### **MVGEMELT**<sub>®</sub>

# ULTRA ENCODE AIO

User Manual, Reference and FAQ



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### Preface



#### Introduction

Ultra Encode AIO 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. 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<sup>®</sup>|HX2, and NDI<sup>®</sup>|HX3 – and a wide array of delivery protocols including RTMP, RTMPS, SRT, RTSP, RTP, HLS, TS over UDP, TS over RTP, and TVU's ISSP technology. Up to eight channels of audio can be encoded in AAC format. What's more, scheduler for Twitch, YouTube and Facebook Live and other servers helps fix this problem by allowing you to schedule your streams directly from Web UI. It features easy-to-use controls where you can set up the day's streams in advance or reschedule them with just a few clicks. The recording function allows you to archive your encoded content to storage media, such as SD card, USB flash drive, NFS/CIFS server, etc., which is convenient for you to carry out follow-up work such as archiving and review.

Encoder is ideal for broadcast video and audio, natively support live broadcast for Facebook, YouTube, and Twitch, as well as your own site, with multiplatform 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<sup>®</sup> |HX2/NDI<sup>®</sup> |HX
   3/HLS/TS over UDP/TS over RTP/TVU ISSP 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 8 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 8 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

#### Supported Product

Ultra Encode AIO

## 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

- Connect the encoder to a LAN and power it up. 1.
- Connect input signal. 2.
- Access Web UI: 3.
  - Tap on the LCD touch screen of the device front panel until you see a QR code, scan the QR code, or type the IP address below the QR code into your web browser.

Scanner (like smartphone) should be connected to the same local network as your device.

When the IP address shows 192.168.48.1, follow the steps below to join the device AP and access the Web UI.

- i. Plug included Wi-Fi antenna when you want to connect to a wireless network.
- ii. 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 313210101001 indicates the initial AP password is 10101001. We recommend that the distance between the Web UI and the encoder should be within 10m.
- iii. In your web browser, enter 192.168.48.1 to open the Web UI.

△ Tap on the LCD screen, you can find the Web UI QR code, record and live status, network connection status and so on.

• Log in with your username and password.



Scan the QR code



#### 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 Server** and choose YouTube RTMP or YouTube HLS.
- 2. Go to YouTube https://www.google.com/device, and paste the code prompted.

YouTube RTMP	×	
		Google
<text><text><text><text></text></text></text></text>		Connect a device Enter the code displayed on your de Enter code YQFG-TGWL

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



To continue, Google will share your name, email language preference, and profile picture with U Streamer. Before using this app, you can revie Streamer's **privacy policy** and terms of servic

- 4. Choose the **Event** where you want to show your video clips. Set whether your content is made for kids. Then you can simply save the server with default parameters for streaming.
- 5. Go back to the Live tab and turn on the switch 🔘 before YouTube icon and the live function swith to start the streaming session. Now the encoder is ready to bring your content to YouTube directly with all these settings.

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### Part 2. YouTube Setup

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

≡	► Studio		
((=))			Live chat
٥	N	Title EDIT	Welcome to your privacy
	Connect streaming software to go live Viewers will be able to find your stream once you go live STREAM SETUP HELP	Category Game Gaming – Privacy Private Viewers waiting Likes 0 0	guidelines.
	<ul> <li>Start sending us your video from your streaming so</li> <li>STREAM SETTINGS</li> <li>ANALYTICS</li> <li>STREAM HEALTH</li> </ul>		
	Stream key Select stream key Default stream key (Variable)	Additional settings Enable DVR	
	Stream key (paste in encoder)  RESET Stream URL  rtmp://	COPY 360° video	
	Backup server URL rtmp://	Closed captions       Unlist live replay once stream ends	
	Stream latency          Normal latency ?         Low-latency ?		
2	Ultra low-latency ?		Say somethin



### 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.

#### 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 AIO



 $\triangle$  Plug included Wi-Fi antenna when you want to connect to a wireless network.

#### Indicators

Indicators status is as follows.

#### HDMI/SDI IN

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

#### STATUS

- On: The device has started and ready to work.
- Off: The Device cannot start.

#### REC

- On: the encoder is recording to at least one destination.
- Breathing: none of the rec sessions is enabled.

#### LIVE

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

The indicator lights flash in turn from HDMI IN, to Live : firmware is updating.

#### Installing the Encoder in a 1U Rack

Ultra Encode AIO provides substantial performance in a space-saving design. These encoders are easy to deploy and offer flexibility to expand later on. You can install two devices side by side in a 1U rack with provided short rack ears and retainer plate, see Fig1, or one device with provided long rack ears, see Fig2.



### 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. The device may connect to Ethernet through the ETH/PoE+ port or by Wi-Fi using the provided antennas.
  - $\triangle$  To ensure a smooth video, you are recommended to connect to a wired network.
- Access Web UI: 2.
  - Tap on the LCD touch screen of the device front panel until you see a QR code, scan the QR code, or type the IP address below the QR code into your web browser.

Scanner (like smartphone) should be connected to the same local network as your device.

When the IP address shows 192.168.48.1, follow the steps below to join the device AP and access the Web UI.

- Plug included Wi-Fi antenna when you want to connect to a i. wireless network.
- ii. 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 313210101001 indicates the initial AP password is 10101001.

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

- iii. In your web browser, enter 192.168.48.1 to open the Web UI.
  - ▲ Tap on the LCD screen, you can find the Web UI QR code, record and live status, network connection status and so on.
- Via File Explorer on Windows 7 and above
  - Open File Explorer in your PC, then locate your device in i. Network > Other Devices.
  - Double click the device icon to open the sign in page of Web UI. ii.
- Via USB NET, IP Address: 192.168.66.1
  - Connect the device CONFIG (a USB-C port on the back panel) to i. your computer using 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 Refer to the steps to join the device AP and access the Web UI.
- Via "device-name.local":
  - Connect the Ethernet on the rear panel to the Ethernet based on i. your specific network requirements.
  - ii. Enter the "device-name.local" on the web browser within the same VLAN as the device, to access the Web UI login page. The default



device-name is the SN (serial number) marked on the device surface.



#### Initialization

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

## LCD Touchscreen

LCD Display	Description	Available Operation
< <ul> <li>000000000000000000000000000000000000</li></ul>	Display the preview image and audio meter.	Tap on the <> arrow to turn the page.
DD: DY: 11     O     O     DD: DY: 11     O	Display the preview image, audio meter, record and live status.	Tap on the <> arrow to turn the page.
<pre></pre>	Live ready.	Tap on the <> arrow to turn the page. Tap on the boxe streaming.
<pre></pre>	Streaming	Tap on the <> arrow to turn the page. Tap on the boxe streaming.
<ul> <li>✓ NO CONNECTION</li> <li>I0.10.15.204 72.5 Kb/s</li> <li>✓ UNAVAILABLE</li> </ul>	Live unavailable.	Tap on the <> arrow to turn the page.
<ul> <li>2.75 GB</li> <li>26.6 GB</li> <li>STBY</li> </ul>	Record ready.	Tap on the <> arrow to turn the page. Tap on the boxed recording.



LCD Display	Description	Available Operation
<	Recording	Tap on the <> arrow to turn the page. Tap on the boxed recording.
<ul> <li>2.73 GB</li> <li>26.6 GB</li> <li>UNAVAILABLE</li> </ul>	Record unavailable.	Tap on the <> arrow to turn the page.
Scan to connect to web interface IP: 10.10.15.204	WebUI QRcode and IP address	Tap on the <> arrow to turn the page.
Reboot the Device	Rebooting	None
Reset All Settings	Resetting all settings	None
52% Install Reboot	Update process	None



LCD Display	Description	Available Operation
Loading Settings	Loading setting files	None

Notice: Administrator users can set the LCD touchscreen function via "System Settings > General Settings > LCD Settings" on the Web UI.

### Web UI Configuration

🚬   🛃 🚽   Network			
File Network View			
Properties Open Connect with Remote Desktop Connection	Add devices and printers Network	Network and Sharing Center	
🗧 🔶 👻 🛧 💣 > Network >			
<ul> <li>✓ Quick access</li> <li>✓ Other I</li> <li>✓ Desktop</li> <li>✓ Downloads</li> <li>✓ Documents</li> </ul>	uter (6) Devices (2) Ultra Encode B313220930003	Ultra Encode B313220914001	
<ul> <li>Pictures *</li> <li>OneDrive</li> <li>This PC</li> <li>Network</li> </ul>		*	

Fig1 Find your device in Windows > Network

#### Access 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. The device may connect to Ethernet through the ETH/PoE+ port or by Wi-Fi using the provided antennas.
  - $\triangle$  To ensure a smooth video, you are recommended to connect to a wired network.
- 2. Access Web UI:
  - Tap on the LCD touch screen of the device front panel until you see a QR code, scan the QR code, or type the IP address below the QR code into your web browser.

Scanner (like smartphone) should be connected to the same local network as your device.

When the IP address shows 192.168.48.1, follow the steps below to join the device AP and access the Web UI.

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



Fig2 USB NET connection



Fig3 AP connection

In your smartphone/tablet/laptop, turn on WLAN, search for and ii. 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 313210101001 indicates the initial AP password is 10101001.

