

H.265&H.264 HDMI/VGA/SDI

Video Encoder User Manual

Model:

- EH901
- ES901
- EV901
- EH1201
- EH1301
- EHV101
- 1U Rack with video encoder
- 3U Rack with video encoder

(EN) Warning:

Prohibit unauthorized disassembly and repair.
Please store out of reach of children.

(FR) Avertissement :

Interdire le démontage et la réparation non autorisés.
Conserver hors de portée des enfants.

(DE) Warnung :

Unerlaubtes Zerlegen und Reparieren ist verboten.
Bitte außerhalb der Reichweite von Kindern aufbewahren.

(ES) Advertencia :

Prohíba el desmontaje y la reparación no autorizados.
Guárdelo fuera del alcance de los niños. Preste atención a la ventilación durante el uso para evitar altas temperaturas.

(IT) Avvertenze :

Vietare lo smontaggio e la riparazione non autorizzati.
Conservare fuori dalla portata dei bambini.

(NL) Waarschuwing :

Verbied onbevoegde demontage en reparatie.
Buiten bereik van kinderen bewaren.

(SE) Varning :

Förbjud obehörig demontering och reparation.
Förvaras oåtkomligt för barn.

(PL) Ostrzeżenie :

Zabroniony jest nieautoryzowany demontaż i naprawa.
Przechowywać poza zasięgiem dzieci.

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1) Overview

1.1 product description

It's a professional hardware video and audio encoder. Which designed to meet the HD/1080P@60 Video transmission applications. It supports H.265 (HEVC)/H.264 high-performance encoding. Also, it supports the most protocols including HTTP/SRT/RTMP/RTMPS/HLS/UDP/RTSP/ONVIF, etc.

It's high integration and cost-effective design make this device widely used in the variety of field such as CATV digital head-end, hotel IPTV system, live streaming broadcast, streaming media server etc. Also, the encoder works with the online live broadcast platform, such as YouTube, Ustream, Twitter, WOWZA, Facebook Live, etc.

1.2 product picture



▲ZY-EH901



▲ZY-ES901





▲ZY-EV901



▲ZY-EHV101



▲ZY-EH1201



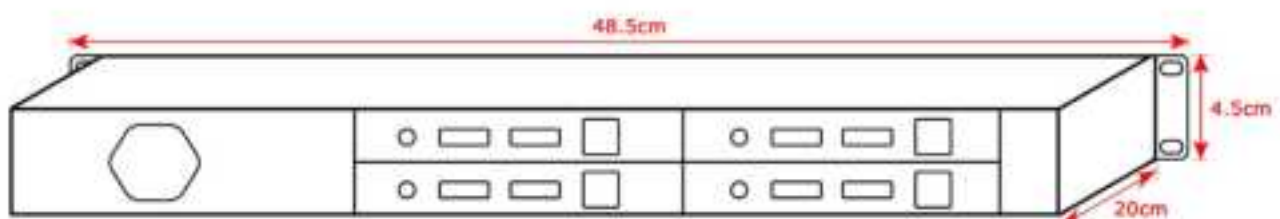
▲ZY-EH1301

1.3 1RU/3RU Rackmount

ORIVISION rackmount series include 1RU or 3RU rack-mounted frame, freely mixed with 4 channels (1RU), 16 channels (3RU) HDMI/SDI/VGA/CVBS encoder modules. It comes with redundant power modules, centralized heat dissipation, ensuring longtime stable operation, and benefits your IP video deployments of any size and complexity.



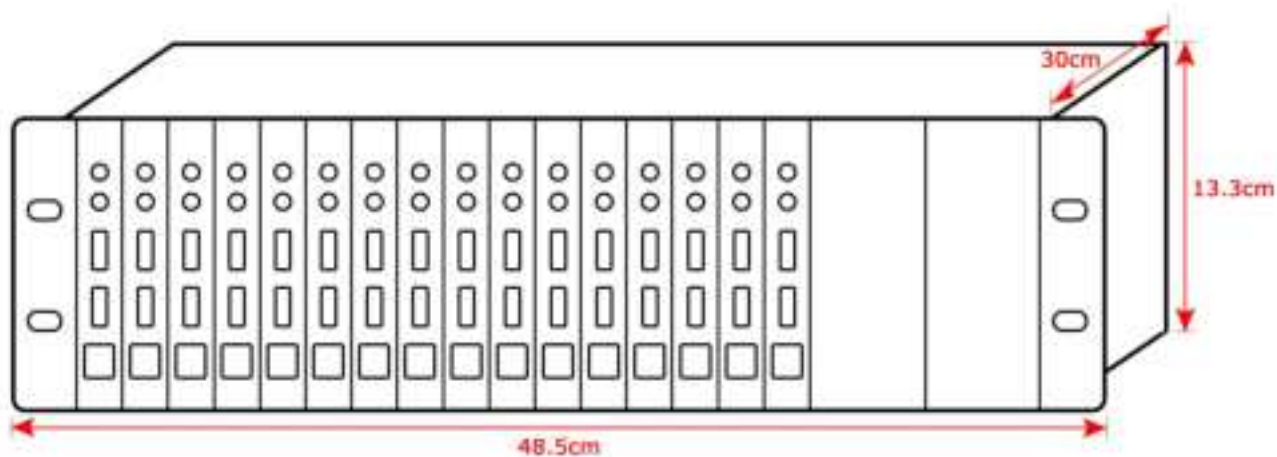
▲1U Rackmount



▲ 1U Rackmount-Size



▲ 3U Rackmount



▲ 3U Rackmount-Size

2) Initial installation connection

2.1 Connect power

Use the standard power adaptor (DC12V/1A) connected to the device. The power light will be always on after the device is powered on.

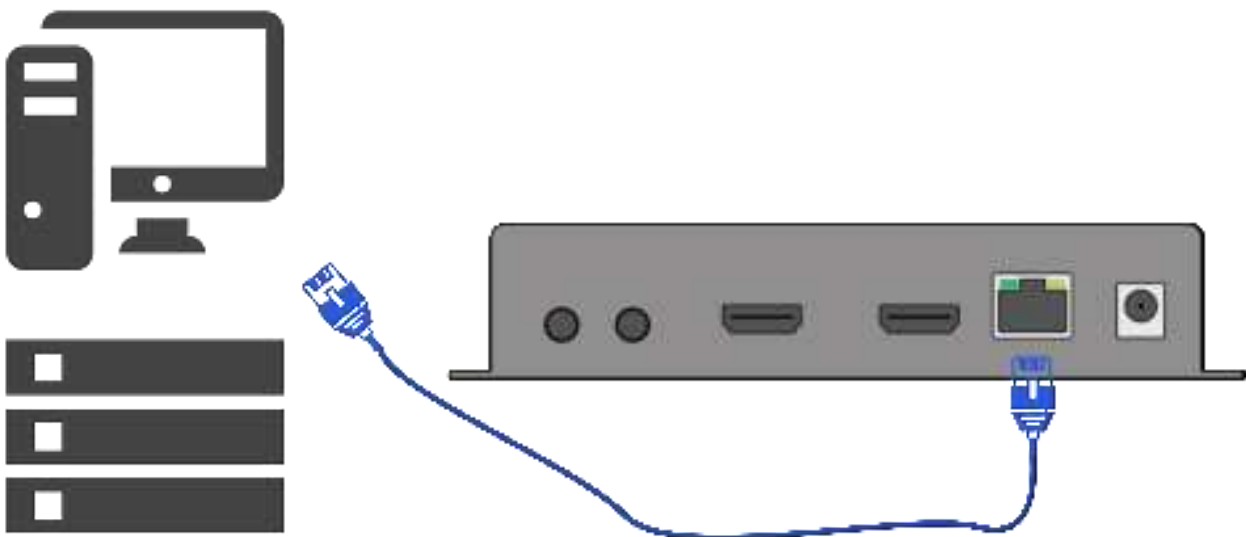


Note

Please use the standard power adaptor provided. Using other unqualified power supplies may damage the device.

