audio channels.
  - **LFE:** Low Frequency Effect, the switch is off by default. Available when the **Channel count** is greater than 2 channels.
  - **Channel map:** specify mapping relationship between the output channel and the source channel.
  - **AAC:** from 16 to 256 Kbps, and the default value is 128 Kbps.


## Live

The encoder natively supports streaming to YouTube, Facebook, Twitch, as well as self-defined servers.



## Managing Live Streaming Sessions

You can manually added, modify, or delete any of streaming sessions listed in the tab.

- Click **Edit** to modify the parameters of the stream.
- Click **Delete** to remove the source from the list.
- Turn on/off the switch  to start/stop streaming.
- Click **Add** and select a destination server to stream to.

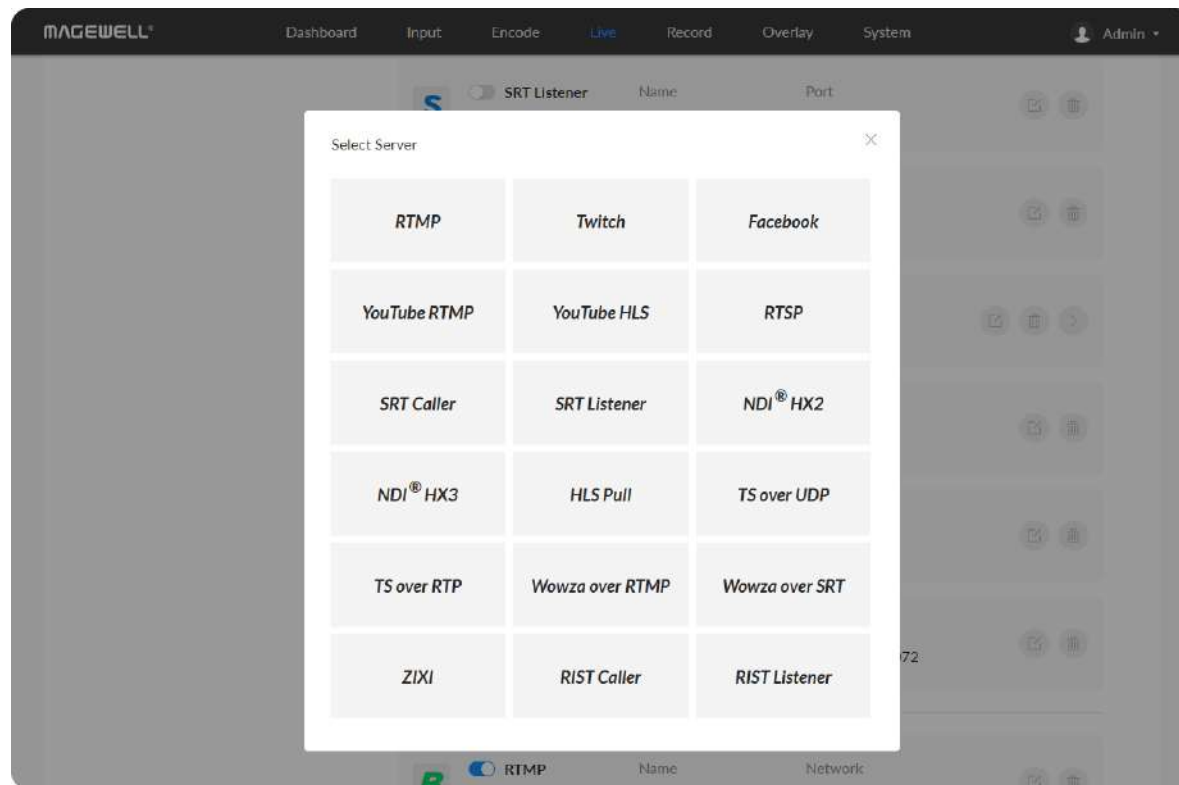
### Notes



- Supported streaming protocols - RIST, RTSP, RTMP, RTMPS, SRT Caller, SRT Listener, NDI®|HX2, NDI®|HX3, HLS, TS over UDP, TS over RTP, ZIXI and TVU ISSP.
- Supports streaming to 6 destinations simultaneously, containing 1 session of RTSP/RIST Listener/SRT Listener/HLS/ISSP (if included), or 2 NDI®|HX2 sessions (if included).
- NDI®|HX3 stream is exclusive, and other protocol streams cannot be pushed at the same time.
- Specify the main stream or sub stream for each session.

## Start/Stop Streaming


After the live broadcast task is added, you can perform any of the following operations.

- To start streaming immediately: you need to turn on the switch of one session and the stream function.




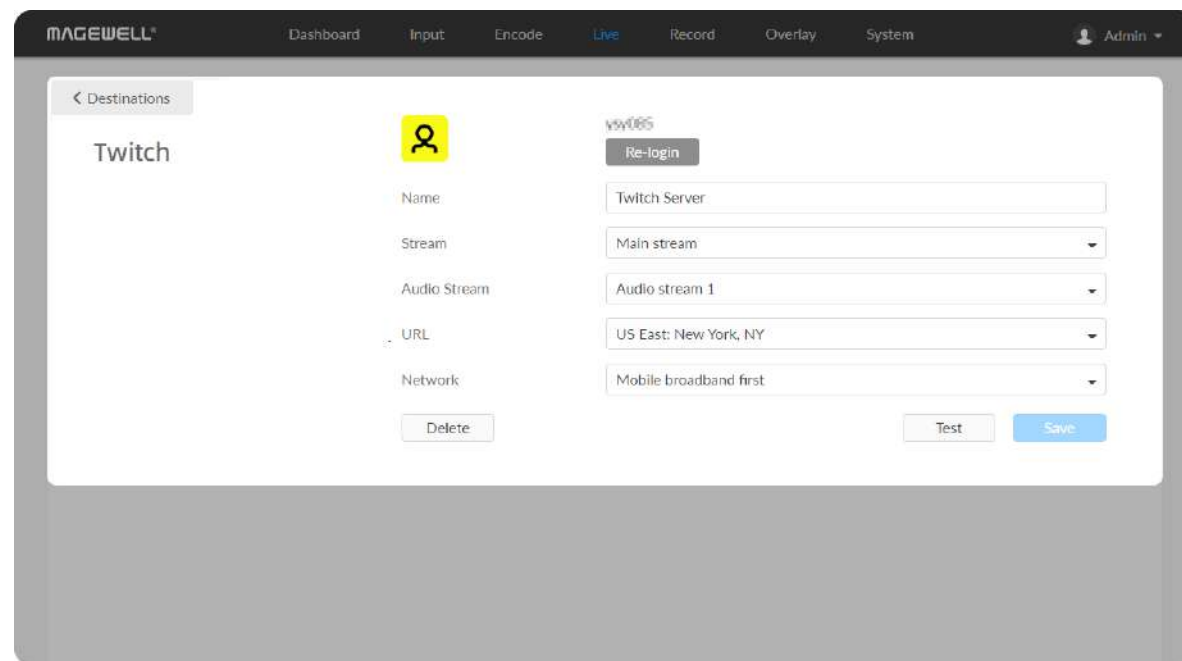
- To schedule a stream: you need to add a scheduler to the specified session(s). Use the schedule function for your live stream, which will be triggered, ended, repeated automatically on a chosen day and time.
- To stop streaming:
  - Turn off the **Destinations** switch  to end this round of scheduled live.
  - Turn off the switch  of the specified live session to stop it permanently.

### Edit a Streaming Session

After the live broadcast task is added, in the live broadcast server list, click the  button at the end of the task line, and modify the parameters on the "Edit Server" page.

### Delete a streaming Session


After the live broadcast task is added, in the live server list, click the  button at the end of the task line, and confirm the deletion in the pop-up window.

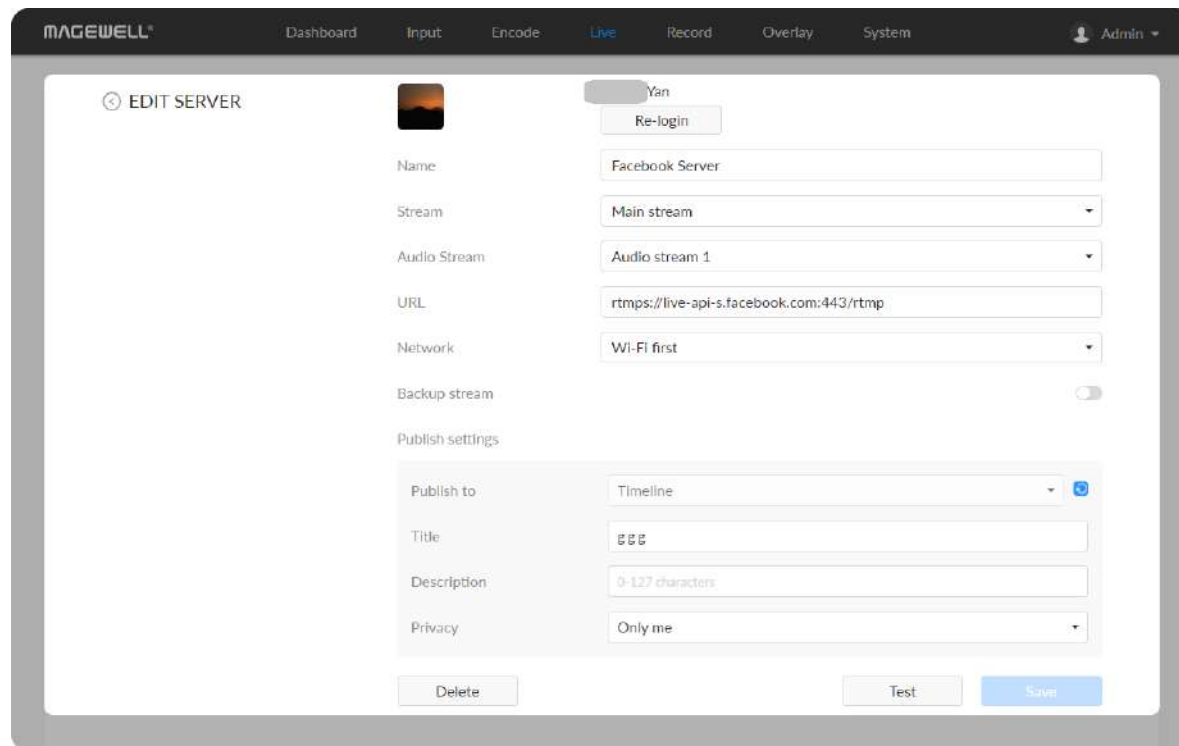


## Live Streaming to Twitch

You can stream to Twitch if you have a Twitch account.

⚠ To ensure smooth live streaming experience, connecting to a wired Ethernet network is recommended.

1. Click **+ Add Destination** in the **Live** tab, select **Twitch**, follow the on-screen instructions to log in and select a server.  
Your avatar will be displayed after a successful logging-in.
2. Specify a Name for your streaming session, which can be 1 to 30 characters.
3. Choose main or sub stream for streaming, parameters of which can be set in [Encode](#) tab.
4. Choose an audio stream (1 to 8) for streaming, and the default value is Audio stream 1. Audio encoding parameters can be set in [Encode > Audio Stream](#).
5. URL is automatically filled in after successful login, and it is not recommended to change it.
6. Choose the prime network for streaming.  
By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.  
The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority.  
Plug a USB modem into your encoder while using mobile network to stream.
7. Click **Test** to check the connection between the server and encoder.
8. When prompted, click **OK**.
9. Go back to **Live** page, turn on  before streaming.



## Live Streaming to Facebook Live

You can live broadcast to Facebook if you have a Facebook account.

⚠ To ensure smooth live streaming experience, connecting to a wired Ethernet network is recommended.

1. Click **+ Add Destination** in the **Live** tab, select **Facebook**, enter the **Stream Name**.
2. Click **Log In**. Follow the on-screen instructions to open Facebook, enter the code prompt, and log in.

⚠ Your avatar will be displayed after a successful logging-in.

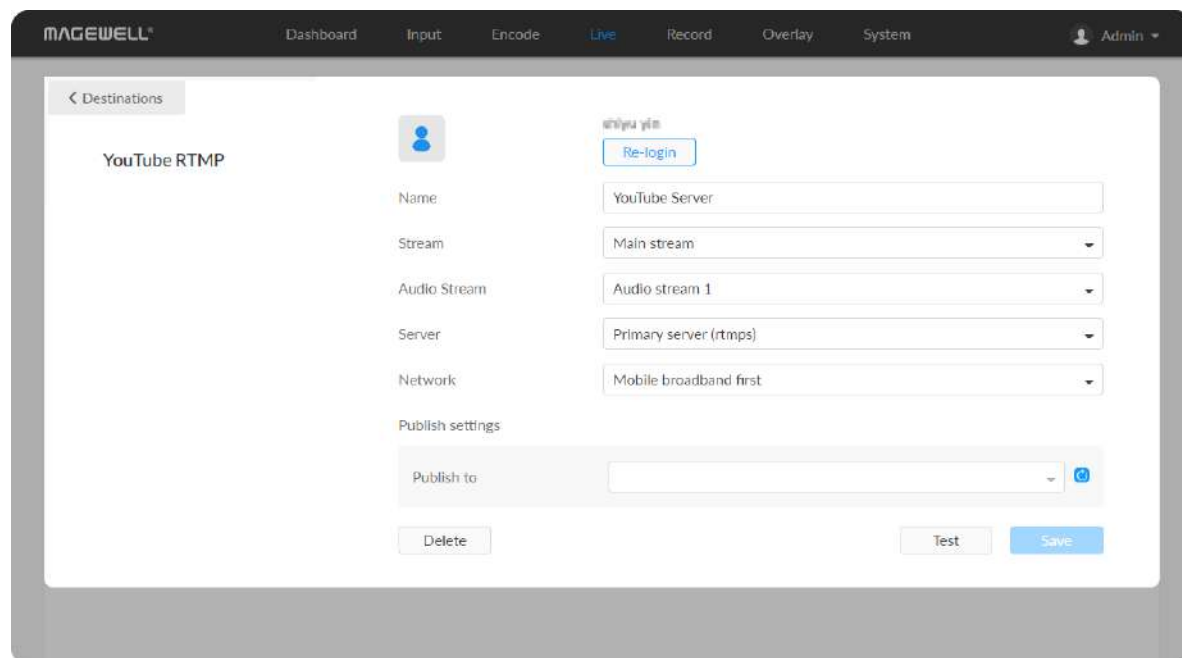
3. Specify a Name for your streaming session, which can be 1 to 30 characters.
4. Choose main or sub stream for streaming, parameters of which can be set in [Encode](#) tab.
5. Choose an audio stream (1 to 8) for streaming, and the default value is Audio stream 1. Audio encoding parameters can be set in [Encode > Audio Stream](#).
6. Input facebook destination URL.
7. Choose the prime network for streaming.


By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.

The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority.

Plug a USB modem into your encoder while using mobile network to stream.

8. (Optional) Turn on the **Backup stream** and specify the **Stream key**.
9. Specify **Publish settings** including **Publish to**, **Title** (0-63 characters), **Description** (0-127 characters), **Privacy** and **Stream ID**.





10. Click **Save**.
11. Click **Test** to check the network connection.
12. After passing the test, click **OK**.
13. (Optional) Click **Delete** to clear the session.
14. Go back to **Live** page, turn on  before streaming.

## Live Streaming to YouTube


If you need low latency, then YouTube RTMP is the better option. However, if you need adaptive bitrate streaming, then YouTube HLS is the better option.

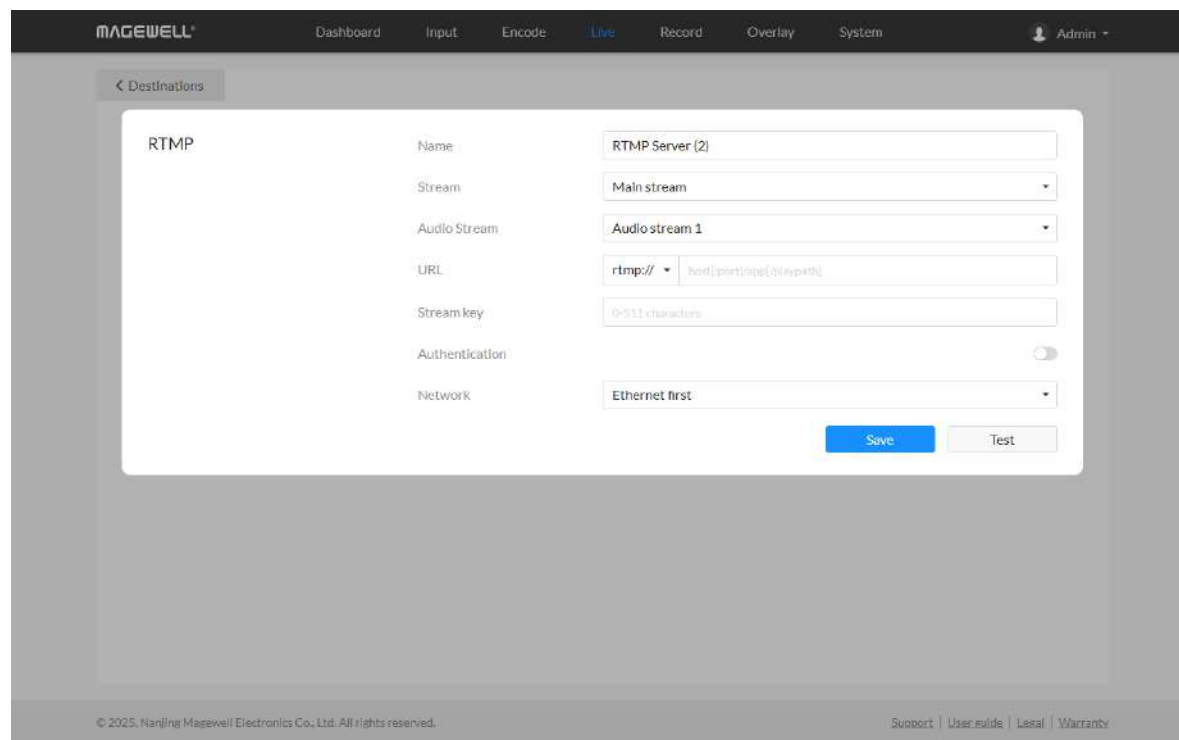
You can stream to YouTube if you have a YouTube account, and you have enabled the Live streaming feature of your channel at least 24 hours before your streaming. You can stream to YouTube if you have a YouTube account, and you have enabled the Live streaming feature of your channel at least 24 hours before your streaming.

 To ensure smooth live streaming experience, connecting to a wired Ethernet network is recommended.

 To enable the Live streaming feature, refer to [YouTube Help](#).

1. Click **+ Add Destination** in the **Live** tab, select YouTube RTMP or YouTube HLS, enter the stream **Name**, follow the on-screen instructions to log in and select a server.
2. Click **Log In**. Follow the on-screen instructions to open YouTube, enter the code displayed on your device, and log in.  
Your avatar will be displayed after a successful logging-in.
3. Specify a Name for your streaming session, which can be 1 to 30 characters.

4. Choose main or sub stream for streaming, parameters of which can be set in [Encode](#) tab.
5. Choose an audio stream (1 to 8) for streaming, and the default value is Audio stream 1. Audio encoding parameters can be set in [Encode > Audio Stream](#).
6. Server is automatically filled in after successful login, and it is not recommended to change it.
7. Choose the prime network for streaming.  
By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.  
The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority.  
Plug a USB modem into your encoder while using mobile network to stream.
8. Tap **Publish to** and select a channel or event for your session.  
When choosing **Add a new stream**, you need to enter title, description and privacy. Then a new live event would be added to your logging-in account automatically. And you can stream to YouTube using streamer without clicking on **go live** in YouTube Studio.  
  
Choose a channel or event. Then **go live** in YouTube studio to ensure a successful live broadcast.
9. **Content made for kids** switch is off by default. You can go to [Youtube Help](#) to get detailed requirements.
10. Click **Test** to check the connection between the server and encoder.
11. When prompted, click **OK**.
12. Go back to the **Live** page, and turn on  before streaming.



## RTMP/RTMPS

- **Name:** specify a name for current task to facilitate server management, which will be displayed in the server list. The name can be 1~30 character.
- **Stream:** choose to deliver a main or sub stream, which can be customized in [Encode](#) tab.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **URL:** enter the RTMP URL address, or an RTMP address you have obtained from the live stream platform. Full address example: **rtmp://192.168.1.136:1935/live** or **rtmps://192.168.1.136:1936/live**. The port number part can be omitted, and the value range is 1 to 65535. If the RTMP address is a domain name, live can be omitted. If the RTMP address is an IP address, The part **live** cannot be omitted.
- **Stream key:** enter the stream key obtained from the live stream platform. If none, leave it empty. The key can be string of 0-512 characters.
- **Authentication:** turn on if your live streaming service provider requires. Obtain the User Name and Password from your live streaming service provider.
- **Network:** The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority. By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi. Plug a USB modem into your encoder while using mobile network to stream.
- **Test:** check the connection between the server and encoder.
- **Save:** save current configuration.

The screenshot displays the RTSP configuration page in the MAGEWELL interface. The form is titled 'RTSP' and contains the following fields and controls:

- Name:** Text input field containing 'RTSP Server'.
- Port:** Text input field containing '554'.
- Connections:** Spin box with a value of '1' and '+' and '-' buttons.
- Main stream:** Toggle switch, currently turned on.
- Main key:** Text input field containing 'mainstream'.
- Substream:** Toggle switch, currently turned on.
- Sub key:** Text input field containing 'substream'.
- Audio:** Toggle switch, currently turned on.
- Audio Stream:** Dropdown menu with 'Audio stream 1' selected.
- Authentication:** Toggle switch, currently turned off.

At the bottom right of the form is a blue 'Save' button. Below the form, the following URLs are displayed:

- Main Stream URL: `rtsp://10.10.39.110:554/mainstream`
- Sub Stream URL: `rtsp://10.10.39.110:554/substream`

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## RTSP

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Port:** specify RTSP stream port, the value range is 554 (default), 10000-65535.
- **Connections:** set number of clients for each RTSP stream, 8 clients are supported at most. And you can check the client (session) number at the server list.
- **Main stream:** turn on to push main stream. Specify parameters in [Encode](#) tab. By default, it is on.
- **Main key:** specify stream key for main stream. The main key should be different from sub key.
- **Sub stream:** turn on to push sub stream. Specify parameters in [Encode](#) tab. By default, it is off.
- **Sub key:** specify stream key for sub stream. The sub key should be different from main key.
- **Audio:** turn on to stream audio signal, otherwise audio will not be delivered. The audio signal consists of audio embedded in input signal and LINE IN. By default, it is on.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Authentication:** turn on if your live streaming service provider requires. Type your user name and password for the streaming service.
- **Save:** save current configuration.
- The encoder can stream 1 RTSP session with other protocol streams.
- After configuration, the stream URLs display at the end of the page. If you have multiple network connections, there would be multiple stream URLs.

The screenshot displays the 'SRT Caller' configuration page in the MAGEWELL interface. The page is titled 'SRT Caller' and contains a form with the following fields and values:

- Name:** SRT Caller (2)
- Stream:** Main stream
- Audio Stream:** Audio Stream 1 (checked), Audio Stream 2, Audio Stream 3, Audio Stream 4, Audio Stream 5, Audio Stream 6
- Custom PID:** (toggle off)
- Address:** IP address or domain name
- Port:** 1-65535
- Connect timeout:** 3000 ms
- Retry duration:** 10000 ms
- Latency:** 120 ms
- Bandwidth overhead:** 25 %
- MTU:** 1496
- Stream ID:** 0-255 characters
- Encryption:** Not Used
- Network:** (empty field)

At the bottom of the form, there are 'Save' and 'Test' buttons. The footer of the page includes the copyright notice: © 2025, Nanjing Magewell Electronics Co., Ltd. All rights reserved. and links for Support, User guide, Legal, and Warranty.

## SRT Caller

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Stream:** choose to stream main or sub stream, which can be customized in [Encode](#) tab.
- **Audio Stream:** check multiple boxes to choose from Audio stream 1 ~ 8. Each stream will be sent as one track. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Custom PID:** PID stands for packet ID. Toggle it on to set the PIDs. PMT PID (program map table) should be different from Video PID, Audio PID and PCR (program clock reference) PID.
  - PMT PID: the default value is 256. The value ranges from 16 to 8190.
  - Video PID: the default value is 257. The value ranges from 16 to 8190.
  - Audio PID: the default value is 258 to 265 for channel 1 to channel 8. The value ranges from 16 to 8190.
  - PCR PID: it is used to sync the audio and video. The default value is 45. The value ranges from 16 to 8190.
- **Address:** enter the Listener address when **Mode** is set to **Caller**. If the SRT listener and caller are on the same LAN, enter the private IP address of the SRT listener on the LAN. If the SRT listener and caller are in different network environments, enter the public IP address of the SRT listener.
- **Port:** enter the port number specified by the encoder, which ranges from 1 to 65535.
- **Connect timeout:** specify SRT connection timeout in milliseconds, which ranges from 1000 to 30000ms. The default value is 3000.

- **Retry duration:** specify retry duration when SRT SRT connection timeout in milliseconds, which ranges from 0 to 10000. The default value is 10000ms.
- **Latency:** possible values are 30 ~ 8000ms. The default value is 120ms. We recommend that you set the same latency for SRT caller and listener.
- **Bandwidth:** indicate the portion of the total bandwidth of a stream required for the exchange of SRT control and recovery packets. Available values are 5 ~ 100%, and the default value is 25%. A worse network condition requires more bandwidth for overhead to ensure normal transmission.
- **MTU:** specify maximum transmission unit (MTU) in bytes, ranging from 232 to 1500. The default size is 1496.
- **Stream ID:** specify Stream ID of 0 to 256 characters which should be consistent with that of its sender.
- **Encryption:** specify the stream encryption algorithm to ensure the data security, options are not used, AES-128/192/256.
- **Passphrase:** specify stream key of 10 to 79 characters, which is the same as the SRT listener.
- **Network:** The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority. By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.  
Plug a USB modem into your encoder while using mobile network to stream.
- **Test:** check the connection between the server and encoder.
- **Save:** save current configuration.