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

- In your web browser, enter 192.168.48.1 to open the Web UI. iii.
  - ⚠ Tap on the LCD screen, you can find the Web UI QR code, record and live status, network connection status and so on.
- Via File Explorer on Windows 7 and above
  - Open File Explorer in your PC, then locate your device in i. Network > Other Devices.
  - Double click the device icon to open the sign in page of Web UI. ii.
- Via USB NET, IP Address: 192.168.66.1
  - Connect the device CONFIG (a USB-C port on the back panel) to i. your computer using 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 Refer to the steps to join the device AP and access the Web UI.
- Via "device-name.local":
  - Connect the Ethernet on the rear panel to the Ethernet based on i.



Fig4 Scan the QR code shown on the LCD to access device Web UI



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.

#### Sign 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 that you modify the admin password after initial logging-in.
- Sign Out: click the down arrow symbol 🔽 behind the logging-in 2. 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 and color
- check product module at the upper left corner •

MVQEMETT.	Dashboard Input Encode I	Live Record Overlay	System 2 Admin -
Ultra Encode AIO	Volume Mixer Volume Mixer Mic blas • <b>4</b> • Line in • <b>4</b> • Line out • HDMI in Reset	Que live ● 1d 15:53:56 ● Record	<ul> <li>● 00:00:00</li> <li>Main Stream         <ol> <li>1 1920x1080, 29.97 FPS</li> <li></li> <li></li> <li>4 (4.01) Mbps</li> </ol> </li> <li>Sub Stream         <ol> <li>1 1920x1080, 29.97 FPS</li> <li></li> <li></li> <li>4 (4.01) Mbps</li> </ol> </li> <li>Sub Stream         <ol> <li></li> <li>&lt;</li> <li>&lt;</li></ol></li></ul>
Basic Info	Device name AIO-1 Hardware version B	Serial number B313221116071 Firmware version 2.3.323*	Input Signal HDMI, 1920×1080i, 59.94Hz , 48.00KHz
Status	CPU 33% 1.5GHz   61°C	64%	Ethernet Send 5.48 Mb/s Receive 5.43 Mb/s

#### Set Volume

- 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 tone • 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 tone the volume at 0.1dB.
- HDMI/SDI IN: adjust input signal volume. Click \_\_\_\_\_ to fine tone the volume at 0.1dB.
  - The audio channel is consistent with the signal selected in the Input > Source > Mixer > Format. You can set it to follow SDI or HDMI in on the Input > Source part.
  - 🖏 : mute current channel
  - • : restore current channel to default value



- **Reset:** restore all settings of the volume to default settings
- Done: click to save your configuration

#### **Preview Thumbnails**

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



#### Check 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.

#### **Check Device 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.

ΜΛGEWELL°	Dashboard					Overlay		٤	Admin 👻
Input HDMI, 1920×10801, 59.4 48.00KHz		Source Source AUTO Avv For Picture Side-by	SDI HD SDI HD Se changing requir SDI SDI	MI No S HDMI No S HDMI	ignal Images the main and sub: Mixer		11 IN 2) 2 1		
	and a start an ingines rest						001	1. 2021 ONIGE 1. 125801	

#### Set Input Source

When there are multiple input sources, the signal locked first will be previewed by default.

- Auto: When selected, the input signal that is locked first is previewed by default.
- **SDI:** click to preview the SDI signal.
- HDMI: click to preview HDMI signal.
- Mixer: you can combined the 2 input signals in different ways as follows. •
  - Format: Set the resolution and frame rate of the combined signal. It can be set to "Follow SDI IN" or "Follow HDMI IN". When there is only SDI input but no HDMI signal, it needs to be manually modified to "Follow SDI IN". Otherwise, it would be blank.
  - Picture-in-picture: A picture-in-picture effect is when two videos or images are shown at the same time with one smaller video or image on top of a larger one.
  - Side-by-side: If the two video images are shown at the same time at the same size, it is side-by-side effect. You can specify the left/right position of the videos.

MAGEWELL® Dashboard	Input Encode Li	ive Record Overlay System	💄 Admin 🝷
-			_
Input	000	0000000	
SDI, 1920×1080p, 60.00Hz, 48.00KHz		0:05.583	
	The copyright of	this video is reserved by Magewell	
	Source SDI HDMI	No Signal Images	
	Video Options ⊗		
	Input		
	Color format	YUV BT.709	
	Quantization	Limited range (16-235)	•
	Output Color format Quantization	Limited range (16-235)	
	Color		
	·ໍຸ່ - Brightness	0	o
	Contrast	100	
	<ul> <li>Saturation</li> </ul>	100	
	O Hue	0	o
	Signal 🛛		

#### Set SDI/HDMI Input

- 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).

#### Set SDI/HDMI 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).

#### Set SDI/HDMI 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  $\bigcirc$  icon to restore the current setting to default value.





#### **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

VIDEO STATUS Resolution Color depth	
Color depth	1920×1080i, 59.94Hz
Color deput	8
Sampling	4:4:4
Aspect ratio	16:9
Color format	BT.601
Frame struct	2D
Quantization range	Limited
Saturation range	Extended
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
	5 Pixels
Timing-V sync width	

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.

#### **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-V front porch	2 Pixels
Timing-V sync width	5 Pixels
Timing-V back porch	15 Pixels
INFO FRAME	
AVI	
Туре	0x82
Version	0x02
Length	13 bytes
Checksum	0x32
Data	50 E8 00 05 00 00 00 00 00 00 00 00 00 00
AUDIO	
Туре	0x84
Version	0x01
Length	10 bytes
Checksum	0x70
Data	01 00 00 00 00 00 00 00 00 00 00
SPD	
Туре	0x83
Version	0x01
Length	25 bytes
Checksum	0x63
Data	00 00 00 00 00 00 00 00 00 00 00 00 00
	00 00 00 00 00 00 00 00 00 00
EDID ≫	
Input Port	

**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. •

- 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.

33

• Timing-V back porch shows the size of the vertical Back Porch in pixels.

EDID 3	≽					
Inpi	ut Port					
h.4-	nage EDU	of the input port.				
		solves conflicts when co				
	SmartEDI	O™ Keep last	Add au	dio Limit	ed pixel clock	
C	Offset	0 1 2 3 4	567	89A	BCDEF	
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	20	OF 50 54 FF FF 8			0 71 40 81 80	
	30	D1 00 E1 C0 01 0 8A 00 50 1D 74 0			70 5A 80 B0 58 18 71 38 2D 40	
	40 50	58 2C 45 00 50 1			0 00 FD 00 0F	
	60	96 OF 87 3C 00 0			0 00 00 00 00 FC	
	70	00 4D 41 47 45 5			20 20 20 01 66	
	80	02 03 51 F1 57 6			4 20 21 22 5D	
	90	5E 5F 60 65 66 6	2 63 64	07 16 03 1	12 32 09 7F 07	
	AO	15 07 50 3D 06 C			01 67 7F 00 83	
	BO	4F 00 00 E2 00 0			00 B8 78 21 10	
	C0	80 01 02 03 04 6			30 03 E3 OF 01	
	D0	E0 01 1D 80 18 7			25 00 40 84 63	
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#### 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<sup>TM</sup>

NOTE: This function is available for HDMI products.

- SmartEDID<sup>TM</sup>
  - SmartEDID<sup>TM</sup> 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 loopthrough 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 loopthrough output, the source device will decide not to output audio. As a result, the device will not get any audio input. If Add Audio is enabled, the device will communicate with the video source device, forcing it to output audio.
- Limited pixel clock
  - If enabled, when the pixel resolution of the loop-through device is beyond the capability of the device, a lower pixel resolution will be used in order to avoid the output producing a blank screen.

#### Set Input EDID

Any of the following actions can be performed on the input EDID of the device.

- **Default**: Click **Default** to reset the current EDID to default values.
- Import: Click and select an EDID file to import a EDID file.
- **Export**: Click and set the file name to export the current EDID as a .bin file. •

	D0 E0	74 0 1E E													21 C4			
	FØ	00 0	90 G	90 0	90 Q	90 (	90 (	90 (	90	00	00	00	00	00	00	00	8D	
														De	fault		Import	Export
L	.OOP-THF	RU PC	ORT															
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	10	30 1													4C			
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	40	45 0	90 C	4 8	BE 2	21 (	00 (	90 :	1A	28	3C	80	A0	70	BØ	23	40	
	50	30 2	20 3	86 8	90 O	64	8E 3	21 (	90	00	1A	00	00	00	FC	00	55	
	60	53 4	42 2	20 4	43 6	51	70	74	75	72	65	ΘA	20	00	00	00	ГD	
	70	00 1	19 7	78 6	9C F	FF	22 (	90 (	AG	20	20	20	20	20	20	01	E1	
	80	02 0	<u>3</u> 3 4	LF F	F1 5	5E (	<b>06</b> :	15 (	92	11	13	04	14	05	20	21	22	
	90	1F 1	10 4	10 B	BF 5	5D	5E !	5F (	50	61	62	63	64	65	66	67	68	
	AØ	69 6	5A 6	5B 2	26 0	ðF (	7F (	97 (	99	7F	07	83	2F	00	00	6E	03	
	BØ	0C 0	30 2	20 0	90 E	38 4	40 3	20 (	90	80	01	02	03	04	E3	05	03	
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	DØ	74 0	90 B	80 F	2 7	70	5A 8	80 I	30						21			
	EØ	1E E	E2 6	68 6	90 A	40	40 4	40 3	2E	60	30	20	36	00	C4	8E	21	
	FØ	00 0	90 G	90 0	30 0	90 (	90 (	90 (	90	00	00	00	00	00	00	00	8D	
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	ed.																	er guide   Lega



#### Check Loop-through EDID

Loop-through EDID shows the EDID of the connected loop-through device. NOTE: This section is available for HDMI products.

