

MAGEWELL®

ULTRA STREAM™

User Manual



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Getting Started



Overview

Ultra Stream encoder makes live streaming remarkably simple even for non-professional users, enabling them to record or stream high-quality video with one click using on-device buttons or an intuitive smartphone app. Designed for users who want to stream but may have minimal technical knowledge, the encoder is ideal for everyone from church volunteers and educators to corporate communicators and live event organizers.

Users can stream to popular services including YouTube, Facebook Live or Twitch or to a custom-specified server. Streams can be output to a third-party service and custom server simultaneously, while real-time video preview in the app allows easy monitoring. In addition to outputting live streams, Ultra Stream can record video as files to a directly-connected USB drive, embedded storage or the associated smartphone.

Key Features

- Streaming to Facebook, Twitch and YouTube platforms
- Support for streaming to 2 servers simultaneously at most
- Recording to USB flash drive and internal storage
- Recording to mobile device
- Remotely control recording and streaming using app
- Device configuration using Web UI

System Requirements

Network

- 10/100/1000Mbps Ethernet
- IEEE 802.11 a/b/g/n/ac

Supported Mobile Clients

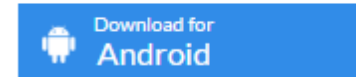
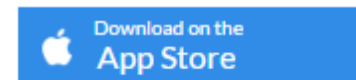
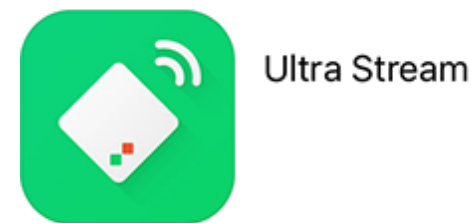
- Android 5.0 and above
- iOS 9.0 and above
 - iPhone 5s and above
 - iPod Touch 5
 - iPod Touch 6

Supported Web Browser

- Microsoft Internet Explorer 11
- 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

App

- For Android 5.0 and above, search **Ultra Stream** or **Magewell** in the **Google Play** or scan the QR code to download the **Ultra Stream** App.
- For iOS 9.0 and above, search **Ultra Stream** or **Magewell** in the **App Store** to download the **Ultra Stream** App.



Installation

Safety Information

Electrical Safety

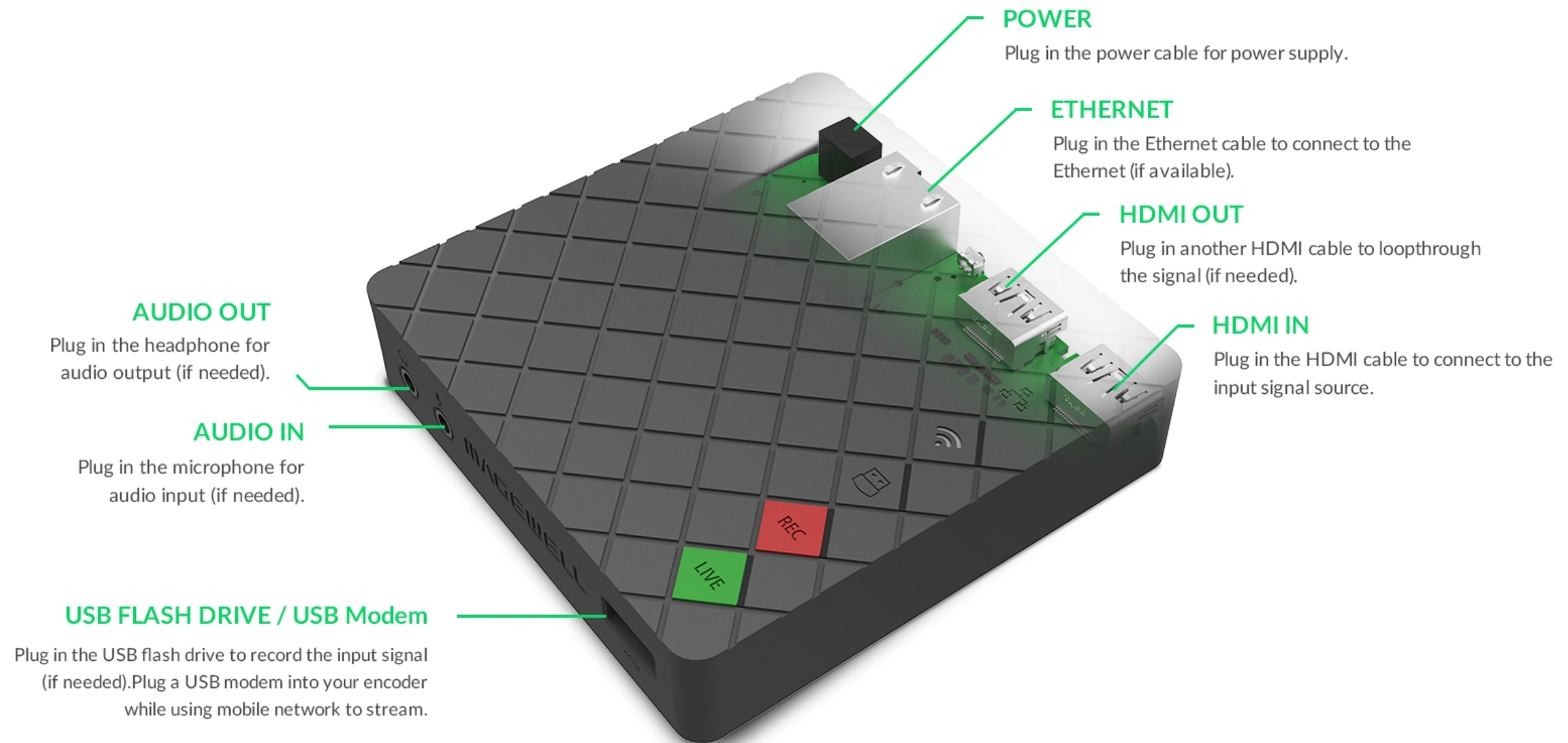
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that you are using the correct power adapter for the local voltage. If you are not sure about the voltage of the electrical outlet you are using, contact your local 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

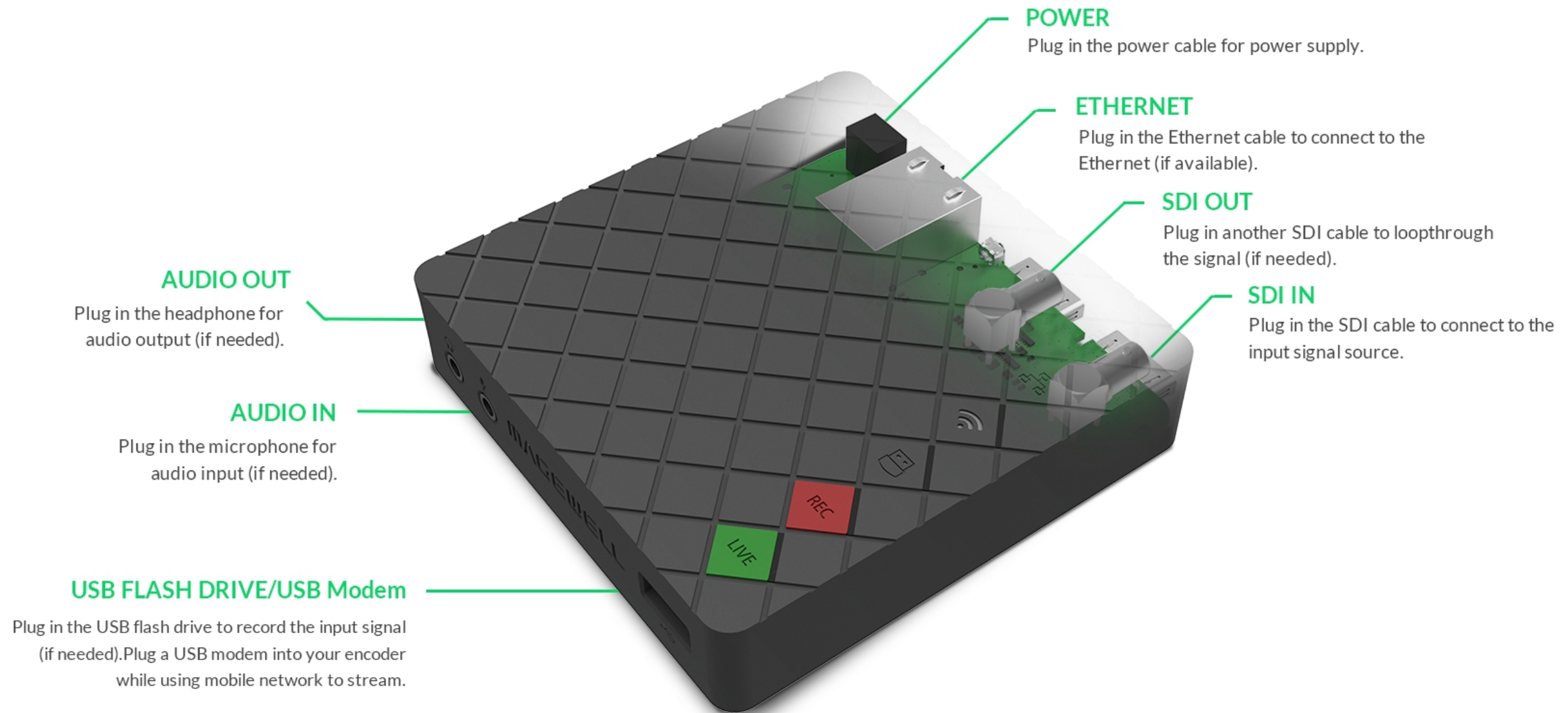
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you notice any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust,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

Interfaces & Indicators

Ultra Stream HDMI



Ultra Stream SDI



Indicators

Descriptions of indicators status are as follows. The indicators are located on the device panel as shown in [Interfaces](#).

HDMI/SDI IN

- On: input signal is detected.
- Pulsing slow: input signal is not detected.

Ethernet

- On: Ethernet is connected.
- Pulsing slow: Ethernet is disconnected.

Wi-Fi

- On: network is detected.
- Pulsing slow: network is not detected.
- Flashing: the encoder is connecting to Wi-Fi.

USB

- On: USB is available.
- Pulsing slow: USB is unavailable.
- Flashing: there is insufficient storage on the USB.

REC


- On: the encoder is recording.
- Pulsing slow: input signal is not detected.
- Off: the recording is off.
- Flash once and then restore to its former state: recording failed.

LIVE

- On: the encoder is streaming to at least one streaming address.
- Pulsing slow: at least one streaming server is configured.
- Flashing: the encoder is connecting to at least one streaming address.
- Off: neither of the stream servers are configured.
- Flashes once and then restore to its former state: live steaming failed to start.

Descriptions of multiple indicators status are as follows.

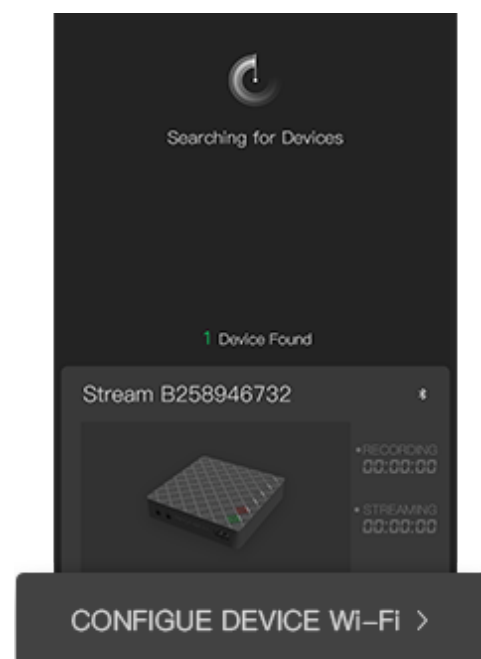
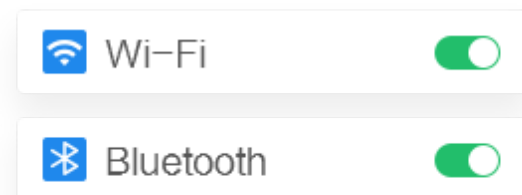
- The indicator lights flash in turn from HDMI/SDI IN to LIVE: system is booting up.
- The indicator lights flash in turn from LIVE to HDMI/SDI IN: firmware is updating.
- All indicator lights flash once simultaneously and then flash in turn from HDMI/SDI to LIVE: the encoder is rebooting.
- All indicator lights flash once simultaneously and then restore to their former state: in the device list of Ultra Stream app, choose an encoder and tap the device status icon at the upper right corner, and all the indicators on that encoder will light.

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

Configuration



Network

There are 3 ways for the Ultra Stream app to discover the encoders, via Ethernet, Wi-Fi and Bluetooth. If there are multiple ways to detect the unit simultaneously, the priority is: Ethernet > Wi-Fi > Bluetooth.



Connect via Wi-Fi

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

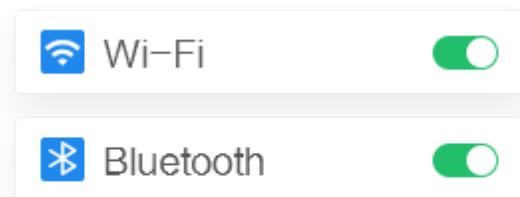
1. Plug the power cable into your encoder.
The LED indicators will light in rotation as the unit boots. Wait for about 1 minute and the boot up will be done.
2. Tap the Ultra Stream app icon  on your phone.
3. Turn on Wi-Fi and Bluetooth on your phone, and make it discoverable to nearby devices.
 - Turn on Location Services and authorize to the app for Android 6.0 and above.
 - Your phone and encoder must be connected to the same Wi-Fi network.
 - Your phone and encoder must be close to each other (less than 10m apart).
4. Tap the Ultra Stream app icon  on your phone, then the app will search for devices automatically.