The screenshot displays the 'SRT Listener' configuration page in the MAGEWELL interface. The settings are as follows:

- Name:** SRT Listener (2)
- Stream:** Main stream
- Audio Stream:** Audio Stream 1 (checked), Audio Stream 2 (unchecked), Audio Stream 3 (unchecked), Audio Stream 4 (unchecked), Audio Stream 5 (unchecked), Audio Stream 6 (unchecked)
- Custom PID:** Enabled (toggle)
- PMT PID:** 256
- Video PID:** 257
- Audio PID:** 258, 259, 260, 261, 262, 263
- PCR PID:** 45
- Port:** 8000
- Latency:** 120 ms
- Bandwidth overhead:** 25 %
- MTU:** 1496
- Connections:** 1
- Encryption:** Not Used

At the bottom, there is a 'Save' button and the FFmpeg URL: `srt://10.10.39.110:8000`.

## SRT Listener

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Stream:** choose to stream main or sub stream, which can be customized in [Encode](#) tab.
- **Audio Stream:** check multiple boxes to choose from Audio stream 1 ~ 8. Each stream will be sent as one track. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Custom PID:** PID stands for packet ID. Toggle it on to set the PIDs. PMT PID (program map table) should be different from Video PID, Audio PID and PCR (program clock reference) PID.
  - PMT PID: the default value is 256. The value ranges from 16 to 8190.
  - Video PID: the default value is 257. The value ranges from 16 to 8190.
  - Audio PID: the default value is 258 to 265 for channel 1 to channel 8. The value ranges from 16 to 8190.
  - PCR PID: it is used to sync the audio and video. The default value is 45. The value ranges from 16 to 8190.
- **Port:** specify the service port of the encoder, ranging from 8000, and 10000 to 65535. The default value is 8000.
- **Latency:** options are 30 ~ 8000ms and the default value is 120ms. We recommend that you set the same latency for SRT caller and listener.
- **Bandwidth:** indicate the portion of the total bandwidth of a stream required for the exchange of SRT control and recovered packets. Available values are 5 ~ 100% and the default value is 25%. A worse network condition requires more bandwidth for overhead to ensure normal transmission.
- **MTU:** specify maximum transmission unit (MTU) in bytes, ranging from 232 to

1500. The default size is 1496.

- **Connections:** 8 connections at most.
- **Encryption:** specify encryption algorithm for stream data security. Options are not used (default), AES-128/192/256.
- **Passphrase:** specify stream key of 10 to 79 characters, which is the same as the SRT caller.
- **Save:** save current configuration.
- The encoder can stream up to 6 SRT sessions simultaneously, containing one SRT Listener session at most.
- After configuration, the play URL and passphrase are shown in the page below.
- After configuration, the stream URLs display at the end of the page. If you have multiple network connections, there would be multiple stream URLs.

The screenshot shows the 'EDIT SERVER' configuration page for an NDI HX2 server. The settings are as follows:

- Name:** NDI HX2
- Program stream:** Main stream
- Preview stream:** Sub stream
- Audio Stream:** Audio stream 1
- Source video:**
  - Machine name:** Ultra Encode #serial-no# (with a note: #serial-no# indicates the serial number of the device. The current machine name is: Ultra Encode C313250723001)
  - Groups:** Public
  - Source name:** HX2
- Transport Mode:** TCP (Uni-connection)
- Follower:** Enabled (toggle)
- Source name:** N/A (with a 'Change...' button)
- IP address:** N/A
- Receiver control:**
  - Web control:** Enabled (toggle)

A 'Save' button is located at the bottom right of the configuration area.

## NDI

NDI®|HX2 and NDI®|HX3 are supported.

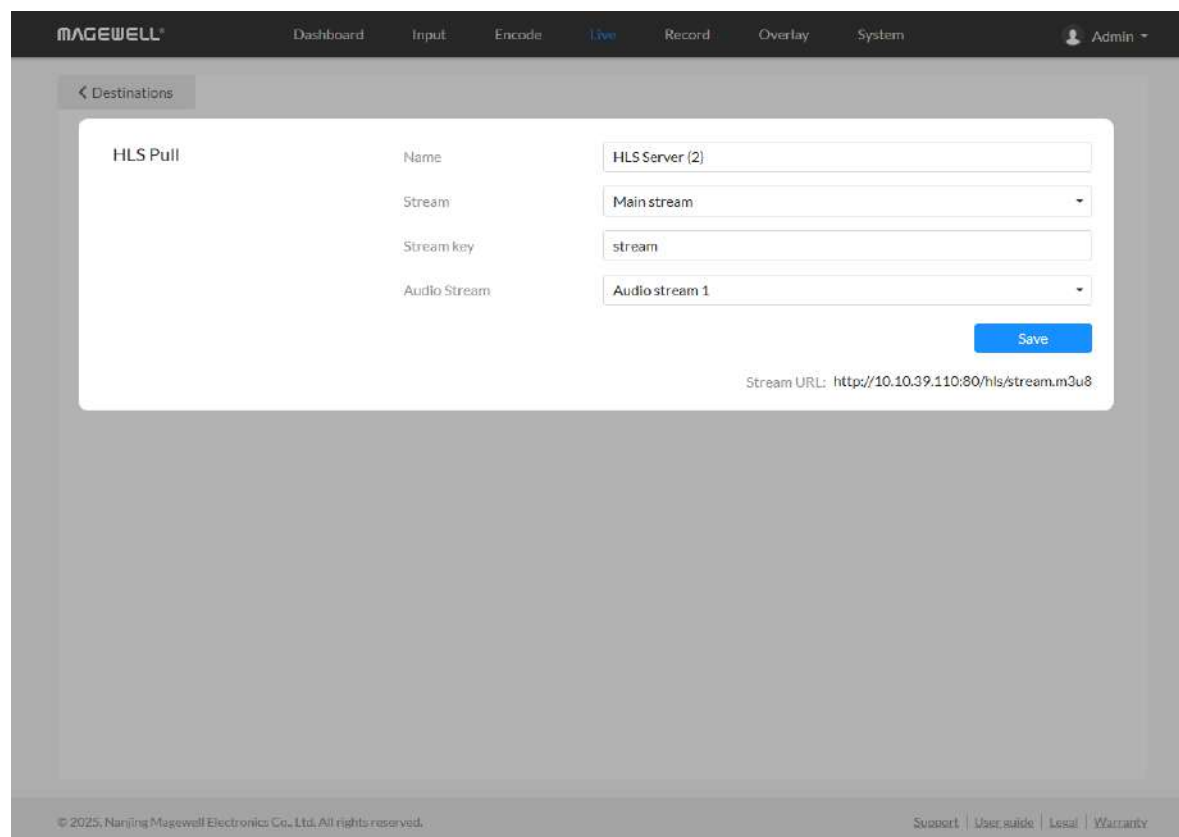
- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Program stream:** Options are Main stream, Sub stream, and full black video stream (640x360@30FPS).
- **Preview stream:** Options are Main stream, Sub stream, and full black video stream (640x360@30FPS). Both width and height of the stream resolution must be no greater than 640.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Source Video**
  - **Machine name**  
Specify the **Machine name** which is a case-insensitive string of 1 to 31 characters, and should be a combination of A to Z, a to z, 0 to 9 and special characters like \_-#(). By default, it is "Ultra Encode #serial-no#".
  - **Group name**  
Specify the **Group name** which the source belongs to. It is case-insensitive, and should be a combination of A to Z, a to z, 0 to 9 and special characters like \_-. Multiple groups are supported, which should be comma-separated. By default, it is public.
  - **Source name**  
By default, it is HX2 or HX3.
- **Transport Mode**
  - **UDP (Unicast)** indicates that the encoder sends a UDP stream directly to the receiver. It is used where lower latency matters. And multiple simultaneous streams will work independently for multiple receivers.

The screenshot displays the configuration page for an NDI HX3 channel in the MAGEWELL interface. The page is titled 'Destinations' and shows the following settings:

- Name:** NDI HX3
- Program stream:** Main stream
- Preview stream:** Sub stream
- Audio Stream:** Audio stream 1
- Source video:**
  - Machine name:** Ultra Encode #serial-no# (Note: #serial-no# indicates the serial number of the device. The current machine name is: Ultra Encode C313250725001)
  - Groups:** Public
  - Source name:** HX3
- Transport Mode:** TCP (Uni-connection)
- Fallover:** Disabled (toggle)
- Receiver control:**
  - Web control:** Disabled (toggle)

A 'Save' button is located at the bottom right of the configuration form.

- **UDP (Multicast)** indicates that the encoder sends the UDP stream to a multicast group. It is used for one-to-many broadcast for lower CPU utilization. Parameters in a multicast configuration include:
  - **Multicast IP** ranges from 224.0.0.0 to 239.255.255.255.
  - **Subnet Mask** can be legitimate value ranging from 255.0.0.0 to 255.255.255.0.
  - **Time To Live** ranges from 1 to 255. The default value is 4.
- **RUDP (Unicast)** indicates that the encoder sends the reliable UDP stream directly to the receiver.
- **TCP (Uni-connection)** indicates that the encoder sends the TCP stream directly to the receiver.
- **TCP (Multi-connection)** indicates that the encoder sends the TCP stream to more than one receiver.
- **Fallover:** turn on to protect your NDI transmission from failure. If the initial source video fails, the backup device begins to provide a service. The initial source will be automatically switched back to after it recovers. This function is disabled by default.
  - **Source name** shows the backup NDI channel name. Click **Change...** and select the failover (backup) video device within the same NDI group as the initial source.
  - **IP Address** shows the IP Address of the backup NDI channel which is automatically obtained after you select the backup NDI source.
- **Receiver Control:** turn on Web control to enable you to open the Web UI by clicking the gear icon in the NDI Studio Monitor application.
- When streaming NDI®|HX2, the encoder would send dual streams simultaneously.



- When streaming NDI®|HX3, the encoder would send the dual streams simultaneously, and sub streams format is fixed as 640x360, 30FPS, 3Mbps.
- The encoder can stream 2 NDI®|HX2 sessions with other protocol streams.
- When streaming NDI®|HX3 session, no other session can be started simultaneously. 1 NDI®|HX3 sessions can be started simultaneously.

## HLS

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **stream:** options are main stream, and sub stream. Modify the stream profile in [Encode](#) tab.
- **Stream key:** set key for your chosen stream. The keys of dual streams should be different.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Save:** save current server configuration.
- The encoder can stream 1 HLS session with other protocol streams.
- After configuration, the stream URLs will display at the end of the setting page. If you have multiple network connections, there would be multiple stream URLs.

The screenshot shows the 'TS Over UDP' configuration page in the MAGEWELL web interface. The page is titled 'Destinations' and contains the following fields and options:

- Name:** TS over UDP (2)
- Stream:** Main stream
- Audio Stream:**
  - Audio Stream 1
  - Audio Stream 2
  - Audio Stream 3
  - Audio Stream 4
  - Audio Stream 5
  - Audio Stream 6
- Custom PID:**
- PMT PID:** 256
- Video PID:** 257
- Audio PID:** 258, 259, 260, 261, 262, 263
- PCR PID:** 45
- Address:** IP address or domain name
- Port:** 1-65535
- Network:**
- Save:** Button

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## TS over UDP/RTP

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Stream:** options are main stream and sub stream, which can be customized in [Encode](#) tab.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Address:** specify the destination address.
- **Port:** specify the stream port. The value ranges from 1 to 65535.
- **Custom PID:** PID stands for packet ID. Toggle it on to set the PIDs. PMT PID (program map table) should be different from Video PID, Audio PID and PCR (program clock reference) PID.
  - PMT PID: the default value is 256. The value ranges from 16 to 8190.
  - Video PID: the default value is 257. The value ranges from 16 to 8190.
  - Audio PID: the default value is 258 to 265 for channel 1 to channel 8. The value ranges from 16 to 8190.
  - PCR PID: it is used to sync the audio and video. The default value is 45. The value ranges from 16 to 8190.
- **Network:** The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority. By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi. Plug a USB modem into your encoder while using mobile network to stream.
- **Save:** save current configuration.
- You can set TS over UDP/RTP MTU at the System > General > LIVE part.

MAGEWELL® Dashboard Input Encode **Live** Record Overlay System Admin

< Destinations

### TS Over RTP

Name: TS over RTP (2)

Stream: Main stream

Audio Stream:  
 Audio Stream 1  Audio Stream 2  
 Audio Stream 3  Audio Stream 4  
 Audio Stream 5  Audio Stream 6

Custom PID:

PMT PID:

Video PID:

Audio PID:  
①  ②   
③  ④   
⑤  ⑥

PCR PID:

Address:

Port:

Network:

Save

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MAGEWELL® Dashboard Input Encode **Live** Record Overlay System Admin

< Destinations

**TVU ISSP**

Name	TVU ISSP
Stream	Main stream
Audio Stream	Audio stream 1
Port	6539

Save

Stream URL: Issp://10.10.39.110:6539

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## TVU ISSP

- Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The value can be 1 to 30 characters, including A-Z, a-z, 0-9, spaces, .\_-+'[]() and can not begin or end with a space.
- Stream:** options are main stream and sub stream, which can be customized in [Encode](#) tab.
- Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- Port:** specify the stream port. The value can be 6539 (default), 10000-65535.
- Save:** save current configuration.
- The encoder can stream 1 TVU ISSP session with other protocol streams.
- After configuration, the stream URLs display at the end of the page. If you have multiple network connections, there would be multiple stream URLs.

The screenshot shows the MAGEWELL web interface with the 'Wowza Over RTMP' configuration form. The form is titled 'Wowza Over RTMP' and contains the following fields:

- Name:** Wowza over RTMP
- Stream:** Main stream
- Audio Stream:** Audio stream 1
- Network:** Ethernet first
- Token:** (empty text input)
- Publish settings:** (empty dropdown menu)

A blue 'Save' button is located at the bottom right of the form. The background shows the MAGEWELL logo and navigation tabs: Dashboard, Input, Encode, Live, Record, Overlay, System, and Admin.

## Wowza over RTMP

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Stream:** options are main stream and sub stream, which can be customized in [Encode](#) tab.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Network:** The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority. By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi. Plug a USB modem into your encoder while using mobile network to stream.
- **Token:** enter Wowza access token. One token can be used for one RTMP and one RTP session.
- **Publish settings:** specify publish destination.
  - **Publish to:** select a channel or event for your session. When choosing **Add a new stream**, you need to enter title, description and privacy. Then a new live event would be added to your logging-in account automatically.
  - **Live stream name:** specify the session name.
  - **Broadcast location:** specify the Wowza server.
- **Save:** save current configuration.

The screenshot shows the 'Wowza Over SRT' configuration page in the MAGEWELL interface. The page is titled 'Destinations' and contains the following configuration options:

- Name:** Wowza over SRT
- Stream:** Main stream
- Audio Stream:** Audio Stream 1 (checked), Audio Stream 2, Audio Stream 3, Audio Stream 4, Audio Stream 5, Audio Stream 6
- Custom PID:**
  - PMT PID: 256
  - Video PID: 257
  - Audio PID: 258, 259, 260, 261, 262, 263
  - PCR PID: 45
- Connect timeout:** 3000 ms
- Retry duration:** 10000 ms
- Latency:** 120 ms
- Bandwidth overhead:** 25 %
- MTU:** 1496
- Encryption:** Not Used
- Network:** Ethernet first
- Token:** (empty field)
- Publish settings:** Publish to (empty field)

A 'Save' button is located at the bottom right of the configuration area.

## Wowza over SRT

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Stream:** options are main stream and sub stream, which can be customized in [Encode](#) tab.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Connect timeout:** specify SRT connection timeout in milliseconds, which ranges from 1000 to 30000ms. The default value is 3000.
- **Retry duration:** specify retry duration when SRT SRT connection timeout in milliseconds, which ranges from 0 to 10000. The default value is 10000ms.
- **Latency:** possible values are 30 ~ 8000ms. The default value is 120ms. We recommend that you set the same latency for SRT caller and listener.
- **Bandwidth:** indicate the portion of the total bandwidth of a stream required for the exchange of SRT control and recovery packets. Available values are 5 ~ 100%, and the default value is 25%. A worse network condition requires more bandwidth for overhead to ensure normal transmission.
- **MTU:** specify maximum transmission unit (MTU) in bytes, ranging from 232 to 1500. The default size is 1496.
- **Encryption:** specify the stream encryption algorithm to ensure the data security, options are not used, AES-128/192/256.
- **Passphrase:** specify stream key of 10 to 79 characters, which is the same as the sender.
- **Network:** The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority. By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-

Fi.

Plug a USB modem into your encoder while using mobile network to stream.

- **Token:** enter Wowza access token. One token can be used for one RTMP and one RTP session.
- **Publish settings:** specify publish destination.
  - **Publish to:** with token authentication, refresh and select a channel or event for your session.

When choosing **Add a new stream**, you need to enter title, description and privacy. Then a new live event would be added to your logging-in account automatically.
  - **Live stream name:** specify the session name.
  - **Broadcast location:** specify the Wowza server.
- **Save:** save current configuration.

The screenshot displays the MAGEWELL ZIXI configuration page. The top navigation bar includes Dashboard, Input, Encode, Live, Record, Overlay, System, and Admin. The main content area is titled 'Destinations' and shows a configuration form for a ZIXI stream. The form fields are as follows:

- Name:** ZIXI
- Stream:** Main stream
- Audio Stream:** Audio Stream 1 (checked)
- Links:** A table with columns for Host, Port, and Network. The first row contains 'IP address or domain name', '2088', and 'Any'. There is an '+ Add' button below the table.
- Stream ID:** 1-127 characters
- Password:** 0-127 characters
- Latency:** 150 ms
- FEC overhead:** 0 %
- Ignore TLS certificate errors:** Toggle off
- Encryption type:** Not Used

A 'Save' button is located at the bottom right of the form. Below the form, the 'Stream URL' is displayed as `zixi://<Host>/<Stream ID>`.

## ZIXI

- **Name:** specify task name for managing multiple servers. Support 1-30 characters including A-Z, a-z, 0-9, space, and special characters. `_+[]()` and cannot start or end with space.
- **Stream:** select Main stream (default) or Sub stream. Stream parameters can be set in the "Encode" tab.
- **Audio stream:** can be Audio stream 1 ~ 8, default is Audio stream 1. Audio stream parameters can be set in "Encode > Audio Stream".
- **Links:** add multiple links, specify Host (IP address or domain name), Port (default 2088) and Network type (Any, Mobile Broadband, Wi-Fi, Ethernet) for each link.
  - **Bond links:** check to bind backup transmission link. Specify Max. Bitrate for each link and binding multiple links simultaneously is allowed.
  - **Maximum bitrate:** default is 0, range 0-4294967kbps.
  - **Backup:** check to use as backup link.
  - **Add:** support up to 8 links.
- **Stream ID:** unique ID for identifying the stream, required. Range: 1 - 127 characters string.
- **Password:** enter ZIXI server password for stream access authentication. Range: 0 - 127 characters string.
- **Latency:** range is 30 ~ 8000ms, default is 150ms. It is recommended to keep the same latency on both the receiving and sending ends.
- **FEC overhead:** Forward Error Correction overhead ratio for data recovery during network packet loss, unit %. Range: 0 - 100 integer, default is "0", which means FEC is not enabled.
- **Ignore TLS Certificate Errors:** toggle on to ignore TLS (Transport Layer

Security) certificate related errors. Not enabled by default.

- **Encryption Mode:** not used by default. Support AES encryption for stream to ensure content security. Support AES-128/192/256 encryption and specify **"Encryption Password"** (10-79 characters). After configuration, receiver needs to configure the same password to receive successfully.
- **Save:** save current settings.
- After configuration, hover over "Play URL: zixi://", click "Copy" to get this address.

The screenshot shows the MAGEWELL RIST Caller configuration page. The settings are as follows:

Field	Value
Name	RIST Caller
Stream	Main stream
Audio Stream	<input checked="" type="checkbox"/> Audio Stream 1
Custom PID	<input type="checkbox"/>
Profile	Simple Profile
Address	IP address or domain name
Port	1-65535
Buffer	125 ms
Bandwidth retry	25 %
MTU	1432
Network	Ethernet first

A blue "Save" button is located at the bottom right of the configuration form.

## RIST Caller

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Stream:** choose to stream main or sub stream, which can be customized in [Encode](#) tab.
- **Audio Stream:** check multiple boxes to choose from Audio stream 1 ~ 8. Each stream will be sent as one track. Audio stream parameters can be set in ["Encode > Audio Stream"](#).
- **Custom PID:** PID stands for packet ID. Toggle it on to set the PIDs. PMT PID (program map table) should be different from Video PID, Audio PID and PCR (program clock reference) PID.
  - PMT PID: the default value is 256. The value ranges from 16 to 8190.
  - Video PID: the default value is 257. The value ranges from 16 to 8190.
  - Audio PID: the default value is 258 to 265 for channel 1 to channel 8. The value ranges from 16 to 8190.
  - PCR PID: it is used to sync the audio and video. The default value is 45. The value ranges from 16 to 8190.

- **Profile:** options are Simple Profile(default), and Main Profile. Simple profile offered the approach to a best-in-class live video and audio transport over the open Internet with minimal latency and high reliability. The Main Profile builds upon the features of the Simple Profile to provide backwards compatibility, while opening the door for full-scale adoption across the Internet.
- **Address:** enter the Listener address when **Mode** is set to **Caller**. If the listener and caller are on the same LAN, enter the private IP address of the listener on the LAN. If the listener and caller are in different network environments, enter the public IP address of the listener.
- **Port:** enter the port number specified by the encoder, which ranges from 1 to 65535.
- **Buffer:** possible values are 20 ~ 8000ms. The default value is 125ms. We recommend that you set the same latency for caller and listener.
- **Bandwidth retry:** indicate the portion of the total bandwidth of a stream required for the exchange of control and recovery packets. Available values are 5 ~ 100%, and the default value is 25%. A worse network condition requires more bandwidth for overhead to ensure normal transmission.
- **MTU:** specify maximum transmission unit (MTU) in bytes, ranging from 228 to 1500. The default size is 1432.
- **Encryption:** specify encryption algorithm for stream data security (main profile only). Options are not used (default), AES-128/256.
- **Passphrase:** specify stream key of 6 to 127 characters.
- **Network:** The device scans for the available network according to the connection priority and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority. By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.

Plug a USB modem into your encoder while using mobile network to stream.

- **Save:** save current configuration.

The screenshot shows the 'RIST Listener' configuration page in the MAGEWELL interface. The settings are as follows:

- Name:** RIST Listener
- Stream:** Main stream
- Audio Stream:**  Audio Stream 1
- Custom PID:**
- Port:** 6000
- Buffer:** 125 ms
- Bandwidth retry:** 25 %
- MTU:** 1432
- Connections:** 1
- Encryption:** AES-128
- Passphrase:** 6-128 characters

At the bottom, there is a 'Save' button and two FFmpeg URL examples:

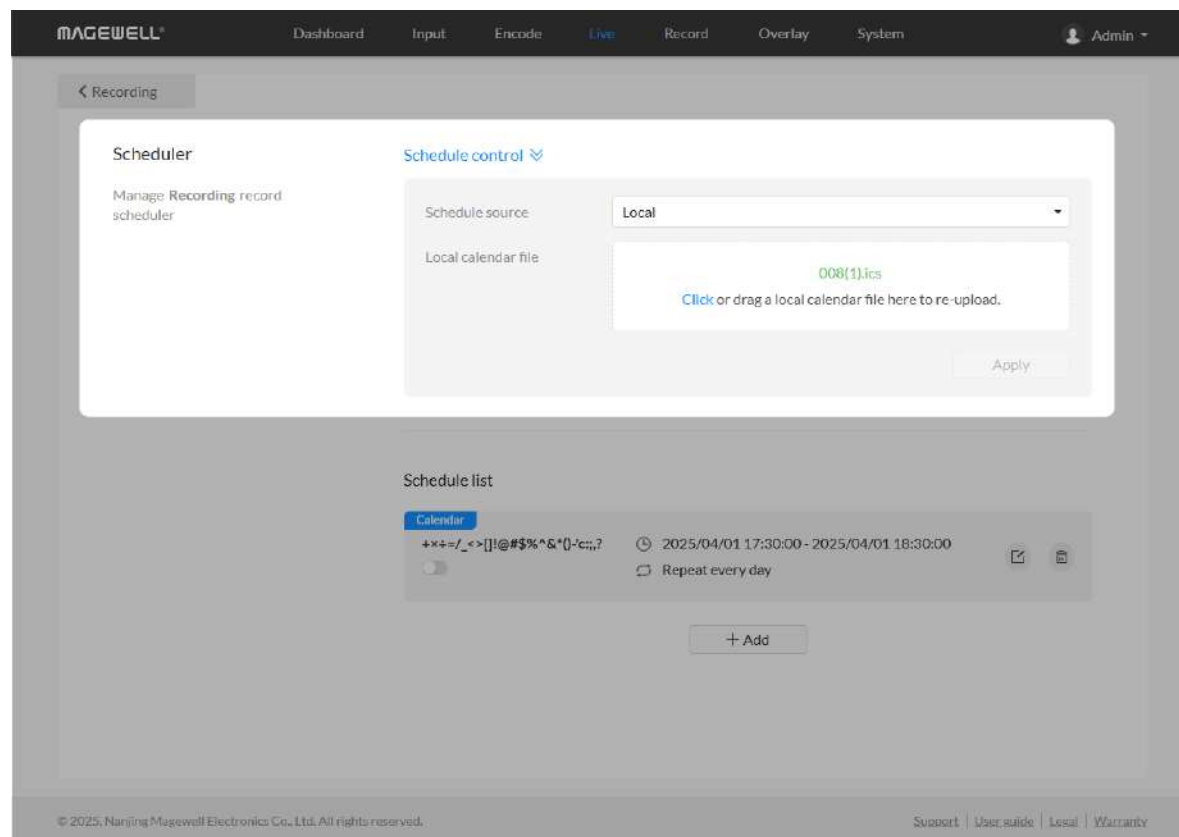
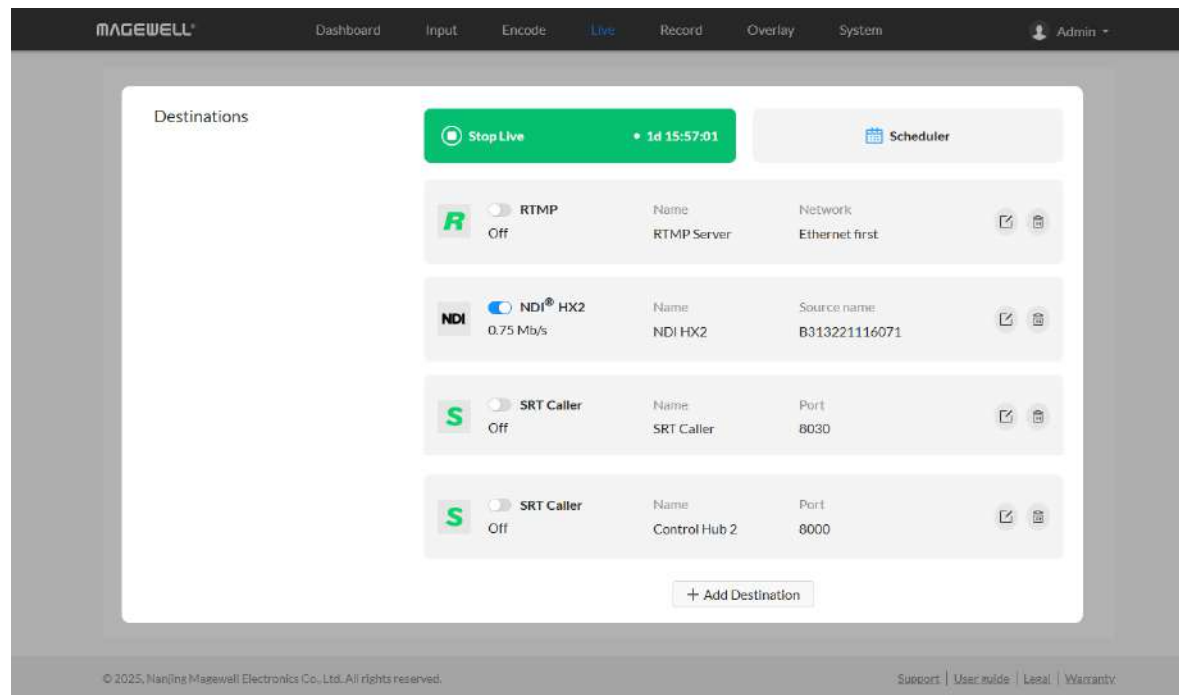
```
FFmpeg URL: r1st://10.10.37.236:6000?aes-type=128&secret=<Passphrase>
r1st://10.20.1.73:6000?aes-type=128&secret=<Passphrase>
```

## RIST Listener

- **Name:** specify a name for current task to facilitate server management, which will be displayed in server list. The name can be 1~30 character.
- **Stream:** choose to stream main or sub stream, which can be customized in [Encode](#) tab.
- **Audio Stream:** check multiple boxes to choose from Audio stream 1 ~ 8. Each stream will be sent as one track. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Custom PID:** PID stands for packet ID. Toggle it on to set the PIDs. PMT PID (program map table) should be different from Video PID, Audio PID and PCR (program clock reference) PID.
  - **PMT PID:** the default value is 256. The value ranges from 16 to 8190.
  - **Video PID:** the default value is 257. The value ranges from 16 to 8190.
  - **Audio PID:** the default value is 258 to 265 for channel 1 to channel 8. The value ranges from 16 to 8190.
  - **PCR PID:** it is used to sync the audio and video. The default value is 45. The value ranges from 16 to 8190.
- **Port:** specify the service port of the encoder, ranging from 8000, and 5000 to 65535. The default value is 6000.
- **Buffer:** options are 20 ~ 8000ms and the default value is 120ms. We recommend that you set the same latency for caller and listener.
- **Bandwidth retry:** indicate the portion of the total bandwidth of a stream required


for the exchange of control and recovered packets. Available values are 5 ~ 100% and the default value is 25%. A worse network condition requires more bandwidth for overhead to ensure normal transmission.