**Export**: Click and set the file name to export the current EDID as a .bin file. •

#### 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  $\bigcirc$  to remove the uploaded image from your • device.
## Encode

WVGE	:WELL°	Dashboard	Input	Encode	Live	Record	Overlay	System	💄 Admin 🝷
	Deinterlacing		Video de-i	interlace					
	Convert interlaced video into a progressive picture that can be		Mode		Ble	nd			•
	display devices.								Apply

#### Deinterlacing

For the interlaced signal encoded with HEVC for both streams, only when the input Source is set to Auto, SDI or HDMI, the de-interlacing function is turned off, and the HEVC stream encoded in the interlaced signal mode can be output. A "Mixer" source does not support the output of interlaced signals.

- 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.



Main Stream	System preferred							
Configure parameters for the main coding stream.	Output	1920×1080 • , Follow input • , 4096 Kb						
년 Crop	Advanced settings ≫							
	Bitrate encoding	CBR						
	Code type	Code type H.265 (HEVC)						
	Encoding profile	Main profile						
	Quantization range	Limited range (16-235)						
	AR convert	Padding						
	Keyframe interval	60 fran						
	Time code SEI message							
	Closed caption SEI message							
	Rotation	0°						
		Appi						

#### Set Main Stream

- Crop: click on the  $\checkmark$  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, Overlay and LCD screens 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 on, and the output format would be consistent with the input signal. Turn it off to custom the code fomat. You can check the format on the right side of the thumbnail of the device status. System preferred is not available for NDI<sup>®</sup> |HX3.
- Output: by default, it follows input resolution, frame rate, bitrate. Only the resolution and frame rate can be specified, and the bit rate is determined by NDI<sup>®</sup> and is filled in automatically for NDI<sup>®</sup>|HX3.
- Bitrate Encoding: options are CBR (default) and VBR. Live stream at CBR (Constant Bitrate) for bandwidth stability. VBR(Variable Bitrate) files vary the amount of output data per time segment. CBR is the only choice for NDI<sup>®</sup> HX3. And you need to set quantization parameters for VBR. The quantization parameter controls the amount of compression for every macroblock in a frame. Large values mean that there will be more compression, lower quality, and lower bandwidth. Lower values mean the opposite.
  - Min QP: available when Bitrate Encoding is VBR. The range of values is 0 to 50. The default value is 4. And we recommend you use the default value and do fine adjustment if needed.

- Max QP: available when Bitrate Encoding is VBR. The range of values is 1 to 51. The default value is 40, and it must be larger than the Min QP value. We recommend you use the default value and do fine adjustment if needed.
- 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.
- Quantization range: options are Full range(0-255) and Limited range(16-235) (default).
- 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<sup>®</sup> |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.
- **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.



Sub Stream 🔍	Output	1920×1080 • , Follow input • , 4096 Kbp:
Configure parameters for the sub coding stream.	Advanced settings ≫	
杠 Crop	Bitrate encoding	CBR
	Code type	H.264
	Encoding profile	High profile
	Quantization range	Limited range (16-235)
	AR convert	Ignore
	Keyframe interval	60 frame
	Time code SEI message	Disabled
	Rotation	0°

#### Set Sub Stream

- The device transmits SUB STREAM data by default, and it can not be switched off when the sub stream data is being recording or streaming.
- Crop: click on the  $\checkmark$  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, Overlay and LCD screens 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, 30fps, 2Mbps. Sub stream outputs at 640x360p30, 3Mbps for NDI<sup>®</sup> | HX3.
- Bitrate Encoding: options are CBR (default) and VBR. Live stream at CBR (Constant Bitrate) for bandwidth stability. VBR(Variable Bitrate) files vary the amount of output data per time segment. CBR is the only choice for NDI<sup>®</sup> HX3. And you need to set quantization parameters for VBR. The quantization parameter controls the amount of compression for every macroblock in a frame. Large values mean that there will be more compression, lower quality, and lower bandwidth. Lower values mean the opposite.
  - Min QP: available when Bitrate Encoding is VBR. The range of values is 0 to 50. The default value is 4. And we recommend you use the default value and do fine adjustment if needed.
  - Max QP: available when Bitrate Encoding is VBR. The range of values is 1 to 51. The default value is 40, and it must be larger than the Min QP value. We recommend you use the default value and do fine adjustment

if needed.

- Code type: options are H.264 (default) and H.265(HEVC) encoders. H.264 is the only choice for NDI<sup>®</sup> |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.
- Quantization range: options are Full range(0-255) and Limited range(16-• 235) (default).
- 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  $NDI^{\mathbb{R}}|HX3$ .
- 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.
- Rotation: options are 0° (default), 90°, 180°, and 270°. Note that rotation will • make overlay not working.

AUDIO STREAM	Audio output	SDI embedded audio		•						
Configure parameters for the audio streams.				Apply						
Map source channels with the output channels of stream 1/2/3/4/5/6, and specify audio	Audio stream count	-	6	+ Apply						
channels for stream 1. Then you can select a specified audio stream for your streaming and recording.	< Audio Stream 1 A									
	Channel count	2 Channels		-						
	Channel map	Channel 1 map	Source channel 1	•						
		Channel 2 map	Source channel 2	•						
		Channel 3 map	Source channel 3	•						
		Channel 4 map	Source channel 4	*						
		Channel 5 map	Source channel 5	•						
		Channel 6 map	Source channel 6	•						
		Channel 7 map	Source channel 7	*						
		Channel 8 map	Source channel 8	•						
	AAC	16 Kbps		•						
				Apply						

#### Set Audio Stream

- Audio output: can be either embedded audio signal (default) or embedded audio signal + Line in.
- Audio stream count: set the number of audio streams for encoding to be 1-8, default is 1.
- 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 channles.
  - Channel map: specify mapping relationship between the output channel • and the source channel selected in 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 server destinations.

MV@EMELT.	Dashboard	Input	Encode	Live	Record	Overlay	System		2 Adı	min •
Destinations		0	Stop Live		• 1d 15:57:01		🛗 Schedu	uler		
		R	Off		Name RTMP Server		letwork thernet first	Ľ		
		NDI	<b>NDI<sup>®</sup> HX:</b> 0.75 Mb/s	2	Name NDI HX2		ource name 313221116071			
		S	Off SRT Caller	r	Name SRT Caller		ort 030			
		S	Off SRT Caller	r	Name Control Hub 2		ort 000	Ľ		
					+ Add D	Destination				
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## Manage Live Streaming Sessions

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

- Click Edit to modify the parameters of the stream.
- Click **Delete** to remove the source from the list.
- Turn on/off the switch of the task () and the stream switch simultaneously to start/stop streaming.
- Click Add and select an RTMP, RTMPS, RTSP, SRT Caller/Listener, NDI<sup>®</sup>|HX2, NDI<sup>®</sup>|HX3, HLS, TS over UDP/RTP, or TVU ISSP server to stream to.

#### Notes

- 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, and TVU ISSP.
- Allow simultaneous 6 sessions over multiple streaming protocols, containing 1 session of HLS, RTSP, or 2 NDI<sup>®</sup> |HX2 (if included).
- Exclusive NDI<sup>®</sup> | HX3 cannot be streamed with other protocols simultaneously and only 1 NDI<sup>®</sup> |HX3 session can be enabled.
- Specify the main stream or sub stream, even audio stream for each session.

# Start/Stop Streaming

MAGEWELL®	Dashboard Input	Encode	Live	Record	Overlay	System		2	Admin 🝷
	Select Server				0.1	×		>	
	RTMP	,	Twitch		Facebook		ß	(E	
	YouTube R	TMP Yo	ouTube HLS		RTSP		C		
	SRT Call	ler S	RT Listener	Listener NDI <sup>®</sup> HX2			Ľ		
	NDI <sup>®</sup> H	X3	HLS Pull	T:	S over UDP				
	TS over R	RTP	TVU ISSP	Wow	ıza over RTMP	071-2	Ľ		
	Wowza ove	er SRT					Ľ	Î	
				+ Add De	estination				
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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 seesion and the stream function.
- To schedule a stream: you need to add a scheduler to the specified seesion(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:
  - Tap the LCD of the device to switch to live status, tap the live status  $(\bigcirc)$ bar to make it turn to "NOT LIVE" and end this round of scheduled live.
  - Turn off the **Destinations** switch <u>(</u>) 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.

and the second se	
< Destinations	
Twitch <mark>R</mark>	ysy085 Re-login
Name	Twitch Server
Stream	Main stream 👻
Audio Stream	Audio stream 1
. URL	US East: New York, NY 🗸
Network	Mobile broadband first
Delete	Test Save

#### Live Streaming to Twitch

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

- $\triangle$  To ensure smooth live streaming experience, connecting to a wired Ethernet network is recommended.
- Click + Add Destination in the Live tab, select Twitch, follow the on-1. 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.
- URL is automatically filled in after successful login, and it is not 5. 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.