2.2 Connect the encoder to user's computer directly

▼ Connect the encoder and the computer directly through the network cable.



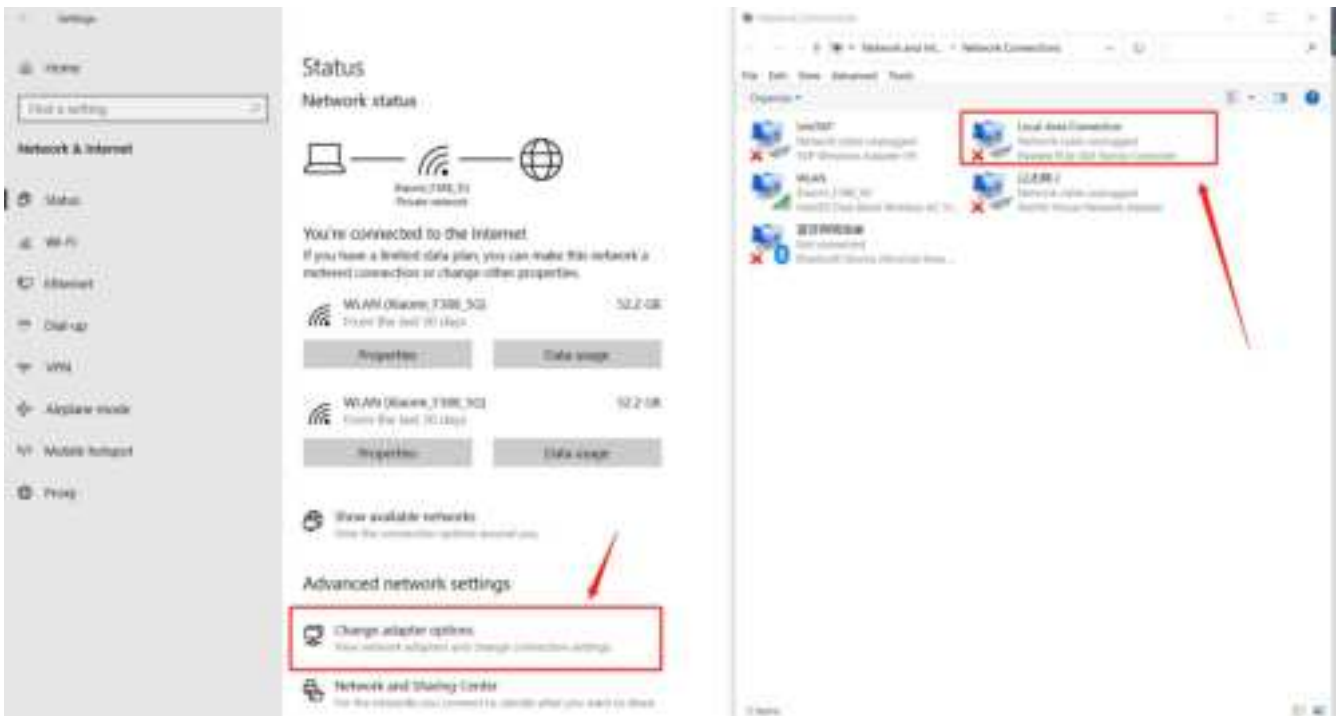
2.3 Log in the control web with 192.168.0.31

According to the above steps, after connecting the encoder to the computer with a network cable.

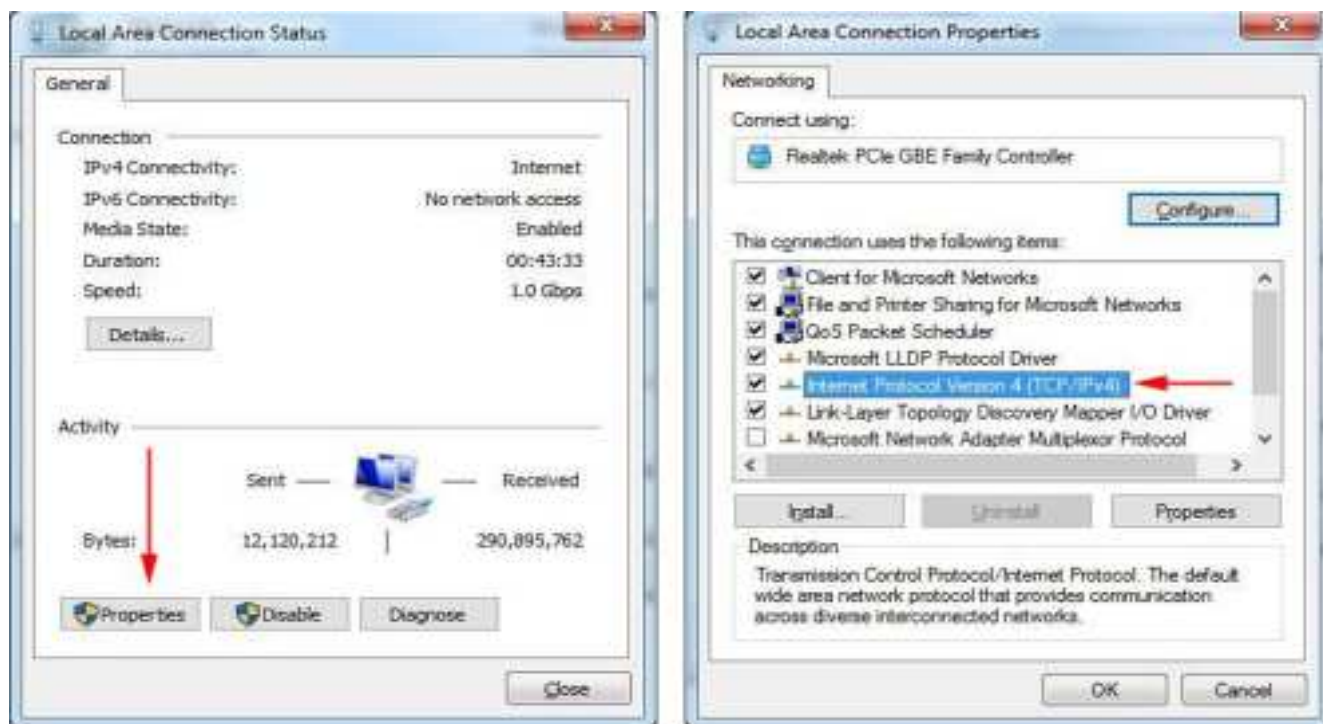
▼ Setp1: find the "Network & Internet Settings"