- **MTU:** specify maximum transmission unit (MTU) in bytes, ranging from 228 to 1500. The default size is 1432.
- **Connections:** 8 connections at most.
- **Encryption:** specify encryption algorithm for stream data security. Options are not used (default), AES-128/256.
- **Passphrase:** specify stream key of 6 to 127 characters, which is the same as the SRT caller.
- **Save:** save current configuration.
- The encoder can stream up to 6 sessions simultaneously, containing one RIST Listener session at most.
- After configuration, the play URL and passphrase are shown in the page below.
- After configuration, the stream URLs display at the end of the page. If you have multiple network connections, there would be multiple stream URLs.



## Live Schedule

In everyday terms, a schedule will help you keep on top of other tasks and are less likely to procrastinate, whilst still being able to stream on a regular basis. For a streamer, a schedule will also mean that your viewers, followers, and subscribers will know exactly when you will be live and on which days, which is possibly the biggest reason for creating a schedule and sticking to it. Imagine having no clue when the next episode of your favorite TV show airs. By creating a stream schedule, viewers will know when to expect you and are therefore more likely to tune in. Scheduling your stream is easy with the scheduler we provide. Here's a quick tutorial on how to set it up:

- Click on the  schedule icon.
  - You can add up to 16 scheduling schemes.
- On the "Scheduling" page, set up scheduling control.
  - Schedule source
    - None (default).
    - Local: You can add a local ICS or VCS file, and click "Apply". After the schedule is added successfully, it will be automatically added to the "Schedule List".
    - Remote: Enter the Remote Calendar URL, and click "Apply". And the device will automatically retrieve the calendar file. After the schedule is added successfully, it will be automatically added to the "Schedule List". The device defaults to automatically synchronizing the remote calendar file every 10 minutes. You can also click "Sync Now" to manually update the calendar file.
- Click **Add** in the window, and specify parameters of the schedule. You can add up to 16 scheduling schemes.
  - Description:** 1 to 64 characters, including chinese, english, numbers, and

The screenshot shows the 'New Event' form in the MAGEWELL Scheduler. The form includes the following fields and options:

- Description:** New event
- Details:** 0-63 characters
- Begin:** 2025-04-27, 11:05:08,  Full day
- End:** 2025-04-27, 12:05:08
- Repeat event:** Daily
- Repeat options:**
  - Every 1 day  Every workday
  - No end date
  - After 1 occurrences
  - End by 2025-05-27
- Save** button

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The screenshot shows the 'New Event' form in the MAGEWELL Scheduler with 'Weekly' repeat event settings. The form includes the following fields and options:

- Description:** New event
- Details:** 0-63 characters
- Begin:** 2025-04-27, 11:05:08,  Full day
- End:** 2025-04-27, 12:05:08
- Repeat event:** Weekly
- Repeat options:**
  - Repeat every 1 week next days:
  - Monday  Tuesday  Wednesday  Thursday
  - Friday  Saturday  Sunday
  - No end date
  - After 1 occurrences
  - End by 2025-05-27
- Save** button

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special characters, among which one chinese word occupy three characters in length.

- **Details:** 0 to 64 characters, specifying the scheduling task information
- **Begin:** Select the start date and specific time of this live broadcast task, or check the **Full day**.
- **End:** Select the end date and specific time of this live broadcast task, or check the **Full day**.
- **Repeat event:** Support no-repeat (default), daily, weekly, monthly, yearly.
  - **Daily:** The repeat mode can be repeated every N days, or every workday, and the number of repetitions can be set to
    - No end date - default,
    - After N occurrences - where **Begin** and **End** indicate the first-repeat,
    - End by specified date YYYY-MM-DD - the session will not repeat on the end day.
  - **Weekly:** The repeat mode can be Repeat every 1 week next days: multiple choices are available, and the number of repetitions can be set to
    - No end date - default,
    - After N occurrences - where **Begin** and **End** indicate the first-repeat,
    - End by specified date YYYY-MM-DD - the session will not repeat on the end day.
  - **Monthly:** The repeating pattern may be repeat N days every N month, or on weekday every N month. And you can set the number of repetitions to
    - No end date - default,
    - After N occurrences - where **Begin** and **End** indicate the first-repeat,

The screenshot displays the 'Scheduler' interface in the MAGEWELL system. The main form is titled 'New Event' and contains the following fields and options:

- Description:** A text input field containing 'New event'.
- Details:** A text input field with a character count of '0/60 characters'.
- Begin:** A date and time selector showing '2025-04-27' at '11:05:08'. There is a 'Full day' checkbox.
- End:** A date and time selector showing '2025-04-27' at '12:05:08'.
- Repeat event:** A dropdown menu set to 'Monthly'.
- Repeat options:**
  - Repeat  day every  month
  - On   every  month
  - No end date
  - After  occurrences
  - End by
- Save:** A blue button at the bottom right of the form.

At the bottom of the page, there is a footer with the text: '© 2025, Nanjing Magewell Electronics Co., Ltd. All rights reserved.' and links for 'Support', 'User guide', 'Legal', and 'Warranty'.

- End by specified date YYYY-MM-DD - the session will not repeat on the end day.
  - **Yearly:** The repeating pattern can be every N day N month, or on N weekday of N month. And you can set the number of repetitions to
    - No end date - default,
    - After N occurrences - where **Begin** and **End** indicate the first-repeat,
    - End by specified date YYYY-MM-DD - the session will not repeat on the end day.
4. **Save:** Click to save the current configuration.
  5. Turn on the  switch to make your schedule work.

MAGEWELL® Dashboard Input Encode **Live** Record Overlay System Admin

< Scheduler

### New Event

Description:

Details:

Begin:    Full day

End:

Repeat event: Yearly

Every  day  month

On   of

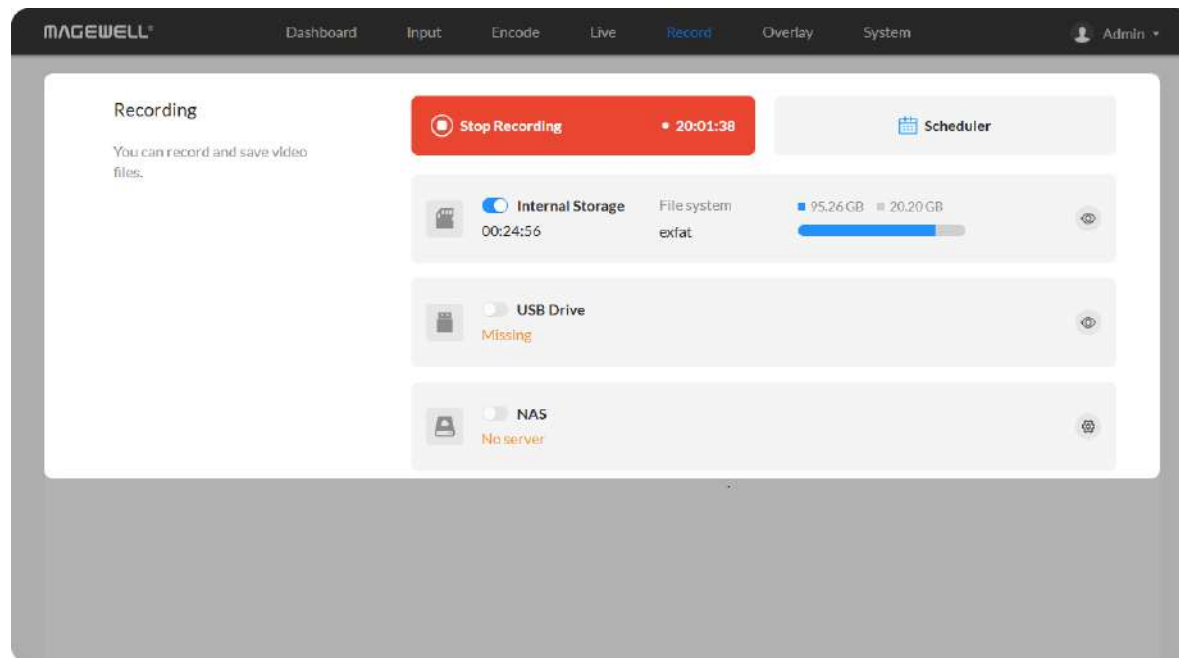
No end date

After  occurrences



End by

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## Record

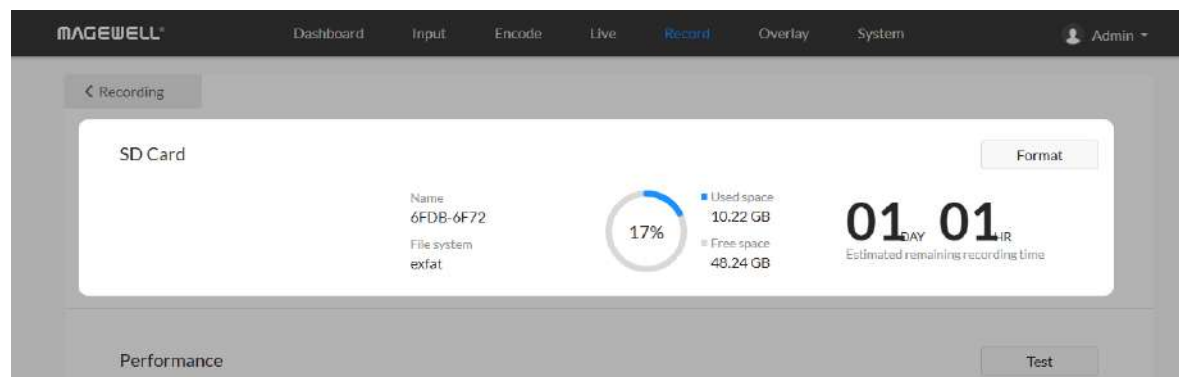


### Start/Stop Recording

- To start recording immediately: you need to turn on the  switch of one session and the **Recording** function switch.
- To start recording automatically: you need to turn on the [Auto-recording](#) and the **Recording** function switch.
- To schedule a recording: you need to turn on the  switches of the specified session(s) and scheduler(s).



Use the schedule function for your live stream, which will be triggered, ended, repeated automatically on a chosen day and time.

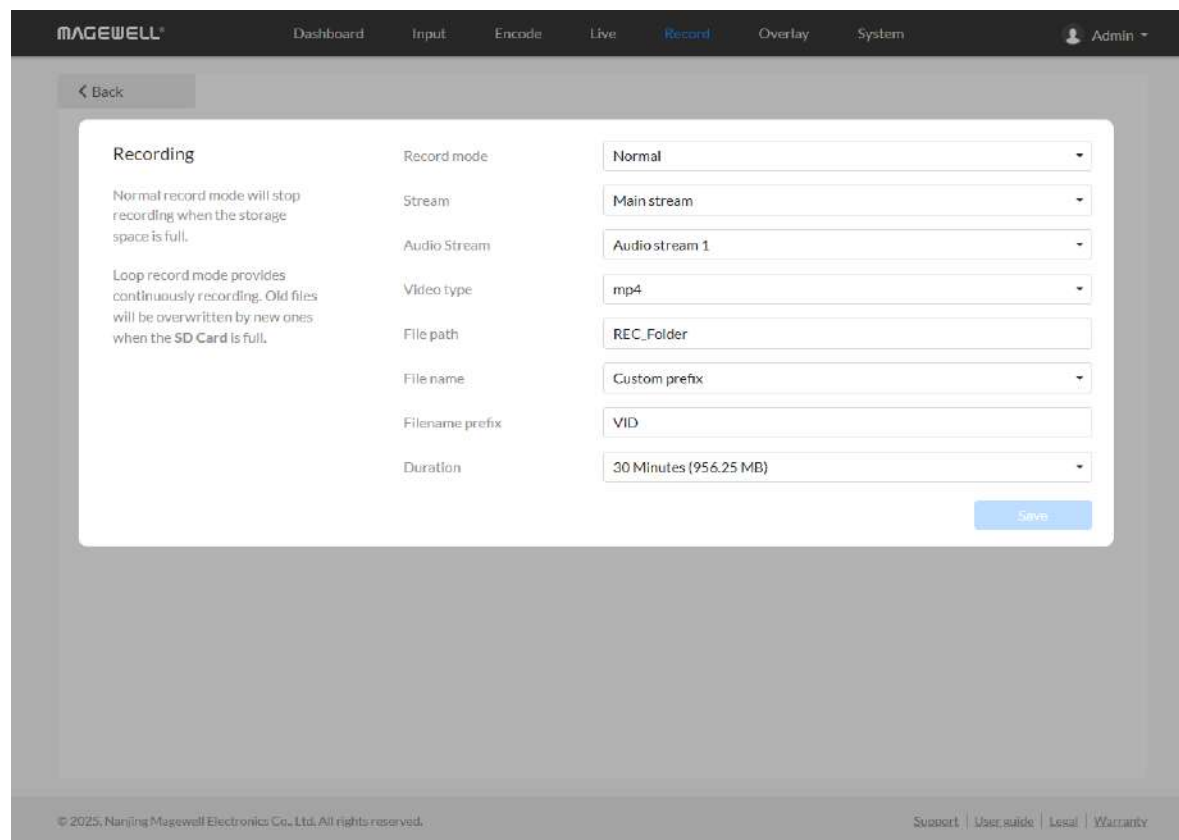
- To stop recording immediately:
  - Turn off the **Recording** switch to end this round of scheduled recording.
  - Turn off the switch of recording session to stop it permanently.



## Manage SD card

Click and enter **SD Card** tab, then you can check and manage your SD card.


- To check SD card, such as **File system**, **Free space**, and **Estimated remaining recording time**. Check remaining time for normal recording, and total recording time for loop recording.
- To format SD card: click to start **Format**.  
After formatting, the file system of USB will be changed to exfat.
- To download video clips: move the cursor to a specified clip and click the  icon to download the chosen one.
- To choose a specific video: move the cursor to a video clip and click .
- To delete videos: choose one or more, or all clips to delete.



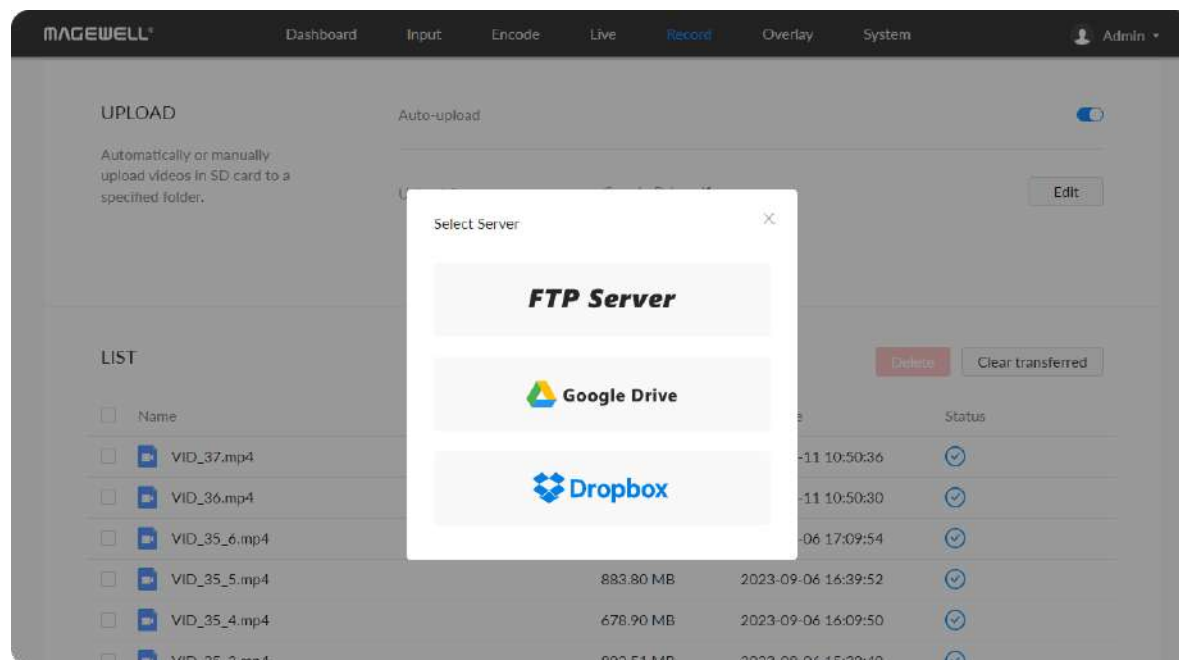
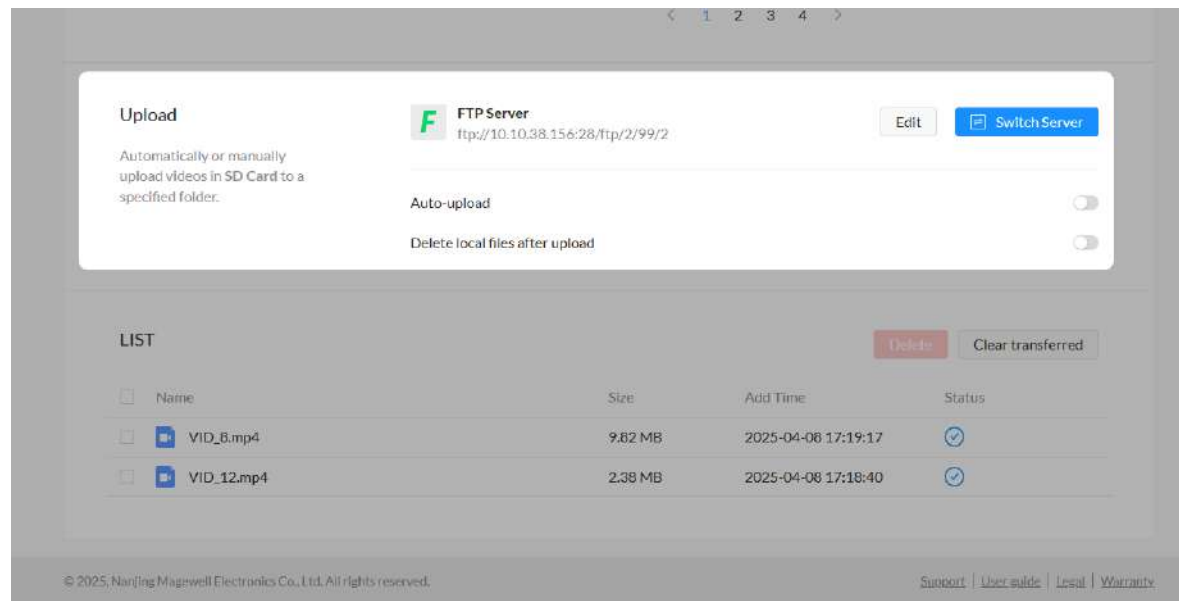
## Record to External SD Card

The device supports external SD card in exfat, ntfs, and vfat formats, up to 2T. And a vfat file should be less than 4G. Before recording, please insert the SD Card.

### Configure recording parameters

Click  Configure button in the "Recording > Videos" section and set recording parameters in the pop-up page.

- **Record mode:** Options are normal (default) and loop. In normal record mode, the encoder will stop recording when the storage space is full. However, loop record mode provides continuously recording which means that old files will be overwritten by new ones when the storage is full.
- **Stream:** Options are main (default) and sub stream.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Video type:** Options are mp4 (default), mov, and ts.
- **File path:** REC\_Folder by default, and 1 to 255 characters.
- **File name:** Options are custom prefix (default, from 1 to 32 characters), and creation time.
  - **Filename prefix:** VID by default, 1 to 32 characters.
- **Duration:** from 5 to 240 minutes. That is, a new file is generated for each specified duration. A new file is generated every time the specified duration is recorded. The file size generated by different recording durations is automatically calculated according to the stream format and is for reference only. Duration can be set to **No limit** for normal (Record mode) recording in ts (Video type) format.



## Upload

- **Auto-upload:** off by default. Files recorded to the SD card with the switch on will be automatically uploaded to the specified upload server.
- **Delete local files after upload:** successfully uploaded files will be automatically deleted when turning on the switch. By default, it is off.
- **Upload server:** Click "+Add Server" and choose from FTP Server, Google Drive, Dropbox for uploading.
  - **FTP Server**
    - **Protocol:** options are FTP-File Transfer Protocol, SFTP-SSH File Transfer Protocol.
    - **Host:** IP address or domain name of the host.
    - **Port:** specify port number between 1 and 65535.
    - **Directory:** specify a fold for saving uploaded files between 0 and 63 characters.
    - **Encryption:** options are Only use plain FTP (insecure), Require explicit FTP over TLS and Require implicit FTP over TLS. Available when **Protocol** is FTP-File Transfer Protocol.
    - **Transfer mode:** Active or Passive.
    - **Authentication:** turn it on if your service provider requires. Type in your user name and password for the streaming service.
    - **Network:** By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.
    - **Test:** check the connection between the server and encoder.
    - **Save:** save current configuration.
  - **Google Drive**
    - Follow the prompts to get the verification code, connect the device, and set

the network (the default network connection priority is: Mobile Broadband > Ethernet > Wi-Fi).

- **Dropbox**

Follow the prompts to log-into Dropbox, and set the network (the default network connection priority is: Mobile Broadband > Ethernet > Wi-Fi).