MAGEWELL® Dashboard	Input Encode Li	ve Record Overlay System	👤 Admin 🝷
Facebook	1	Log In	
	Name	Facebook Server	
	Stream	Main stream	•
	Audio Stream	Audio stream 1	•
	URL		
	Network	Ethernet first	•
	Backup stream		
	Publish settings		
	Publish to	Timeline	
	Title		
	Description		
	Privacy	Public	*
		Save Test	
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- 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 the switches of the stream function and a specified task.

## Live Streaming to Facebook Live

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

- $\triangle$  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.

 $\triangle$  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.
- Input facebook destination URL. 6.

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.

- (Optional) Turn on the Backup stream and specify the Stream key. 8.
- 9. Specify Publish settings including Publish to, Title (0-63 characters), Description (0-127 characters), Privacy and Stream ID.
- Click **Save**. 10.
- Click **Test** to check the network connection. 11.
- After passing the test, click **OK**. 12.
- (Optional) Click **Delete** to clear the session. 13.
- 14. Go back to Live page, turn on the Facebook live session 🚺 and the streaming function switch streaming.

<b>ΜΛ</b> ΔΕΨΕΓΓ <sub>°</sub>	Dashboard	Input	Encode	Live	Record	Overlay	System	<b>ا ا</b>	Admin 🝷
C Destinations									
YouTube RTMP		N S	https://www.g smartphone o YWH	Next, visit coogle.com/c	JB @	×	Save	· · · ·	
© 2025, Nanjing Magewell Electronics C	Co., Ltd. All rights reser	ved.					Suppo	ort   <u>User guide</u>   <u>Legal</u>   <u>1</u>	<u>Warranty</u>

MVCEMELT.	Dashboard	nput Encode	Live R	lecord (	Overlay	System	👤 Admin 🝷
C Destinations							
YouTube HLS	N S A S N	smartphone of	Log I Next, visit google.com/device or computer and e code: BDM-CXTF	e on your enter this	×		•
	P	Publish to	Go to YouTube		4	•	
						Save	

## 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.

- $\triangle$  To ensure smooth live streaming experience, connecting to a wired Ethernet network is recommended.
- $\triangle$  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.
- Choose an audio stream (1 to 8) for streaming, and the default value is 5. Audio stream 1. Audio encoding parameters can be set in Encode > Audio Stream.

- Server is automatically filled in after successful login, and it is not 6. 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.

Specify Publish settings including Publish to, Title (0-63 characters), 8. Description (0-127 characters), Privacy and Stream ID. Set whether your content is made for kids.

Choose Add a new stream and 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.

- Click **Test** to check the connection between the server and encoder. 9.
- 10. When prompted, click **OK**.
- 11. Go back to the Live page, and turn on the session switch 🚺 and the streaming function switch streaming.

MVQEMELT.	Dashboard	Input E	ncode	Live I	Record	Overlay	System	🙎 Admin 🝷		
C Destinations										
RTMP		Name		RTMP Se	RTMP Server (2)					
	Stream		Main str	eam			•			
	,	Audio Stream		Audio st	ream 1			•		
	l	URL		rtmp://	<ul> <li>host[:po</li> </ul>					
	Stream key			0-511 characters						
		Authentication								
	1	Network		Ethernet	first			•		
							Save	Test		
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## **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. The port number part :1935 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.

MVQEMETT.	Dashboard	Input	Encode	Live	Record	Overlay	System	💄 Admin 👻
Contractions								
RTSP		Name		RTSP	Server			
		Port		554				
		Connections					1	+
		Main stream	n					
		Main key		mains	stream			
		Sub stream						
		Sub key		subst	ream			
		Audio						
		Audio Strea	m	Audio	ostream 1			•
		Authenticat	ion					
								Save
								.110:554/mainstream
						Sub Stream UR	L: rtsp://10.10.39	.110:554/substream
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• Save: save current configuration.

#### **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.

MV@EMELT.	Dashboard	Input E	Encode	Live	Record	Overlay	System	💄 Admin 👻
< Destinations								
SRT Caller		Name		SRT	Caller (2)			
		Stream		Mai	n stream			•
		Audio Stream			udio Stream 1		Audio Stream 2	
					udio Stream 3 udio Stream 5		Audio Stream 4 Audio Stream 6	
		Custom PID						
		Address						
		Port						
		Connect time	out	300	0			ms
		Retry duration	n	100	00			ms
		Latency		120	)			ms
		Bandwidth ov	erhead	25				%
		MTU					1496	+
		Stream ID						
		Encryption		Not	Used			•
		Network						
							Save	Test
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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.
- Go back to Live tab, you can check the RTSP stream sending information by clicking the right arrow > at the end of the session in the **Destinations** list.

#### 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 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.
- Go back to Live tab, you can check the SRT Caller stream sending information by clicking the right arrow at the end of the session in the **Destinations** list.

SRT Listener	Name	SRT Listener (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	1 - 258	+ 2 - 259	
		3 - 260	+ 4 - 261	
		5 - 262	+ 6 - 263	
	PCR PID		45	+
	Port	8000		
	Latency	120		ms
	Bandwidth overhead	25		%
	MTU		1496	+
	Connections		1	+
	Encryption	Not Used		•
			•	Save

## 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.

- 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 passphase 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.
- Go back to Live tab, you can check the SRT Listener stream sending information by clicking the right arrow at the end of the session in the **Destinations** list.

MAGEWELL* Dashboard	Input	Encode	Live	Record	Overlay	System	💄 Admin 👻	
© EDIT SERVER	Name			NDI HX2				1
	Program s	tream		Main stream			•	l
	Preview st	ream		Sub stream e video dimensions (wi	dth and height) shou	ld be both within 640 pix	▼	l
	Audio Stre		,	Audio stream 1			•	
	Source vid	leo						
	Machine	e name		Ultra Encode				
	Group n	ame		public				
	Source	name	#	#serial-no#-3	e serial number of the	e device		
				he current source name				
	Transport	Mode		TCP (Uni-connect	ion)		•	
	Failover							l
	Source	name	Ν	I/A			Change	
	IP addre	55	Ν	I/A				
	Receiver c	ontrol						
	Web co	ntrol						
							Save	

#### NDI

NDI<sup>®</sup> |HX2 and NDI<sup>®</sup> |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

It is case-insensitive, 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.

Group name

Specify the Group name which the destination belongs to. It is caseinsensitive, 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 **#serial-no#**, serial number.

MAGEWELL* Dashboard	Input	Encode	Live	Record	Overlay	System	💄 Admin 👻
C Destinations							
NDI <sup>®</sup> HX3	Name		N	DI HX3 (2)			
	Program str	ream	м	ain stream			•
	Preview str	eam		ib stream	th and height) should	l be both within 640 pi	•
	Audio Strea	im		udio stream 1			•
	Source vide	0					
	Machine	name	ι	Iltra Encode			
	Groups		P	ublic			
	Source na	ame		serial-no#-3	and damage at the	des fra	
				current source name			_
	Transport N	1ode	ТС	CP (Uni-connecti	ion)		-
	Failover						
	Receiver co	ntrol					_
	Web cont	trol					•
							Save
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#### 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.
- 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.
- Failover: 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<sup>®</sup> |HX2, the encoder would send dual streams simultaneously.
- When streaming NDI<sup>®</sup> |HX3, the encoder would send the dual streams simultaneously, and sub streams format is fixed as 640x360, 30FPS, 3Mbps. The bit rate type of both main and sub streams are CBR, and the key frame interval both are 20.
- The encoder can stream 2 NDI<sup>®</sup> |HX2 sessions with other protocol streams.
- When streaming NDI<sup>®</sup> | HX3 session, no other session can be started simultaneously. 1 NDI<sup>®</sup> | HX3 sessions can be started simultaneously.

MVCEMETT.	Dashboard	Input	Encode	Live	Record	Overlay	System	2 Admin 👻	
< Destinations									
HLS Pull		Name		HL	S Server (2)				
		Stream		Ma	ain stream			•	
		Stream key		str	eam				
		Audio Strea	im	Au	dio stream 1			•	
								Save	
						Stream URL:	http://10.10.39.1	10:80/hls/stream.m3u8	
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#### 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.

<b>ΜΛ</b> ΓΕΨΕLL°	Dashboard	Input Encode	Liv	′e	Record	d Ov	verlay	Sys	tem		L A	dmin 🝷
< Destinations												
TS Over UDP		Name		TSove	er UDP	2)						
		Stream		Main	stream						•	
		Audio Stream		🗹 Aud					Stream			
				Aud	io Strea io Strea				Stream Stream			
		Custom PID										
		PMT PID						256			+	
		Video PID						257			+	
		Audio PID		1		258	+	2		259		
				3		260		4		261		
				5		262		6		263		
		PCR PID						45			+	
		Address										
		Port										
		Network										
											Save	
	_	_										
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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.