5. Select your encoder and tap **CONFIGURE DEVICE Wi-Fi**.
Enter the device passcode in **Pair to device**, if the encoder has a passcode.
6. Enter the Wi-Fi password in **Configure Device Wi-Fi** and tap **Configure**.

If there is no password, go to the next step.

7. If the connection between app and encoder is established successfully, it will automatically go to the **LOCAL** interface.



If you are connecting via Wi-Fi for the first time, initialize the encoder following the on-screen instructions: set the device name, passcode and time.




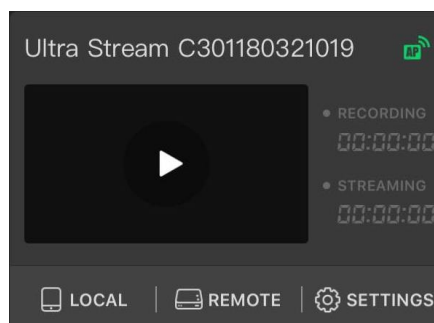
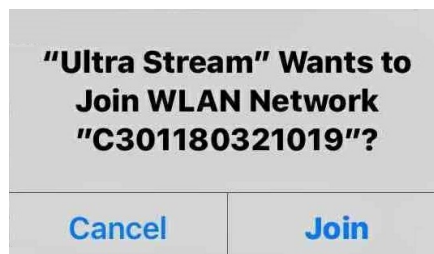
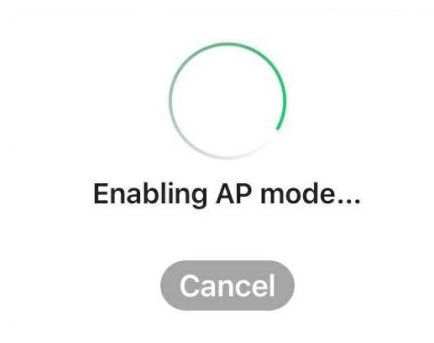
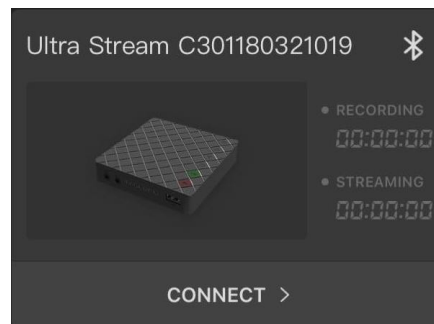
Connect via Ethernet

1. Plug the power cable and Ethernet cable into your encoder.
The LED indicators will light in rotation as the unit boots. Wait for about 1 minute and the boot up will be done. Now the Ethernet indicator will be on.
2. Tap the Ultra Stream app icon on your phone.
3. Search devices in the app.
 - Turn on Wi-Fi and Bluetooth on your mobile device as requested by the app, then the app will search for devices automatically.

⚠ The wireless network your mobile device is connected to and the wired network the encoder is connected to must be within the same network.

Showing  in the top right corner of a device indicates that the encoder is paired to the app; showing  indicates the encoder is not paired.

- If there is not an available Wi-Fi network, you can connect to your encoder by enabling its AP (Access Point) mode.
Turn on Wi-Fi and Bluetooth on your mobile device, then the app will search for devices automatically.
Showing  at the top right corner of a device indicates that the encoder is connected to the app.



Connect via AP Mode


You can turn on the AP mode of the encoder in your Ultra Stream app to make your unit an Access Point, if there is neither a Wi-Fi nor an Ethernet network in your working environment. The encoder can communicate with the wireless clients, such as your smart phone, ipod, etc.

1. Plug the power cable into your encoder.
The LED indicators will light in rotation as the unit boots. Wait for about 1 minute and the boot up will be done.
2. Tap the Ultra Stream app icon on your phone.
3. Turn on Wi-Fi and Bluetooth on your phone, and make it discoverable to nearby devices.

- ⚠️ ▪ Turn on Location Services and authorize to the app for Android 6.0 and above.
- Your phone and encoder must be close to each other (less than 10m apart, the closer, the better.).

4. Do any of the following to connect the device.
 - #1: Go to the WLAN function of system SETTINGS in your mobile phone. Search the Wi-Fi access point named after the device serial number located on the back panel.
Enter the AP passcode. The default passcode is the last 8 bit of the serial number.
 - #2: Tap the Ultra Stream app icon on your phone, then the app will search for devices automatically. Tap **CONNECT AP**.

Enter the device passcode in **Pair to device**, if the encoder has a passcode.

5. If the connection between app and encoder is established successfully, the device status will be shown as  .

If you are connecting via AP Mode for the first time, initialize the encoder following the on-screen instructions.

6. Turn off/on the AP mode: double click the green LIVE button located on the device panel.

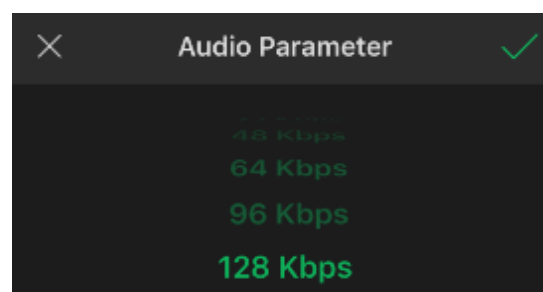
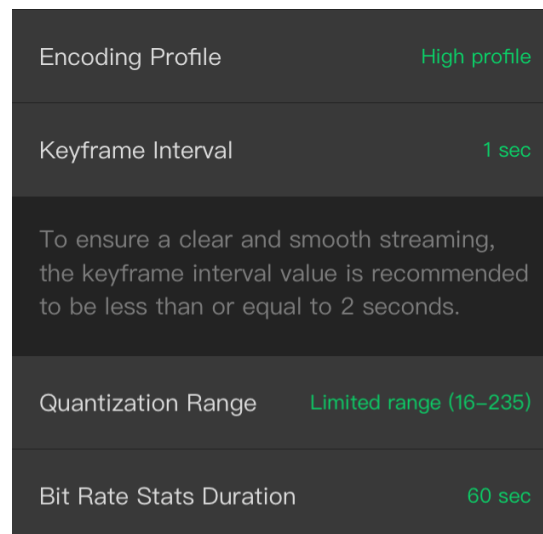
Live Streaming

Code Type	H.264
Encoding Profile	High profile
Keyframe Interval	1 sec
To ensure a clear and smooth streaming, the keyframe interval value is recommended to be less than or equal to 2 seconds.	
Quantization Range	Limited range (16–235)
Bit Rate Stats Duration	60 sec

Modify Encoding Parameters

By default, live streaming uses the encoding parameters of sub stream.

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter the **Encoding Parameters**.
3. Tap **Live Stream to Server**, choose the main or sub stream, then tap ✓.
4. Customize encoding parameters for your choice.
 - To set **Customize Main Stream**.
 - i. Turn on **Customize Main Stream**.
 - ii. Select proper resolution, frame rate, and bit rate, then tap ✓.
 - iii. Click and enter **Advanced Set**, select proper **Code type**, **Encoding Profile**, **Keyframe Interval**, **Quantization Range**, **Bit Rate Stats Duration**, then tap **Done**.
 - **Code type** includes H.264 and HEVC (high-efficiency video coding, H.265). Make sure that the client and server support HEVC When streaming.
 - **Encoding profile** is related to the code type, corresponding to different algorithm parameters. H.264 offers 3 different sets of capabilities for encoding, including Baseline, Main, and High profile. By default, H.264 uses High profile, the most efficient and powerful profile. HEVC uses Main profile for compression.
 - **Quantization range** should be the same as that of the input signal. Options are Limited range (default) and Full range.



- Selections of **Keyframe interval** include 1 (default), 2, 5, 10, 30, 60 seconds.
To ensure a clear and smooth streaming, the keyframe interval value is recommended to be less than or equal to 2 seconds. A longer interval brings a better picture quality, but requires more time for the viewers to see the image.
- Selections of **Bit rate stats duration** include 1, 5, 10, 30, 60 (default) seconds.
A longer Bit rate stats duration is better for motion video. A shorter period brings stable encoding bit rate which is easy for network transmission.
- To set **Customize Sub Stream**.
 - i. Tap **Edit Settings** below **Customize Sub Stream**.
 - ii. Select proper resolution, frame rate, and bit rate, then tap ✓.
 - iii. Click and enter **Advanced Set**, select proper **Encoding Profile**, **Keyframe Interval**, **Quantization Range**, **Bit Rate Stats Duration**, then tap **Done**.
 - **Encoding profile**
Sub Stream uses H.264 codec. It offers 3 different sets of capabilities for encoding, including Baseline, Main, and High profile. By default, it is High profile, the most efficient and powerful profile.
 - **Quantization range** should be the same as that of the input signal. Options are Limited range (default) and Full range.
 - Selections of **Keyframe interval** include 1 (default), 2, 5, 10, 30,

60 seconds.

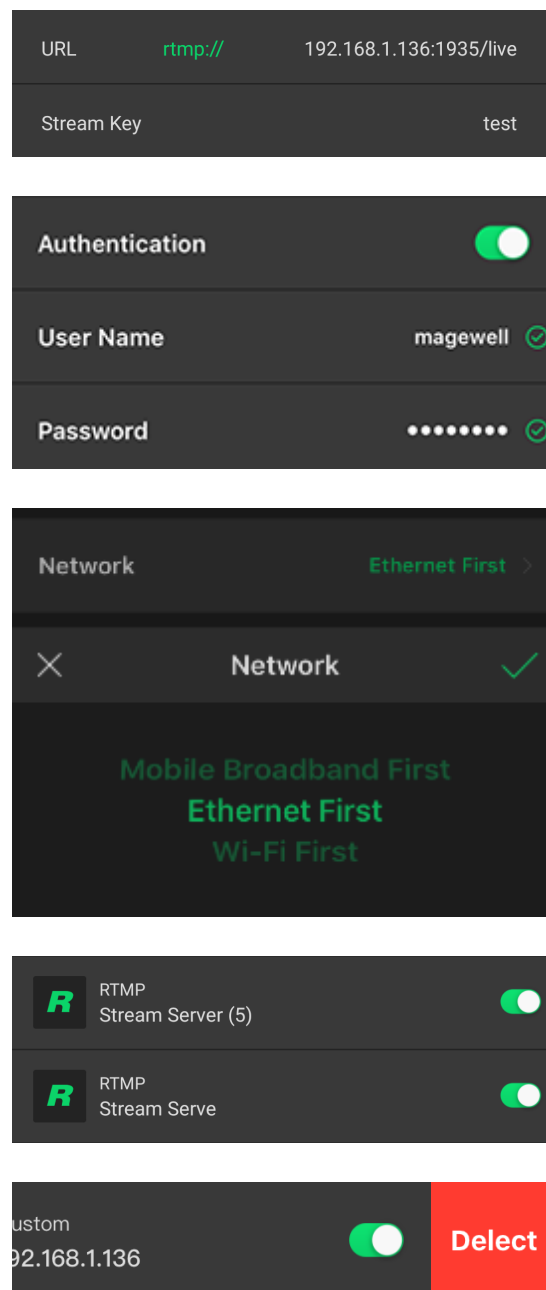
To ensure a clear and smooth streaming, the keyframe interval value is recommended to be less than or equal to 2 seconds. A longer interval brings a better picture quality, but requires more time for the viewers to see the image.

- Selections of **Bit rate stats duration** include 1, 5, 10, 30, 60 (default) seconds.

A longer Bit rate stats duration is better for motion video. A shorter period brings stable encoding bit rate which is easy for network transmission.


5. Tap **AAC Bitrate**, select proper parameter, then tap ✓.

All audio streams will be affected by modifying the **AAC Bitrate**.



Live Streaming to an RTMP Server

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

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter the **Streaming Server** settings.
3. Tap + **Add Server**, select **RTMP**.
4. Enter **URL** and **Stream Key**.
A green check icon  will be displayed at the end of the line if you pass the verification.

- Obtain the streaming server address and stream key from your live streaming service providers.
- A full address example is `rtmp://192.168.1.136:1935/live`.
You can select `rtmp://` or `rtmps://` from the drop list, or input it manually. The `rtmp://` or `rtmps://` can be omitted, and is not case sensitive; `:1935` can be omitted, and the value range is 0 to 65535. If the RTMP address is a domain name, `live` can be omitted. If the RTMP address is an IP address, `live` cannot be omitted.
- The stream key does not support `/`.

5. Turn on **Authentication**, if your live streaming service provider requires.

Obtain the **User Name** and **Password** from your live streaming service provider.

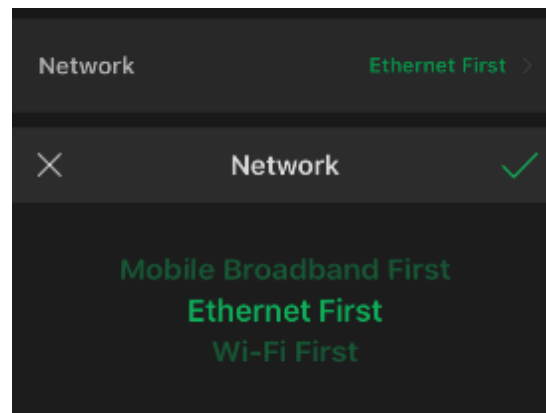
6. Choose the prime network for streaming.
By default, the network connection priority is: Mobile Broadband >

Ethernet > Wi-Fi.

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

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

7. Tap **Test** to check the connection between the server and encoder.
8. When prompted, tap **OK**.
9. (Optional) To add other streaming servers, repeat step 3 to 5.
10. (Optional) Choose where you want to post your live broadcast.
You can stream simultaneously to 2 servers at most.
11. (Optional) To delete a server: touch the server and slide to the left, tap **Delete**. When prompted, tap **Confirm**.



Live Streaming to Twitch

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

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

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter the **Streaming Server** settings.
3. Tap **+ Add Server**, select **Twitch**, follow the on-screen instructions to login and select server.