The screenshot shows a file list interface with the following data:

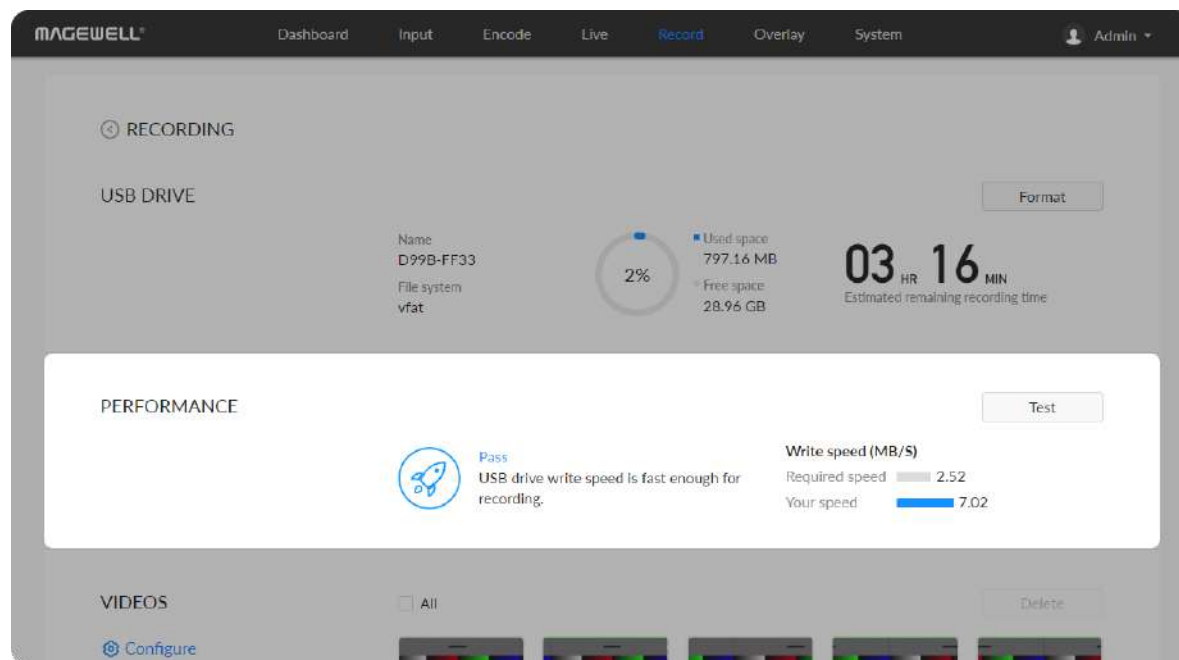
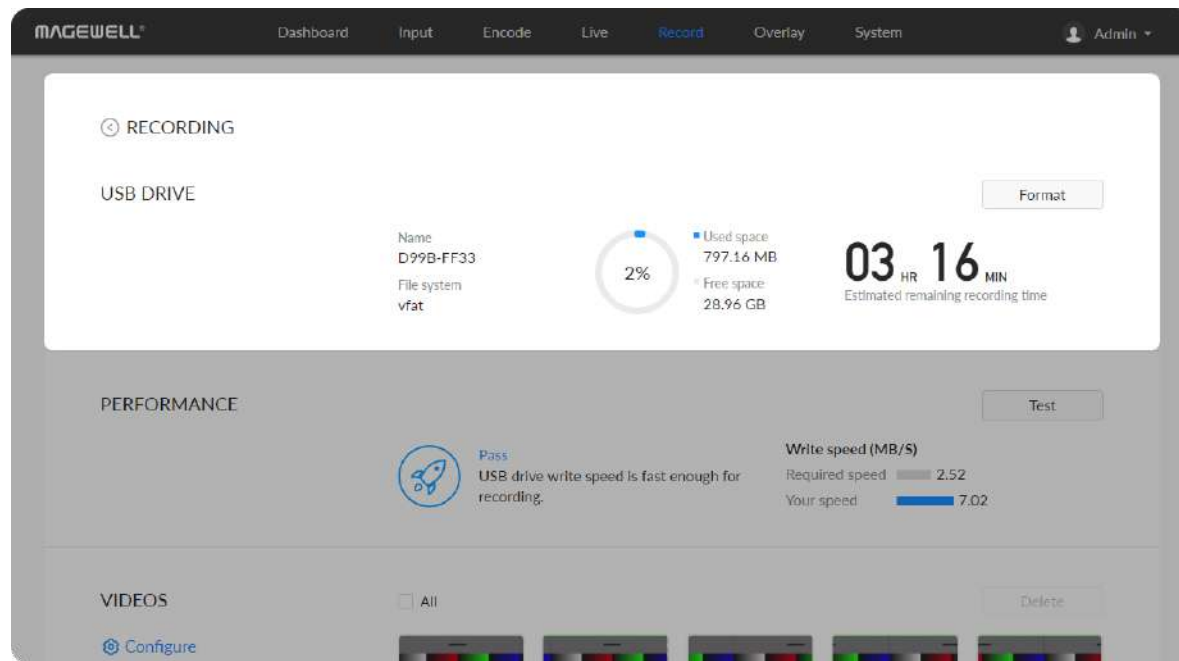
<input type="checkbox"/>	Name	Size	Add Time	Status
<input type="checkbox"/>	VID_37.mp4	2.16 MB	2023-09-11 10:50:36	✓
<input type="checkbox"/>	VID_36.mp4	3.04 MB	2023-09-11 10:50:30	✓
<input type="checkbox"/>	VID_35_6.mp4	857.36 MB	2023-09-06 17:09:54	✓
<input type="checkbox"/>	VID_35_5.mp4	883.80 MB	2023-09-06 16:39:52	✓
<input type="checkbox"/>	VID_35_4.mp4	678.90 MB	2023-09-06 16:09:50	✓
<input type="checkbox"/>	VID_35_3.mp4	893.51 MB	2023-09-06 15:39:49	✓
<input type="checkbox"/>	VID_35_2.mp4	894.43 MB	2023-09-06 15:09:47	✓
<input type="checkbox"/>	VID_35.mp4	895.46 MB	2023-09-06 14:39:45	✓
<input type="checkbox"/>	VID_34.mp4	22.44 MB	2023-09-04 17:07:20	✓
<input type="checkbox"/>	VID_33.mp4	34.58 MB	2023-09-04 17:05:18	✓

At the top right of the list, there are two buttons: "Delete" (in red) and "Clear transferred". At the bottom center, there is a pagination control showing "< 1 2 >".

## List

The list shows all the recorded files in SD card. You can check transfer status of them.

- **"Delete"** select one or more files to delete from the file list.
- **"Clear transferred"** click on "Clear transferred", the system will automatically delete the files with  transfer status from the list.



## Manage USB Flash Drive

Manage the USB and files stored in the **USB Flash Drive** page.

- Check USB Info, such as **File system**, **Free space**, and **Estimated remaining recording time**. Check remaining time for normal recording, and total recording time for loop recording.

We recommend that you use a USB with FAT32/VFAT file system.



- To format USB: click to start **Format**. When prompted, click **YES**. The USB Flash Drive data cannot be recovered after formatting. Please be cautious.

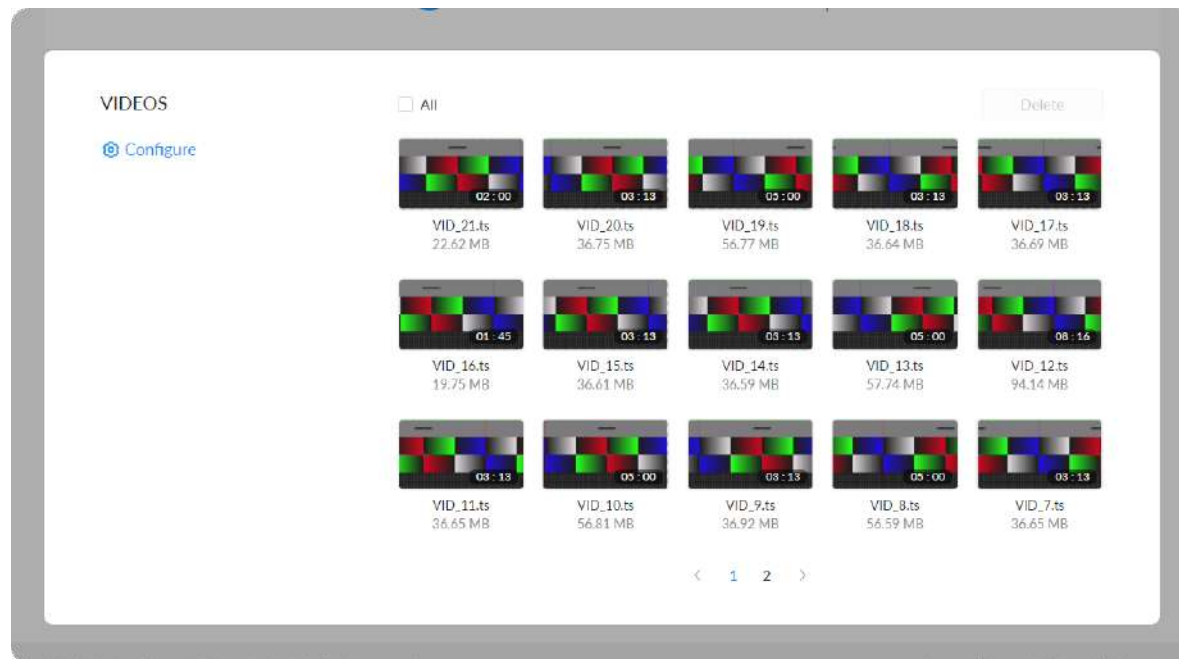
After formatting, the file system of USB will be changed to VFAT.

- To test USB Performance



Click **Test** to start **Performance Test**.

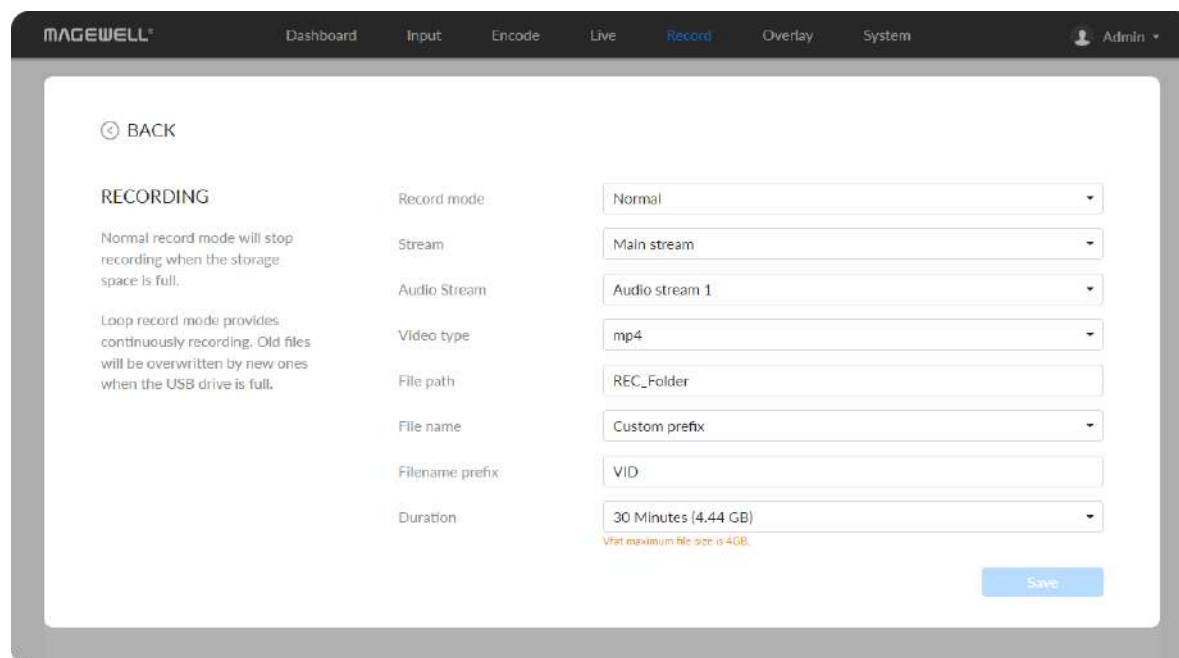
Test whether the write speed of USB flash drive meets the requirements before recording. If the USB fails the test, please change another one, or the recording may stop automatically.

- To download a clip: move the cursor to a specified clip and click the  icon to download the chosen one.
- To choose a specific video: move the cursor to a video and click  to download the clip.
- To delete videos: choose one or more, or all clips to delete.



## Manage Video Clips in USB


- To download: move the cursor to a specified clip and click the  icon to download the chosen one.
- To choose a specific video: move the cursor to a video and click .
- To delete videos: choose one or more, or all clips to delete.



## Record to External USB Drive

The device supports external USB flash drive in exfat, ntfs, and vfat formats, up to 2T. And a vfat file should be less than 4G. Before recording, please insert the USB.

### Configure recording parameters

Click  Configure button in the "Recording > Videos" section and set recording parameters in the pop-up page.

- **Record mode:** Options are normal (default) and loop. In normal record mode, the encoder will stop recording when the storage space is full. However, loop record mode provides continuously recording which means that old files will be overwritten by new ones when the storage is full.
- **Stream:** Options are main (default) and sub stream.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Video type:** Options are mp4 (default), mov, and ts.
- **File path:** REC\_Folder by default, and 1 to 255 characters.

- **File name:** Options are custom prefix (default, from 1 to 32 characters), and creation time.
  - **Filename prefix:** VID by default, 1 to 32 characters.
- **Duration:** from 5 to 240 minutes. That is, a new file is generated for each specified duration. A new file is generated every time the specified duration is recorded. The file size generated by different recording durations is automatically calculated according to the stream format and is for reference only. Duration can be set to **No limit** for normal (Record mode) recording in ts (Video type) format.

The screenshot shows the 'Configure NAS' page in the MAGEWELL interface. The page has a navigation bar at the top with 'Dashboard', 'Input', 'Encode', 'Live', 'Record', 'Overlay', and 'System'. A user profile 'Admin' is visible in the top right. The main content area has a 'Back' button and a title 'Configure NAS'. Below the title is a sub-header: 'Save recorded files to NAS(Network Attached Storage)'. The form contains the following fields:

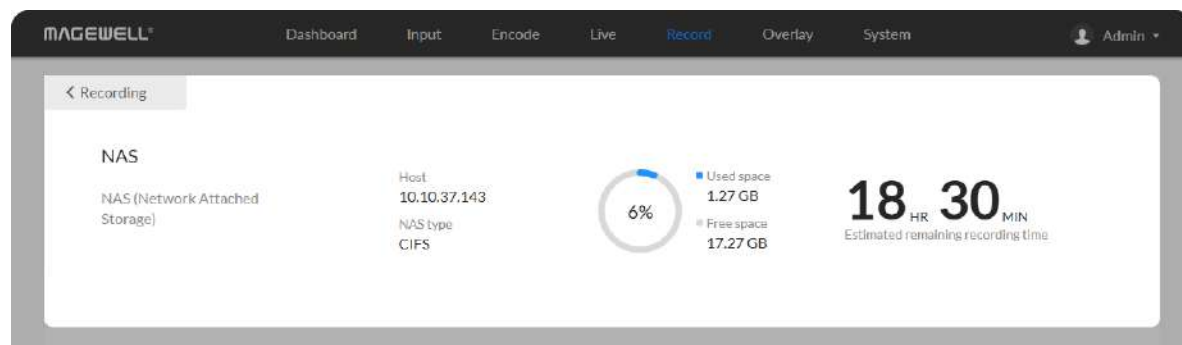
- NAS type:** A dropdown menu currently set to 'CIFS - Common Internet File System'.
- User name:** A text input field with a character count of '1-63 characters'.
- Password:** A password input field with a character count of '0-63 characters' and a toggle for visibility.
- Host:** A text input field.
- Volume/Mount point:** A text input field with a character count of '0-63 characters'.

A blue 'Save' button is positioned at the bottom right of the form area.

## Record to NAS



### Add a NAS

- **NAS type:** options are NFS- Network File System (default) and CIFS-Common Internet File System, which also requires User name and Password.
  - **User name:** 1 to 64 characters,
  - **Password:** 1 to 64 characters,
- **Host:** IP address of NAS.
- **Volume/Mount point:** 1 to 64 characters, and special characters \:"?<>| are not allowed. By using volume mount points, you can graft or mount a target partition onto a folder on another physical disk. You can also exceed the 26-letter limitation for drive letter references. Create a dependency in the mounted volume disk resource that specifies the disk that is hosting the mount point folder. This makes the mounted volume dependent on the host volume, and it makes sure that the host volume comes online.
- **Clear:** restore all parameters to defaults.



## Manage NAS

Click and enter **NAS** tab, then you can check and manage your NAS storage.

- Check NAS Info, such as NAS type, Free/total space. And check remaining time for normal recording, and total recording time for loop recording.
- To download a clip: move the cursor to a specified clip and click the  icon to download the chosen one.
- To choose a specific video: move the cursor to a video and click .
- To delete videos: choose one or more, or all clips to delete.



Volume/Mount point: cifs

Clear Save

### Recording

Normal record mode will stop recording when the storage space is full.


Loop record mode provides continuously recording. Old files will be overwritten by new ones when the NAS is full.

Record mode	Normal
Stream	Sub stream
Audio Stream	Audio stream 1
Video type	mp4
File path	REC_Folder
File name	Custom prefix
Filename prefix	VID
Duration	30 Minutes (478.13 MB)

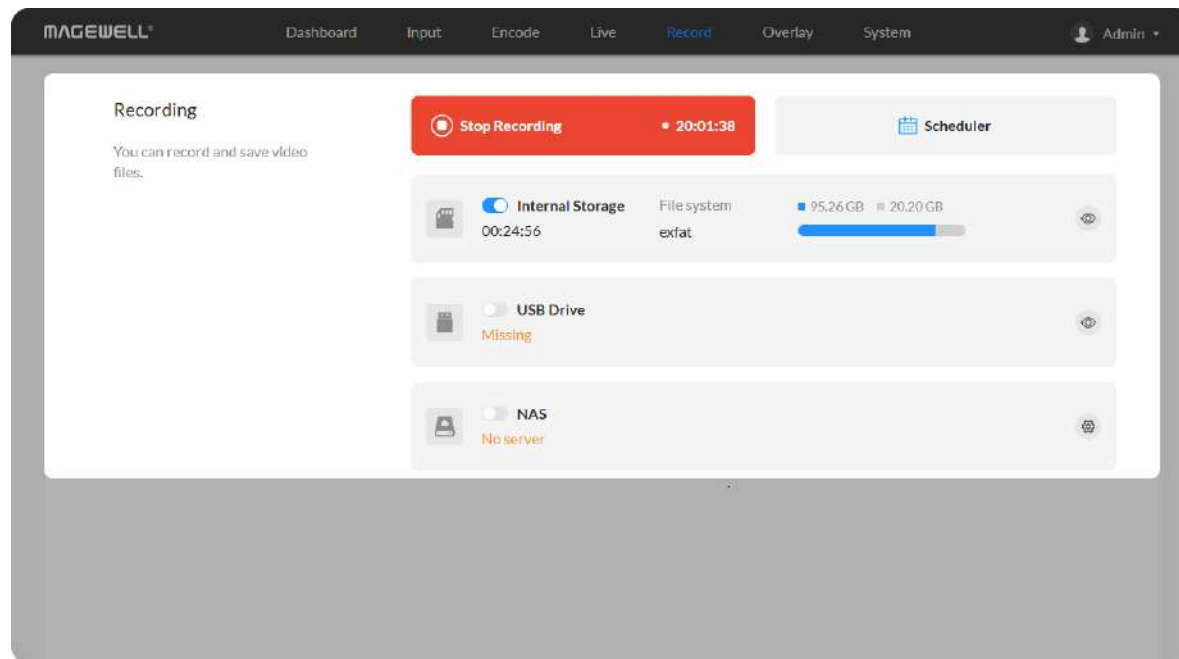
Save

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### Configure recording parameters



Click  Configure button in the "Recording > Videos" section and set recording parameters in the pop-up page.

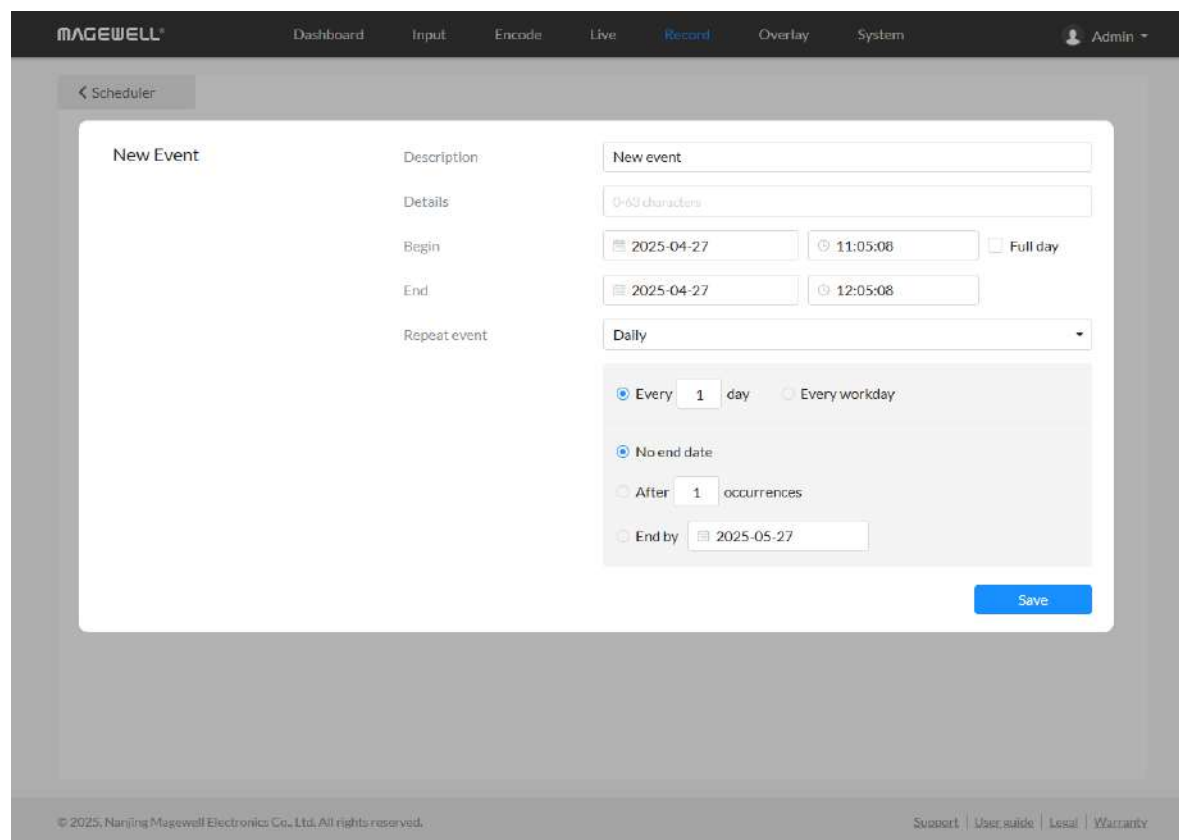
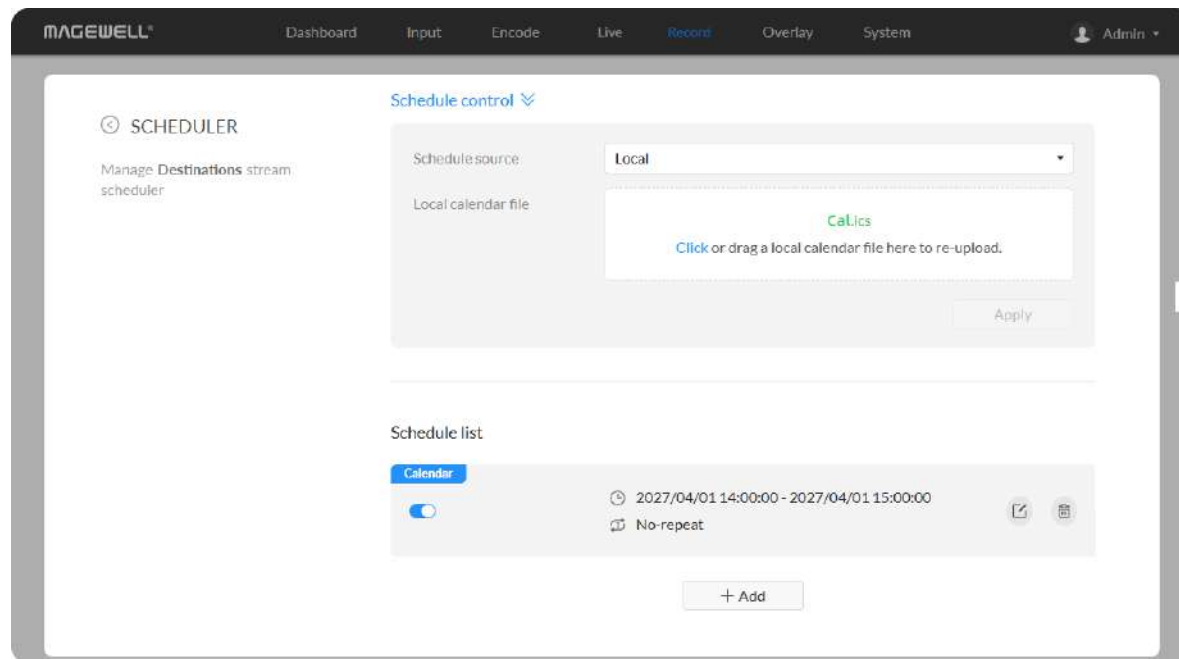
- **Record mode:** Options are normal (default) and loop. In normal record mode, the encoder will stop recording when the storage space is full. However, loop record mode provides continuously recording which means that old files will be overwritten by new ones when the storage is full.
- **Stream:** Options are main (default) and sub stream.
- **Audio Stream:** options are Audio stream 1 ~ 8, and the default is Audio stream 1. Audio stream parameters can be set in "[Encode > Audio Stream](#)".
- **Video type:** Options are mp4 (default), mov, and ts.
- **File path:** REC\_Folder by default, and 1 to 255 characters.
- **File name:** Options are custom prefix (default, from 1 to 32 characters), and creation time.
  - **Filename prefix:** VID by default, 1 to 32 characters.
- **Duration:** from 5 to 240 minutes. That is, a new file is generated for each specified duration. A new file is generated every time the specified duration is recorded. The file size generated by different recording durations is automatically calculated according to the stream format and is for reference only. Duration can be set to **No limit** for normal (Record mode) recording in ts (Video type) format.



### Delete the NAS


Go back to **Record** tab, you can delete the NAS in the following ways.

- Click the  delete button behind the nas and confirm your delete in the pop up window.
- Click the  edit button behind the nas and clear all NAS settings.



## Record Schedule

Set schedule parameters. 16 schedules are supported for recording.

- Click on the  schedule icon.
  - You can add up to 16 scheduling schemes.
- On the "Scheduling" page, set up scheduling control.
  - Schedule source
    - None (default).
    - Local: You can add a local ICS or VCS file, and click "Apply". After the schedule is added successfully, it will be automatically added to the "Schedule List".
    - Remote: Enter the Remote Calendar URL, and click "Apply". And the device will automatically retrieve the calendar file. After the schedule is added successfully, it will be automatically added to the "Schedule List". The device defaults to automatically synchronizing the remote calendar file every 10 minutes. You can also click "Sync Now" to manually update the calendar file.
- Click **Add** in the window, and specify parameters of the schedule. Each session can add up to 16 scheduling schemes.
  - Description:** 1 to 64 characters, including chinese, english, numbers, and special characters, among which one chinese word occupy three characters in length.
  - Details:** 0 to 64 characters, specifying the scheduling task information.
  - Begin:** Select the start date and specific time of this live broadcast task, or check the **Full day**.
  - End:** Select the end date and specific time of this live broadcast task, or check the **Full day**.