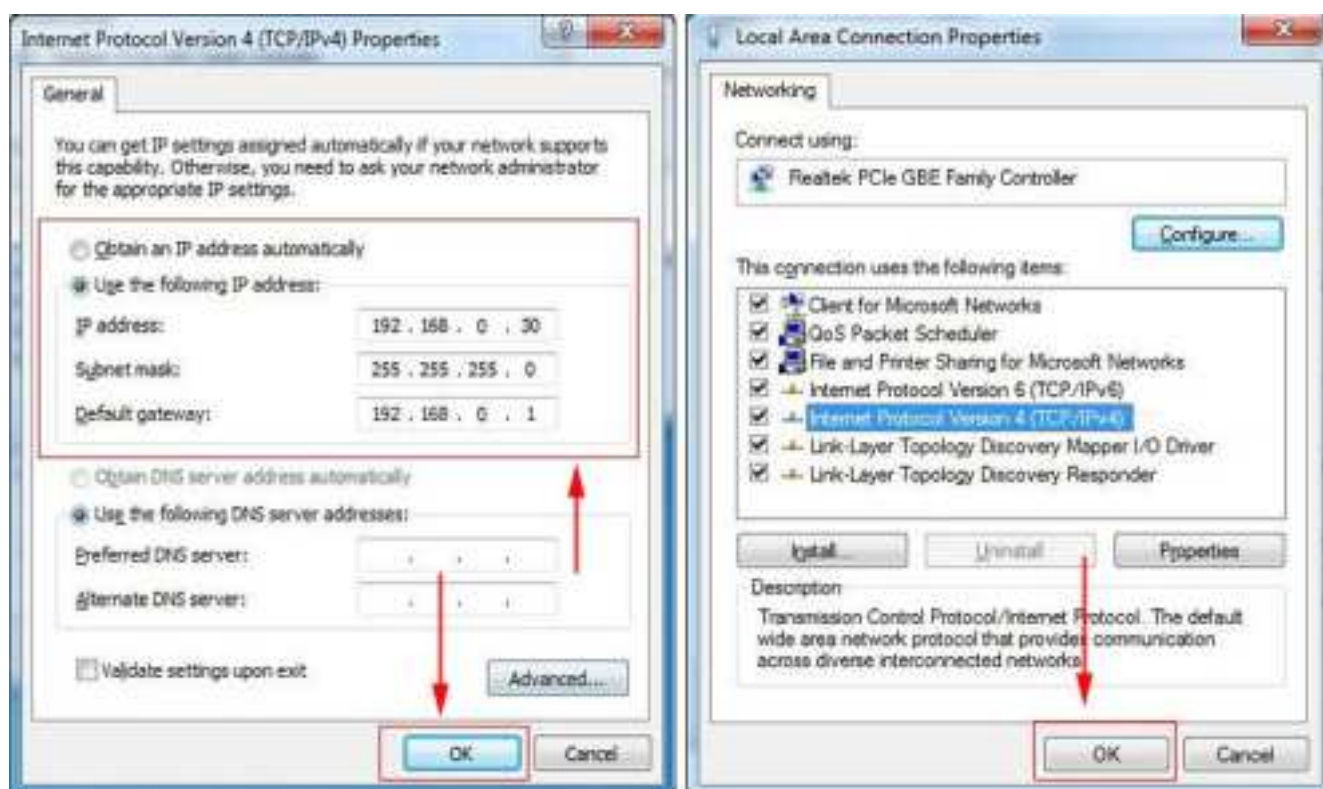
▼ Step2: "change adapter options"——"Local Area Connection"



▼ Step3: "Properties"—"Internet Protocol Version (TCP/IPv4)"



▼ Step4: change the IP to 192.168.0.XXX—"OK"



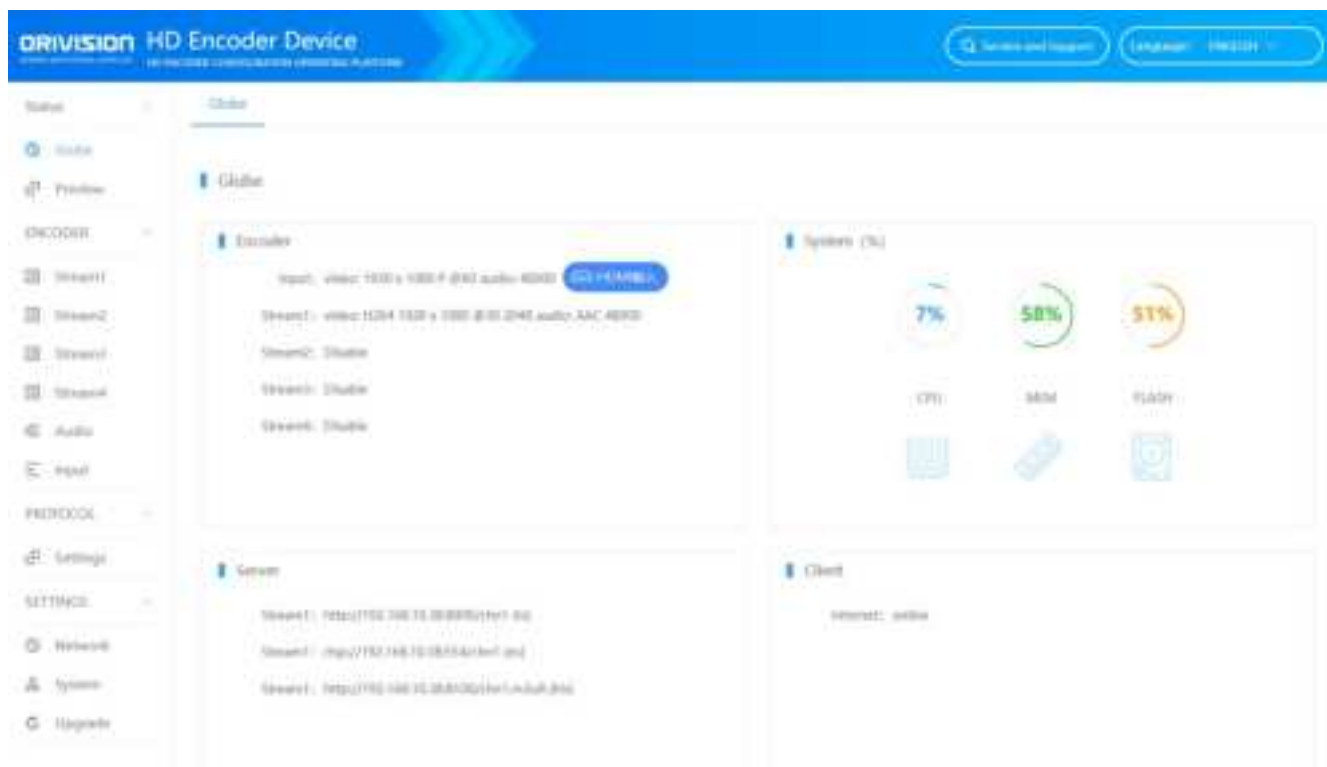
▼ Step5: Open the WEB browser, and enter the IP address of the decoder directly (the default is 192.168.0.31) to open the login interface of the decoder. The default username and password of the decoder is admin/admin and then click "Login".



3) Introduction to the control page of the encoder

3.1 Status

▼ Status: Showing the status information of input and output.