Your username and identification icon will be displayed after login.

4. Choose the prime network for streaming.
By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.
The device scans the available network according to the order 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.
5. Tap **Test** to check the connection between the server and encoder.
6. when prompted, tap **OK**.
7. (Optional) To add other Twitch accounts, repeat step 3 to 5.
8. (Optional) Choose where you want to post your live broadcast.
You can stream simultaneously to 2 accounts at most.
9. (Optional) To delete a server: touch the server and slide to the left, tap

Delete. When prompted, tap **Confirm**.

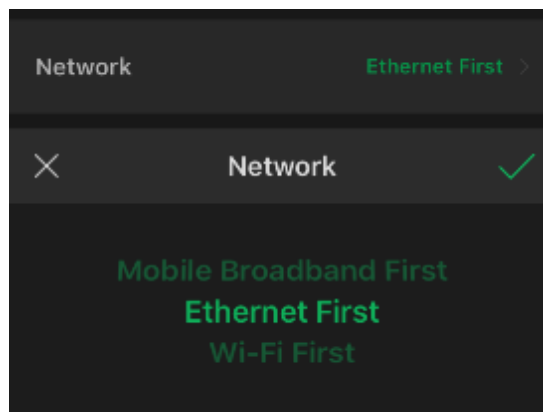
Log in with YouTube

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

googlegooglegooglegoogle

Cancel

Go to YouTube




Live Streaming to YouTube

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 stream.

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

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

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter the **Streaming Server** settings.
3. Tap **+ Add Server**, select  **YouTube**, enter the **Stream Name**, follow the on-screen instructions to login and select a server.
4. Click **Log In**. Follow the on-screen instructions to open YouTube, enter the code displayed on your device, and log in.

Your username and identification icon will be displayed after login.

5. Choose the prime network for streaming.
 By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.
 The device scans the available network according to the order 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 streaming using mobile network.

6. Tap **Test** to check the connection between the server and encoder.
7. when prompted, tap **OK**.
8. (Optional) To add other YouTube accounts, repeat step 3 to 5.
9. (Optional) Choose where you want to post your live broadcast.
You can stream simultaneously to 2 accounts at most.
10. (Optional) To delete a server: touch the server and slide to the left, tap **Delete**. When prompted, tap **Confirm**.

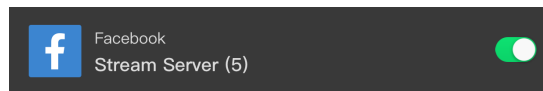
Log in with Facebook

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

facebookfacebook

Cancel

Go to Facebook




Live Streaming to Facebook Live

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

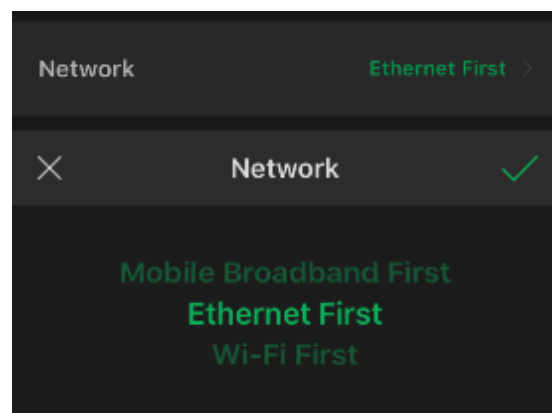
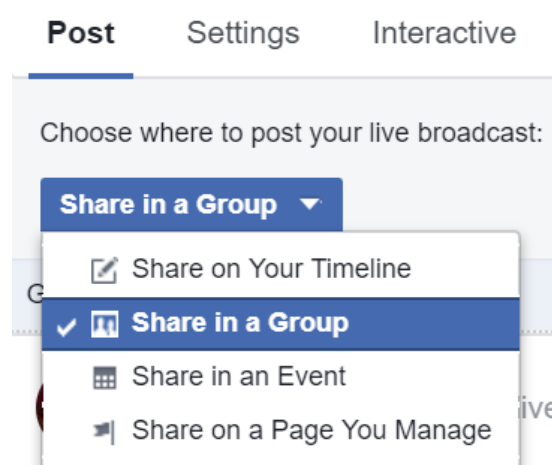
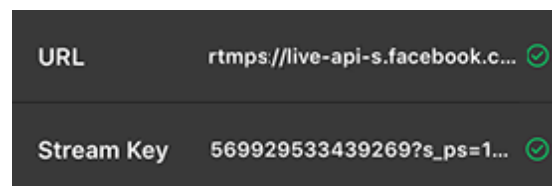
⚠ To ensure smooth live streaming experience, connecting to a wired Ethernet network is recommended.

From the device list, tap to enter the **SETTINGS > Streaming Server** interface to start setting up your stream according to where you want to post your live broadcast.

- Via the Facebook live interface.
 1. Tap + **Add Server**, select , enter the **Stream Name**.
 2. Click **Log In**. Follow the on-screen instructions to open Facebook, enter the code displayed on your device, and log in.

⚠ Your username and profile image will be displayed after logging in.

3. Choose the prime network for streaming.
 By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.
 The device scans the available network according to the order 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.
4. Tap **Test** to check the network connection.
5. After pass the test, click **OK**.



6. Back to **Streaming Server** page, turn on the added server.
You can stream simultaneously to 2 accounts at most.
7. (Optional) To delete an account: touch the account and slide left, tap **Delete**.
When the prompt window shows up, tap **Confirm**.

- Via a custom RTMP.

1. Tap **+ Add Server**, select **RTMP**.
2. Enter Facebook **URL** and **Stream Key**.

A green check icon will be displayed at the end of the line if you pass the verification.

To create a live stream on Facebook:

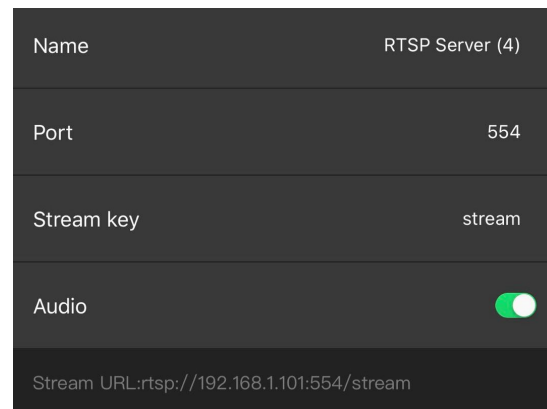
- i. Go to <https://www.facebook.com/live/create> to create a live stream on Facebook.
- ii. Click **Create Live Stream**.
- iii. Choose where you want to post your live broadcast.
- iv. After inputting the event, or group name, the server URL and stream key or persistent stream key will be displayed on the left page.

⚠ Select **Enable persistent stream key** if you want your stream key to be permanent. If this isn't selected, you won't be able to use this stream key again after the streaming session ends.

- v. Write a description, Title and Video Game tag.
- vi. Click **Go Live** or **Schedule**.

⚠ Start the video stream from your encoder before going live on Facebook.

3. Choose the prime network for streaming.
By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi.
The device scans the available network according to the order 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 when using mobile network to stream.
4. Tap **Test** to check the network connection.
5. After passing the test, click **OK**.
6. Back to the **Streaming Server** page, turn on the added server.
You can stream simultaneously to 2 accounts at most.
7. (Optional) To delete an account: touch the account and slide left, tap **Delete**.
When the prompt window shows up, tap **Confirm**.



Create an RTSP Server

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

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter the **Streaming Server** settings.
3. Tap **+ Add Server**, select **RTSP**.
4. Enter the **Stream Name**, **Port**, **Streamkey** and **Audio**.

⚠ The **Port** number ranges from 10000 to 65535, and the default 554 port.

⚠ Turn off **Audio** to send image without sound. By default, the "Audio" is on.

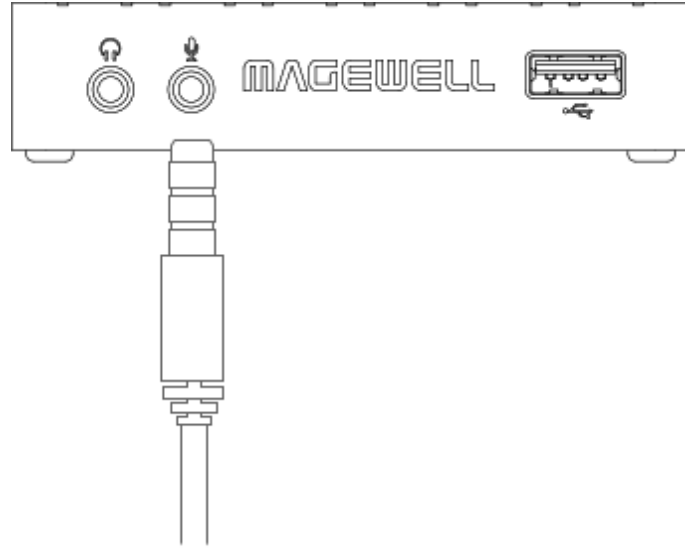
5. The stream URL shown as the left figure after configuration.
6. Back to the **Streaming Server** page, turn on the added server.

⚠ Only one RTSP broadcast is supported at a time, you can not stream other data simultaneously.


Up to 2 clients are supported simultaneously.

7. (Optional) To delete a server: touch the server and slide to the left, tap **Delete**.

When the prompt window shows up, tap **Confirm**.





Add Voice Comment during Streaming

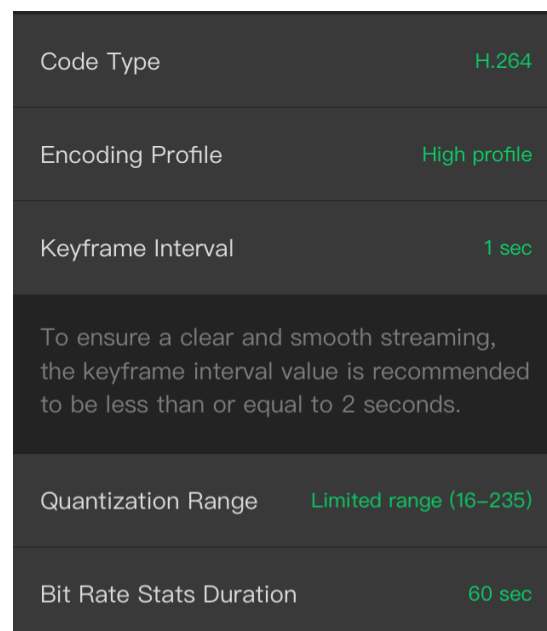
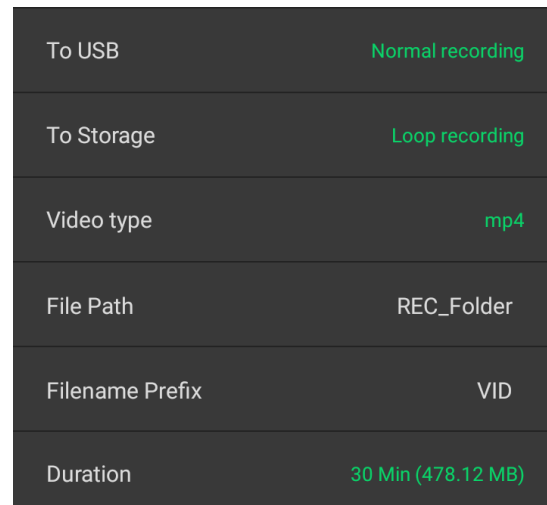
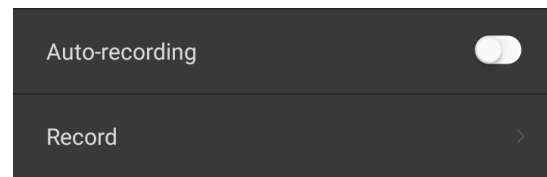
Plug in a microphone to your encoder audio jack , then you can stream and record your narration and comments.

Start/Stop Streaming


Make sure you have set the streaming servers before start streaming. To ensure smooth live streaming experience, connecting to a wired Ethernet network is recommended.

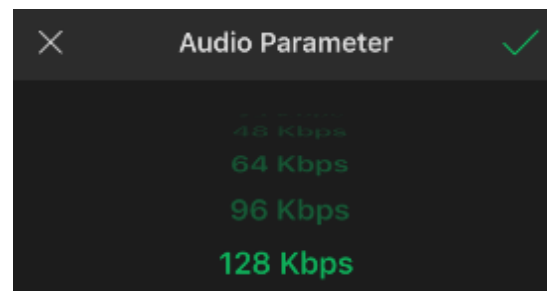
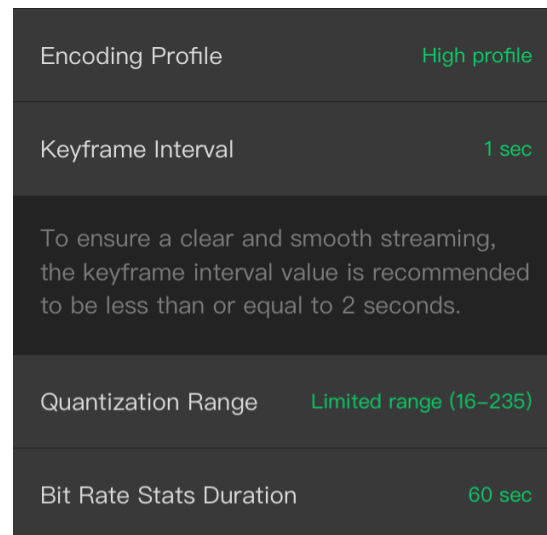
1. Do any of the following to start/stop streaming.
 - From the device list, tap to enter the **REMOTE** interface, then tap the green **LIVE** button .
 - Press the green **LIVE** button  located on the top panel of the encoder.
2. Check streaming status in the right side of the **REMOTE** interface.