The screenshot shows the 'New Event' form in the MAGEWELL Scheduler. The form is titled 'New Event' and has a 'Description' field with the value 'New event'. Below the description is a 'Details' field with a character count of '0/60 characters'. The 'Begin' field shows a date of '2025-04-27' and a time of '11:05:08', with a 'Full day' checkbox. The 'End' field shows a date of '2025-04-27' and a time of '12:05:08'. The 'Repeat event' dropdown is set to 'Weekly'. Underneath, there is a section for 'Repeat every 1 week next days:' with checkboxes for 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', and 'Sunday'. Below this, there are three options for ending the event: 'No end date' (selected), 'After 1 occurrences', and 'End by 2025-05-27'. A blue 'Save' button is located at the bottom right of the form.


- **Repeat event:** Support no-repeat (default), daily, weekly, monthly, yearly.
  - **Daily:** The repeat mode can be repeated every N days, or every workday, and the number of repetitions can be set to
    - No end date - default,
    - After N occurrences - where **Begin** and **End** indicate the first-repeat,
    - End by specified date YYYY-MM-DD - the session will not repeat on the end day.
  - **Weekly:** The repeat mode can be Repeat every 1 week next days: multiple choices are available, and the number of repetitions can be set to
    - No end date - default,
    - After N occurrences - where **Begin** and **End** indicate the first-repeat,
    - End by specified date YYYY-MM-DD - the session will not repeat on the end day.
  - **Monthly:** The repeating pattern may be repeat N days every N month, or on weekday every N month. And you can set the number of repetitions to
    - No end date - default,
    - After N occurrences - where **Begin** and **End** indicate the first-repeat,
    - End by specified date YYYY-MM-DD - the session will not repeat on the end day.
  - **Yearly:** The repeating pattern can be every N day N month, or on N weekday of N month. And you can set the number of repetitions to
    - No end date - default,
    - After N occurrences - where **Begin** and **End** indicate the first-repeat,

The screenshot displays the 'Scheduler' interface in the MAGEWELL application. The top navigation bar includes 'Dashboard', 'Input', 'Encode', 'Live', 'Record', 'Overlay', 'System', and 'Admin'. The main content area is titled 'Scheduler' and contains a 'New Event' form. The form fields are as follows:

- Description:** New event
- Details:** 0-63 characters
- Begin:** 2025-04-27, 11:05:08, Full day (unchecked)
- End:** 2025-04-27, 12:05:08
- Repeat event:** Monthly
- Repeat options:**
  - Repeat 1 day every 1 month
  - On 1 Monday every 1 month
  - No end date
  - After 1 occurrences
  - End by 2025-05-27

A blue 'Save' button is located at the bottom right of the form. The footer contains the copyright notice '© 2025, Nanjing Magewell Electronics Co., Ltd. All rights reserved.' and links for 'Support', 'User guide', 'Legal', and 'Warranty'.

- End by specified date YYYY-MM-DD - the session will not repeat on the end day.

4. **Save:** Click to save the current configuration.
5. Turn on the  switch to make your schedule work.

MAGEWELL® Dashboard Input Encode Live Record Overlay System Admin

< Scheduler

### New Event

Description:

Details:

Begin:    Full day

End:

Repeat event:

Every  day  month

On   of

No end date

After  occurrences

End by

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## Overlay

The overlay function is available when the resolutions of the input signal and the mainstream are no greater than 2048x1080, and image rotation of the output signal is 0°.

The screenshot displays the Magewell software interface for configuring overlays. The top navigation bar includes 'Dashboard', 'Input', 'Encode', 'Live', 'Record', 'Overlay', and 'System'. The 'Overlay' tab is active, showing two sections: 'MAIN STREAM' and 'SUB STREAM'.

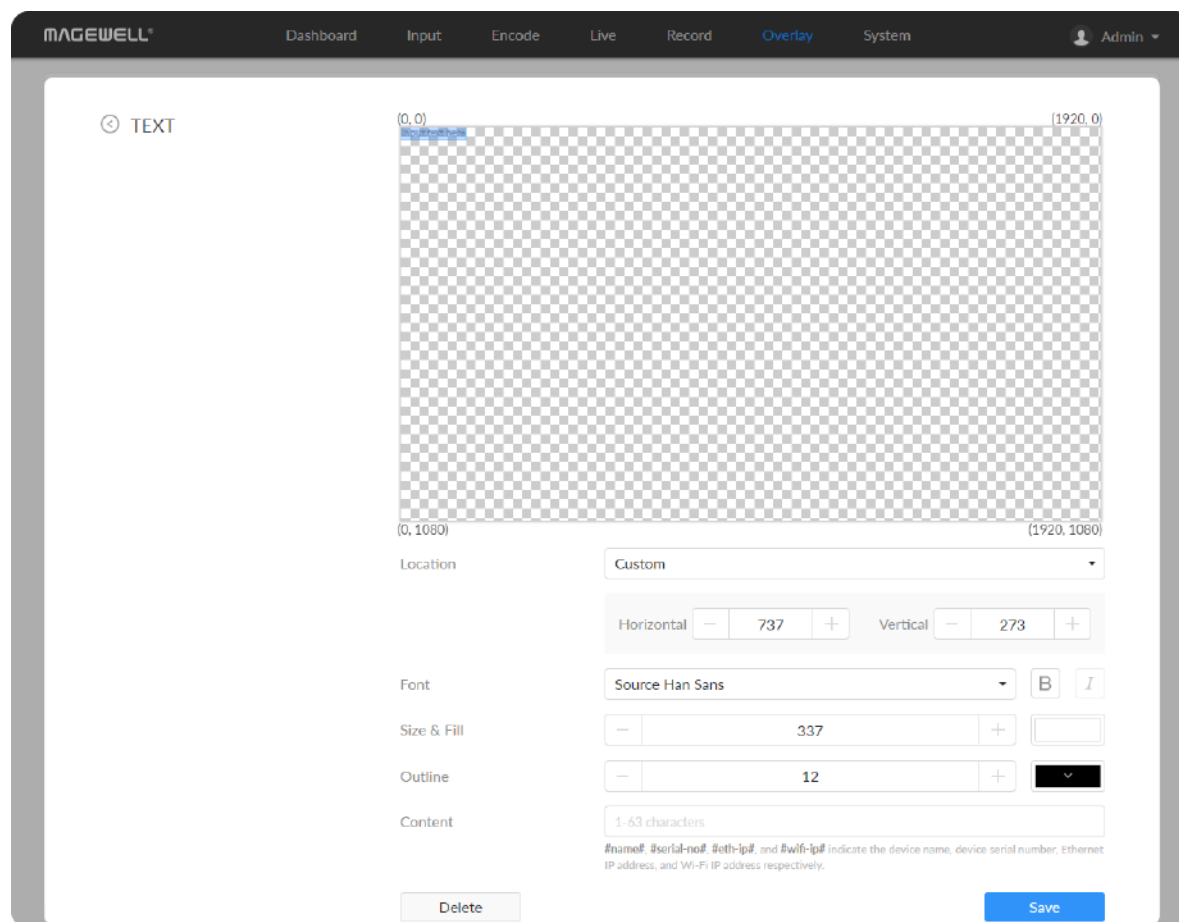
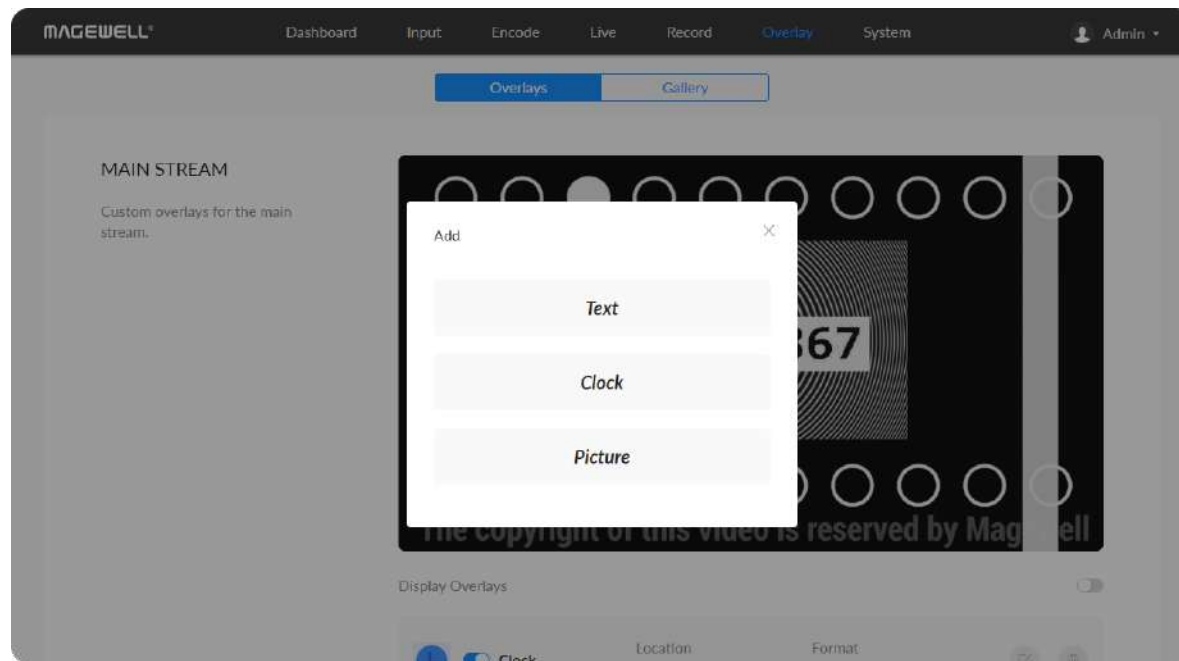
**MAIN STREAM:** The preview window shows a desert landscape with a timer overlay '00:48.650' and a copyright notice 'The copyright of this video is reserved by Magewell'. Below the preview, the 'Display Overlays' toggle is turned on. A 'Picture' overlay is selected, with its location set to '(0, 0)'. An '+ Add' button is visible.

**SUB STREAM:** The preview window shows a timer overlay '2023-07-17 05:55:02' and a copyright notice 'The copyright of this video is reserved by Magewell'. Below the preview, the 'Display Overlays' toggle is turned on. A 'Clock' overlay is selected, with its location set to '(6, -2)' and its format set to 'YYYY-MM-DD hh:mm:ss'. An '+ Add' button is visible.

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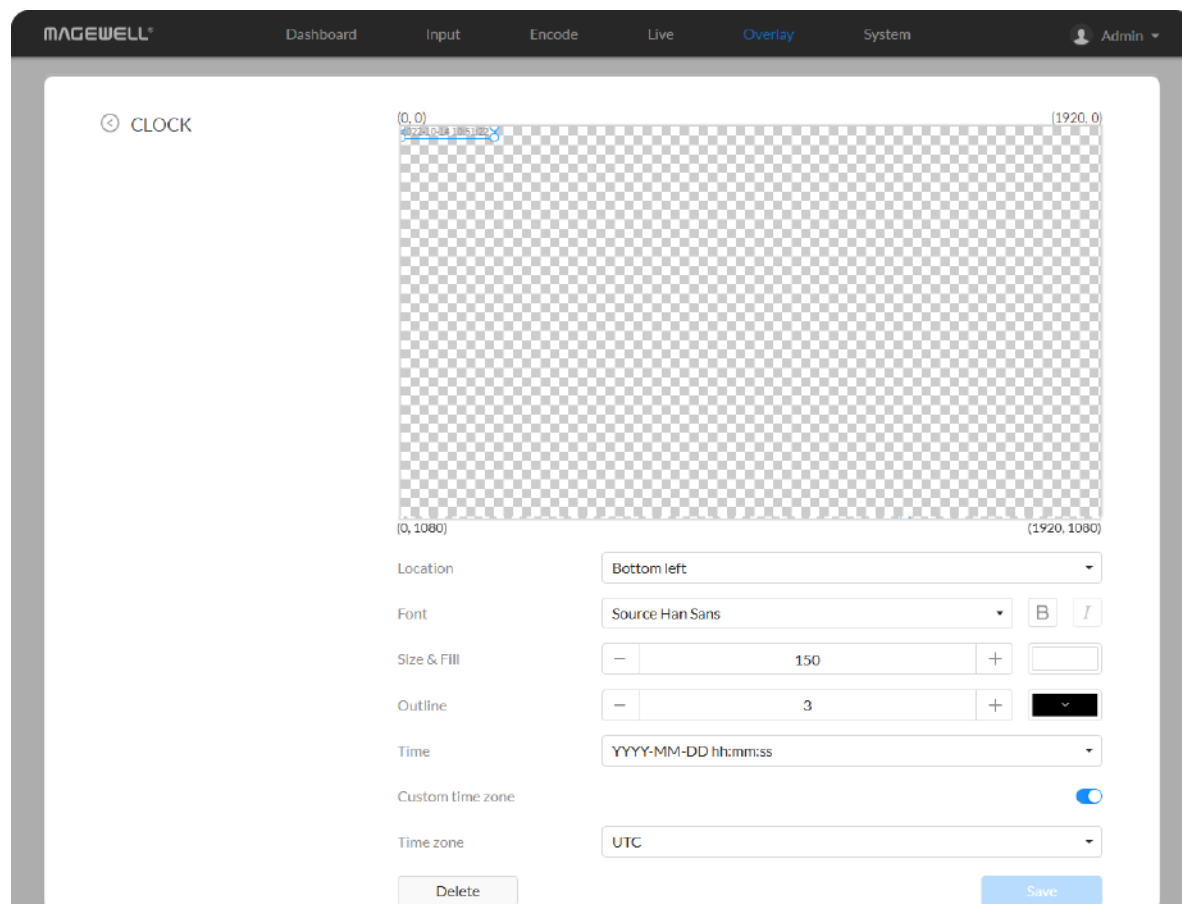
### Setting Overlays for the Main and Sub Streams

**Display Overlays** is off by default. You can preview thumbnails with overlays after turning it on.



### Adding Text

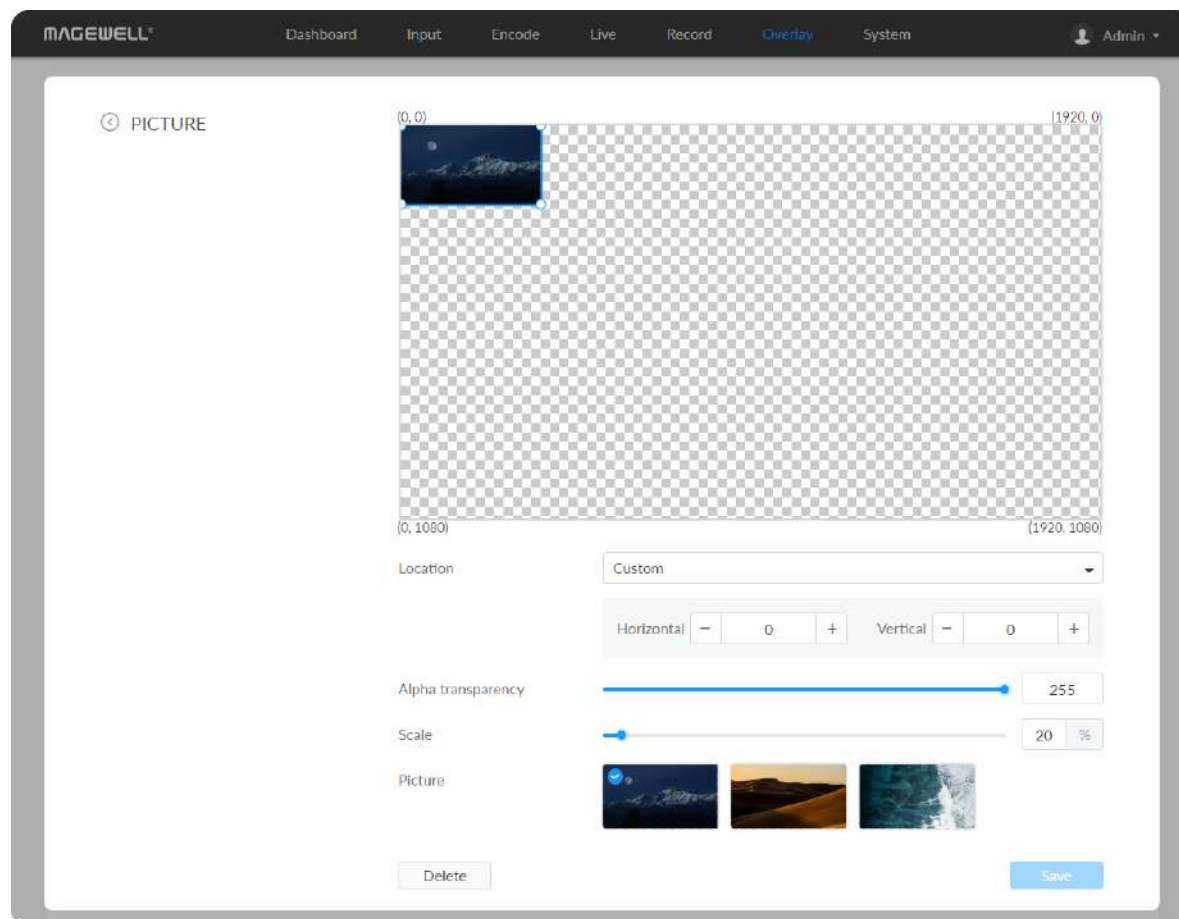
- **Location:** options are Custom(default), Top left, Top right, Top center, Bottom left, Bottom right, Bottom center, and Center. Or just drag the item on the 1920x1080 canvas and place it at your desired location.
- **Horizontal:** specify the horizontal coordinates manually when location is Custom.
- **Vertical:** specify the vertical coordinates manually when location is Custom.
- **Font:** options are Source Han Sans (default), and Lato. Bold and Tilt are also provided.
- **Size & Fill:** font size is 26px by default. You can set from 6 to 400px. The default fill color is rgba(255, 255, 255, 1), and you can click the color-picker to custom your desired color.
- **Outline:** the default width of outline is 1px. You can set from 0 to 100px. And the default outline color is rgba(0, 0, 0, 1), and you can click the color-picker to custom your desired color.



- **Content:** 1 to 63 characters are supported to display.
- **Save:** save current configuration.

### Adding Clocks

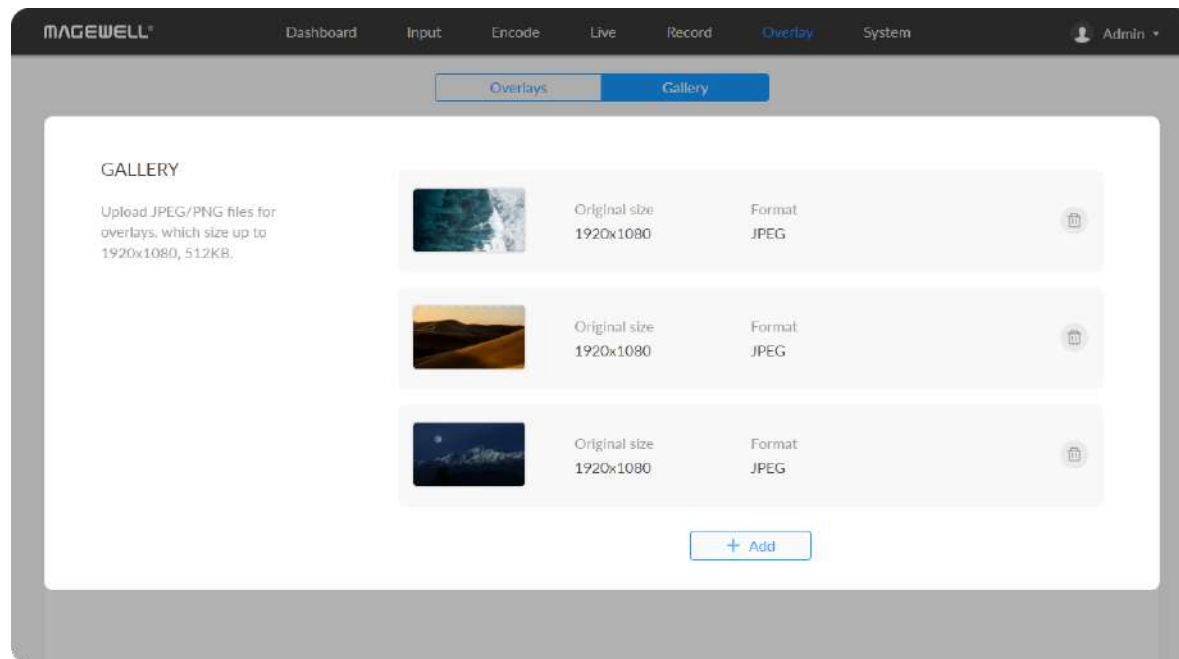
- **Location:** options are Custom(default), Top left, Top right, Top center, Bottom left, Bottom right, Bottom center, and Center. Or just drag the item on the 1920x1080 canvas and place it at your desired location.
- **Horizontal:** specify the horizontal coordinates manually when location is Custom.
- **Vertical:** specify the vertical coordinates manually when location is Custom.
- **Font:** options are Source Han Sans (default), and Lato. Bold and Tilt are also provided.
- **Size & Fill:** font size is 26px by default. You can set from 6 to 400px. The default fill color is rgba(255, 255, 255, 1), and you can click the color-picker to custom your desired color.
- **Outline:** the default width of outline is 1px. You can set from 0 to 100px. And the default outline color is rgba(0, 0, 0, 1), and you can click the color-picker to custom your desired color.
- **Time:** options are as follows.
  - YYYY-MM-DD hh:mm:ss
  - MM/DD/YYYY hh:mm:ss
  - DD/MM/YYYY hh:mm:ss
  - YYYY-MM-DD
  - MM/DD/YYYY
  - DD/MM/YYYY




- hh:mm:ss
- hh:mm
- **Custom time zone:** turn on the switch and select a time zone from the droplist.
- **Save:** save current configuration.

### Adding Pictures

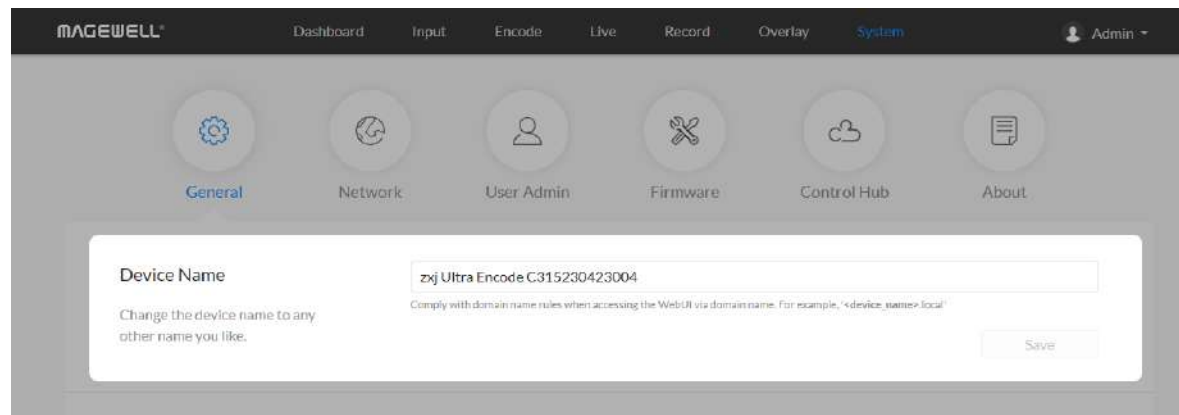
- **Location:** options are Custom(default), Top left, Top right, Top center, Bottom left, Bottom right, Bottom center, and Center. Or just drag the item on the 1920x1080 canvas and place it at your desired location.
- **Horizontal:** specify the horizontal coordinates manually when location is Custom.
- **Vertical:** specify the vertical coordinates manually when location is Custom.
- **Alpha transparency:** it can have a value from 0 (0%) to 255 (100%) in opacity.
- **Scale:** resize your picture between 1% and 400%. By default it is 100%.
- **Picture:** choose a picture from Overlay > Gallery. There is no picture by default.
- **Save:** save current configuration.



## Gallery

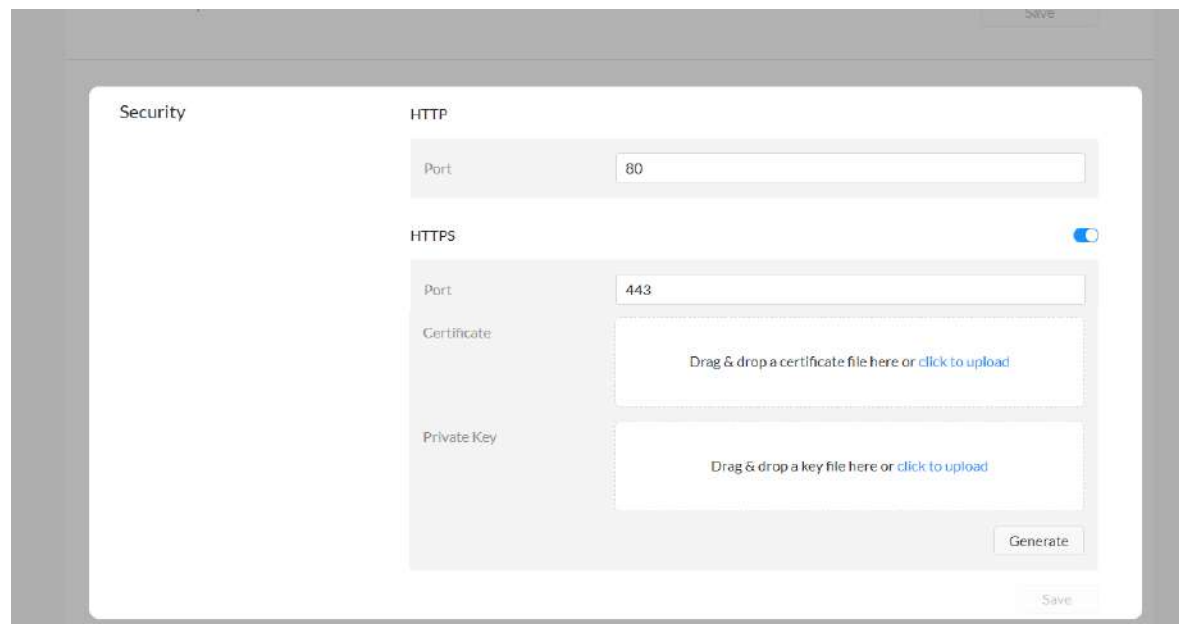
- Upload JPEG/PNG files for overlays, up to 1920x1080, 1 M. And you can add 8 pictures at most.
- You can choose the picture in Overlay > Picture after uploading successfully.
- Click delete button  to delete current picture from your device.