▼ Users can preview the input video through this page. If there is a delay it is normal, because of network factors

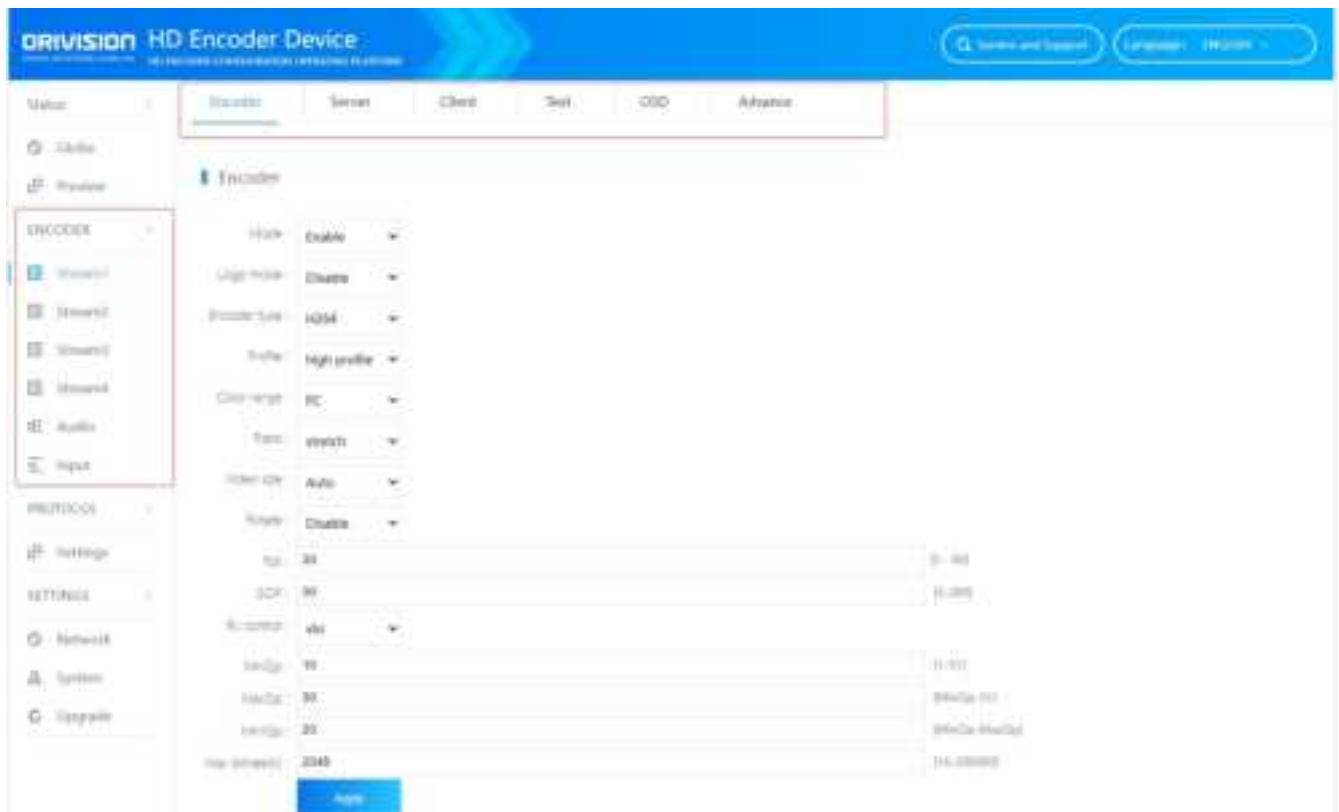


3.2 ENCODER Settings

3.2.1 Streams setting

▼ The left-hand column shows the settings for the 4 stream outputs and audio, as well as the setting functions for the input signals

Note: EH1201 only supports 2-channel stream output settings



Mode: Disable | Enable | Video only | Audio only

“Enable” is the default encoding for video and audio

“Video only” is for video-only encoding

“Audio only” is for audio-only encoding

Encoder type: H264/H265/MJPEG

Profile: baseline profile / main profile / high profile (Note: H.265 version choose main profile)

Color range: PC/TV

PC usually use the sRGB color gamut

TV mostly use the NTSC color gamut.

Video size for Stream1&Stream2:

480*270/640*360/640*480/704*576/720*404/720*480/720*540/720*576/800*600/850*480/960*540/1024*576/1024*768/1280*768/1280*800/1280*720/1920*1080/Auto

Note: EH1301 could support maximum resolution is 3840*2160 in addition to the above resolutions

Video size for Stream3&Stream4:

480*270/640*360/640*480/704*576/720*404/720*480/720*540/720*576/Auto

Note:

EH1301 could support 1920*1080 in addition to the above resolutions;

EH1201 without stream 3&stream4 output

Rotate: Disable/90/180/270

Fps for Stream1&Stream2: 5-60 (Note: when the input resolution is 720i/50,1080i50, the frame rate will choose 25)

Fps for Stream3&Stream4: 5-30 (Note: when the input resolution is 720i/50,1080i50, the frame rate will choose 25)

Gop: 5-200, it shows picture quality, default setting is advisable.

Rate control: VBR / CBR

MinQp: 1-51

MaxQp: MinQp-51

MinIQp: [MinQp-MaxQp]

(Default settings are recommended)

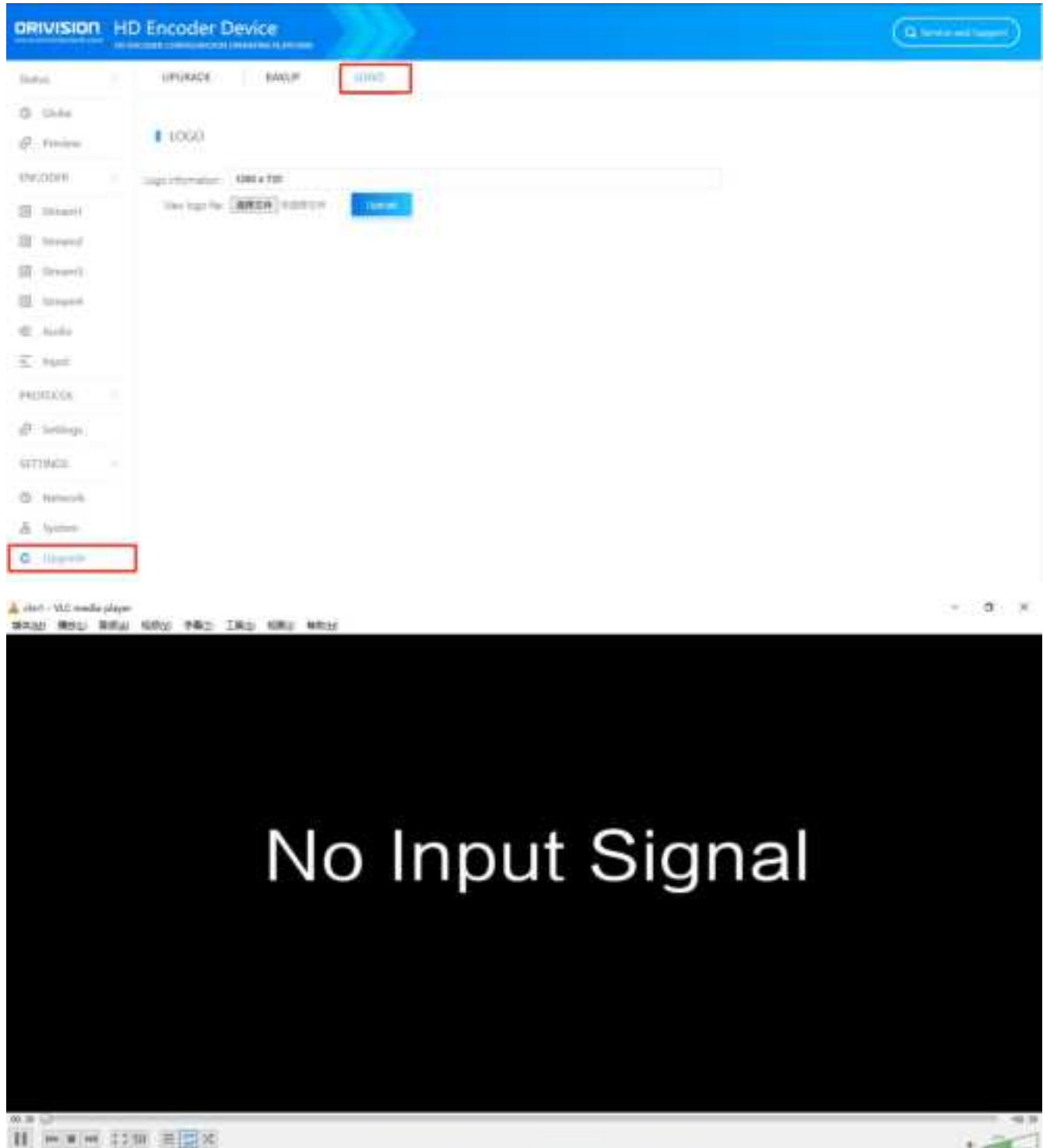
Max bitrate(K): [16-200000]