Record to Ultra Stream Internal Storage



Modify Storage Recording Parameters



1. From the device list, tap to enter the **SETTINGS** interface.
2. Set encoding parameters for storage recording.
 - i. Tap to enter **General > Record**.
 - ii. (Optional) Turn on **Auto-recording**. When the prompt window shows up, tap **YES**. By default, it is disabled.
After turning on the function, when a stable input signal is detected by the device, the unit will automatically record to the USB and/or storage according to the configuration.
 - iii. Tap **Record** to set parameters. Tap **Done** to save changes after modifications.
 - In normal recording mode, recording will stop automatically when the storage space is full. In the loop recording mode, the saved file is automatically overwritten with the newly generated one when the storage space is full.
Loop recording is supported when recording **To Storage**.
 - Note that a 4G or larger file is not allowed for an individual video clip.
3. Customize encoding parameters.
 - i. Tap to enter the **Encoding Parameters**.
 - ii. Tap **Record**, choose the main or sub stream, then tap .
 - iii. Customize encoding parameters for your choice.
 - To set **Customize Main Stream**.





- i. Turn on **Customize Main Stream**.
 - ii. Select proper resolution, frame rate, and bit rate, then tap .
 - iii. Tap to enter the **Advanced Set**, select code type, profile, keyframe interval, quantization, and bit rate statistics duration, then tap **Done**.
- To set **Customize Sub Stream**.
 - i. Tap **Edit Settings** below **Customize Sub Stream**.
 - ii. Select proper resolution, frame rate, and bit rate, then tap .
 - iii. Tap to enter the **Advanced Set**, select profile, keyframe interval, quantization, and bit rate statistics duration, then tap **Done**.
- iv. Tap **AAC Bitrate**, select proper parameter, then tap .

All audio streams will be affected by modifying the **AAC Bitrate**.

Start/Stop Recording

1. Do any of the following to start/stop recording.
 - From the device list, tap to enter the **REMOTE** interface, then tap the REC button .
 - Press the red REC button  located on the top panel of the device.

The recorded files are automatically saved.
2. Check the recording status on the right side of the **REMOTE** interface,

such as remaining time for  normal recording, total recording time for  loop recording.

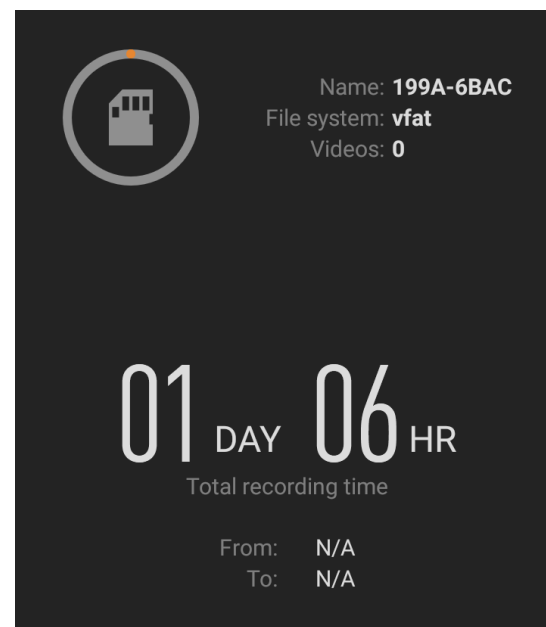
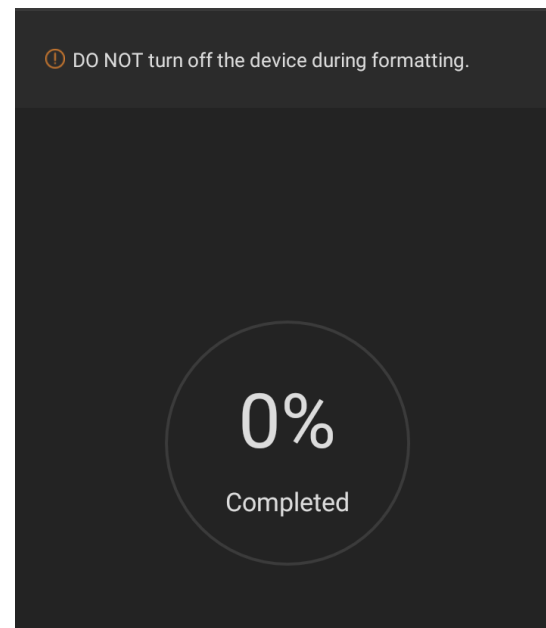


Figure1 Storage Info of loop recording mode

Format Storage

The Storage data cannot be recovered after formatting. Please be cautious.

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter **Storage**.
3. Tap to start **Format**.

When the prompt window shows up, tap **YES**.

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

Check Storage Info

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter **Storage**.
3. Check the USB info, such as **File system**, and **Free space**.
 - In Normal recording mode, Estimated remaining recording time will be shown.
 - In Loop recording mode, Total recording time will be shown.

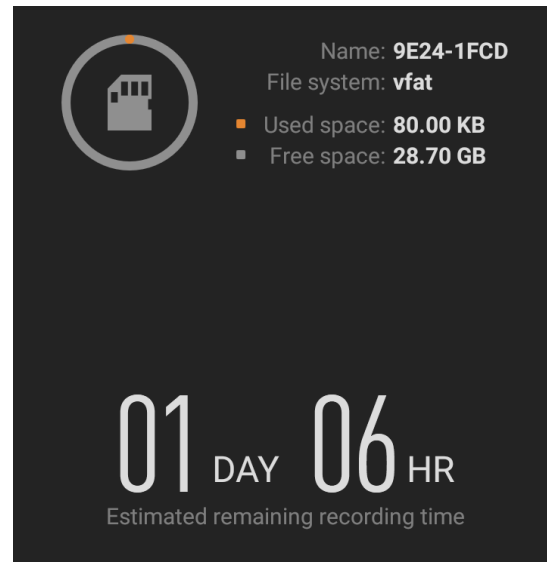
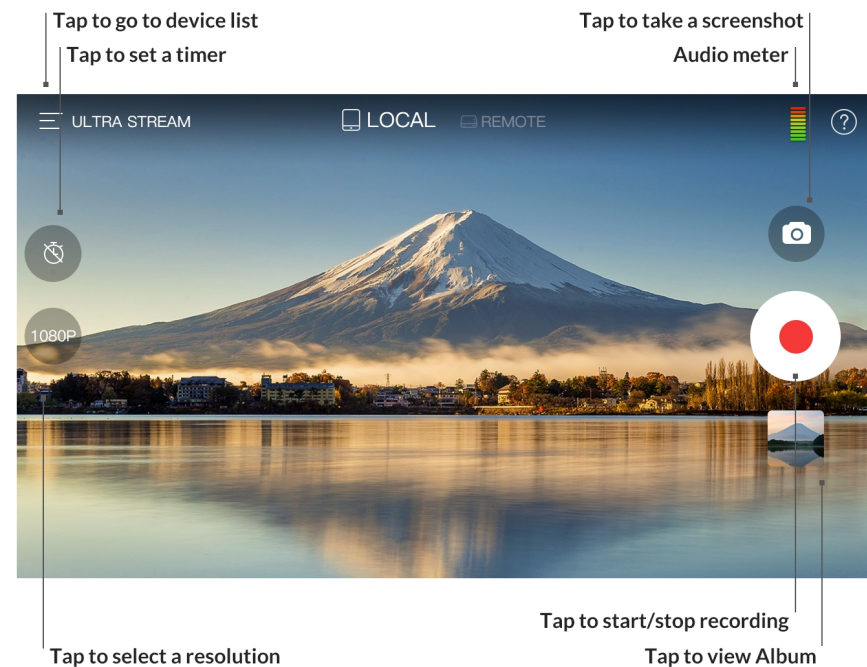



Figure2 Storage Info of normal recording

Record to Your Smartphone











Start/Stop Recording





1. From the device list, tap to enter the **LOCAL** interface.
2. Tap the record button  to start recording; tap again to stop recording. The recorded files are automatically saved in app and your local album, where you can view, share or delete files from.

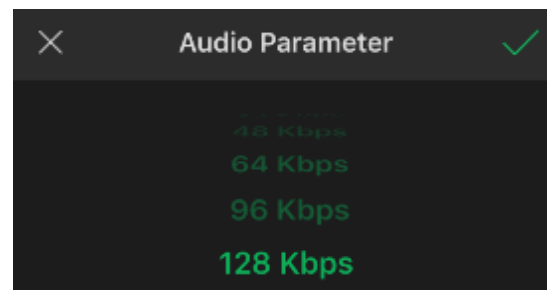
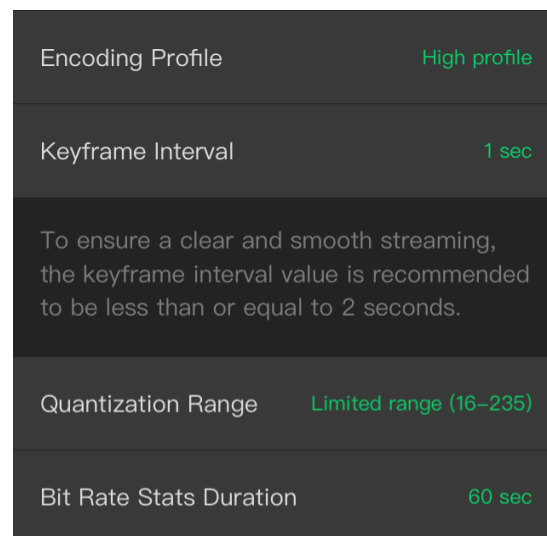
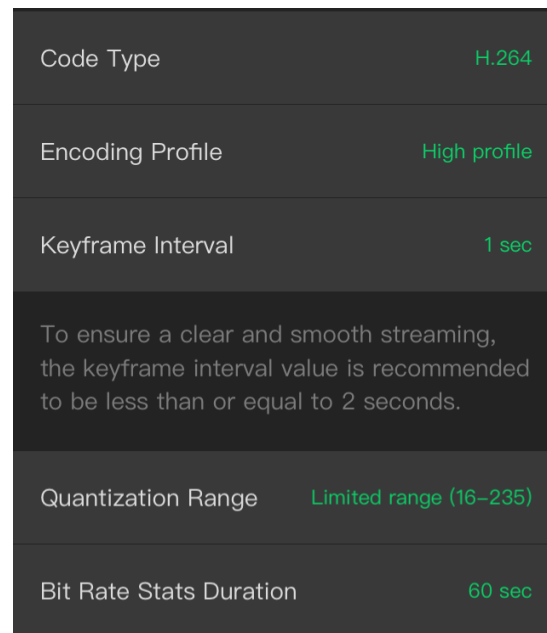
Make short Videos

The recorded videos are automatically saved in app and your phone photo library.

1. From the device list, tap to enter the **LOCAL** interface.
2. Tap to choose a timer       (unlimited).
3. Tap the recording button  to start recording and the countdown starts. When the countdown ends, the recording stops simultaneously, or you can interrupt the recording manually. While choosing the unlimited timer , you would have to stop recording manually.

Modify Recording Resolution


1. From the device list, tap to enter the **LOCAL** interface.
2. Tap to choose a recording resolution     .
By default, recording videos to your smartphone use the encoding parameters of sub stream, and the resolution set here should be smaller than or equal to the sub stream resolution.



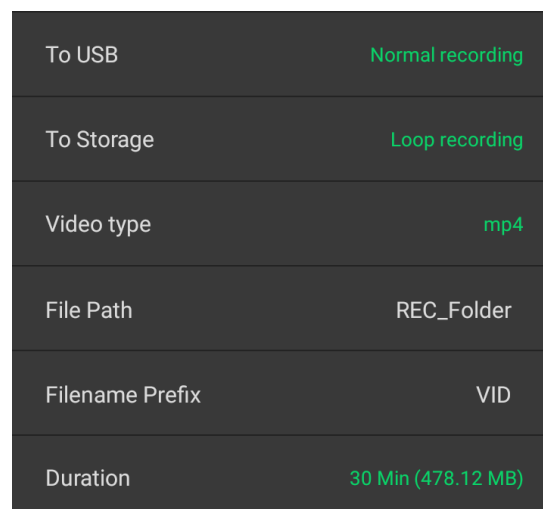
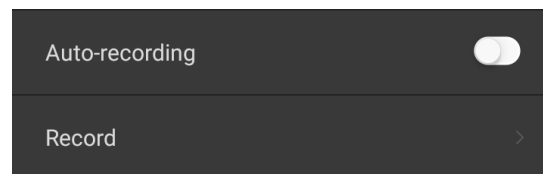
Modify Preview Encoding Parameters

1. Tap to enter **General**.
2. Tap to enter the **Encoding Parameters**.
3. Tap **Preview**, choose the main or sub stream, then tap ✓.
4. Customize encoding parameters for your choice.
 - To set **Customize Main Stream**.
 - i. Turn on **Customize Main Stream**.
 - ii. Select proper resolution, frame rate, and bit rate, then tap ✓.
 - iii. Tap to enter the **Advanced Set**, select code type, profile, keyframe interval, quantization, and bit rate statistics duration, then tap **Done**.
 - To set **Customize Sub Stream**.
 - i. Tap **Edit Settings** below the **Customize Sub Stream**.
 - ii. Select proper resolution, frame rate, and bit rate, then tap ✓.
 - iii. Tap to enter the **Advanced Set**, select profile, keyframe interval, quantization, and bit rate statistics duration, then tap **Done**.
5. Tap **AAC Bitrate**, select proper parameter, then tap ✓.
All audio streams will be affected by modifying the **AAC Bitrate**.

Take a Screenshot



1. From the device list, tap to enter the **LOCAL** interface.
2. Tap the screenshot button  in the upper right side of the interface. Screenshots are automatically saved in app and your local album, where you can view, share or delete files from.

Record to USB Flash Drive



Start/Stop Recording

⚠ Plug in a USB flash drive in your encoder before recording.