## General



### Device Name

- When used solely as a device name: valid characters are A-Z, a-z, 0-9, space, ., \_, -, +, ', [ (], ] (]), ( ((), ) ()). The first and last character cannot be a space.
- When used as a domain name for WebUI access: valid characters are a-z, 0-9, - (hyphen), and . (dot). Enter "device\_name.local" in a web browser to access the Web UI within the same LAN as the device.
- **Save:** save current configuration.



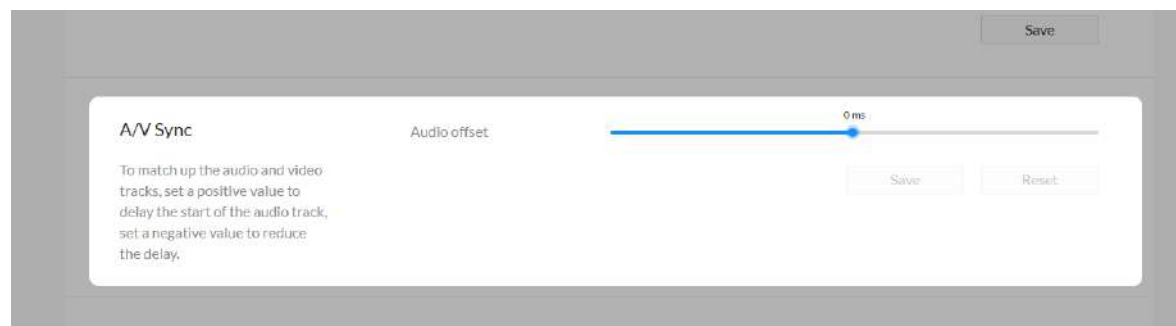
### Modify HTTP/HTTPS settings

1. Modify HTTP port.  
The default port is 80. Modify the port number ranging from 1 to 65535, based on your network condition, then click **Save**.
2. Secure the Control Hub with HTTPS.  
Turn on HTTPS, then specify the port number ranging from 1 to 65535 for HTTPS. The default port is 443.
  - Modify HTTPS port.  
The default port is 443. Modify the port number ranging from 1 to 65535, based on your network condition, then click **Save**.
  - Import a CA certificate and private key into Control Hub.  
Renew certificates by uploading the new files that you want to, without removing existing ones. Then click **Save**.
3. Auto-Generate Certificate
  - Click "Auto Generate" and "Enable" the certificate. The HTTPS function will take effect after the device restarts.

- Upload a new certificate to cover the current one. The operation takes effect after the device restarts.
- Click "Disable" to disable HTTPS. The operation takes effect after the device restarts.

#### 4. Re-log into Web UI.

Open your Web browser and type `https://IPaddress:new-port` to access the SIGN IN page.



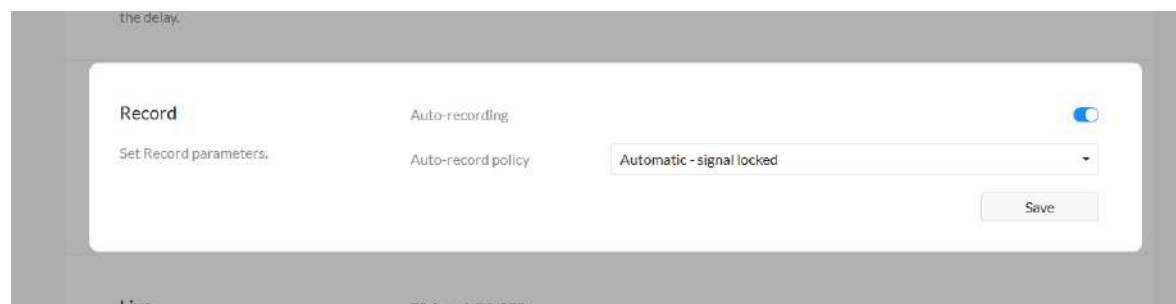
### A/V Sync

- **Audio offset** ranges from -200 to 200ms.

To match up the audio and video tracks, set a positive value to delay the start of the audio track, or set a negative value to reduce the delay.

We recommend that you start your live after this configuration to enjoy the A/V sync adjustment.

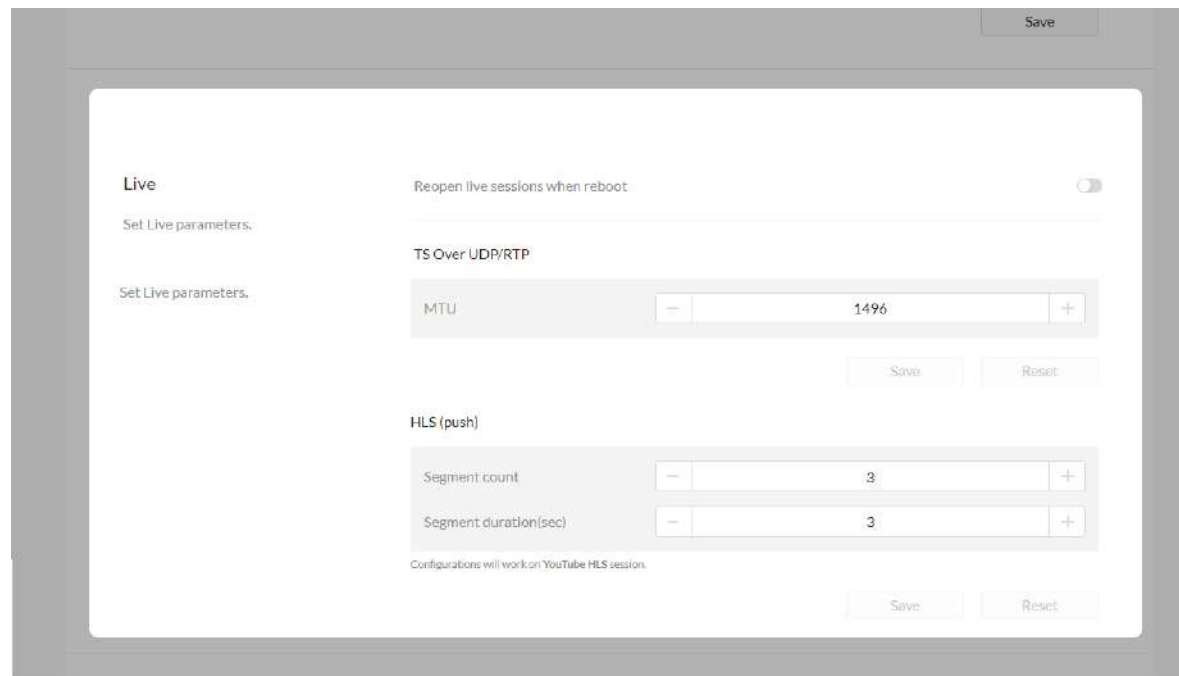
- **Save:** save current configuration.
- **Reset:** reset parameters to default values.



### RECORD

- **Auto-recording:** it is off by default. If you turn it on, options are Automatic - signal locked and Automatic - USB drive connected (recommended if you need to record to USB). You need to turn on the specified record task switch in the Record tab at the same time to make the auto-recording function work.

- **Save:** save current configuration.



## Live

- **Reopen live sessions when reboot** Enables resuming live work on your device from where you left off following a device restart. Enabled by default.
- **TS over UDP/RTP**
  - **MTU:** specify maximum transmission unit (MTU) in bytes, ranging from 228 to 1500. The default size is 1496.
  - **Save:** save current configuration.
  - **Reset:** reset parameters to default values.

## HLS (push)

Configurations will work on both HLS and Youtube HLS sessions.

- **Segment count:** between 1 and 5.
- **Segment duration(sec):** between 1 and 4. Lower value results in lower latency.
- **Save:** save current configuration.

## NDI®

### Access Manager

- **Group name:** specify the group which the source belongs to. 1 to 63 characters are supported. It is case-insensitive, and should be a combination of A to Z, a to z, 0 to 9 and special characters like \_-. Multiple groups are supported, which should be comma-separated. By default, it is public.
- **Discovery Server:** turn on the switch to auto-detect a source sender in different network segment and ping the sender. And the **Server IP** should be the IP address of the server running discovery server software. By default, the switch is off.
- **Save:** save current configuration.

### Bridge

- Enable NDI bridging service to access remote NDI sources on WAN network.
- **"Status":** Indicates the current running status of the NDI bridging service, including:
  - Connected: The bridging service has successfully established a connection with the server.
  - Disconnected: The connection between the bridging service and the server is interrupted.
  - Connecting: The bridging service is attempting to establish a connection with the server.
  - Disabled: The bridging service is in a closed state.
- **"Network Bandwidth":** Refers to the network resources occupied by the NDI bridge when transmitting video/audio streams, usually measured in Mbps (Megabits per second). Low bandwidth may cause video stuttering, delays, or quality degradation. The bandwidth value is determined by video resolution, frame rate, and compression algorithm. Ensure your network environment can

stably support the required bandwidth during use.

- **"Group Name"**: Specify the group to join, default is Public. Used to identify logical groupings of NDI devices or streams, facilitating classified management of multiple NDI sources in large networks. Supports filtering visible NDI streams by group. Devices within the same group can achieve automatic discovery and communication.
- **"Bridge Name"**: Custom identifier for the NDI bridging instance, default is "Device Name-Serial Number-Bridge". Can be modified as needed, supports 1-63 characters. Used to distinguish multiple bridging service instances in the same network and serves as an identification label displayed in NDI management software. Naming conventions are recommended.
- **"Server IP Address"**: Specify the network address of the central server connected by the NDI bridging service, in IPv4 or domain name format. Ensure the bridging device and server are reachable on the same network and that firewalls have opened access to relevant ports.
- **"Server Port"**: Default is 5990. Network port number used for NDI bridge communication. Must be consistent with the port configured on the server side. Different bridge instances can use different ports for parallel communication.
- **"Encryption key"**: Encryption authentication information used for NDI stream transmission to improve security, supports 0-63 characters.
- **"Save"**: Click to save current configuration. Note that saving is also required when closing.

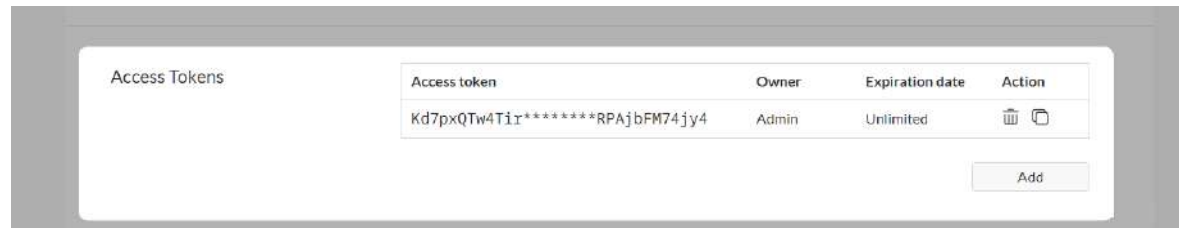
The screenshot displays the configuration page for a ZIXI ZEN Master. At the top left, the text 'ZIXI' is visible. The main heading is 'ZIXI ZEN Master' with a blue toggle switch to its right. Below the heading, the 'Status' is set to 'Disabled'. The configuration fields are as follows:

- Host:** A text input field with the placeholder text 'IP address or domain name'.
- User name:** A text input field with the placeholder text '1-128 characters'.
- Tunnel port:** An empty text input field.
- SSH key:** A larger text area containing a blue link that says 'Click or drag a SSH key file here to upload'.

A 'Save' button is positioned at the bottom right of the configuration area.

## ZIXI

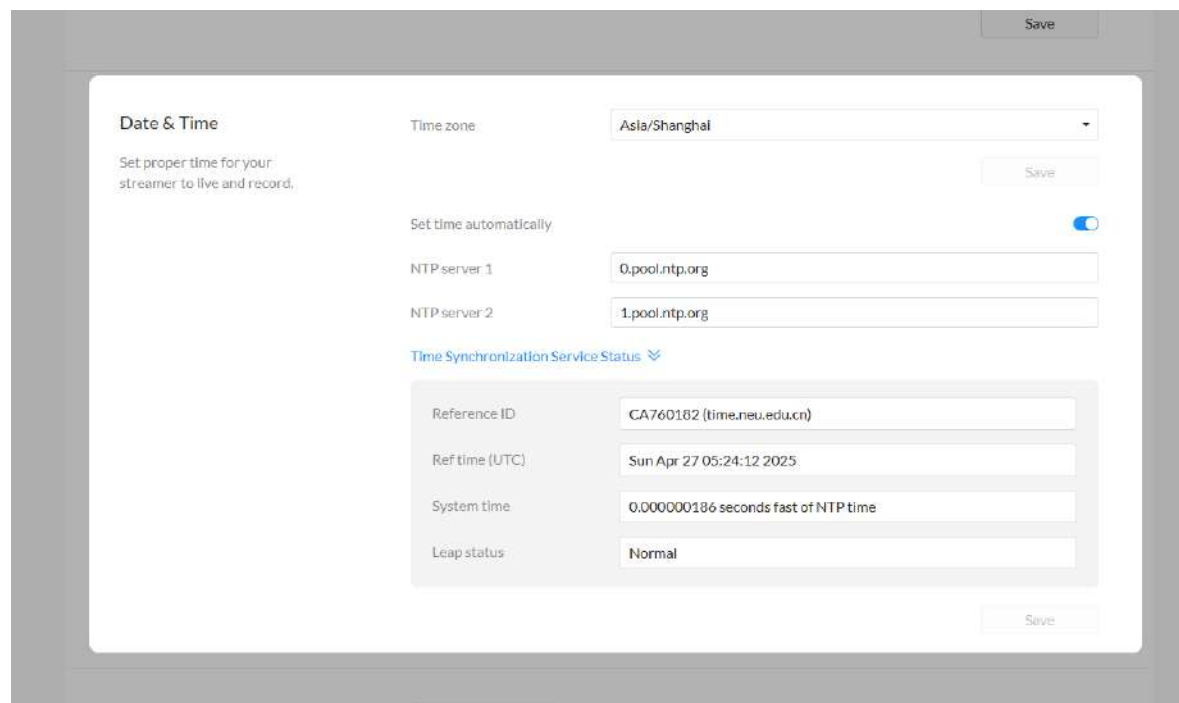
- **ZIXI ZEN Master** The core management tool in the ZIXI ecosystem for managing, monitoring and configuring audio and video (AV) transport nodes.
- **Status** Displays the real-time connection status between the current ZEN Master and remote ZIXI devices/servers (read-only item, cannot be manually modified).
- **Host:** The IP address (IPv4/IPv6 supported) or valid domain name of the target ZIXI server/device to be managed and controlled.
- **User name:** The authentication username for logging into the remote ZIXI device/server, with a length of 1-128 characters. It can contain letters, numbers and some compliant special characters, subject to the account rules of the ZIXI device.
- **Tunnel port** Specifies the network port number for establishing an SSH encrypted tunnel (a valid TCP port in the range of 1-65535; port 22 is the ZIXI default).
- **SSH key:** Click or drag the SSH key file (usually in .pem/.pub format) to this area for upload. It is used for passwordless identity authentication to replace password login, featuring higher security and avoiding the risk of password leakage, which is suitable for long-term operation and maintenance scenarios. Once the file is uploaded and verified, there is no need to enter the password repeatedly for subsequent connections to the target device.
- **Save:** Confirm and save all the configured parameters above; the system will automatically attempt to establish a connection with the remote ZIXI device/server based on the saved configuration after clicking.



### Access Tokens Management

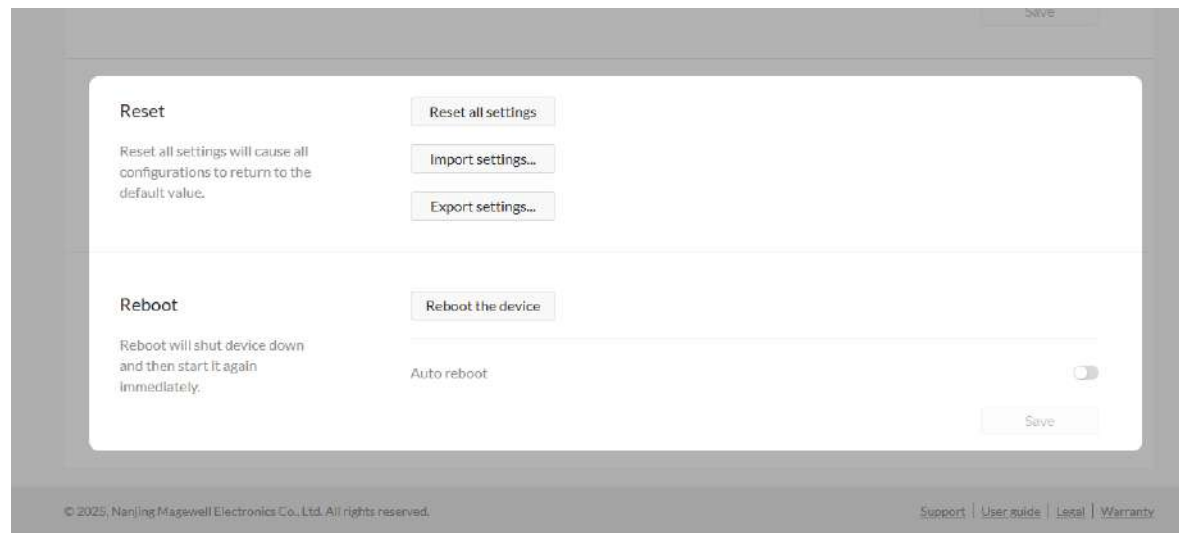
Tokens allow API access without logging in to the Web UI. Administrator tokens have full access, while user tokens have limited permissions.

- Click **Add** to create a new token.
- Specify the user (default is Admin), token value (64 characters), and expiration time.
- Click the delete or copy icon to manage existing tokens.



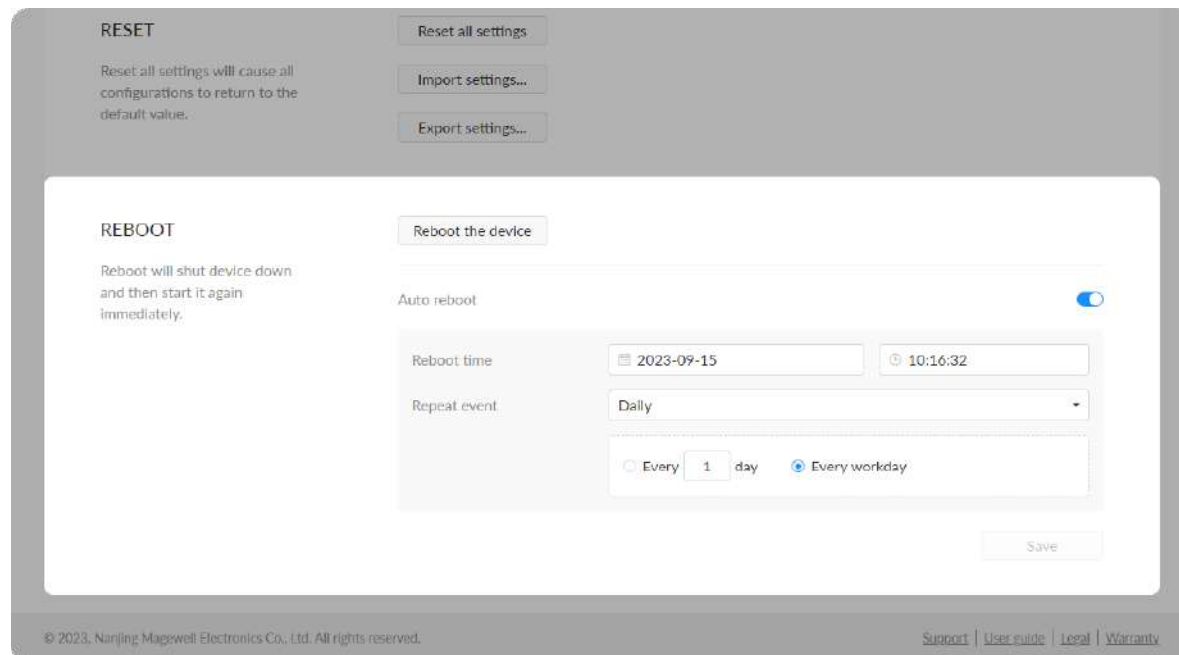
### Date & Time

- **Time zone:** specify a time zone for your device.
- **Set time automatically:** turn on **Set Time Automatically**. Then the device's time will be synchronized to the world-time servers depending on the time zone you set. Otherwise, you can set time manually.
- **NTP server 1:** the default server is 0.pool.ntp.org.
- **NTP server 2:** the default server is 1.pool.ntp.org.
- Check Time Synchronization Service Status, including Reference ID, Ref time (UTC), System time and Leap status.
- **Save:** save current configuration.



## Resetting Your Device

- **Reset all settings:** be cautious that resetting your device would restore configurations to defaults.
  - You can **Reset all settings** on the "SIGN IN" page, when the device is connected to PC via USB NET.
- **Import settings...** Click the button and select the target JASON format configuration file in the pop-up window, after importing the settings successfully, the device will be reconnected and you need to log in to the Web UI again.
- **Export settings...** Click the button, set the file name in the pop-up window, click "Export" to download the JASON format configuration file to the default path of your browser. The default file name is Settings\_YYYY\_MM\_DD\_HH\_MM\_SS.json.

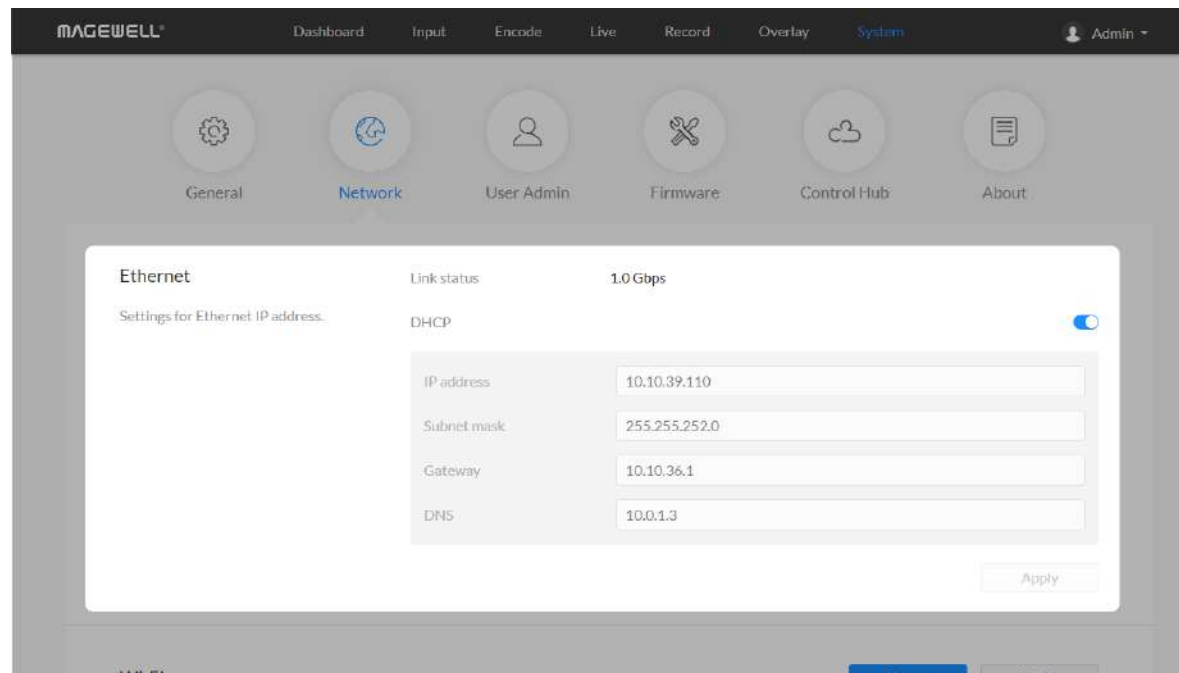


## Reboot

- **Reboot the device:** power off the device and restart it when it does not work.
- **Auto reboot:** off by default. Turn it on to set Reboot time (YYYY-MM-DD HH-MM-SS), Reboot time, and click Save.
  - **Repeat event:** Support no-repeat (default), daily, weekly, monthly, yearly.
    - **Daily:** The repeat mode can be repeated every N days, or every workday.
    - **Weekly:** The repeat mode can be Repeat every 1 week next days: multiple choices are available.
    - **Monthly:** The repeating pattern may be repeat N days every N month, or on weekday every N month.
    - **Yearly:** The repeating pattern can be every N day N month, or on N weekday of N month.