Logo mode: Disable | No input | Always

This function can be enabled when the user needs to display a specified image on the decoder side

When "No input" is selected, the decoder or VLC player output will display the image uploaded by the user when there is no signal input from the encoder.

When "Always" is selected, the decoder or VLC player output will display the user uploaded image regardless of whether there is a signal input or not.



3.2.2 Server Setting (HTTP/RTSP/HLS Protocols)

ORIVISION HD Encoder Device
HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support | Language: ENGLISH

Status | Encoder | **Server** | Client | Text | OSD | Advance

Globe | Preview | ENCODER | Stream1 | Stream2 | Stream3 | Stream4 | Audio | Input | PROTOCOL | Settings | SETTINGS | Network | System | Upgrade

Server

HTTP server: Enable(TS) [v]
 Http port: 8000 [1 - 65535]
 Http path: /chm1
 Rtpc server: Enable(ES) [v]
 Rtpc port: 554 [1 - 65535]
 Rtpc path: /chm1
 Hls server: Enable [v]
 Hls port: 8100 [1 - 65535]
 Hls path: /chm1.m3u8
 Hls duration: 3 [1 - 6]
 Apply

HTTP Server: Disable/Enable (TS)/ Enable (FLV)

HTTP port: 1-65535 optional; default is 8000

HTTP path: Modifiable

RTSP server: Disable/Enable (TS)/Enable (ES)

RTSP port: 1-65535 optional; default is 554

RTSP path: Modifiable

HLS server: Disable/Enable

HLS path: Customization

HLS Duration: default



Note

The encoder needs to be rebooted after the above changes.

3.2.3 Client Setting/ Pushflow settings (Multicast /RTMP/RTMPS)

The screenshot shows the 'Client' configuration page of the ORIVISION HD Encoder Device. The page has a blue header with the ORIVISION logo and 'HD Encoder Device' text. Below the header is a navigation bar with tabs: Status, Encoder, Server, Client (selected), Text, OSD, and Advance. On the left side, there is a sidebar menu with options: Globe, Preview, ENCODER (selected), Stream1, Stream2, Stream3, Stream4, Audio, Input, and PROTOCOL. The main content area is titled 'Client' and contains the following settings:

- Multicast: UDP (dropdown)
- Server addr: 232.255.42.41
- Server port: 1234 (with a note [1-65535])
- Package size: 940 (dropdown)
- Rtmp(s): Enable (dropdown)
- Server addr: rtmp://a.rtmp.youtube.com/live2
- Server app: vaq2-0ac0-6uzm-460a-0m9g
- An 'Apply' button is located at the bottom of the settings area.

When users need to use multicast or RTMP protocols, they can set them on this page.

Multicast: Disable/UDP/RTP optional

Server addr: Fill in the multicast address

Server port: 1-65535 optional

Package size: 564/940/1316

Rtmp(s): Disable/ enable/Video Only/Audio only

Server addr: Fill in the RTMP/RTMS server address

Server app: Fill in the secret key of the RTMP/RTMPS server

RTMP setup example:

For example, the RTMP push stream address is as follows

rtmp://p1bj.weizan.cn/v/820595698_132282802989672874?t=471b0

Server addr: rtmp://p1bj.weizan.cn/v

Server app: 820595698_132282802989672874?t=471b0

3.2.4 Text Setting: Supports two groups of text input settings

The screenshot shows the Orivision HD Encoder Device configuration interface. The top navigation bar includes 'Status', 'Encoder', 'Server', 'Client', 'Text', 'OSD', and 'Advance'. The 'Text' tab is selected. On the left, a sidebar lists 'Encoder' settings for 'Stream1', 'Stream2', 'Stream3', 'Stream4', 'Audio', and 'Input'. The main area displays the 'Text' settings for 'Stream1'. The settings are as follows:

Setting	Value	Range/Options
Group1	Enable	Enable / Disable
Model	Static	Static / Slide to right / Slide to left
Text X1	600	0-width
Text Y1	200	0-Height
Text size1	72	8-72
Text alpha1	128	0-128
Text color1	Black	Color selection
background1	Transparen	Background color selection
Text1	chn 1	Text content
Group2	Disable	Enable / Disable

An 'Apply' button is located at the bottom right of the settings area.

Model1: Static/ slide to right/ Slide to left

Text X1: 0-width is optional, display the left and right position of the text

Text Y1: 0-height is optional, display the up and down position of the text

Text size1: 8-72 is optional

Text alpha1: 0-128 is optional

Text color1: Colour of text displayed on video

Background1: Background colour of text displayed on video

Text1: the content of the text you want



Note

Each stream has two groups of texts can be set.

3.2.5 OSD Setting

User can upload the station logo, picture, etc. through the OSD, and it supports the JPG format.



Note

Each stream has two groups of OSD can be set.

Bmp

Group1: Enable

Bmp X1: [4-Width]

Bmp Y1: [4-Height]

Alpha1: [0-128]

Bmp name1: [24bit bmp only]

Bmp file1: 选择文件 未选任何文件 Upload

Group2: Disable

Group1: Disable/ Enable

Bmp X1: 4-Width; display the left and right position of the picture

Bmp Y1: 4-Height; display the up and down position of the picture

Alpha: 0-128 is optional; Adjusting the transparency of an image

Bmp name1: display the name of the Group1

Bmp file1: choose to upload the image, support bmp format of the picture less than 1M

Set a partial mosaic on the video screen

Bmp

Group1:	Disable	▼
Group2:	Disable	▼
Mosaic1:	Enable	▼
Mosaic X1:	0	[0-width]
Mosaic Y1:	0	[0-height]
Mosaic width1:	64	[8-width]
Mosaic height1:	64	[8-height]
Block size1:	8x8	▼
Mosaic2:	Disable	▼
<button>Apply</button>		

Mosaic 1: Disable/ Enable

Mosaic X1: 0-Width; display the left and right position of the mosaic

Mosaic Y1: 0-Height; display the up and down position of the mosaic

Mosaic width1: 8-width;

Mosaic height1: 8-height;