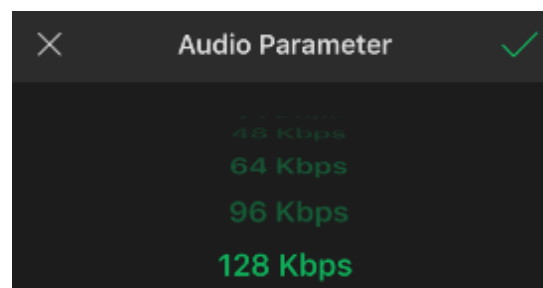
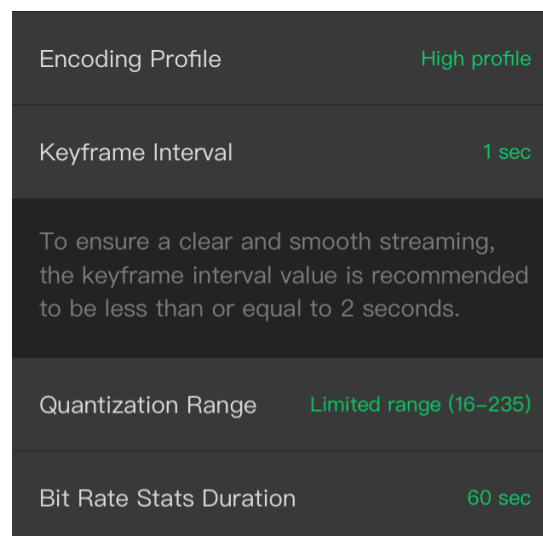
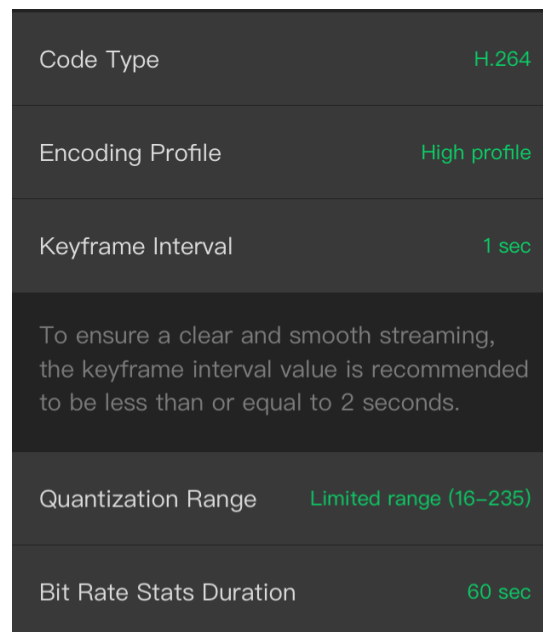
- Do any of the following to start/stop recording.
 - From the device list, tap to enter the **REMOTE** interface, then tap the REC button .
 - Press the red REC button  located on the top panel of the device.

The recorded files are automatically saved.
- Check the recording status on the right side of the **REMOTE** interface, such as recording time and USB remaining time.

Modify Encoding Parameters

By default, recording to USB uses the encoding parameters for main stream.

- From the device list, tap to enter the **SETTINGS** interface.
- Set encoding parameters for storage recording.
 - Tap to enter **General > Record**.
 - (Optional) Turn on **Auto-recording**. When the prompt window shows up, tap **YES**. By default, it is disabled.
After turning on the function, when a stable input signal is detected by the device, the unit will automatically record to the USB and/or storage according to the configuration.
 - Tap **Record** to set parameters. Tap **Done** to save changes after



modifications.

- In normal recording mode, recording will stop automatically when the storage space is full. In the loop recording mode, the saved file is automatically overwritten with the newly generated one when the storage space is full.

Loop recording is supported when recording **To Storage**.

- Note that a 4G or larger file is not allowed for an individual video clip.

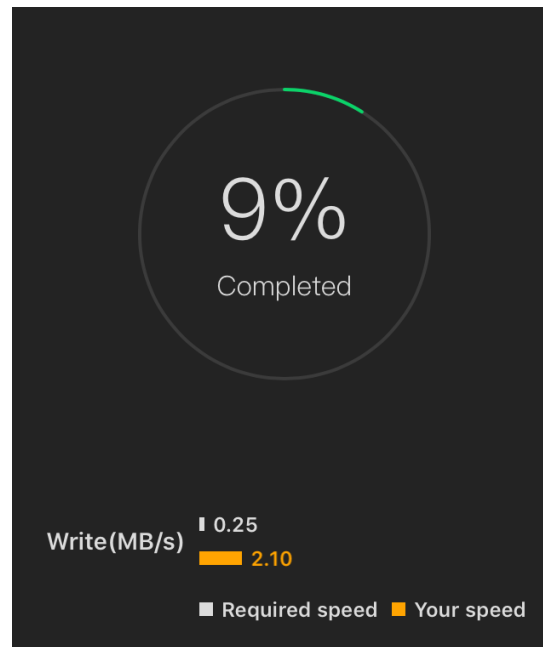
3. Customize encoding parameters.

- Tap to enter the **Encoding Parameters**.
- Tap **Record**, choose the main or sub stream, then tap ✓.
- Customize encoding parameters for your choice.
 - To set **Customize Main Stream**.
 - Turn on **Customize Main Stream**.
 - Select proper resolution, frame rate, and bit rate, then tap ✓.
 - Tap to enter the **Advanced Set**, select code type, profile, keyframe interval, quantization, and bit rate statistics duration, then tap **Done**.
 - To set **Customize Sub Stream**.
 - Tap **Edit Settings** below **Customize Sub Stream**.
 - Select proper resolution, frame rate, and bit rate, then tap ✓.
 - Tap to enter the **Advanced Set**, select profile, keyframe

interval, quantization, and bit rate statistics duration, then tap **Done**.

- iv. Tap **AAC Bitrate**, select proper parameter, then tap ✓.

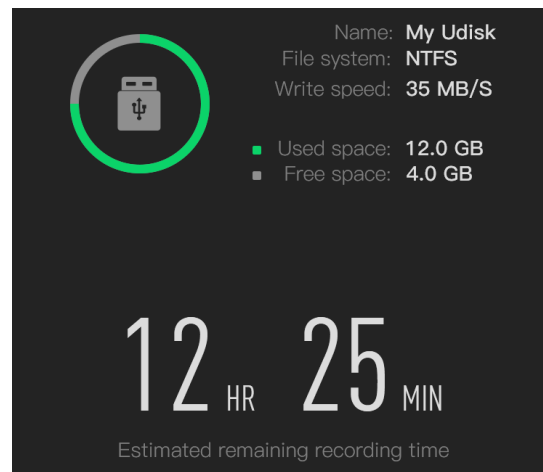
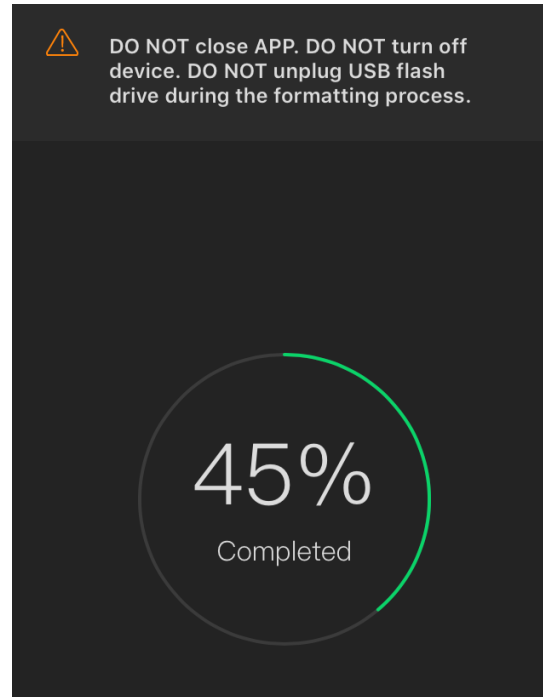
All audio streams will be affected by modifying the **AAC Bitrate**.



Test USB Performance

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.

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter **USB Flash Drive**.
3. Tap to start **Performance Test**.



Format USB

The USB Flash Drive data cannot be recovered after formatting. Please be cautious.

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter **USB Flash Drive**.
3. Tap to start **Format**.

When prompted, tap **YES**.

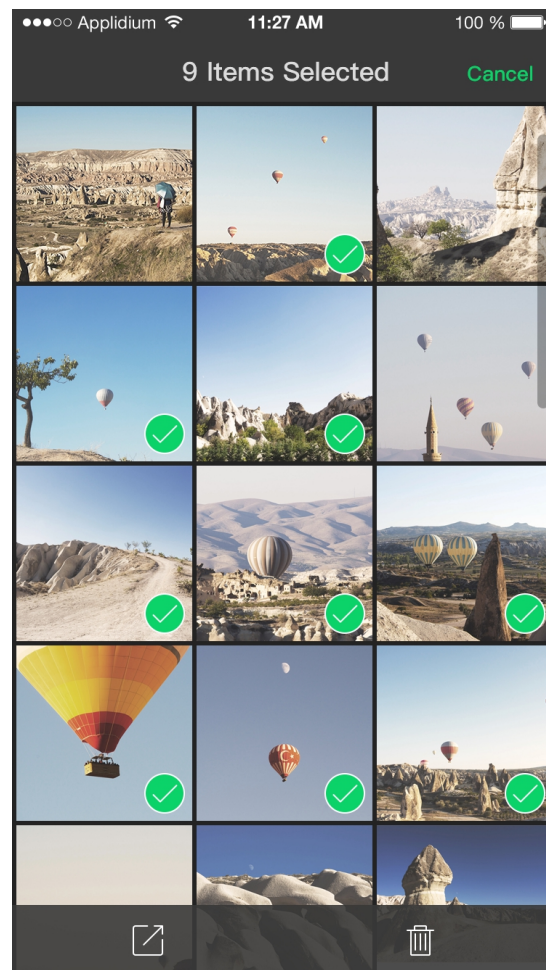
After formatting, the file system of USB will be changed to VFAT.

Check USB Info





It is recommended that you use a USB with the FAT32/VFAT file system.

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter **USB Flash Drive**.
Check the USB info, such as **File system**, **Free space**, and **Estimated remaining recording time**.




Manage Album



View Photos/Videos


1. To enter the **Album**, tap the icon  in the top left corner of the device list.
2. Do any of the following:
 - To view all files, tap .
 - To view all photos, tap .
 - To view all videos, tap .

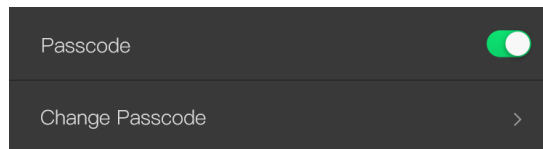
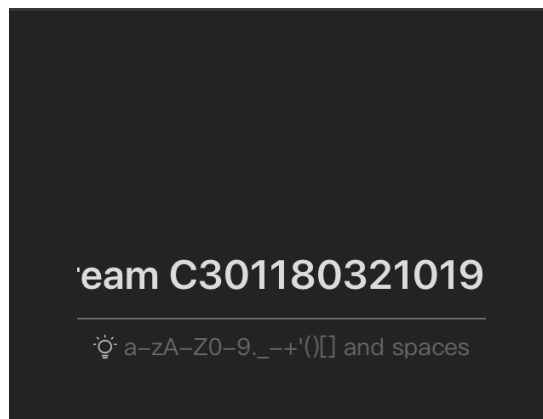
Delete Photos/Videos


1. To enter the **Album**, tap the icon  in the top left corner of the device list.
2. Tap **Select** in the top right corner of **Album**, then select one or more files you want to delete.
The green check icon  will be displayed in the bottom right corner of your chosen file.
3. Tap the trash button  and confirm to delete when prompted.


Share to other Apps

You can share your screenshots and videos directly to other apps.

1. To enter the **Album**, tap the icon  in the top left corner of the device list.
2. Tap **Select** in the top right corner, then select one or more files you want to share.



The green check icon  will be displayed in the bottom right corner of your chosen file.

3. Tap the share button , choose the app you are willing to share, then follow the on-screen instructions to proceed.

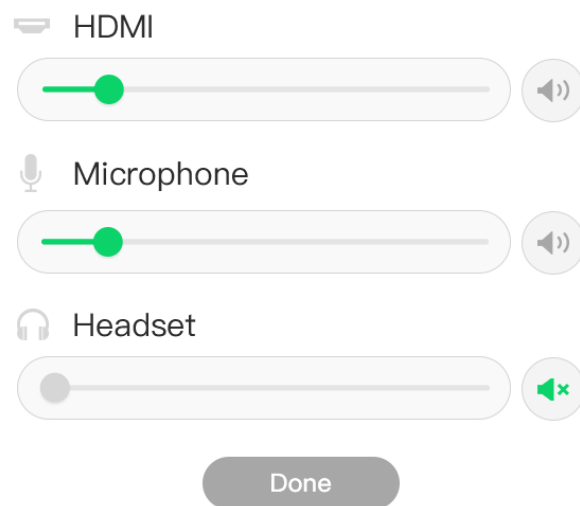
Modify Device Name

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter the **General** settings.
3. Tap the **Device Name** and enter a new name.

Change Device Password

1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter **General** settings.
3. Set passcode.
 - To set passcode for the first time: turn on the **Passcode**. Enter and verify your passcode.
 - To change device passcode: the **Passcode** has turned on, tap **Change passcode**. Enter old passcode, enter your new passcode, and then verify your new passcode.
 - To turn off **Passcode**, you need to enter your passcode to confirm.