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		256	+
	Video PID		257	+
	Audio PID	1 – 258	+ 2 - 259	
		3 - 260	+ 4 - 261	
		5 – 262	+ 6 - 263	
	PCR PID		45	+
	Address			
	Port			
	Network			
				Save

- Save: save current configuration.
- You can set TS over UDP/RTP MTU at the System > General > LIVE part.

<b>ΜΛGEWELL</b> °	Dashboard	Input	Encode	Live	Record	Overlay	System	💄 Admin 👻
C Destinations								
TVU ISSP		Name			ISSP			
		Stream		Mair	n stream			•
		Audio Stre	am	Aud	io stream 1			-
		Port		653	9			
								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.

MVQEMETT.	Dashboard	Input	Encode	Live	Record	Overlay	System	🎗 Admin ▾
< Destinations								
Wowza Over RTMP		Name		W	owza over RTMF	2		
		Stream		м	ain stream			•
		Audio Strea	im	A	udio stream 1			•
		Network		Et	hernet first			•
		Token						
		Publish sett	lings					
		Publish to	0					• 0
								Save
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## 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.

< Destinations			
Wowza Over SRT	Name	Wowza over SRT	
	Stream	Main stream	•
	Audio Stream	<ul> <li>Audio Stream 1</li> <li>Audio Stream 2</li> <li>Audio Stream 3</li> <li>Audio Stream 4</li> </ul>	
		Audio Stream 5 Audio Stream 6	
	Custom PID		
	PMT PID	- 256	+
	Video PID	- 257	+
	Audio PID	(1 - 258 + 2 - 259 +	
		3 - 260 + 4 - 261 +	
		3     -     262     +     6     -     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		
	Publish settings		
	Publish to	•	0
		Save	

## 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 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.

ΜΛGE₩ELL°	Dashboard	Input	Encode L	ive Record	Overlay System	<b>2</b> Admin
Destinations		<b>()</b> s	itop Live	• 1d 15:57:01	🛗 Schedul	ler
		R	Off RTMP	Name RTMP Server	Network Ethernet first	6
		NDI	<b>NDI<sup>®</sup> HX2</b> 0.75 Mb/s	Name NDI HX2	Source name B313221116071	C a
		S	Off SRT Caller	Name SRT Caller	Port 8030	
		S	Off SRT Caller	Name Control Hub 2	Port 8000	C 8
				+ Add D	estination	
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#### 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:

Scheduler

- Click on the 1. icon.
  - You can add up to 16 scheduling schemes.
- On the "Scheduling" page, set up scheduling control. 2.
  - 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

schedule

Standar         New Event       Decription         Bigin       225-04-27       110500         Bigin       225-04-27       126500         Note edite:       Every worksky       Every worksky         Every Every       Decription       New Every         Note edite:       Every every every       New Every         New Evert       Decription       New evert         New Event       Decription       New evert         New Event       Decription       New evert         Declass       22504-27       110500         Erd       Decription       New evert         New Event       Decription       New evert         Begin       22504-27       126500         Erd       Decription       New evert         Decription       New evert       Erd         Decription       New evert       Erd         Decription       New evert       Erd evert         New Evert       Decription       New evert         Decription       New evert       Erd evert         Decription       New evert       Erd evert         Decription       New evert       Erd evert         Decription       New evert <th>VQEMELT.</th> <th>Dashboard Input</th> <th>Encode</th> <th>Live Record</th> <th>Overlay System</th> <th>L Admi</th>	VQEMELT.	Dashboard Input	Encode	Live Record	Overlay System	L Admi
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Now" to manually update the calendar file.

- 3. Click Add in the window, and specify parameters of the event schedule.
  - 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.
  - 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 firstrepeat,
      - 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 firstrepeat,

New Event		Description		New event		
		Details				
		Begin		2025-04-27	© 11:05:08	Full day
		End		2025-04-27	© 12:05:08	
		Repeat event		Weekly		•
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					uesday 🗌 Wednesda aturday 📄 Sunday	ay 🗌 Thursday
				No end date		
				<ul> <li>After 1 occurre</li> <li>End by 2025-05</li> </ul>		
						Save
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- 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 firstrepeat,
  - 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 firstrepeat,
  - 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.

## Record



#### Notes

- The device supports recording and saving videos to SD card, USB drive, and NAS. 2 record tasks can be started simultaneously.
- NAS can be deleted.
- 16 scheduler is provided for all recording tasks.
- The device can automatically start recoding by enabling Auto-recording.

## Start/Stop Recording

- To start recording immediately: you need to turn on the C switch of one seesion and the **Recording** fucntion switch.
- To start recording automatically: you need to turn on the Auto-recording and the **Recording** switch.
- To schedule a recording: you need to turn on the 🚺 switches of the specified seesion(s) and scheduler(s).

Use the schedule function for your live stream, which will be triggered, ended, repeated automatically on a chose n 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.
  - Tap on the LCD screen of the device to switch to recording status, tap

the status  $\bigcirc$  bar to make it turn to "STBY" and end this round of scheduled recording.



Videos	All		Delete	Upload
ලි Configure	4 4	<b>a a</b>	8 B	<b>a a</b>
	ő 00:13	00:05	00:05	00:05
	VID_31.mp4 10.18 MB	VID_30.mp4 6.22 MB	VID_29.mp4 5.82 MB	VID_28.mp4 6.11 MB
	d), d),	8 8	3 3	2 2
	() ()1:34	ð 03:15	3 04:10	2 2 00:50
	VID_27.mp4 53.34 MB	VID_26.mp4 105.60 MB	VID_25.mp4 134.97 MB	VID_24.mp4 29.71 MB
	2 2	3 3	6 A	2 2
	2 00:06	3	<b>600:06</b>	2 2 00:08
	VID_23.mp4 6.67 MB	VID_22.mp4 8.05 MB	VID_21.mp4 6.77 MB	VID_20.mp4 7.57 MB
		< 1 2	3 4 >	

## 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 cursur to a video clip and click 🥥 .
- To delete videos: choose one or more, or all clips to delete.
| í | <b>ΊΛ</b> ΔΕΨΕLL°  | Dashboard  | Input   | Encode | Live | Record          | Overlay | System |                                       | 2 Admir                    | ח ד        |  |
|---|--|--|---|--------|------|-----------------|---------|--------|---------------------------------------|----------------------------|------------|--|
|   | < Back   |  |   |        |      |                 |         |        |                                       |                            |            |  |
|   | Recording  |  | Record mode<br>Stream<br>Audio Stream<br>Video type<br>File path<br>File name |        |      | mal             |         |        |                                       | •                          |            |  |
|   | recording when the sto                                     | Normal record mode will stop<br>recording when the storage |   |        |      | Mainstream      |         |        |                                       |                            |            |  |
|   | space is full.   |  |   |        |      | io stream 1     |         | •      |                                       |                            |            |  |
|   | Loop record mode prov<br>continuously recording            | . Old files  |   |        |      |                 |         |        |                                       | •                          |            |  |
|   | will be overwritten by n<br>when the <b>SD Card</b> is ful |  |   |        |      | _Folder         |         |        |                                       |                            |            |  |
|   |  |  |   |        |      | om prefix       |         |        |                                       | •                          |            |  |
|   |  |  |   | refix  | VID  |                 |         |        |                                       |                            |            |  |
|   |  |  |   |        | 30 N | 1inutes (956.25 | 5 MB)   |        |                                       | •                          |            |  |
|   |  |  |   |        |      |                 |         |        | Save                                  |                            |            |  |
|   |  |  |   |        |      |                 |         |        |                                       |                            |            |  |
|   |  |  |   |        |      |                 |         |        |                                       |                            |            |  |
|   |  |  |   |        |      |                 |         |        |                                       |                            |            |  |
|   |  |  |   |        |      |                 |         |        |                                       |                            |            |  |
|   |  |  |   |        |      |                 |         |        |                                       |                            |            |  |
|   |  |  |   |        |      |                 |         |        |                                       |                            |            |  |
| ( | © 2025, Nanjing Magewell Electronio                        | cs Co., Ltd. All rights res                                | erved.  |        |      |                 |         | Sur    | pport   <u>User guide</u>   <u>Le</u> | g <u>al</u>   <u>Warra</u> | <u>nty</u> |  |

#### 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 O Configure button in the "Recording > Videos" secion 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 Automatically or manually	FTP Server ftp://10.10.38.156:28/ftp/2/5	79/2	Edit Switch Server
upload videos in <b>SD Card</b> to a specified folder.	Auto-upload		a
	Delete local files after upload		Q
LIST			Delete Clear transferred
	Size	Add Time	Status
Name			
VID_8.mp4	9.821	MB 2025-04-08 17:19:	17 🕑

MAGEWELL°	Dashboard Inp	ut Encode	Live	Record	Overlay :	System	🙎 Admin 👻
UPLOAD	Aut	o-upload					C
Automatically or manually upload videos in SD card t specified folder.		Select Server		- 14	×		Edit
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UID_36.mp4		\$	Dropbo	x	-11 10:50:	:30 🧭	)
UID_35_6.mp4					-06 17:09:	:54 🧭	)
UID_35_5.mp4			883.801	мв 2	2023-09-06 16:39:	:52 🧭	)
🗌 📑 VID_35_4.mp4			678.901	ИВ 2	2023-09-06 16:09:	:50 🧭	)
□ 📑 VID 35 3.mp4			893.511	MB 2	2023-09-06 15:39:	49 🗸	)

#### 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. •

LIST Delete Clear transferred Add Time Name Size Status  $\odot$ VID\_8.mp4 9.82 MB 2025-04-08 17:19:17  $\odot$ VID\_12.mp4 2.38 MB 2025-04-08 17:18:40

### 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).

## 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 list.
- "Clear transferred": click on "Clear transferred", the system will automatically delete the files with  $\bigcirc$  transfer status from the list.