Block size1: 8x8/ 16x16/ 32x32 optional

▼ Advance Setting

Non-essential settings, it can be ignored

3.3 Audio Setting

Encoder type: AAC/LC/EAAC/EAACPLUS/MP2/AC3

Bitrate: 48000/64000/96000/128000/160000/192000/256000 optional

ES type: AAC/G711A/G711U optional

ES chn: Left/right channel settings when enabled the RTSP ES protocol

Digital gain: X1/X2/X4/X8

Noise Reduction: 2-20 could be set

3.4 Input Setting



Input Size: If “auto” is selected, the encoder automatically recognises the resolution of the input signal

Mirror: Screen mirroring settings for the input signal source

Mirror is Left and right mirroring

Flip is Top and bottom mirroring

Mirror+flip is Left-right and up-down mirroring

Audio intf: Digital/Analog/Auto

Digital means that the input audio source is the video's built-in audio

Analog means that the input audio source is an external audio

When the encoder is a dual-interface input, select “auto” and the encoder will automatically recognize the input audio pattern

3.4.1 EDID function

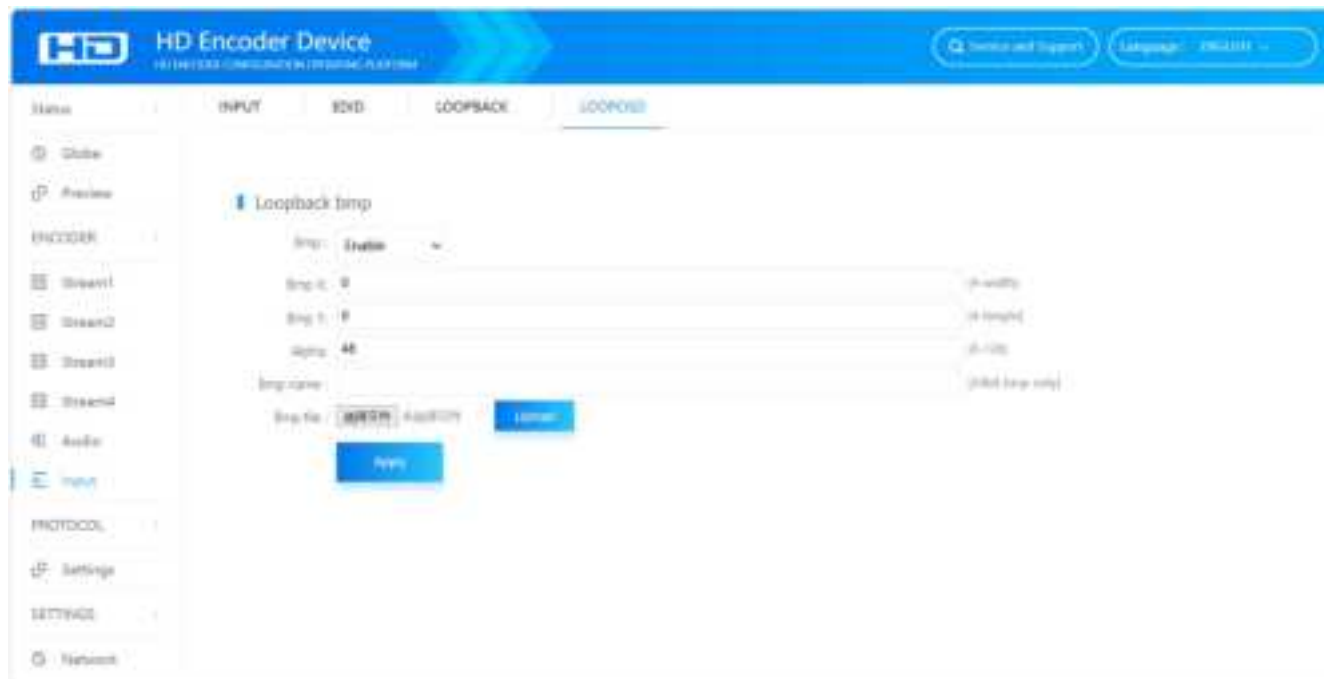
Four default EDID modes are available for selection, users can choose it according to their needs, if the default mode can't meet the user's needs, the user can contact our technical department to add a new EDID mode (support@orivision.cn)



3.4.2 Loopback: Video settings for local loop-out



3.4.3 Loop OSD: image settings for local loop-out



Bmp: Disable/ Enable

Bmp X: 4-Width; display the left and right position of the picture

Bmp Y: 4-Height; display the up and down position of the picture

Alpha: 0-128 is optional; Adjusting the transparency of an image

Bmp name: display the name of the bmp file

Bmp file: choose to upload the image, support bmp format of the picture less than 1M

Attention: When displaying a transparent background in an image, set the background color to: R-177, G-204, B-233



3.5 Protocol Setting: SRT/ONVIF protocols

The screenshot displays the web interface of an Orivision HD Encoder Device. The top navigation bar includes tabs for 'Status', 'SRT', 'ONVIF', 'ONVIF', 'ONVIF', and 'ADVANCE'. The 'SRT' tab is currently selected. On the left sidebar, there are icons for 'Status', 'Preview', 'Encoder', 'Stream1', 'Stream2', 'Stream3', 'Stream4', 'Audio', 'Input', 'Password', and 'Settings'. The 'Settings' icon is highlighted with a red rectangle. The main content area shows the 'SRT' configuration page. It features a 'Group 1' dropdown menu set to 'Listener'. Below this, there are input fields for 'Host' (containing '192.168.1.100'), 'Port' (set to '7100'), and 'Delay' (set to '100'). There is also a 'Stream ID' field. A 'Group 2' dropdown menu is set to 'Disable'. An 'Apply' button is located at the bottom of the configuration area.

Stream ID/KEY: Normally, users do not need to fill in this ID. If some servers require it, users can fill it in according to the server's requirements.

3.5.1 Listener model of SRT protocol

The screenshot shows the Orivision HD Encoder Device configuration interface. The top navigation bar includes the Orivision logo, the title 'HD Encoder Device', and a search bar for 'Service and Support'. Below this, there are tabs for 'SRT', 'GB28281', 'ONVIF', and 'ADVANCE'. The left sidebar contains a menu with 'Status', 'Globe', 'Preview', 'ENCODER', 'Stream1', 'Stream2', 'Stream3', 'Stream4', 'Audio', 'Input', 'PROTOCOL', and 'Settings'. The main content area is titled 'SRT' and contains two groups of settings. Group 1 is set to 'Listener' mode, with fields for 'Status', 'Stream' (set to 'Stream1'), 'Port' (set to '7130'), 'Delay' (set to '120'), 'Stream id', and 'Key'. Group 2 is set to 'Disable' mode, with fields for 'Status' (set to 'disable') and an 'Apply' button at the bottom.

When SRT is selected as Listener mode,

Status: Display the status of the SRT

Stream: choose stream1~4

Port: [1 - 65535], 7130 is default; It is recommended to set the port larger than 1024 if the user want to change it

Delay: 120 is default

Stream ID:

Key: Set encryption password

3.5.2 Caller model of SRT protocol

When SRT is selected as Caller mode,

Status: Display the status of the SRT

Stream: choose stream1~4

Server addr: Enter the IP address of the decoder

Port: [1 - 65535], 7130 is default; It is recommended to set the port larger than 1024 if the user want to change it

Delay: 120 is default

Stream ID: Normally, users do not need to fill in this ID. If some servers require it, users can fill it in according to the server's requirements.

Key: Set encryption password



Note

Click the Apply button when you have finished setting up and then reboot the encoder.