SSID	C301180321019
AP Password	80321019



Modify AP Passcode

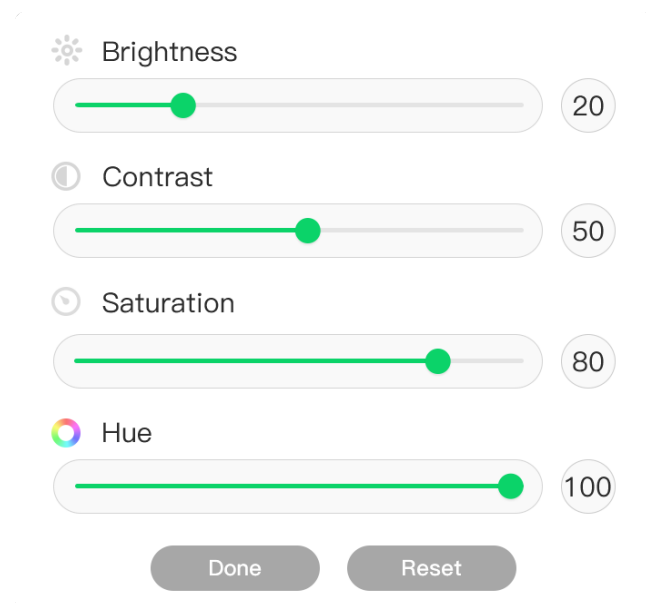
1. Tap to enter **AP**.
2. Tap **AP password**, enter new password.
The password contains 8 to 16 characters, including lowercase letters (a-z), uppercase letters (A-Z), numbers (0-9), special symbols (. _ - + ' [] ()) and spaces.
The default AP password is the last eight numbers of the device serial number.
3. Tap **Done** to save changes.

Control Volume



1. From the device list, tap to enter the **REMOTE** interface.
2. Tap the audio button  in the top right corner.
3. Tap the on  /mute button  to control the audio input/output of each channel.

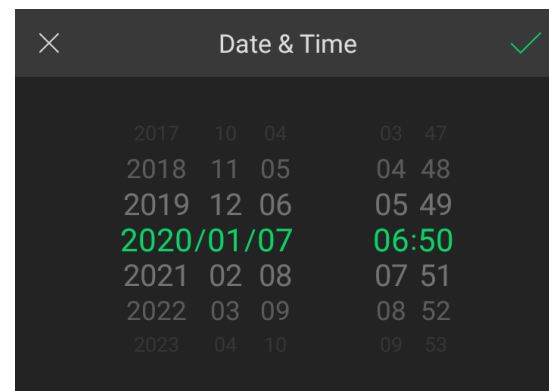
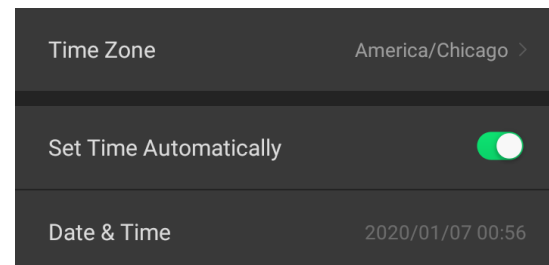
Drag the volume slider  left or right to change the volume level.

- HDMI/SDI: control the input audio signal.
- Microphone: control the audio of the microphone connected to the encoder.
- Headset: control the audio of the headphone connected to the encoder.




Modify Color Space

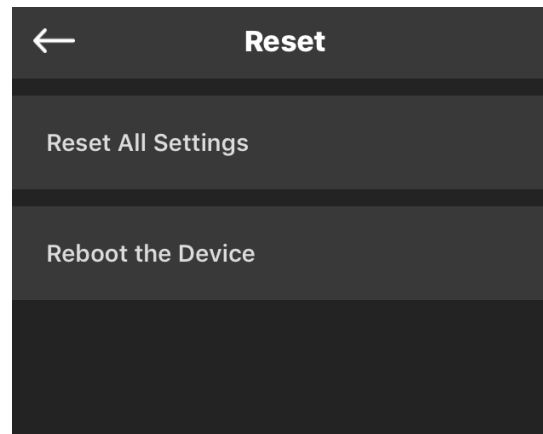
1. From the device list, tap to enter the **REMOTE** interface.
2. Tap the color icon  in the top right corner.
3. Drag the slider  left or right to change the Brightness, Contrast, Saturation and Hue.
4. Tap **Done** to save changes.
5. (Optional) Tap **Reset** to restore to the default values.



Modify Date & Time

1. From the device list, tap to enter the **SETTINGS**.
2. Tap to enter **General > Date & Time**.
3. Tap to choose your **Timezone**.
4. Set **Date & Time**.
 - **Auto:** Turn on **Set Time Automatically**. Then the device's time will be synchronized to the world-time servers depending on the timezone you set.
 - **Manual:** Turn off **Set Time Automatically**, tap **Date & Time**, specify the date and time, then tap .

Reset



Reset All Settings

When you forget your device password, you can reset it with this function.

⚠ Warning: Resetting your device will lose all your configuration data.

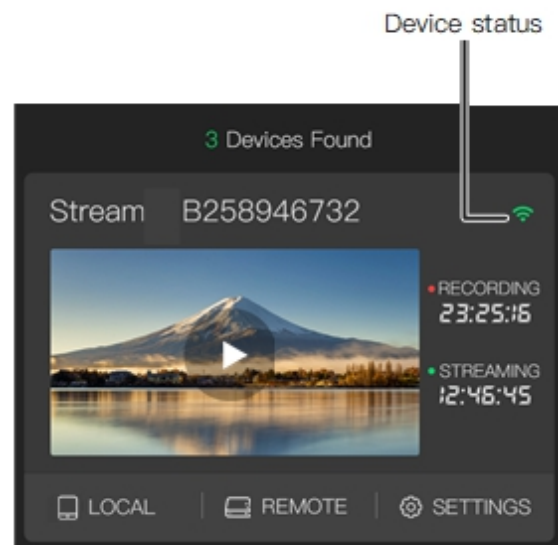
1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter the **General** settings.
3. Tap **Reset > Reset All Setting**.
When prompted, tap **Confirm**.

Reboot the Encoder












1. From the device list, tap to enter the **SETTINGS** interface.
2. Tap to enter the **General** settings.
3. Tap **Reset > Reboot the Device**.
When prompted, tap **Confirm**.

Check Device Status

Device list displays encoders discovered by the Ultra Stream app and is pull-to-refresh. Multiple users (at most 2 users) can log in the same streamer through the mobile App client simultaneously. You can check device status in the **Device list** interface.



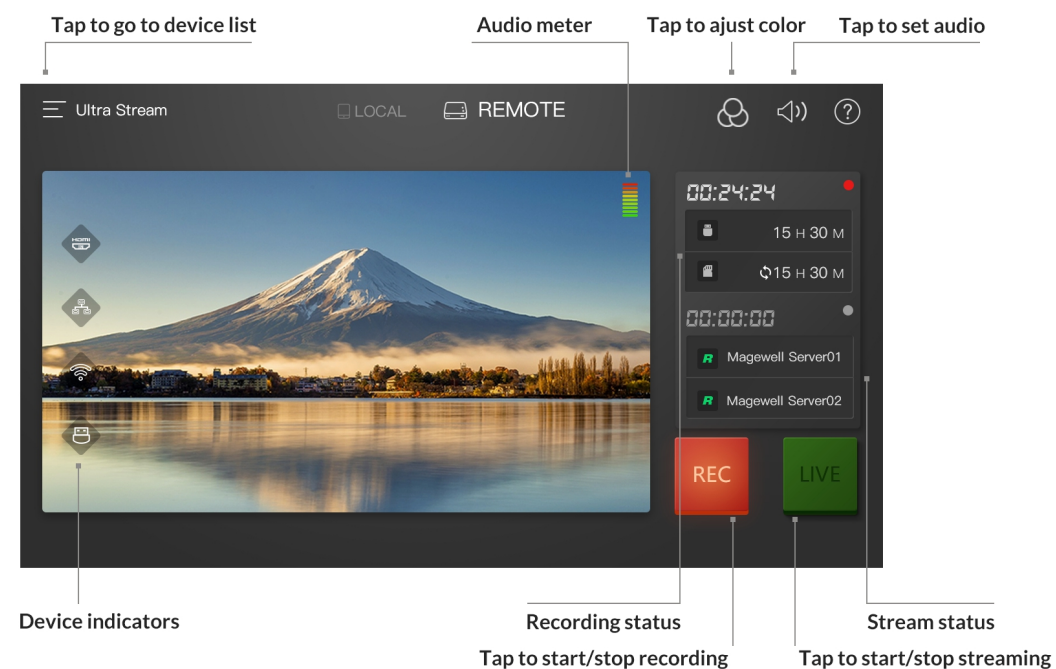
Icons in the upper right corner of devices indicate the detection type and pair mode between encoder and app. Descriptions of icons are as follows.

-  : Detected via Wi-Fi, paired¹. According to the Wi-Fi signal strength, it is displayed as: strong , medium , weak .
-  : Detected via Wi-Fi, unpaired².
-  : Detected via AP mode, paired¹.
-  : Detected via AP mode, unpaired².
-  : Detected via Ethernet, paired.
-  : Detected via Ethernet, unpaired.
-  : Detected via Bluetooth, unpaired.
-  : Offline.






1. Being paired indicates the encoder either has no passcode or a passcode has been correctly entered in the app before. The encoder is ready to record and stream.
2. Being unpaired indicates the encoder has a passcode but the passcode has not been entered correctly in the app. You can proceed to the next step according to the on-screen instructions.

Check Record and Streaming Status

In the **REMOTE** interface, users can check recording status including recording time, available USB storage (shown as available time for recording); streaming status including streaming time, streaming server address, streaming speeds, etc. Users can start/stop streaming or recording videos to the USB flash drive in this interface.



Descriptions of encoder indicators are as follows.



-   HDMI/SDI IN: Light being on indicates input signal is detected; pulsing slowly indicates input signal is not detected.
-  Ethernet: Light being on indicates Ethernet is connected; pulsing slowly indicates Ethernet is disconnected.
-  Wi-Fi: Light being on indicates network is detected; pulsing slowly indicates network is not detected.
-  USB: Light being on indicates USB is available; pulsing slowly indicates there is insufficient storage on the USB.


Descriptions of stream status are as follows.

- Resolving DNS: Indicates that domain name resolution is being performed on the live streaming address.
- Connecting: Indicates that the encoder is connecting to the live streaming server
- Waiting: Indicates the previous connection to the streaming server failed, and the encoder is trying to reconnect.
- Authenticating: Indicates the encoder has connected to the live streaming server and live authentication is in progress.
- Authentication Failed: If you connect the encoder to an RTMP server, make sure your authentication settings are correct; if you connect the encoder to

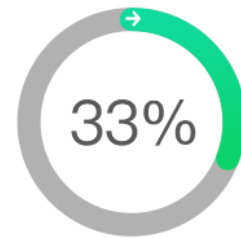
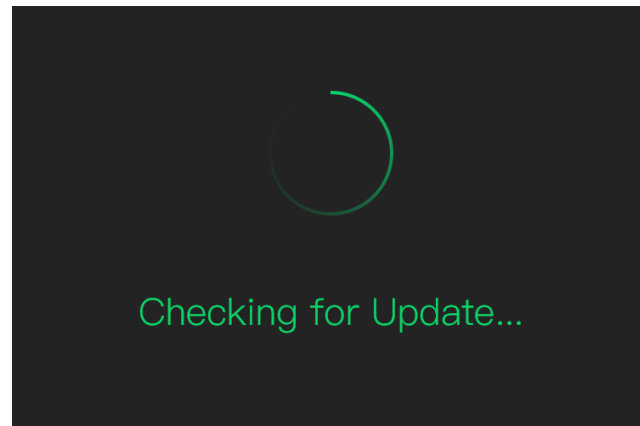
a live streaming video platform, you can log out and re-log in.

Table 3 Descriptions of recording status

-  Shows the status of recording to USB.
-  Shows the status of Record to storage.


 indicates the device is loop recording, which means that when the storage is full it will overwrite the oldest footage with the new stuff being recorded. Otherwise, it shows the estimated remaining recording time in normal recording mode.


Update Firmware



DOWNLOAD INSTALL REBOOT

You can update your encoder firmware version to get better performance.

1. From the device list, tap to enter the **SETTINGS** interface.
If there is a new version available, the icon  will be displayed at the end of **Firmware Update** line.
2. Tap **Firmware Update** and the unit will automatically detect if there is a new version.
3. Tap **Update Now**, and confirm to update.

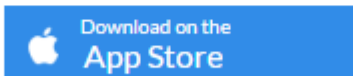
 During the update, please do not disconnect the network, and do not exit the application.

4. The encoder will restart after the update.

FAQ



Ultra Stream



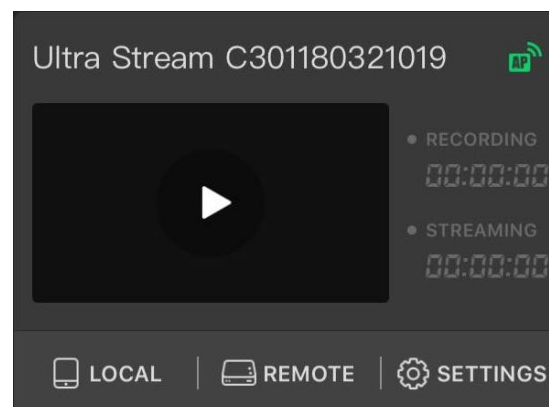
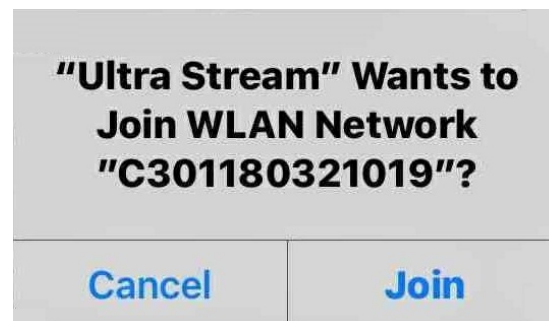
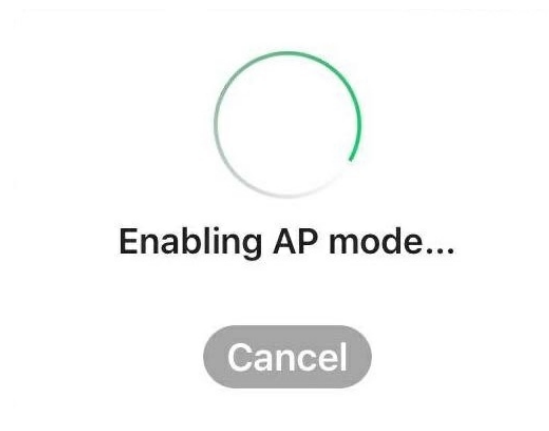
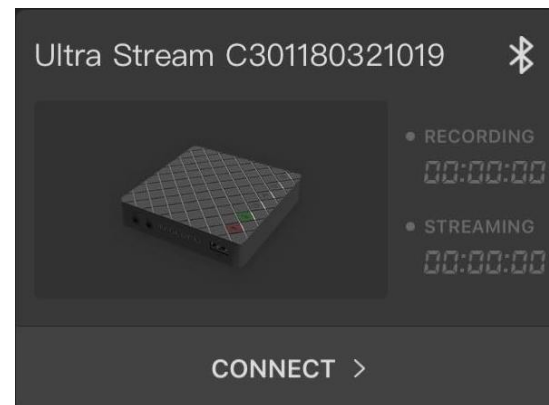
TCP and UDP Ports Used By Ultra Stream

Network administrators can use this information to make sure that your Ultra Stream can connect to services such as the streaming servers through your LAN firewall.