MV@EMELT.	Dashboard	Input	Encode	Live	Record	Overlay	System	🙎 Admin 👻
③ RECORDING USB DRIVE		Name D99B-FF3 File system vfat	13	29		L6 MB pace	<mark>03 нг 1</mark> Estimated remainin	
PERFORMANCE			Pass USB drive w recording,	rite speed is	fast enough for	r Requi	e speed (MB/S) ired speed 2. speed	Test 52 7.02
VIDEOS (i) Configure							_	Delete

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VIDEOS									
Onfigure				-		-			

#### 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 cursur 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

VID\_17.t

VID\_12.ts 94.14 MB

VID\_7.ts 36.65 MB

- 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 cursur to a video and click to download the clip.
- 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 O Configure button in the "Recording > Videos" secion 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.

N∕GEWELL°	Dashboard	Input	Encode	Live	Record	Overlay	System	L Adr		
<b>く</b> Back										
Recording	Recording		node	No	Normal					
Normal record mode v recording when the st		Stream		Main stream						
space is full.		Audio Stream			Audio stream 1					
Loop record mode pro continuously recordin	g. Old files	Video ty	ре	m	04			•		
will be overwritten by when the <b>USB Drive</b> is		File path	1	RE	C_Folder					
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		Filenam	e prefix	VI	D					
	1		ı		30 Minutes (478.13 MB)					
				Vfat r	naximum file size is 4	IGB.				
								Save		

VID\_10.ts

56.81 MB

VID\_9.ts 36.92 MB

< 1 2 >

VID\_8.ts

56.59 MB



VID\_11.ts 36.65 MB

- 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.

MVQEMELT.	Dashboard	Input	Encode	Live	Record	Overlay	System		Admin 👻		
< Back											
Configure NAS		User name Password			CIES - Common Internet File System						
					CIFS - Common Internet File System 🔹						
Save recorded files to NAS(Network Attached Storage).					QQQ						
5000607					•			Ø			
					10.10.37.143						
		Volume/Mount point		(	ee						
							Clear	Save			

#### 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.



Videos	All				Delete
💮 Configure	02:00	03:13	05 : 00	03 : 13	03 : 13
	VID_21.ts 22.62 MB	VID_20.ts 36.75 MB	VID_19.ts 56.77 MB	VID_18.ts 36.64 MB	VID_17.ts 36.69 MB
	01:45	03:13	03 : 13	05 : 00	08 : 16
	VID_16.ts 19.75 MB	VID_15.ts 36.61 MB	VID_14.ts 36.59 MB	VID_13.ts 57.74 MB	VID_12.ts 94.14 MB
	03:13	05:00	03 : 13	05 : 00	03 : 13
	VID_11.ts 36.65 MB	VID_10.ts 56.81 MB	VID_9.ts 36.92 MB	VID_8.ts 56.59 MB	VID_7.ts 36.65 MB
			< 1 2 >		

## 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 ④ icon to download the chosen one.
- To choose a specific video: move the cursur to a video and click 🥏 to download the clip.
- To delete videos: choose one or more, or all clips to delete.

	Volume/Mount point	cifs
		Clear Save
Recording	Record mode	Normal
Normal record mode will stop recording when the storage space is full.	Stream	Sub stream 👻
	Audio Stream	Audio stream 1 🔹
Loop record mode provides continuously recording. Old files will be overwritten by new ones when the NAS is full.	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" secion 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.

Recording You can record and save video files.	) St	art Recording SD Card Ready	O0:00:00 File system	<b>5cheduler</b> 10.22 GB = 48.24 GB	
You can record and save video	) st	SD Card	File system	_	
	<b>**</b>			■ 10.22 GB = 48.24 GB	
			exfat		٢
		USB Drive Missing			٢
		Off NAS	NAS type CIFS	■ 107.01 MB ■ 18.44 GB	ÎI O

MV@EMELT.	Dashboard	Input	Encode	Live	Record	Overlay	System		2	Admin -
SCHEDULER Manage Destinations strea scheduler	am	Schedule control ≫ Schedule source Local calendar file		Local	Local Cal.ics Click or drag a local calendar file here to re-upload.					
		Schedule li:	st	-	227/04/01 14:0 0-repeat + A	00:00 - 2027/04 Add	4/01 15:00:00		Q	

#### 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	Record Schedule							
Set schedule parar	neters.							
1. Click on the	Scheduler							
icon.								
<ul> <li>You can a</li> </ul>	dd up to 16 scheduling schemes.							

- 2. 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

schedule

V@EMELT <sub>°</sub>	Dashboard	Input	Encode	Live Record	Overlay	System		🎩 Admii
Scheduler								
New Event		Description		New event				
		Details						
		Begin		2025-04-27		11:05:08	🗌 Full o	day
		End		2025-04-27		12:05:08		- 1
		Repeat even	ıt	Daily				•
				• Every 1	day 🔿 Eve	ry workday		
				No end date				_
					occurrences			_
				End by	025-05-27			_
							Sav	re
							Jav	
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VQEMEIT.	ss Co., Ltd. All rights res Dashboard	served.	Encode	Live Record	Overlay	<u>Su</u> System	pport   User quide	
	_	Input		_	Overlay	_	pport   User guide	
VQEMEIT.	_	Input		New event	Overlay	_	pport   <u>User guide</u>	
	_	Input Description Details		New event 0-63 characters		System		L Admin
	_	Input Description Details Begin		New event 0-63 characters 2025-04-27		System	pport   User suide	L Admin
	_	Input Description Details		New event 0-63 characters		System		L Admin
	_	Input Description Details Begin End		New event 0-63 characters 2025-04-27 2025-04-27 Monthly		System		2 Admi
	_	Input Description Details Begin End		New event 0-63 characters 2025-04-27 2025-04-27 Monthly e Repeat 1	day every	System 9 11:05:08 9 12:05:08 1 month		2 Admi
	_	Input Description Details Begin End		New event 0-63 characters 2025-04-27 2025-04-27 Monthly e Repeat 1	day every	System 9 11:05:08 9 12:05:08 1 month		2 Admi
	_	Input Description Details Begin End		New event 0-63 characters 2025-04-27 2025-04-27 Monthly e Repeat 1	day every	System 9 11:05:08 9 12:05:08 1 month		2 Admi
	_	Input Description Details Begin End		New event 0-63 characters 2025-04-27 2025-04-27 Monthly e Repeat 1 On 1 N e No end date After 1	day every Monday	System 9 11:05:08 9 12:05:08 1 month		2 Admi
	_	Input Description Details Begin End		New event 0-63 characters 2025-04-27 2025-04-27 Monthly e Repeat 1 On 1 N e No end date After 1	day every Monday	System 9 11:05:08 9 12:05:08 1 month		2 Admi
	_	Input Description Details Begin End		New event 0-63 characters 2025-04-27 2025-04-27 Monthly e Repeat 1 On 1 N e No end date After 1	day every Monday	System 9 11:05:08 9 12:05:08 1 month		Admir
	_	Input Description Details Begin End		New event 0-63 characters 2025-04-27 2025-04-27 Monthly e Repeat 1 On 1 N e No end date After 1	day every Monday	System 9 11:05:08 9 12:05:08 1 month	onth	Admir

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 3. session can add up to 8 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 recording task, or check the Full day.
  - End: Select the end date and specific time of this recording 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 firstrepeat,
      - End by specified date YYYY-MM-DD the session will not repeat

<b>ΜΛ</b> ΔΕΨΕLL°	Dashboard	Input Encode	Live Record Overlay System 2 Adn
Scheduler			
New Event		Description	New event
		Details	0-63 characters
		Begin	□ 2025-04-27
		End	2025-04-27 ① 12:05:08
		Repeat event	Weekly
			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
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<b>ΜΛGEWELL°</b>	Dashboard	Input Encode	Live Record Overlay System 👤 Adm
Scheduler			
New Event		Description	New event
		Details	0-63 characters
		Begin	□ 2025-04-27
		End	☐ 2025-04-27 ③ 12:05:08

Repeat event Yearly Every 1 day January No end date occurrence End by 2025-05-27

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 firstrepeat,
  - 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 firstrepeat,
  - 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 firstrepeat,
  - 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  $\bigcirc$  switch to make your schedule work.

# Overlay

The overlay function is available when the resolutions of the input signal and the mainstream are no greater than 2048x1080.



Set Overlays for the Main and Sub Streams Display Overlays is off by default. You can preview thumbnails with enabled overlays after turning it on.