3.5.3 GB28281

Chinese standards, please ignore

3.5.4 ONVIF setting

The screenshot shows the ORIVISION HD Encoder Device web interface. The top navigation bar includes the ORIVISION logo, the text 'HD Encoder Device', and a 'Service and Support' button. Below this, there are tabs for 'Status', 'SRT', 'GB28281', 'ONVIF', and 'ADVANCE'. The 'ONVIF' tab is selected. On the left sidebar, there are links for 'Globe', 'Preview', 'ENCODER', 'Stream1', 'Stream2', 'Stream3', and 'Stream4'. The main content area for the 'ONVIF' tab contains a 'Mode' dropdown menu set to 'Enable', a 'Media name' text input field, and an 'Apply' button.

3.5.5 CPCP

The screenshot shows the ORIVISION HD Encoder Device web interface with the 'CPCP' tab selected. The left sidebar is the same as in the previous screenshot. The main content area for the 'CPCP' tab contains a 'Mode' dropdown menu set to 'Enable', a 'Name' text input field, a 'Server addr' text input field, a 'Server port' text input field set to '8080', and a 'Alive period' text input field set to '10'. There is also an 'Apply' button.

It's a protocol used to centrally manage device protocols by our company.

3.5.6 Advance setting

ORIVISION HD Encoder Device
WWW.ORIVISIONTECH.COM

Service and Support

Language: ENGLISH

Status

SRT

GB28281

ONVIF

ADVANCE

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Advance

HTTP&RTSP encry: Enable

user name: 123

password: 123

Apply

Encryption settings for HTTP and RTSP protocols

3.6 System Setting

[Go Back Contents](#)

3.6.1 Network Setting

When DHCP is enabled, the encoder IP address is assigned by the switch and the OLED display of the encoder shows the IP address assigned to the encoder.

When DHCP is disabled, the user can manually change the IP address of the encoder. Modify DNS when changing IP.

Note that the encoder needs to be reboot after the IP is changed.

The screenshot shows the Orivision HD Encoder Device configuration web interface. The top header includes the Orivision logo, the title "HD Encoder Device", and a subtitle "HD ENCODER CONFIGURATION OPERATING PLATFORM". There are buttons for "Service and Support" and "Language: ENGLISH". The main navigation bar has tabs for "Status", "Network", "Advance", "Intercom", and "Remote uart". The "Network" tab is selected. On the left, there is a sidebar menu with options: "Globe", "Preview", "ENCODER" (expanded), "Stream1", "Stream2", "Stream3", "Stream4", "Audio", "Input", "PROTOCOL", "Settings", "SETTINGS" (expanded), "Network" (highlighted), "System", and "Upgrade". The main content area is titled "Network" and contains the following settings:

- DHCP: Disable (dropdown menu)
- IP address: 192.168.10.38
- Mask address: 255.255.255.0
- GW address: 192.168.10.1
- DNS0: 192.168.10.1
- DNS1: 192.168.10.1
- MTU: 1500
- MAC address: F4 69 D6 D0 26 96

At the bottom of the settings area is a blue "Apply" button.

ORIVISION HD Encoder Device
www.orivisiontech.com HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

Network

Advance

Intercom

Remote uart

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Advance

Web port: 80 [2, 65535]

Orvif port: 8120 [1, 65535]

DHCP retry: 5 0 means retry forever

Apply

ORIVISION HD Encoder Device
www.orivisiontech.com HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and Support

Language: ENGLISH

Status

Network

Advance

Intercom

Remote uart

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Intercom

Mode: Client

Status: Disable

Address:

Port: 5400

Volume: 132 [0 - 132]

Apply

Applicable to DH921 decoder to set audio return function

ORIVISION HD Encoder Device
www.orivision.com.cn HD ENCODER CONFIGURATION OPERATING PLATFORM

Service and SupportLanguage: ENGLISH

StatusNetworkAdvanceIntercomRemote uat

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Remote uat

Mode: Disable

Baud rate: 115200

Port: 5300 [0, 65535]

Apply

The function is Unavailable, pls ignore it.

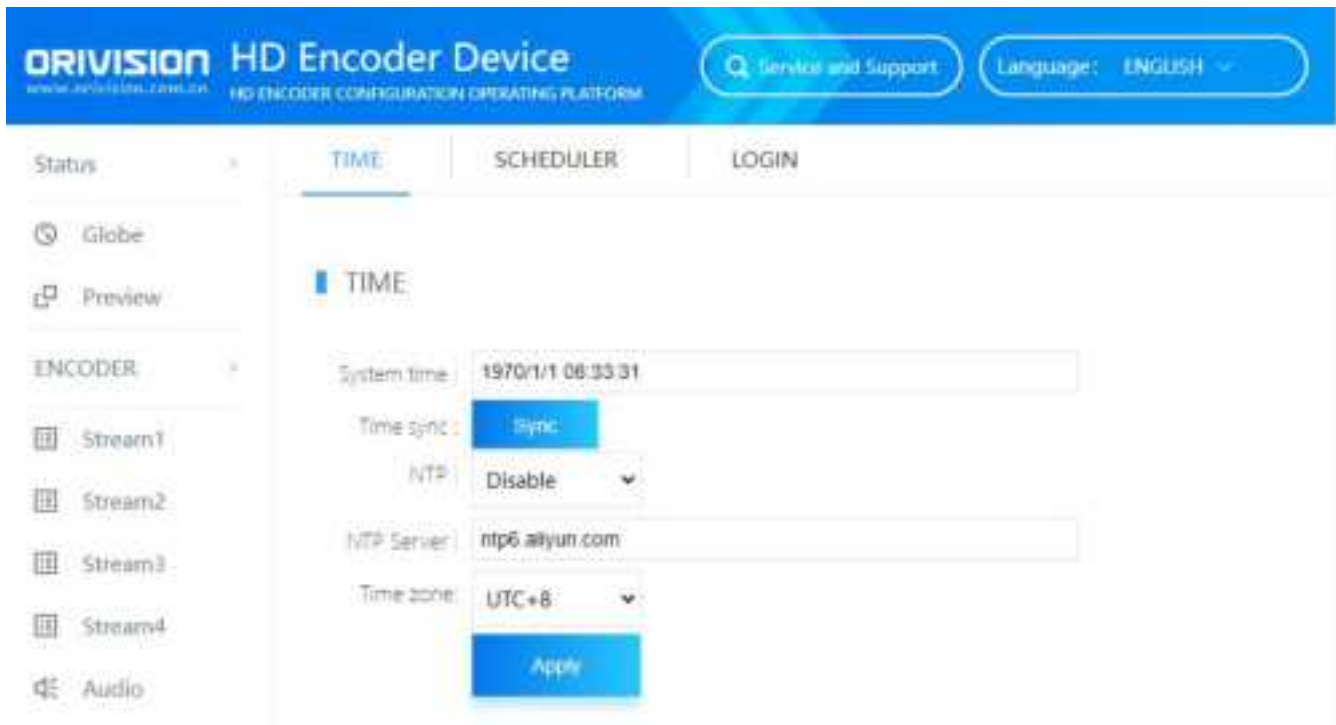


Note

After changing the above parameters the encoder needs to be rebooted.