- TCP port: 21, 80, 2019, 2020
- UDP port: 2538

How to install the free Ultra Stream client App

- For Android
 1. Scan the QR code: go to the Magewell official download path to save and install the apk file.
 2. Google Play Store: search **Ultra Stream** or **Magewell**.
 3. Official Download Page: type in the web address(URL) in your browser go to the Magewell official landing page:
<https://www.magewell.com/products/ultra-stream-hdmi>
- For iOS, search **Ultra Stream** or **Magewell** in the App Store to download the Ultra Stream App.



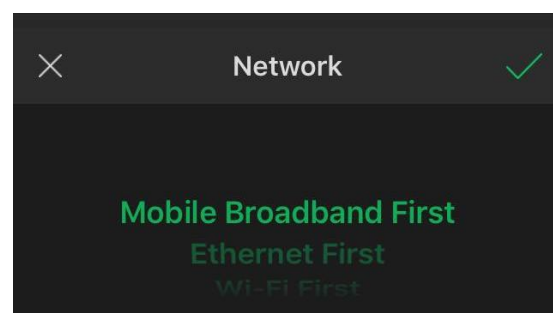
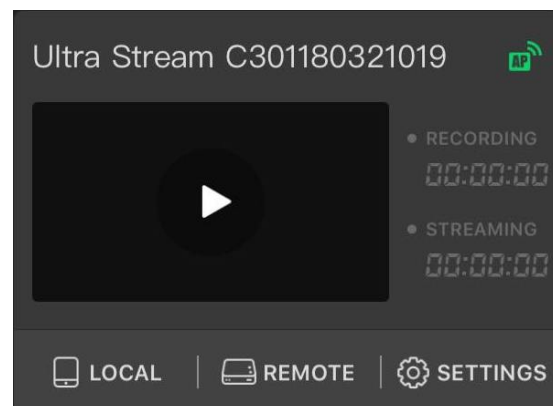
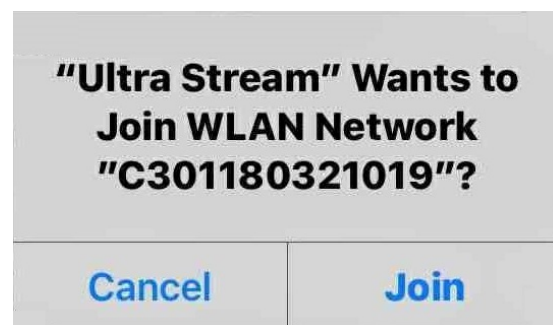
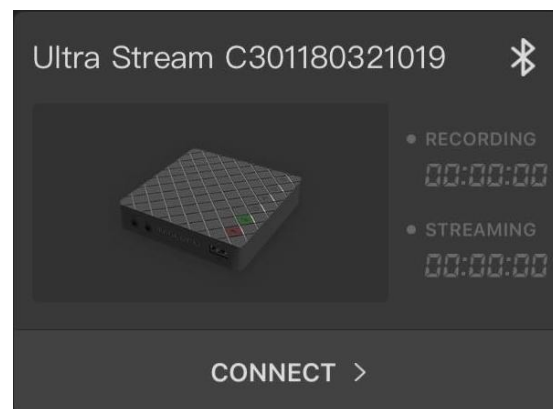
What can a Wireless Access Point Do for You

When there is no Wi-Fi network available, turning on the AP mode allows you to control your device through the Ultra Stream app in your smartphone.

How to turn on the Wireless AP mode of Ultra Stream

You can turn on the AP mode of the encoder in your Ultra Stream app to make your unit an Access Point, if there is no Wi-Fi in your working environment. The encoder can communicate with the wireless clients, such as your smart phone, ipod, etc.

1. Turn on Wi-Fi and Bluetooth on your phone, and make your device discoverable to nearby devices.
 - Turn on Location Services and authorize to the app for Android 6.0 and above.
 - Your phone and encoder must be close to each other (less than 10m apart).
2. Download and launch **Ultra Stream** app, searching for devices.
3. Select your device and tap **CONNECT** to enable the AP mode.
4. Tap **Join** to access the AP.



How to turn off AP mode

Do any of the following to turn off AP mode.

- Reboot your device to recovery from AP mode to Wi-Fi mode.
- In the Ultra Stream app, go to **SETTINGS** > **Wi-Fi**, turn off the AP mode.
- If you have a Wi-Fi network available now, you can connect your phone to the new Wi-Fi, and then configure the encoder to connect to the same Wi-Fi.
- Double click the green "LIVE" button on the device panel.

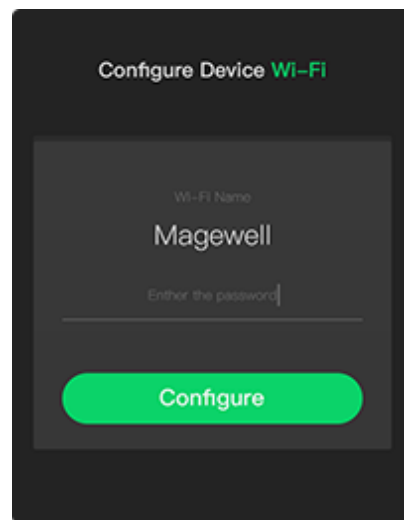
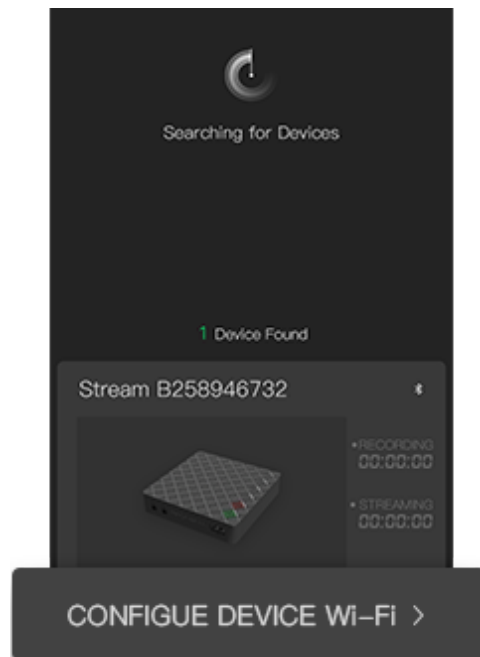
Use Mobile Broadband to Live Stream

This feature is especially designed for users who don't have Wi-Fi or Ethernet network. Instead, the device will be connected to the network via a 3G/4G USB modem. It gives you more flexibility in accessing the Internet so that you can stream your sessions anywhere at anytime.

1. Plug a USB modem, the power cable, and input signal into your encoder.
2. Turn on Wi-Fi and Bluetooth on your phone, and make your device discoverable to nearby devices.
 - Turn on Location Services and authorize to the app for Android 6.0 and above.
 - Your phone and encoder must be close to each other (less than 10m apart).
3. Download and open **Ultra Stream** app, searching for devices.
4. Connect the unit via AP Mode.

- i. Select your encoder and tap **CONNECT**.
 - ii. Enter the device passcode in **Pair to device**, if the encoder has a passcode.
5. Stream through USB Modem.
 - i. From the device list, tap to enter the **SETTINGS > Streaming Server**, add the platform for live streaming.
 - ii. Enter **URL**, **Stream Key**, choose the Mobile Broadband as the prime network, click **Done**.

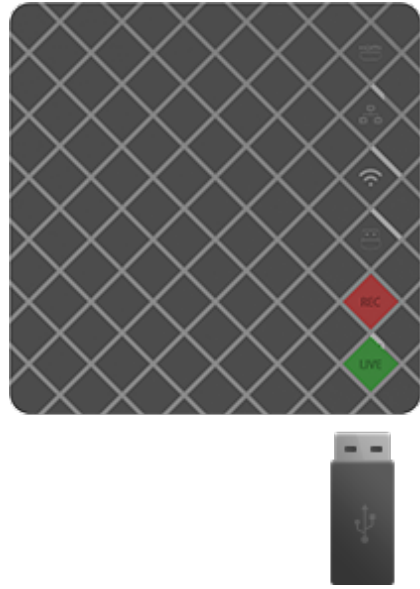
By default, the network connection priority is: Mobile Broadband > Ethernet > Wi-Fi. The device scans the available network according to the order and connect to it for streaming. If the current network is disconnected, the unit automatically re-scans according to the priority.
6. Press the **LIVE** button located on the top panel of the device to start streaming.



How to connect to a Wi-Fi using bluetooth

Using bluetooth to connect the encoder to a Wi-Fi at the first connection. When the same Wi-Fi is connected again, it can automatically connect without configuration.

1. Turn on the Bluetooth and Discoverable, turn on WLAN and Authorize Location Service, power on the encoder.
2. Download and open Ultra Stream app, searching for devices.
3. Tap **CONFIGURE DEVICE Wi-Fi**.
4. Type in the Wi-Fi password, then tap **Configure**.



How to record videos to a USB flash drive

Record videos to a USB flash drive to achieve while streaming, and monitor the recording process by loopthrough or the supporting application named Ultra Stream app.

1. Plug the video source and USB flash drive, power up the encoder.
2. Start recording by pressing the red REC button, after the encoder startup.
3. (Optional) Mirror the recording process by loopthrough or watching the **REMOTE** interface in the ultra stream app.

How to Fix "Previous USB recording error"

1. Re-plug the USB flash drive into your encoder.
2. Replace the USB flash drive with a [recommended new USB flash drive](#).
3. [Reboot the encoder](#).
4. Contact your dealer for technical support or after-sales service.
5. Contact Magewell Technical Support at support@magewell.net.

Will Ultra Stream encoder add support for 4G-LTE USB wireless modems for live streaming?

This feature is supported since the v1.1.4159 release.

Can the Ultra Stream encoder be used as a USB capture device?

No. The Ultra Stream encoder is a standalone offline encoding device. It cannot be connected to the host via a USB port for use as a capture device.

Does the microphone jack of Ultra Stream HDMI only support mono audio?

Yes. It only supports mono audio input.

Does the Ultra Stream encoder support Wi-Fi that requires web page authentication?

No.

What to do if I forget the passcode of Ultra Stream encoder?

Do any of the following method to reset your device. Then the device passcode will be erased and other parameters will be reset to the default value.

- In the Ultra Stream app or Web UI, select **SETTINGS > General > Reset > Reset All Settings**.
- Long-press the red REC button on the Ultra Stream encoder for 5 seconds until all the lights on it turn on at the same time. Then the device will be reset to its original configuration.

Does the microphone jack of Ultra Stream HDMI support both microphone and headphone?

No. It only supports microphones.

Can I use the functions of recording videos to usb flash drive and live streaming at the same time?

Yes. In the Ultra Stream app, the following three functions can be used at the same time:

- Record videos to your smartphone
- Record videos to a USB flash drive
- Record videos to device internal storage
- Live stream

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

No. When the Ultra Stream encoder streams live video to two servers at the same time, you must apply either main stream or sub stream on the two channels of video stream at the same time.

Does the microphone jack of Ultra Stream HDMI support linear level audio input?

Yes. But the volume of the captured audio will be very high.

Can Ultra Stream encoder stream live video to multiple servers at the same time?

The Ultra Stream encoder can simultaneously stream live video to two servers at most unless the stream server prohibits users from streaming video to it and other servers at the same time.

Can I set one live stream server to use mobile broadband and the other to use Ethernet?

Yes. When the Ultra Stream encoder streams live video to two servers at the same time, you can apply different network connection as prime network for the two servers respectively, such as to set one live stream server to use mobile broadband and the other to use Ethernet.

Fail to start Ultra Stream encoder because of using the wrong power connector

- If you are using products made before November 2018, the power chip of your Ultra Stream encoder may have been burned and needs to be returned to the factory for repair or replacement.
- The hardware design of products made in or after November 2018 have been refined. Even if the wrong power connector is used, there will be no physical damage to the equipment.

What is the encoding format for live broadcast?

For now, we use CBR (constant bitrate) encoding, which is most commonly used for streaming video content using the Flash Media Server (rtmp). The fixed keyframe interval is 2s, and the bitrate of video indicates the average number of frames sent in the previous 60s. The **Code Type** and **Keyframe Interval** of encoding format can be modified in the **Settings > Encoding Parameters > Advanced Set** currently.