	Dashboard	Input	Encode	Live	Record	Overlay	System		L L
Coverlays									
Text		(0, 0)							(1920, 0)
lext		1-63 ch	araicter						
		- 2222							
		- 3333							
		- 2000							
		- 2222							
		18888				8888888		88888	
		- 10000	000000			0000000		00000	
		(0, 1080)							(1920, 1080)
		(0, 1080) Location		Cus	stom				(1920, 1080)
							Vertical -		
						o 4	Vertical	0	
				Но		0	Vertical	•	
		Location		Но	rizontal –	0 1	Vertical		+
		Location		Но	rizontal –		Vertical		+
		Location Font Size & Fill		Ho Sou	rizontal –	50	Vertical	• •	+
		Location Font Size & Fill Outline		Ha Sou - 1-6	rizontal – Irce Han Sans	50 1 +-ip#, and #wifi-ip# in	- Vertical -	• + +	• + B I
		Location Font Size & Fill Outline	te	Ha Sou - 1-6	rizontal – rrce Han Sans 3 character	50 1 +-ip#, and #wifi-ip# in		• + +	• + B I

#### Add 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 colorpicker to custom your desired color.
- Content: 1 to 63 characters are supported to display.
- Save: save current configuration.

MVCEMELT.	Dashboard	Input	Encode	Live	Record	Overlay	System		💄 Admin 🝷
Overlays									
Clock		(0, 0) 2005 C.Q. (0, 1080)	71040264					(1	(1920, 0)
		Location		Bott	om left				•
		Font		Sour	ce Han Sans			• E	<b>3</b> <i>I</i>
		Size & Fill				40		+	
		Outline				1		+	~
		Time							
		Dele	te					Sa	we
© 2025, Nanjing Magewell Electroni	cs Co., Ltd. All rights res	erved.					Suppo	r <u>t</u>   <u>User guide</u>	e   <u>Legal</u>   <u>Warranty</u>

#### Add 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 colorpicker 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

(1920.0)
(1920, 1080) Custom
Horizontal - 142 + Vertical - 384 +
231
400 %
MAGEWELL'
Save

# Add Pictures

• Save: save current configuration.

- 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% to 400%. By default it is 100%. •
- **Picture:** choose a picture from Overlay > Gallery. There is no picture by • default.
- Save: save current configuration. •

m۸	GEWELL°	Dashboard	Input	Encode	Live	Record	Overlay	System	L.	Admin -
				Overlays		Gallery				
	Gallery Upload JPEG/PNG files f overlays, which size up to 1920x1080, 512KB.		MAGE	WELL	Original size 401 x 50	e	Format PNG		đ	
							+ Add			
© 20	025, Nanjing Magewell Electronics	Co., Ltd. All rights reser	ved.					Suppo	ort   <u>User guide</u>   <u>Legal</u>	Warranty

### 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 1 to delete current picture from your device.

## General

<b>ΜΛ</b> GEWELL°	Dashboard Input	Encode Li	ive Record	Overlay System	👤 Admin 🝷
General	Network	Q User Admin	Firmware	C Control Hub	About
Device Name Change the device name other name you like.	AIO Comph		ccessing the WebUI via domain r	name. For example, " <device_name>.loc:</device_name>	al' Save
Input		input competence	ut Mixer if the input signal is 4K.	50/60fps or if the pipeline bandwidth ex	Ceeds 300Mpixels/s.

Change the device name to any other name you like.	Save
Input	4K60 input competence Halve the frame rate and disable the input Mixer if the input signal is 4K 50/60fps or if the pipeline bandwidth exceeds 300Mpixels/s.
Security	НТТР

#### Devivce Name

- When used solely as a device name: valid characters are A-Z, a-z, 0-9, space, ., \_, -, +, ', [, ], (, and ). 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.

#### Input

4K60 input competence When this switch is turned on, if a signal with 4K 50/60fps input or a pipeline bandwidth exceeding 300Mpixels/s is detected, the capture frame rate will be halved, and the input blending function will be disabled. This function is disabled by default.

Security	НТТР	
	Port	80
	HTTPS	
	Port	443
	CA Certificate	Drag & drop a certificate or click to upload
	CA Private Key	Drag & drop a key or click to upload
		Save

LCD Screen	Disable touchscreen		
Set LCD screen functions for your device.	Disable page flip		
	LCD display	Preview	
	Preview frame rate	5 FPS	
			Save

#### Modify SECURITY 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. Re-log into Web UI.

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

### LCD SCREEN

- Disable touchscreen: off by default. The LCD touchscreen funcion will not work after turnning it on.
  - Disable page flip: off by default. Turnning it on, turn Disable touchscreen off, and specify the LCD display as Live or Record, then you can tap on the LCD screen to start/stop the streaming or recording task.
  - LCD display: options are Preview, Live, Record and QR code (Web UI).

A/V Sync	Audio offset	) ms	
To match up the audio and video tracks, set a positive value to delay the start of the audio track, set a negative value to reduce the delay.		Save	Reset

of Bosond parameters	Record	Auto-recording		
Auto-record policy Automatic - signal locked	Set Record parameters.	Auto-record policy	Automatic - signal locked	

#### 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.
- 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.

- Preview frame rate: options are 1/5/10/15 FPS. And the default is 5 FPS.
- Save: Click to save the current configuration.

Live	TS Over UDP/RTP		
Set Live parameters.	MTU	1496	+
		Save	Reset
	HLS (push)		
	Segment count	3	+
	Segment duration(sec)	3	+
	Configurations will work on YouTube HLS session.		

#### Live

#### 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 Youtobe HLS sessions.

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

#### NDI®

- 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.

Date & Time	Time zone	Asia/Shanghai	•
Set proper time for your streamer to live and record.			Save
	Set time automatically		
	NTP server 1	0.pool.ntp.org	
	NTP server 2	1.pool.ntp.org	
	Time Synchronization Ser	vice Status ≫	
	Reference ID	5410430C (tock.ntp.infomaniak.ch)	
	Ref time (UTC)	Sun Apr 27 02:56:12 2025	
	System time	0.000812595 seconds slow of NTP time	
	Leap status	Normal	

Reset	Reset all settings	
Reset all settings will cause all configurations to return to the default value.	Import settings	
	Export settings	

#### 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 synchronized to the world-time servers depending on the timezone 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.

#### Reset 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.

conngurations to return to the default value.	Export settings			
Reboot	Reboot the device			
Reboot will shut device down and then start it again immediately.	Auto reboot			
	Reboot time	2025-04-27	© 11:26:19	
	Repeat event	No-repeat	•	
			Save	
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#### 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.

Da Da	ashboard	Input	Encode	Live	Record	Overlay	System		Admin
हिंदे General	Network		Q User Admin		Firmware		с <u></u>	About	
Ethernet Settings for Ethernet IP addres		Link status DHCP	5	1.0 (	Gbps				
		IP addre			0.10.39.110				
		Subnet r Gateway			0.10.36.1				51
		DNS		1	0.0.1.3				
								Арр	lγ
м/: Г:							Chang	Died	-1-

#### Set 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.
- Verification: input new IP address to open the Web UI.

#### ͲϒϾϾϺϾΓΓ 👤 Admin 👻 Choose a network Mine 0 Î magewell WI-FI Disable Others magewell 006 5GHz magewell-GUEST $\ominus \widehat{\diamondsuit}$ magewell009 5G HUAWEI-0401VH 5G 0 ŝ

GEWELL' D	ashboard Input Encode Live	Record Overlay	System	2 Admin
	Choose a network	Х		
WI-FI	Mine		Change	Disable
Display the Wi-Fi information.			-	
	No data			
	Others			
	AF01210528003	÷.		
	StreamSync1_3004_5G	÷ 🔅		
	magewell	- ÷		
	DIRECT-dD	÷ 🔅		
	HUAWEI-0401VH	÷		
	StreamSync1_3004_2.4G	- ÷		
	B313221116086	÷.		
	HUAWEI-0401VH_5G	- ÷		
	DIRECT-DA	÷ 🔅		
	B313230314057	÷		
AP		<u> </u>	nge password	Disable

#### Set 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, and WPA2/WPA3, and enter the Password (8 characters at least). Click connect.
- (Optional) Disconnect: click to cut off current Wi-Fi network. 2.
- (Optional) Forget: click to delete current Wi-Fi network information. 3.
- (Optional) Check Connect automatically, then the Wi-Fi network will be 4. joined automatically.

#### Set Wi-Fi manually

• DHCP: turn OFF the switch to modify current network setting or when being connected to a non-DHCP network.

Wi-Fi			Change Disable
Display the Wi-Fi information.	SSID	magewell	
	Status	Medium (-58 dBm)	
	DHCP		
	IP address	10.20.0.176	
	Subnet mask	255.255.255.0	
	Network gateway	10.20.0.1	
	DNS	10.0.1.3	
			Apply

AP		Change password Disab
Display the AP information.	SSID	B313221116071
	IP address	192.168.48.1
	Subnet mask	255.255.255.0

	DINJ	10.0.1.5		
	_			
	Change Password	×		
	AP password			
Wi-Fi	21116071		Change	Disable
Display the Wi-Fi information.	ОК	Cancel		
		Wi-Fi not availa	ble	

- 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.
- Verification: input new IP address to open the Web UI.