## Network

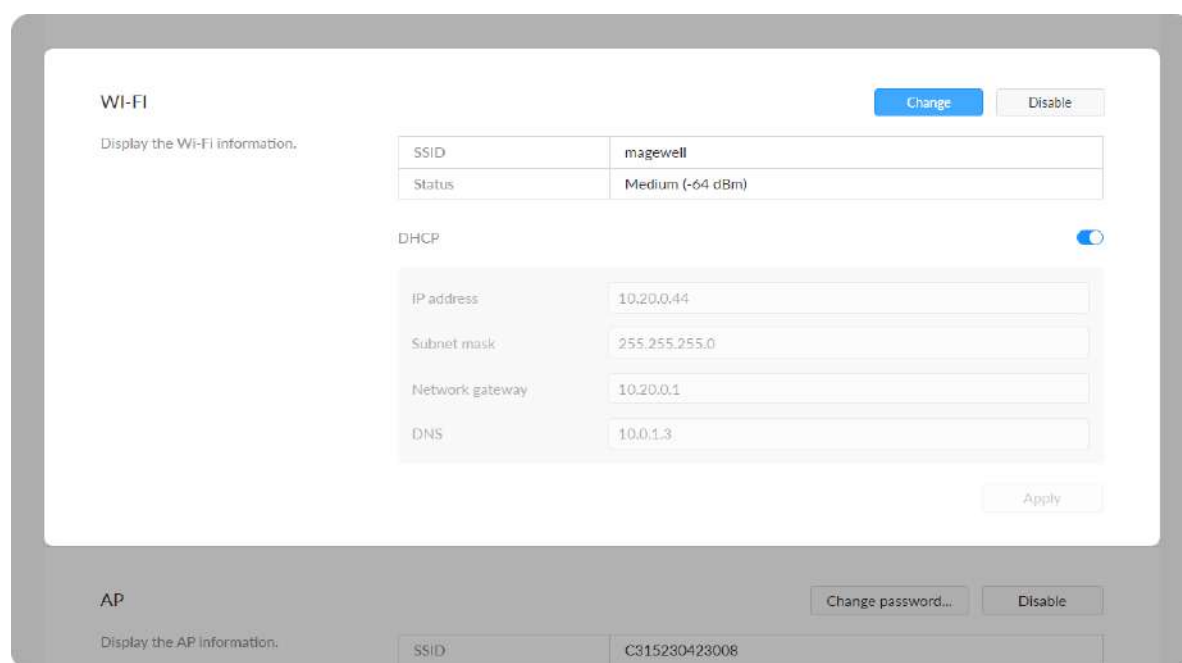
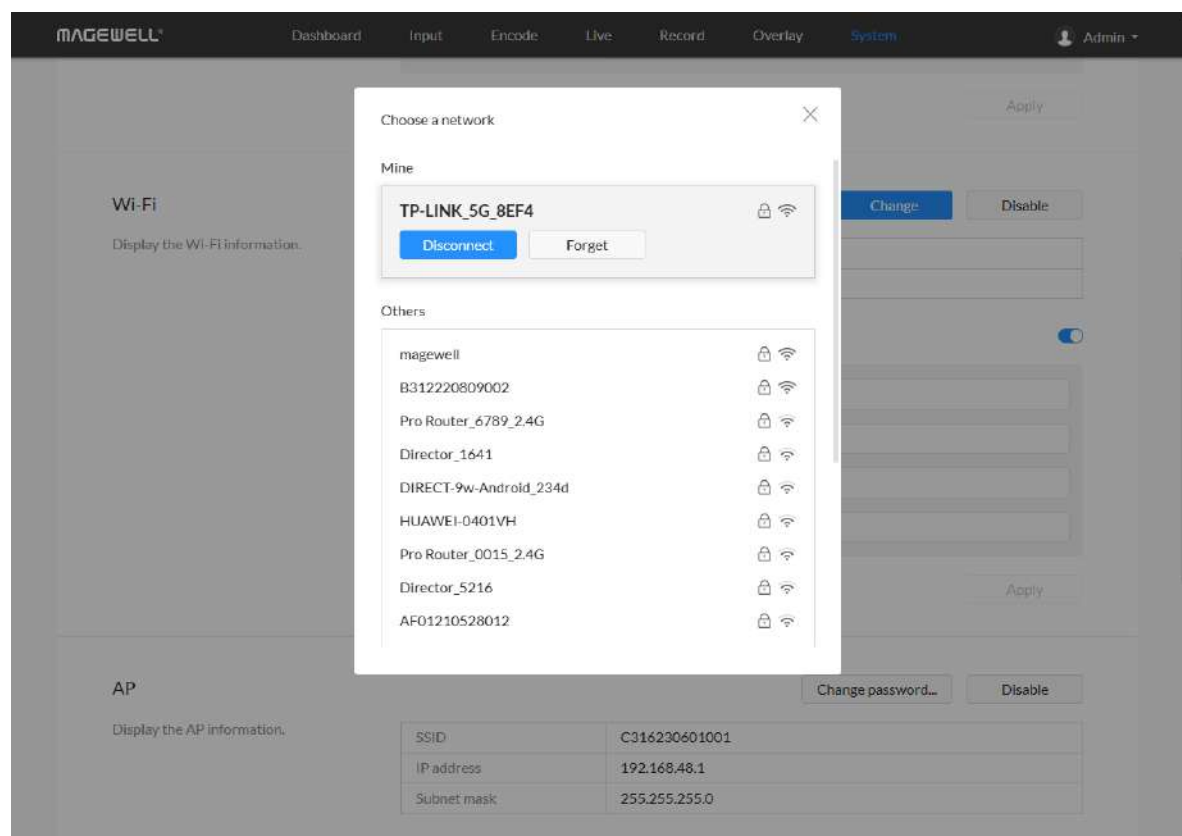
Networking information, including Ethernet, USB NET, mobile network, Wi-Fi and AP, can be set in the **Network** tab.



### Setting ETHERNET

The device automatically detects and connects to the Ethernet when networking to a DHCP-enabled LAN. Or you can set the IP address manually for a fixed IP address or an auto-networking failure.

- **DHCP:** it is on by default. Turn off the switch to modify current network setting or when being connected to a non-DHCP network.
  - **IP address:** device IP address.
  - **Subnet mask:** device subnet mask.
  - **Network gateway:** device gateway.
  - **DNS:** DNS server IP address.
- **Apply:** make current configuration effective. When prompted, click **Yes**.
- **Verify:** input new IP address to open the Web UI.



## Setting Wi-Fi

16 Wi-Fi network information can be saved for auto-detection.

- **Change...** click to choose a different WLAN to connect to.
- **Disable:** click to turn off Wi-Fi function. Then Wi-Fi will not be available.
- **Enable Wi-Fi:** click to turn on Wi-Fi function.
- **SSID:** named after device serial number.
- **Status:** Wi-Fi signal strength.
- **IP address:** WLAN IP address.
- **Subnet mask:** WLAN subnet mask.
- **Network gateway:** WLAN gateway.
- **DNS:** WLAN DNS server IP address.

## Search Wi-Fi Network manually

1. Click **Change...** to choose a different WLAN to connect to, and **Enter the network security key**. If you select **Others...**, enter **Name** (1-63 characters) and choose a **Security** policy from **None**, **WEP**, **WPA/WPA2-PSK**, and **802.1x EAP**, and enter the **Password** (8 characters at least). Click **connect**.
2. (Optional) **Disconnect:** click to cut off current Wi-Fi network.
3. (Optional) **Forget:** click to delete current Wi-Fi network information.
4. (Optional) Check **Connect automatically**, then the Wi-Fi network will be joined automatically.

## Setting Wi-Fi manually

- **Set IP address manually:** turn on the switch to modify current network setting or when being connected to a non-DHCP network.
- **IP address:** device IP address.
- **Subnet mask:** device subnet mask.

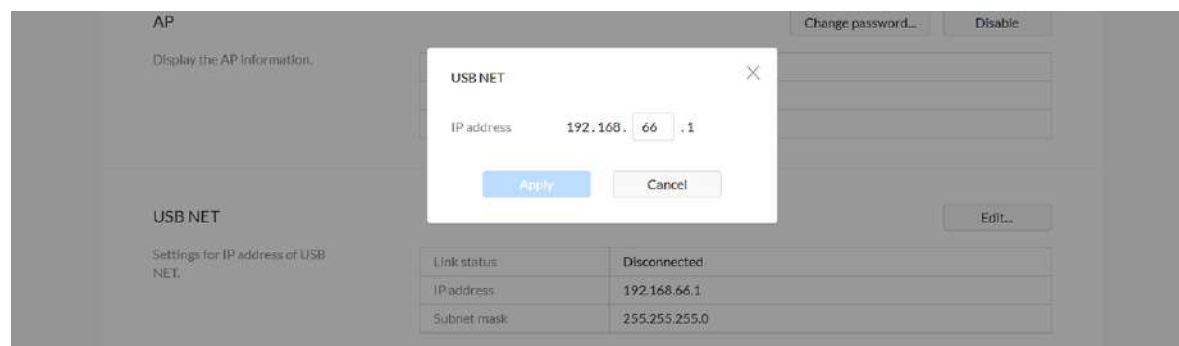


- **Network gateway:** device gateway.
- **DNS:** DNS server IP address.
- **Apply:** make current configuration effective. When prompted, click **Yes**.
- **Verify:** input new IP address to open the Web UI.

### Setting AP

You device can work as an AP to be joined to for remote web control.

- **SSID:** by default, it is named after the device serial number.
- **IP address:** fixed as 192.168.48.1.
- **Subnet mask:** fixed as 255.255.255.0.
- **Change password...**
  - **AP password:** the default AP password is the last 8-number of the serial number. For example, a serial number 311210101001 indicates the initial AP password is 10101001. It ranges from 8 to 16 characters including A-Z, a-z, 0-9, space, ., \_ , + ' [ ] ( ) and cannot begin or end with a space.
- **Disable:** click to turn off AP mode. This renders you unable to manage the device over AP, which is not recommended, especially when you are using wireless network or linux/mac OS.

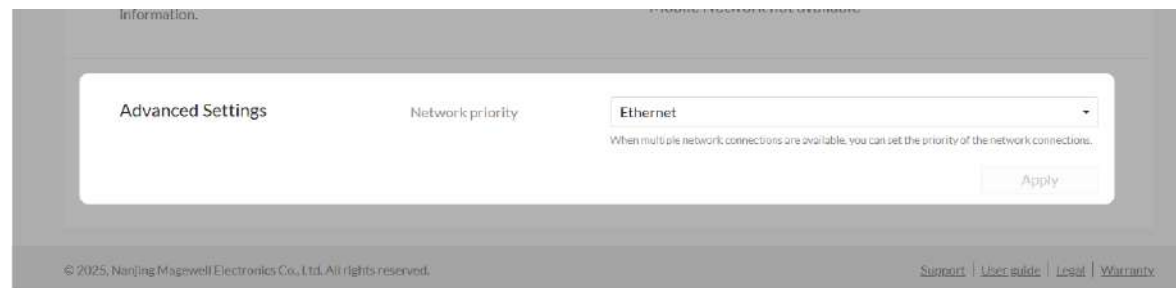
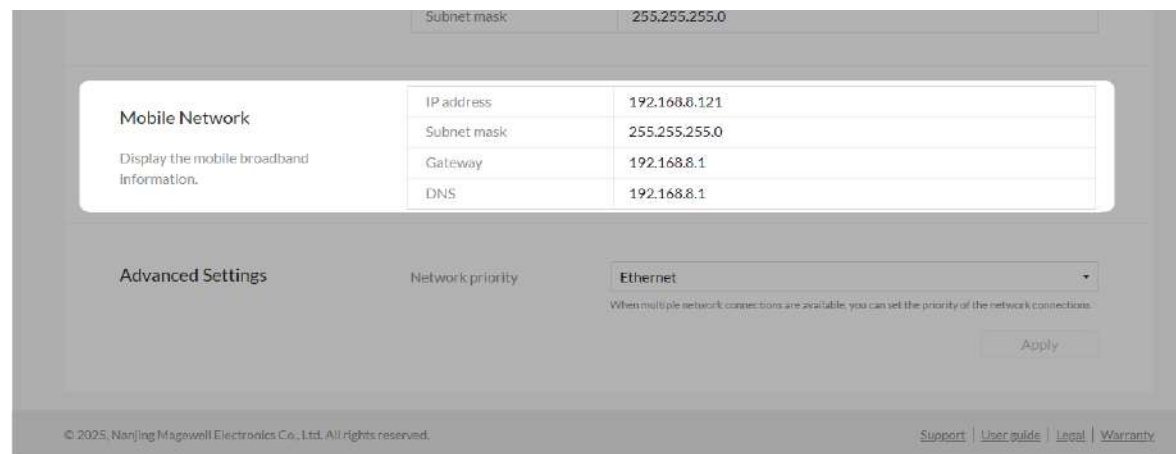


### Setting USB NET

You can connect your device to a PC via USB NET for remote control.

- **Link status:** USB NET connection status.
- **IP address:** USB NET IP address, 192.168.66.1 by default. You can click **Edit...** to change it.

- **Subnet mask:** Subnet mask of USB NET.
- **Edit...:** enter a new address and click **Apply** in the prompt window. The **IP address** will show the changed IP address after modification.



## Setting Mobile Network

The encoder supports streaming via a USB modem.

- **IP address:** IP address assigned by the USB modem.
- **Subnet mask:** subnet mask.
- **Network gateway:** gateway.
- **DNS:** DNS server IP address.

## Advanced Settings

- **Network priority**

The default network priority is as follows: Ethernet > Wi-Fi > Mobile Broadband. This parameter does not impact the real-time transmission of video and audio data during live streaming. However, it may affect the quality of other network-related services, such as the ability to communicate with the Control Hub for device management and monitoring purposes.

If the parameter is set to Mobile Broadband, please insert a USB mobile network card into the encoder.

## User Admin

Administrator is allowed to perform the following tasks. The **User Admin** tab is invisible when you log in as a general user.

- [Creating/Removing General User Accounts](#)
- [Modifying User Password](#)

The screenshot shows a modal dialog titled "Add New User" with a close button (X) in the top right corner. The dialog contains the following fields:

- User name:** A text input field with a placeholder "3-12 characters (A-Z, a-z, 0-9 and underline)".
- Password:** A text input field with a placeholder "8-20 characters" and a visibility toggle (eye icon).
- Confirm password:** A text input field with a placeholder "Verify your passcode" and a visibility toggle (eye icon).
- Role:** A dropdown menu with "User" selected.

At the bottom of the dialog are two buttons: "OK" (highlighted in blue) and "Cancel".

### Creating/Removing General User Accounts

After signing in with default admin account, you may need to add general users to give them permissions to do basic operations, like monitoring the device, or setting some of the parameters.

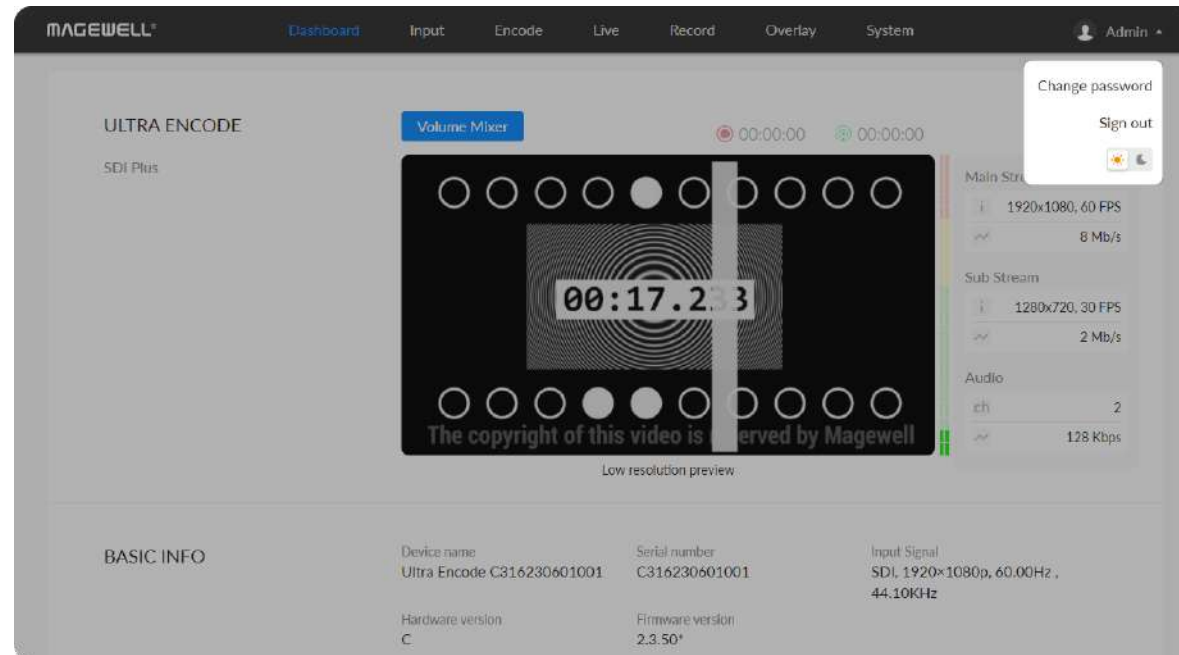
1. Access the Web UI, and sign in as administrator.
2. Go to **User Admin** tab.
3. Click **Add user**.
4. Enter username, password, and confirm your password.
  - The username is a string of 3 to 12 characters, which contains the letters A-Z, a-z, numbers 0-9 and underline.
  - The password is a string of 1 to 32 characters, which contains the letters A-Z, a-z, numbers 0-9 and special characters `_~!@#$%^&*+=`.
5. Assign the user to an Administrator role or general User role.
  - Administrators have the highest level of access to an account.
  - A general user will have limited access to the account as per the permissions given by the Admin. You may not get access to the "User Admin" function.
  - The user role can not be changed. You might need to recreate a new user.
6. Click **OK**.
7. Repeat step 3~5 to add multiple users. You can add up to 15 users.

8. To delete a user: Click **Delete** in the username card. When prompted, click **Yes**.


## Modifying User Password

Set Password in the following ways.

1. [Modify user password logged-in](#) via drop-list beside your avatar at the top right
2. [Modify a specified user password](#) in **User Admin** tab with admin account



### Modifying current logged-in user password

1. Log in Web UI.
2. Click the drop-list icon  beside your avatar icon, and click **Change password**.
3. In the pop up window, type in your old password, the new password, and confirm your new password.

The password is a string of 1 to 32 characters, which contains letters A-Z, a-z, numbers 0-9 and special characters `_~!@#$%^&*~+=.`

4. Click **OK**.

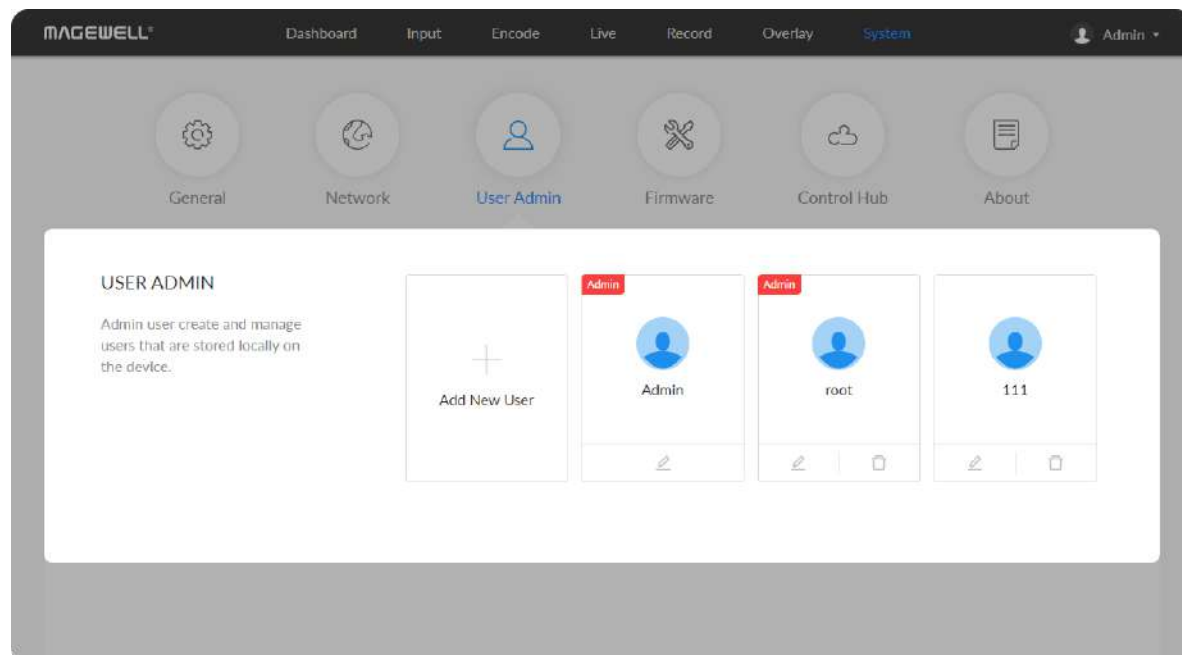
Change Password ✕

Old password


New password  
8-20 characters

Confirm password  
Verify your new passcode

**OK** Cancel



### Modifying a specified user password

1. Access the Web UI and sign in with the administrator account.
2. Go to **User Admin** tab, then you can change any user's password.
3. Click the  **Set password**.
4. In the pop up window, type in and confirm your new password.  
The password is a string of 1 to 32 characters, which contains letters A-Z, a-z, numbers 0-9 and special characters `_~!@#$$%^&*~+=.`
5. Click **OK**.

Set Password ✕

New password

1-32 characters (A-Z, a-z, 0-9 and \_-!@#\$%^&\*+=) 👁

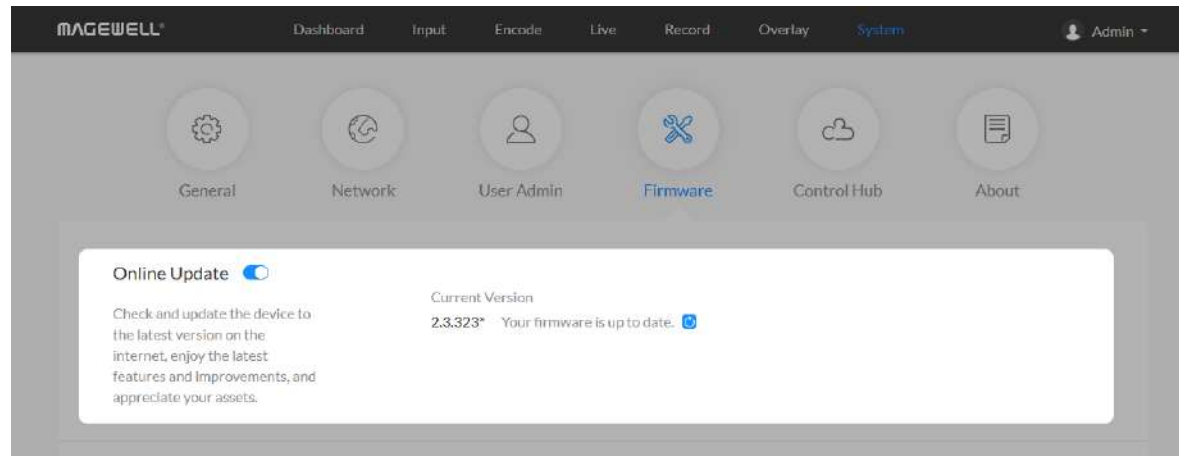
Confirm password

Verify your new passcode 👁

Cancel OK



## Firmware

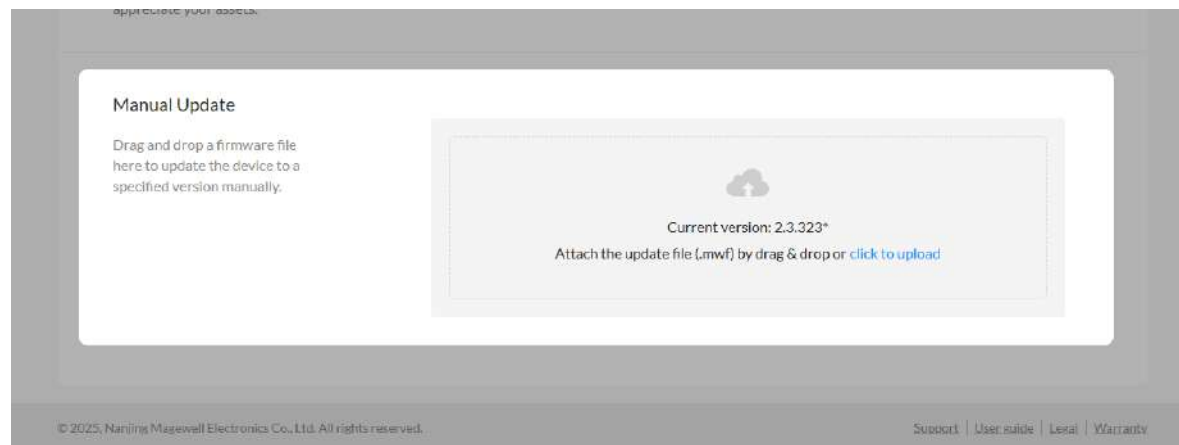
Detect and update firmware to the latest version online, or you can manually add a firmware file to update the unit to specified version.



### Online Update

By default, the function is on. When a new version is detected, a **Firmware** icon will flow on the control pane.

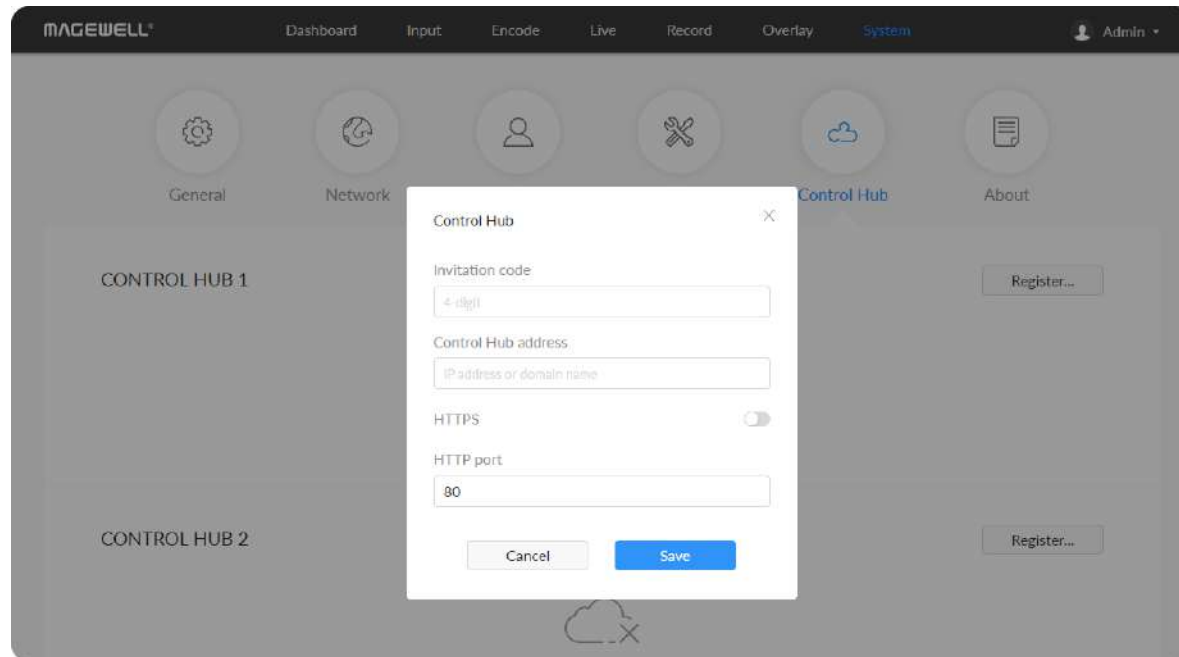
1. Turn on  switch, and the online update function is on. The unit would detect the latest released firmware automatically when connecting to the Ethernet.
2. Click  icon to check for the latest firmware manually.
3. Click **Update** button to download and install the new version file if any. Do not disconnect from the power source or perform any operation while updating the firmware as this could damage your gear. After a successful update, the device will restart automatically.
4. Verify: click  checking for updates again.