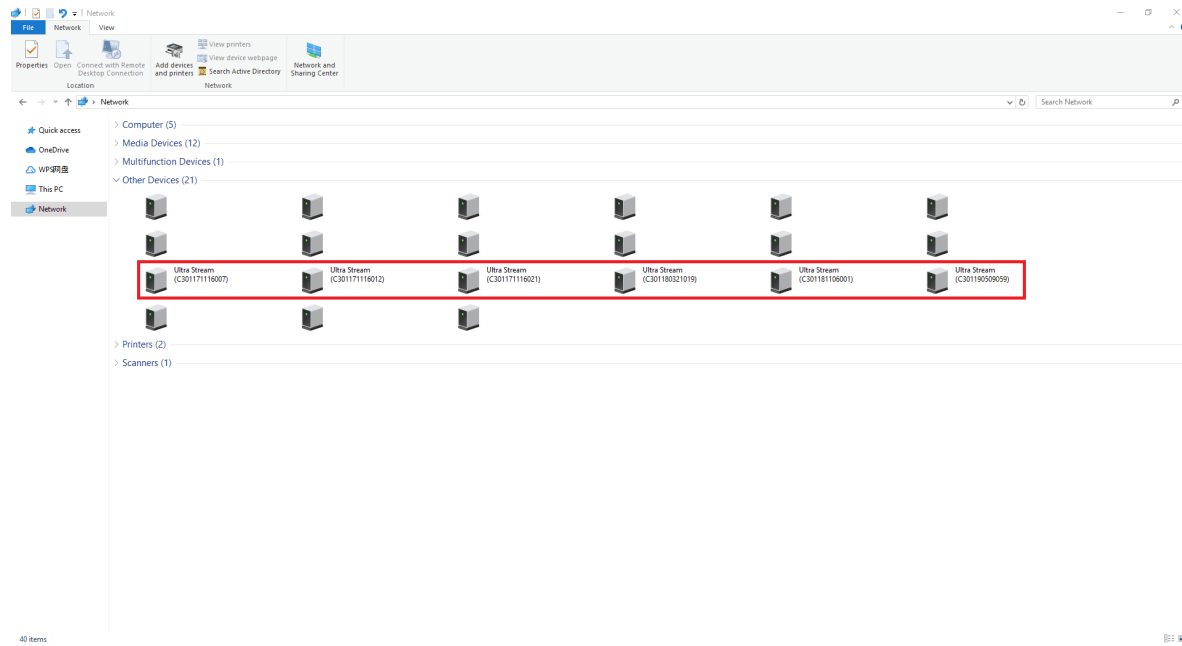
What to do if I forget the Web UI password?

You can refer to the following steps to reset the Web UI password to **Admin**.

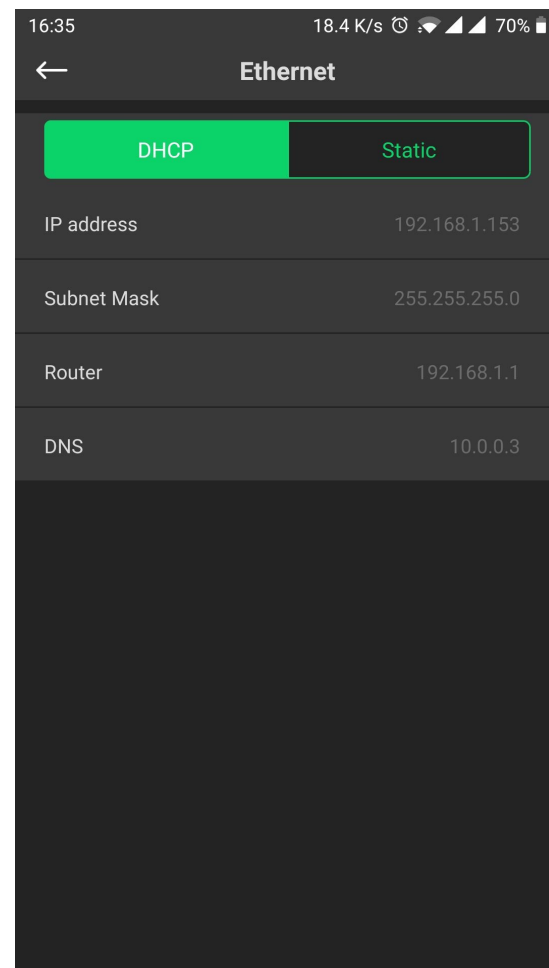
1. Do any of the following to reset all settings of your device.
 - In the Ultra Stream app, go to **SETTINGS > General > Reset**, tap the **Reset All Settings**.
 - Long press the Red REC button on the Ultra Stream device for 5 seconds until all indicators lighting up simultaneously. Then all configurations will restore to factory default value.
2. After the device recovery is complete, use the Ultra Stream app to re-configure your device.
3. Check the IP address of Wi-Fi or Ethernet in **SETTINGS**.
4. Enter the IP address in your PC browser, reconnect your device, open the Web UI and sign in with the default account:

User name: Admin

Password: Admin



Find your Ultra Steam device in the **Other Device** section



Ethernet IP Address

How to configure Ultra Steam via Web UI?

Ultra Steam allows you to set up and control it via a web-based user interface as an administrator account or a general user.

Make sure that at least one of the following web browsers is equipped in your system.

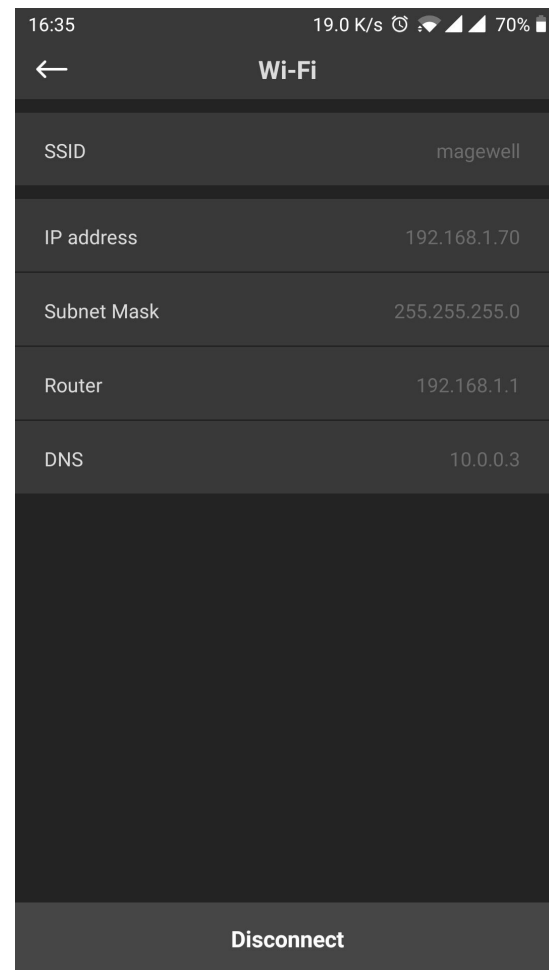
- Microsoft Internet Explorer 11
- Microsoft Edge
- Mozilla Firefox version 61 and above
- Google Chrome version 49 and above
- Apple Safari 11.1 and above
- Opera 55.0.2994.44 and above
- Method I: For Windows Users

For Windows 7/8/8.1/10 users, do the following steps to open the Web UI.

1. Open a **File Explorer** window.
2. Select the **Network**. Turn on the network discovery function if disabled.
3. Find your Ultra Steam device in the **Other Device** section, where the detected device will be shown as "**Ultra Steam + (serial number)**".
4. Double click the device icon to open the Web UI in your web browser.
5. Enter your account and password in the **SIGN IN** page, and configure the device after you log in successfully.

The default administrator account and password (case-sensitive) are as follows.

- Username: Admin

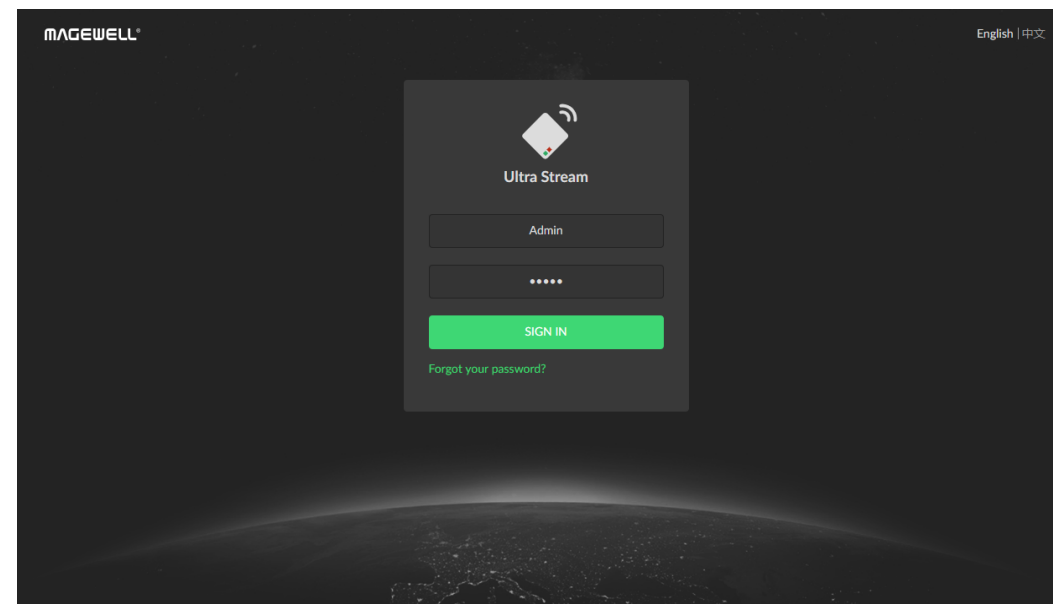


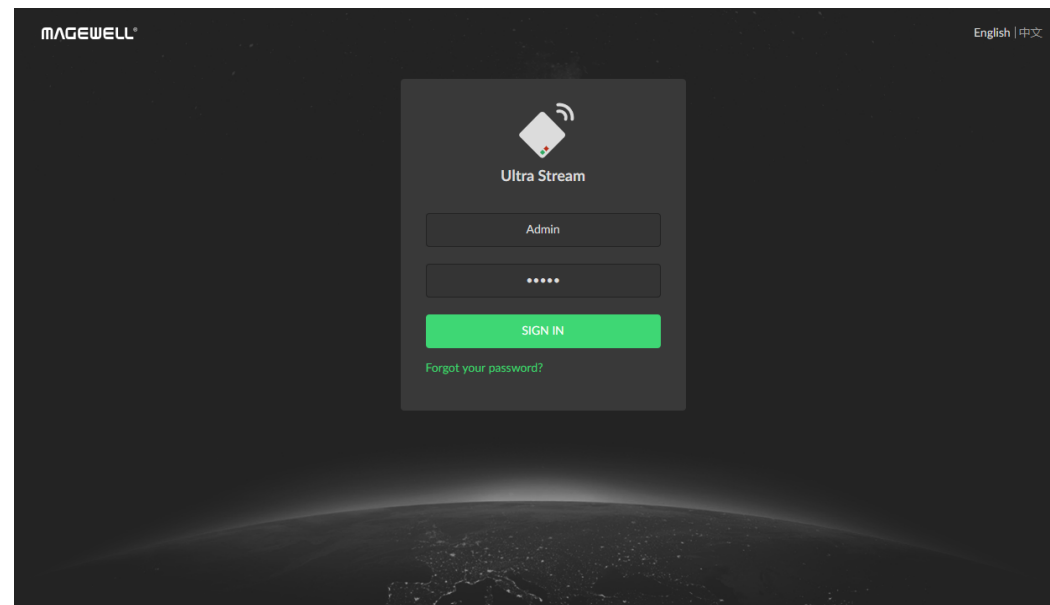
Wi-Fi IP Address

- Password:Admin
- Method II: For all users, using the IP address in the Ultra Stream app.
 1. Search the device in the Ultra Stream app with smart phone.
 2. Find the IP address in **Settings**.
 3. Input the IP address to a web browser in the same LAN. Then the web UI of your chosen device pops up.
 4. Enter your account and password in the **SIGN IN** page, and configure the device after you log in successfully.

The default administrator account and password (case-sensitive) are as follows.

 - Username: Admin
 - Password: Admin

Enter your account and password in the **SIGN IN** page

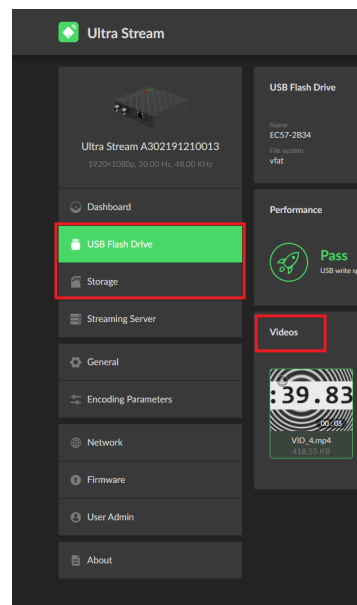


SIGN IN page

How to download recording files via Web UI?

Users can download files saved in USB flash drive and internal storage.

1. Log in the Web UI. The detailed steps refer to [How to configure Ultra Stream via Web UI](#)
2. Download files.
 - Click **USB Flash Drive**, download selected files in the **Files** section.
 - Click **Storage**, download selected files in the **Files** section.



Videos download

Support

Get the Latest Information

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

- Tutorial video: <http://www.magewell.com/tv>
- YouTube channel: [Magewell Video Capture Device](#)
- Knowledge base: <http://www.magewell.com/kb/ultra-stream>
- Official website: <http://www.magewell.com/ultra-stream-hdmi>

Technical Support

Contact the Magewell Technical Support Team at support@magewell.net.

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

How to get the limited warranty

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

decide to repair, Magewell will repair, renovate, or replace the components after receiving the maintenance costs. If purchasers give up repairing, Magewell will dispose of the faulty unit if the purchaser chooses that option.

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

To view the complete warranty policy, please visit www.magewell.com/quality-assurance.

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