#### Set 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 313210101001 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.

AP		Change password Disable
Display the AP information.	USBNET	X
	IP address	192.168. 66 .1
	Apply	Cancel
USB NET		Edit
Settings for IP address of USB NET.	Link status	Disconnected
NET.	IP address	192.168.66.1
	Subnet mask	255.255.255.0

	Subnet mask	255.255.255.0
	IP address	192.168.8.121
Mobile Network	Subnet mask	255.255.255.0
Display the mobile broadband	Gateway	192.168.8.1
information.	DNS	192.168.8.1
Advanced Settings	Network priority	Ethernet
		When multiple network connections are available, you can set the priority of the network connections.

information.		
Advanced Settings	Network priority	Ethernet     . When multiple network connections are available, you can set the priority of the network connections.
		Apply
© 2025, Nanjing Magewell Electronics Co., Ltd. A	\II rights reserved.	Support   User suide   Lesal   Warranty

#### USB NET

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

- Link status: USB NET connction 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.

#### Set 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 right is required to perform the following tasks. The User Admin tab is invisible when you log in as a general user.

- Create/Remove General User Accounts •
- Modify User Password



### Create/Remove 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.
- Click Add user. 3.
- Enter username, password, and confirm your password. 4.
  - 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 \_~!@#\$%^&\*-+=.
- Assign the user to an Administrator role or a general User role. 5.
  - 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<sup>"</sup> function.
  - The user role can not be changed. You might need to recreate a new

- 6. Click **OK**.
- Repeat step 3~5 to add multiple users. You can add up to 15 users. 7.
- To delete a user: Click **Delete** in the username card. When prompted, click 8. Yes.

#### Modify 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

# 👤 Admin 🔺 Change password Sign out کا 🔅 ı÷.

#### Modify 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 $\odot$ New password $\odot$ Confirm password $\odot$ ОК Cancel

 $\times$ 

M√GE₩ELL°	Dashboard Inp	out Encode	Live Record	Overlay System	2 Admin -
General	Network	Q User Admin	Firmware	Control Hub	About
User Admin Admin user create and manage users that are stored locally on the device.		Add New User	Admin Admin	Admin root	111

#### Modify a specified user password

- 1. Access the Web UI and sign in with the administrator account.
- Go to User Admin tab, then you can change any user's password. 2.
- 3. Click the  $\checkmark$  to 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 \_~!@#\$%^&\*-+=) Ø

 $\times$ 

#### Confirm password

Verify your new passcode	ø
--------------------------	---

ОК

Cancel

#### **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.

ΜΛGEWELL°	Dashboard	Input Encode		Overlay System	🙎 Admin 🝷
General	Network	Q User Admin	Firmware	Control Hub	About
Online Update  Check and update the devic the latest version on the internet, enjoy the latest features and improvements appreciate your assets.		Current Version 2.3.323* Your firmwa	are is up to date. 🕑		

Deep and deep a ferrouse fla	
Drag and drop a firmware file here to update the device to a	
specified version manually.	
	Current version: 2.3.323*
	Attach the update file (.mwf) by drag $\&droporclicktoupload$

#### Online Update

By default, the function is on. When a new version is detected, a Firmware<sup>\*</sup> 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 O icon to check for the latest firmware manually.
- Click Update button to download and install the new version file if any. 3. 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. Verification: click 🙆 checking for updates again.

#### Manual Update

1. Click on **click to update** to select the **.mwf** firmware update file from your SD card, or just drag and drop the file from your computer into the upload zone.

Dowload firmware file from our official website.

The device will automatically verify the update file and upload the file after the file verification is passed.

Control Hub		X
Invitation code		
4-digit		
Control Hub address		
IP address or domain name		
HTTPS		
HTTP port		
80		
Save	Cancel	

Click Update to download and install the new version file. Then the device 2. will reboot to complete the update. Do not disconnect from the power source or perform any operation while updating the firmware as this could demage your gear.

3. Verification: 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 cloud 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 domian name of Control Hub.
  - HTTPS: Control Hub supports HTTPS access, you can enable it to set the HTTPS port number.
    - HTTPS port: enter HTTP port number, which should be consist with that of Control Hub. 443 is the default port, and the port number ranges from 1 to 65535.
  - HTTP port: enter HTTP port number, which should be consist with that of Control Hub. 80 is the default port, and the port number ranges from 1 to 65535.

MVCEMELT.	Dashboard I	nput Encode	Live Record	Overlay System	🤱 Admin 👻
General	Network	Q User Admin	Firmware	CS Control Hub	About
Control Hub 1					Deregister
		Control Hub status	Online		
		Register status	Accepted		
		Control Hub address	10.10.39.188		
		HTTPS	Disabled		
		HTTP port	80		
Control Hub 2		( Un	registered		Register
© 2025, Nanjing Magewell Electronics	Co., Ltd. All rights reserved	d.		S	iupport   User guide   Legal   Warranty

- 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 cloud-join permission, including
    - Incorrect invitation code: you need to change your registration with correct code.
    - Waiting: registration is successfully submitted to Control Hub plarform.
    - 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.

<b>ΜΛGEWELL°</b>	Dashboard	Input Encode		Overlay System	👤 Admin 🝷
General	Network	Q User Admin	Firmware	C2 Control Hub	About
About Display the device inform	ation.	Device name Product name Serial number Hardware version Firmware version Ethernet MAC address Wi-FI MAC address	AIO-1 Ultra Enco B3132211 B 2.3.323* D0:C8:57: D0:C8:57:	16071 81:49:78	

Report	Ultra Encode AIO	
Take a snapshot of all current conditions of the device and export to a file for support.	Generated at Sun Apr 27 11:00:17 2025	
	<pre>{     "product": {         "device-name": "AIO-1",         "product-name": "Ultra Encode",         "module-name": "Ultra Encode AIO",         "sn": "B313221116071",         "hardware-ver": "B",         "firmware-ver-s": "2.3.323",         "factory-firmware-ver-s": "2.3.210"         },         "mac-addr": {         }         }     }     }     } } </pre>	

#### **Check 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.

#### **Export 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.

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

System Log	Total:200	00 events	All Information Warning Erro
Track important events	Level	Date & Time	Detail
generated by the device and	(i)	2025-04-27 10:37:34.637	v4l2 VIDIOC_DQBUF 1000 frames ok!
export them as a file for technical support.	(i)	2025-04-27 10:37:01.202	c_h401_capture::create - ok!
заррон ч	(i)	2025-04-27 10:37:01.178	Input signal ready.
	(i)	2025-04-27 10:37:01.116	HDMI, Audio signal present: 48000 Hz, 2 channels, 24 bits
	(i)	2025-04-27 10:37:00.863	HDMI, Video signal locked: 1920x1080i59.94
	<i>(i)</i>	2025-04-27 10:37:00.588	HDMI, Video signal locked: 1920x1080i59.94
	<i>(i)</i>	2025-04-27 10:36:56.082	SDI, Audio signal present: 48000 Hz, 8 channels, 24 bits
	(i)	2025-04-27 10:36:55.981	SDI, Video signal locked: 1920x1080p60.00
	$\triangle$	2025-04-27 10:36:55.786	SDI, Audio signal not present
	$\triangle$	2025-04-27 10:36:55.780	SDI, Video signal unlocked
	$\wedge$	2025-04-27 10:36:46.877	HDMI, Video signal unlocked
	(i)	2025-04-27 10:35:16.432	v4l2 VIDIOC_DQBUF 1000 frames ok!
			Clear Export

#### Clear/Export All Logs

- 1. Access the Web UI and sign in.
- Click and enter the System tab, then select Log. 2.
- 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 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**.
- (Optional) Click **Clear** to delete all logs. 5. When prompted in the window, click Yes.





#### Enable Dark Mode for Your WebGUI

- 1. Log in WebGUI.
- Click the drop-list icon  $\blacksquare$  beside your avatar icon, and click 💌 to 2. 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
- Allow simultaneous 6 sessions over multiple streaming protocols, containing 1 session of HLS, RTSP, NDI<sup>®</sup> |HX2, or 2 NDI<sup>®</sup> |HX2 (if included)
- Specify main stream or sub stream for each streaming session
- Stream 1 NDI<sup>®</sup> | HX3 sessions, and they cannot stream simultaneously with other tasks

SSP

Reset all	settings English •
SIGN IN	
Enter your account and password	
User name	
Password	
SIGN IN	
Forgot your password?	

Fig1. Forgot admin password

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

- Forgot admin password:
  - 1. Connect the device to your computer using 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.

# $\times$ Set Password New password 1-32 characters (A-Z, a-z, 0-9 and \_~!@#\$%^&\*-+=) 💋 Confirm password Ø

ОК

Cancel

Fig2. Forgot a general user's password

• Forgot a general user's password:

Sign in Web UI with the administrator account, 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

- Please contact the Magewell support team by email (support@magewell.net) first, to determine whether your problem can only be solved by returning it to 1. Magewell for repair. Magewell might ask you to take photos of the front and back of the defective products.
- 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 2. 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.

- 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 3. 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.
- 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 4. 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.
- 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 5.

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.

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