### Manual Update

1. Click on **click to update** to select the **.mwf** firmware update file from your local storage, or just drag and drop the file from your computer into the upload zone. Download firmware file from [our official website](#). The device will automatically verify the update file and upload the file after the file verification is passed.
2. Click **Update** to download and install the new version file. Then the device will reboot to complete the update. Do not disconnect from the power source or perform any operation while updating the firmware as this could damage your gear.
3. Verify: check the **Firmware version** in **Dashboard** or **Firmware** tab. It should

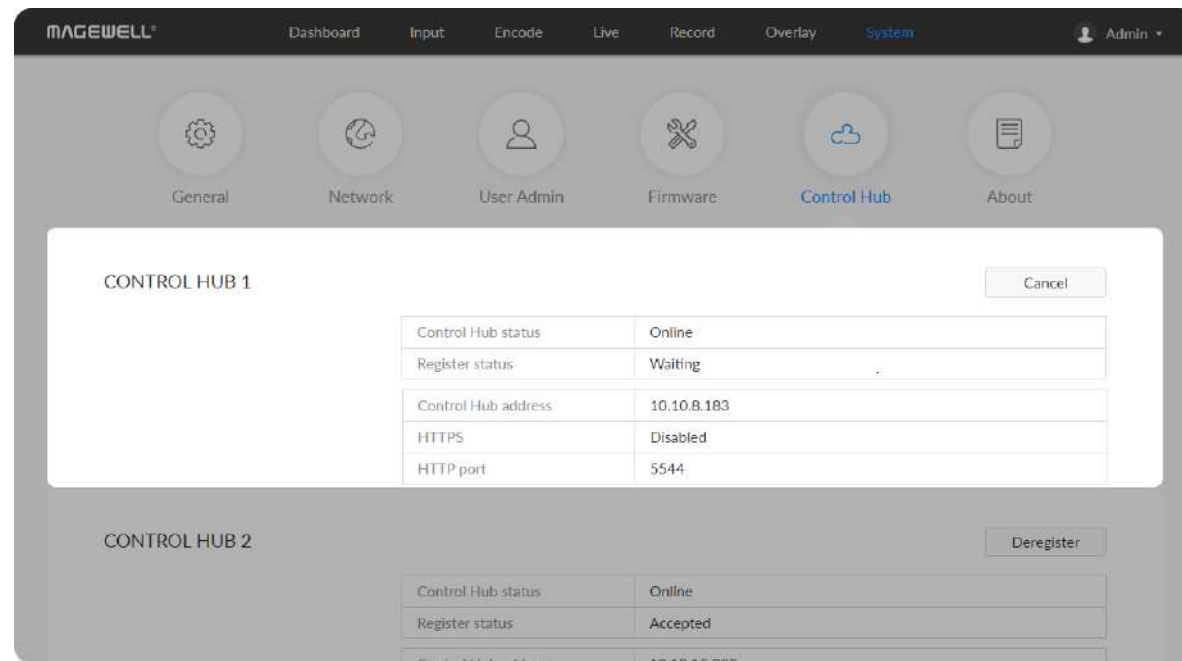
be the same as your target version number.



## Control Hub

You can apply for remotely control using Control Hub. 2 platforms are supported simultaneously, Control Hub 1 and Control Hub 2.

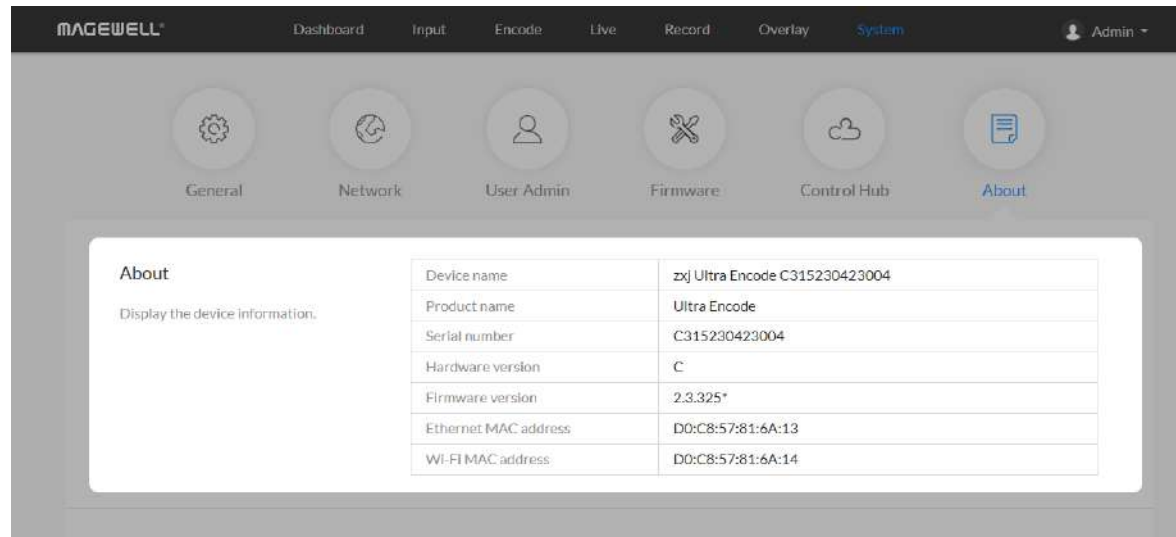
- Click **Register...** and input parameters in the prompted window. And save after configuration.
  - **Invitation code:** a 4-digital numbers security code obtained from Control Hub. If not leave it empty.
  - **Control Hub address:** input IP address or domain name of Control Hub.
  - **HTTPS:** turn it on when data security matters, and Control Hub enables HTTPS at the same time. It is off by default.
    - **HTTPS port:** input HTTPS port number between 1 and 65535, which should be consist with that of Control Hub. Port 443 is used by default.
    - **HTTP port:** input HTTP port number between 1 and 65535, which should be consist with that of Control Hub. Port 80 is used by default.
- Click **Deregister** to stop the remote control from Control Hub.



- Check parameters related to Control Hub management.
  - **Control Hub status: Online or Offline.** Online indicates that the communication between device and Control Hub platform goes well. On the other hand, Offline indicates the communication is interrupted.
  - **Register status:** shows current status of Control-Hub-join permission, including
    - Incorrect invitation code: you need to change your registration with correct code.
    - Waiting: registration is successfully submitted to Control Hub platform.
    - Approved: registration is approved. This device can be remotely controlled.
    - Rejected: Registration is denied.
    - Deleted: Registration is deleted, you can re-apply for joining the Control Hub.
  - **Control Hub address:** shows the IP address of Control Hub.
  - **HTTPS:** shows the enable status of HTTPS.
  - **HTTPS/HTTP port:** shows the HTTPS/HTTP port of device used to communicate with Control Hub.

## About

Obtain basic data for device maintenance in **About** tab.



About	
Display the device information.	
Device name	zxj Ultra Encode C315230423004
Product name	Ultra Encode
Serial number	C315230423004
Hardware version	C
Firmware version	2.3.325*
Ethernet MAC address	D0:C8:57:81:6A:13
Wi-Fi MAC address	D0:C8:57:81:6A:14

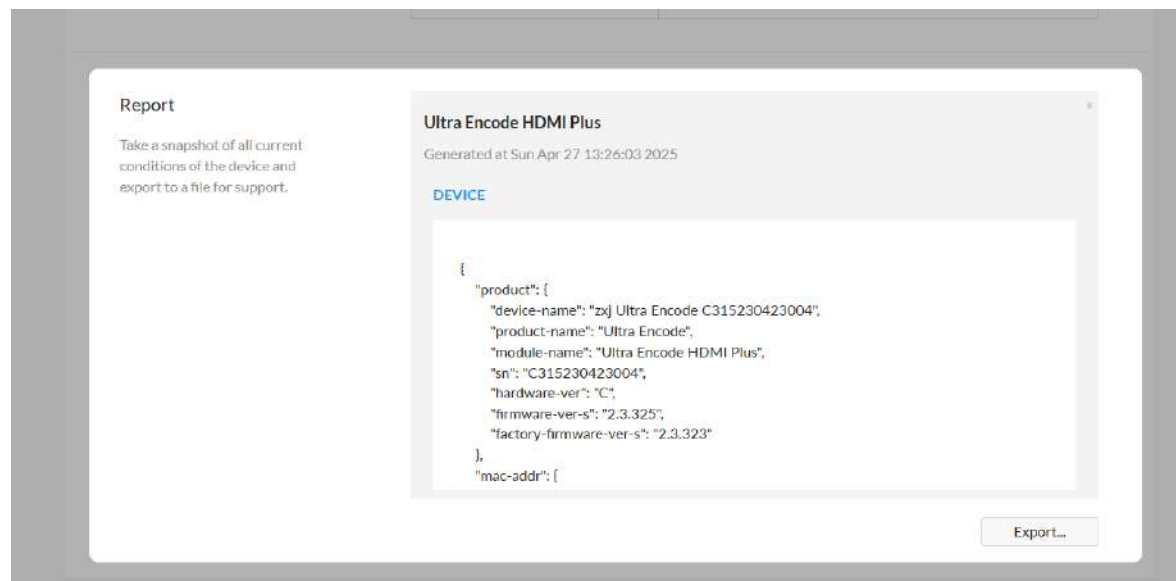
## Checking Device Information

- **Device name:** device name, which can be modified in the [System > General > Device name](#) area.
- **Product name:** device family name.
- **Serial number:** device serial number.
- **Hardware version:** device hardware version.
- **Firmware version:** device firmware version, which can be update in the [Firmware](#) tab.
- **Ethernet MAC address:** device Ethernet MAC address.
- **Wi-Fi MAC address:** device Wi-Fi MAC address.

## Exporting Reports

Export reports from your encoder when you want to get help from the Magewell Support team. These files will help our support engineers get a better understanding of your device status and other related information.

1. Go to **About > Report**.
2. Click **Export...** to generate a .html file.
3. When prompted, click **Export**.



```

{
  "product": {
    "device-name": "zxj Ultra Encode C315230423004",
    "product-name": "Ultra Encode",
    "module-name": "Ultra Encode HDMI Plus",
    "sn": "C315230423004",
    "hardware-ver": "C",
    "firmware-ver-s": "2.3.325",
    "factory-firmware-ver-s": "2.3.323"
  },
  "mac-addr": {

```

**System Log**

Track important events generated by the device and export them as a file for technical support.

Total: 2000 events  All  Information  Warning  Error

Level	Date & Time	Detail
Information	2025-04-27 13:24:57.314	Interface (wlan0) was assigned IP address 10.20.2.127
Information	2025-04-27 13:19:52.439	v4l2 VIDIOC_DQBUF 1000 frames ok!
Information	2025-04-27 13:19:19.069	c_h401_capture::create - ok!
Information	2025-04-27 13:19:19.048	Input signal ready.
Information	2025-04-27 13:19:18.924	Audio signal present: 48000 Hz, 2 channels, 24 bits
Information	2025-04-27 13:19:18.689	Video signal locked: 1920x1080i59.94
Information	2025-04-27 13:19:18.453	Video signal locked: 1920x1080i59.94
Warning	2025-04-27 13:19:16.914	Audio signal not present
Warning	2025-04-27 13:19:16.538	Video signal unlocked
Information	2025-04-27 11:28:36.905	v4l2 VIDIOC_DQBUF 1000 frames ok!
Information	2025-04-27 11:28:20.164	Audio signal present: 48000 Hz, 2 channels, 24 bits
Information	2025-04-27 11:28:03.524	c_h401_capture::create - ok!

Clear Export...

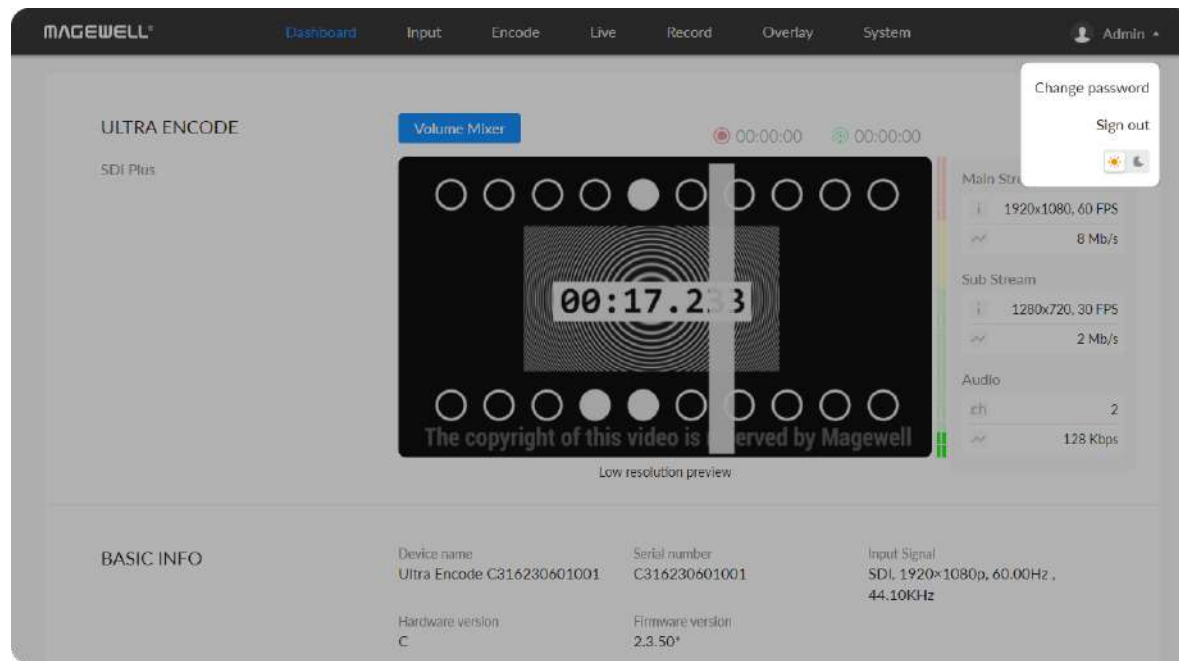
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### Clearing/Exporting All Logs



1. Access the Web UI and sign in.
2. Click and enter the **System** tab, then select **Log**.
3. (Optional) Filter current logs.

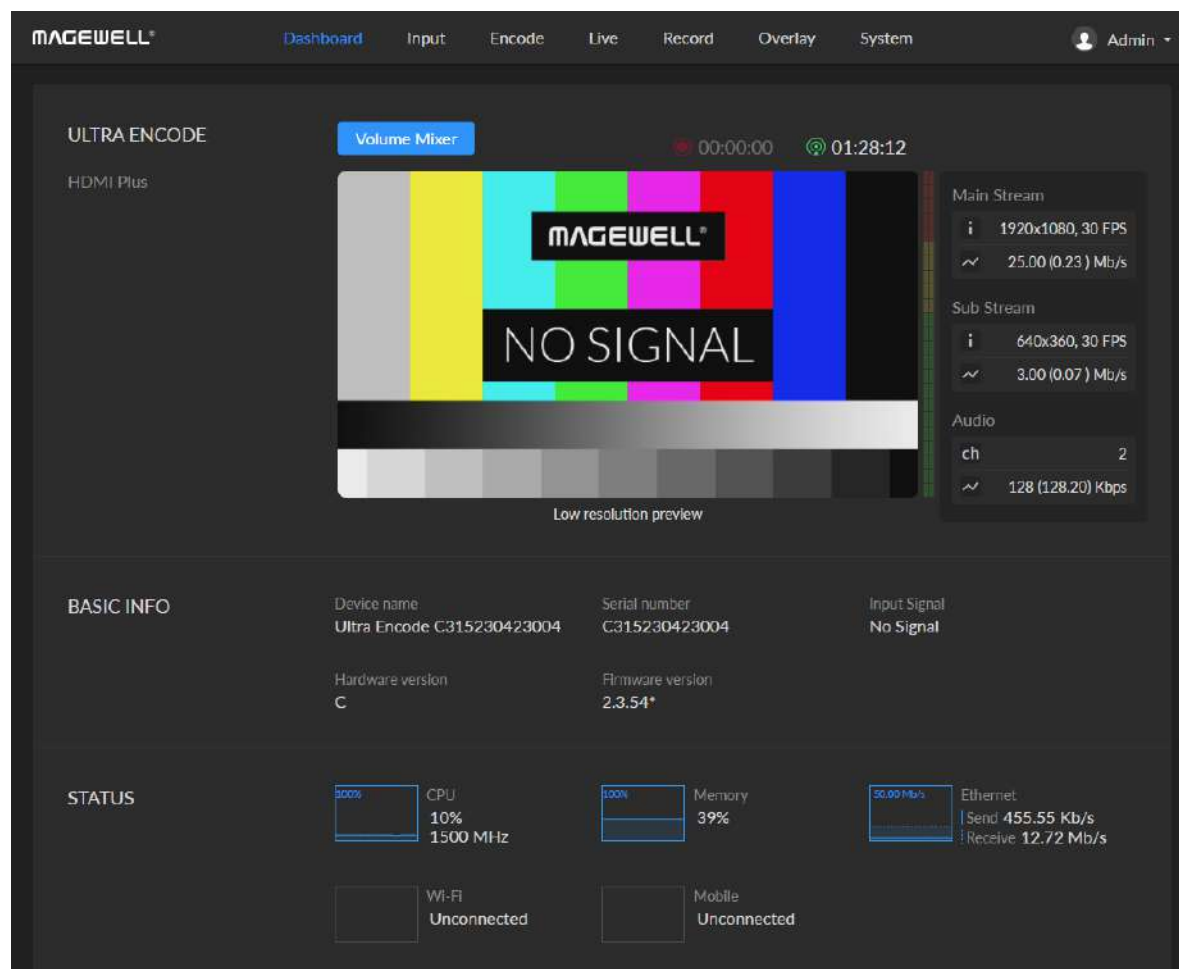
By default, all logs are displayed in the table. Log entries can be categorized as "error", "warning", and "information".

- **Total** shows the total number of filtered events.
  - **All**: Check to show all logs.  
The device can store up to 1000 local log entries. After 1000 entries have been recorded, the oldest entry will be deleted before a new one can be added.
  - **Information**: Check to show information logs - which record user actions or significant system events, e.g. login and signal locked.
  - **Warning**: Check to show warning logs - which mean something has not worked as it should. e.g. Ethernet is disconnected or signal is unlocked.
  - **Error**: Check to show error logs - which mean some serious error has happened.
4. (Optional) Click **Export...** to get a .html file of all logs.  
When prompted in the window, click **Export**.
  5. (Optional) Click **Clear** to delete all logs.  
When prompted in the window, click **Yes**.



## Enable Dark Mode for Your Web UI

1. Log in Web UI.
2. Click the drop-list icon  beside your avatar icon, and click  to switch between day and night mode.



# FAQ

## How to turn on/off AP mode

AP mode is on by default. Administrator can go to **System > Network > AP** section to turn on/off the AP mode and change AP password.

## Can I set one live stream server to use the main stream and the other to use the sub stream?

Yes. You can select the main stream or sub stream for each session.

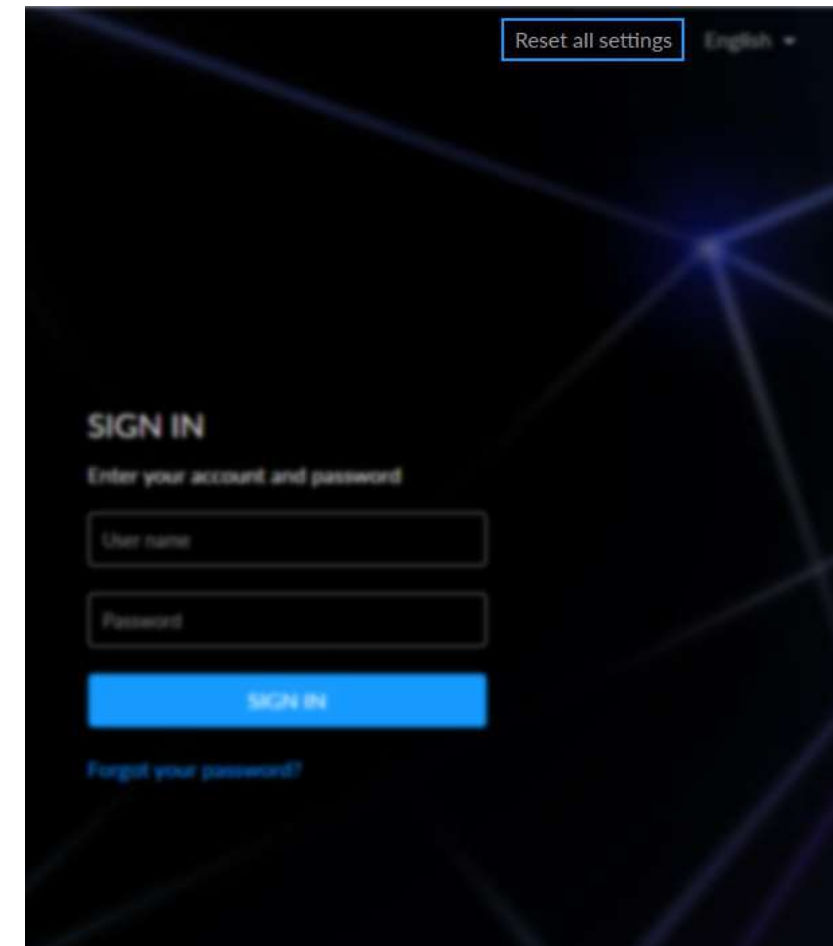
## Can Ultra Encode stream to multiple destinations at the same time?

- Supported streaming protocols: RTSP/RTMP/RTMPS/SRT Caller/SRT Listener/NDI<sup>®</sup>|HX2/NDI<sup>®</sup>|HX3/HLS/TS over UDP/TS over RTP/TVU ISSP/ZIXI/RIST
- Allow simultaneous 6 sessions over multiple streaming protocols, containing 1 session of RTSP/SRT Listener/RIST Listener/HLS/ISSP, or 2 NDI<sup>®</sup>|HX2 (if included)
- Specify main stream or sub stream for each streaming session
- Stream 1 NDI<sup>®</sup>|HX3 session, and they cannot stream simultaneously with other tasks

## What to do if I forget the Web UI password?

- Forgot admin password:
  1. Connect the device to your computer using provided USB cable.
  2. Type the USB NET IP address 192.168.66.1 in your web browser to access the Web UI.
- At top right of the "SIGN IN" page, click "Reset all settings" to restore all configurations to defaults, and the "Admin" password will be "Admin" again. Be cautious that resetting your device would restore configurations to defaults.
- Forgot a general user's password:

Sign in Web UI with the administrator account, then go to **System > User Admin** tab, then you can change the specific user's password.



# Support

## Get the Latest Information

If you have any problems using Magewell products or need more technical information, please visit the following.

- Tutorial video: [Magewell TV](#)
- YouTube channel: [Magewell Video Capture Device](#)
- Knowledge base: [Ultra Encode Support](#)

## Technical Support

**Ticket System:** If you have any questions using Magewell products or need technical assistance, please submit and track your inquiries by clicking [here](#).

# Warranty

## Limited Warranty

Except otherwise set between you and Magewell in advance in a written form, the free limited warranty service starts from the date on your proof of purchase. The proof can be: sales contract, formal sales receipt, invoice or delivery note. The earliest date of these proofs is the starting date of the free limited warranty.

The period of free limited warranty goes as below:

- Ultra Encode Family: two (2) years;
- The power adapter provided as accessories: one (1) year;

## How to get the limited warranty

1. Please contact the Magewell support team by email ([support@magewell.net](mailto:support@magewell.net)) first, to determine whether your problem can only be solved by returning it to Magewell for repair. Magewell might ask you to take photos of the front and back of the defective products.
2. Magewell will issue an RMA letter to you if it is confirmed that you need to return the faulty product for further examination or repair. Please fill in the RMA with necessary information as required.  
If it is regular repair, you will be responsible for the shipping cost, duties and insurance cost (if applicable); if the product is DOA, Magewell will be responsible for the shipping cost.
3. If some components need to be replaced, Magewell will decide to repair, renovate or replace the components by itself. Magewell may use new or repaired component to repair the product. The repaired product can be expected to work normally and the performance to remain the same. Repaired products can work in a good working condition and at least function the same as the original unit. The original replaced component will become the property of Magewell and components which are replaced for the client will become his/her property.
4. If the product is within warranty, Magewell will repair or replace the faulty units at its own discretion. In circumstances where the faulty unit is replaced by another one, Magewell may use new, repaired or renovated units. The faulty unit will then become the property of Magewell while the replacement unit will become the property of the purchaser.
5. If the warranty expires, Magewell will inform the purchaser whether the products can be repaired and the maintenance costs they need to pay. If purchasers decide to repair, Magewell will repair, renovate, or replace the components after receiving the maintenance costs. If purchasers give up repairing, Magewell will dispose of the faulty unit if the purchaser chooses that option.

6. The repaired or replaced product assumes 1) the remaining term of the Warranty of the replaced unit or faulty unit; 2) ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. The extended warranty is only valid for repaired/replaced components.
7. The period of service depends on the client's location (country and area) and the product.

To view the complete warranty policy, please visit [www.magewell.com/quality-assurance](http://www.magewell.com/quality-assurance).

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