3.6.2 System Setting

▼Time display settings



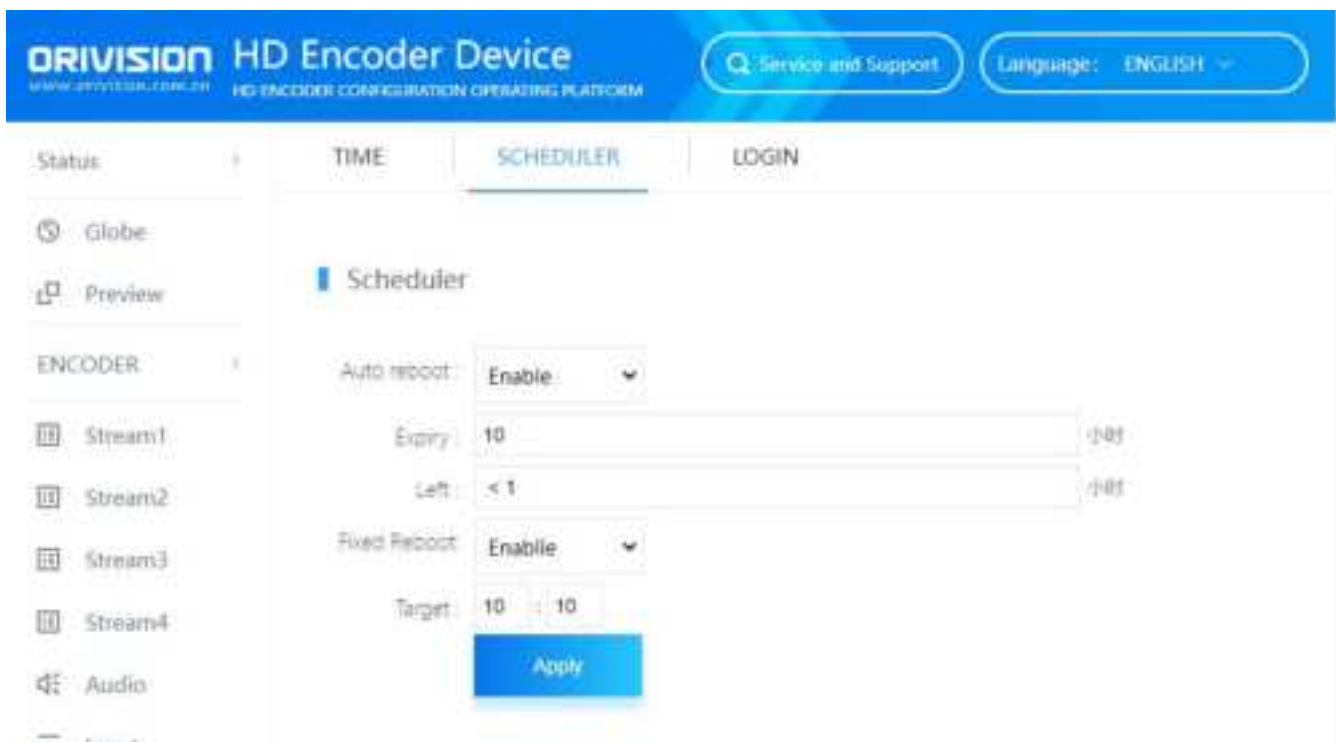
The screenshot shows the 'TIME' configuration tab in the ORIVISION HD Encoder Device web interface. The interface includes a sidebar with navigation options like 'Status', 'Globe', 'Preview', 'ENCODER', 'Stream1-4', and 'Audio'. The main content area is titled 'TIME' and contains the following settings:

- System time:** 1970/1/1 08:33:31
- Time sync:** A blue 'Sync' button.
- NTP:** A dropdown menu set to 'Disable'.
- NTP Server:** ntp6.aliyun.com
- Time zone:** A dropdown menu set to 'UTC+8'.
- Apply:** A blue button at the bottom.

One-click "Sync" synchronisation of the time on the user's computer

When NTP is enabled, it can synchronize the user-specified time zone time

▼Automatic/timed reboot settings



The screenshot shows the 'SCHEDULER' configuration tab in the ORIVISION HD Encoder Device web interface. The interface is similar to the previous one, with the same sidebar. The main content area is titled 'Scheduler' and contains the following settings:

- Auto reboot:** A dropdown menu set to 'Enable'.
- Expiry:** 10 (with '小时' - hours) next to it.
- Left:** < 1 (with '小时' - hours) next to it.
- Fixed Reboot:** A dropdown menu set to 'Enable'.
- Target:** 10 : 10
- Apply:** A blue button at the bottom.

Expiry: Restart Cycle

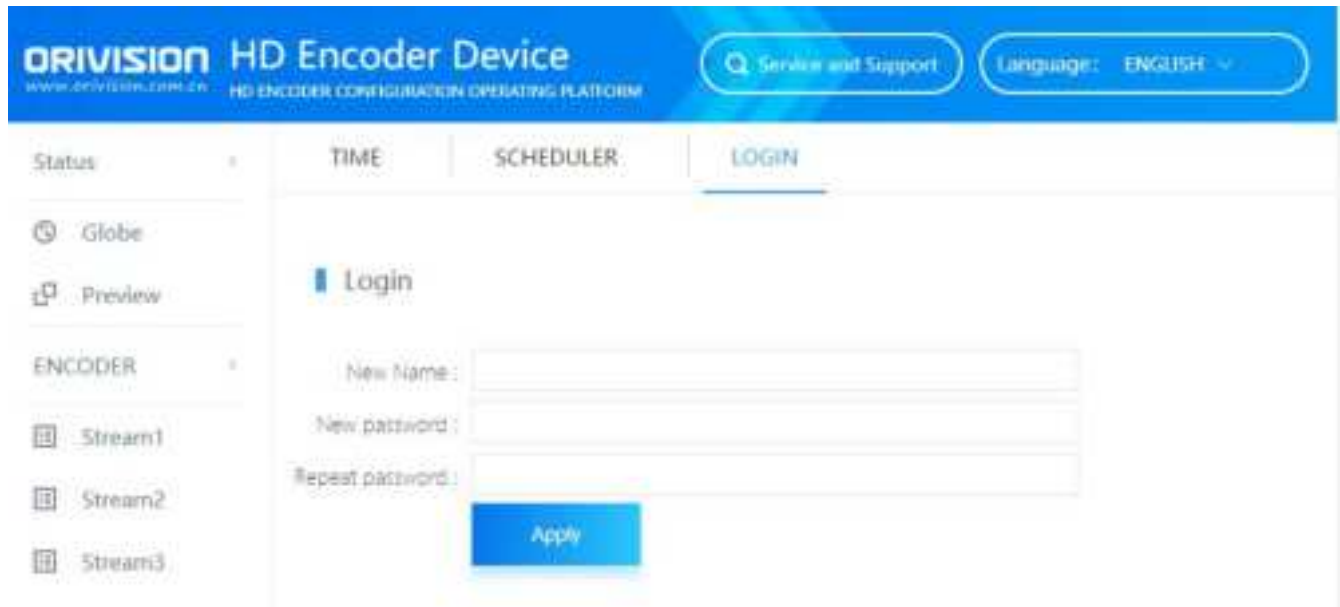
for example: You set it 10, that means the encoder will automatically reboot every ten hours

Left : Restart countdown time

for example: You set it 1, that means the encoder will reboot after 1 hour

fixed reboot :if you choose it enable, then you can set a time to reboot the encoder

▼ Modify login username and password settings



The screenshot displays the 'ORIVISION HD Encoder Device' configuration web interface. The top header includes the brand name, website, and a 'Service and Support' link. A language dropdown is set to 'ENGLISH'. The left sidebar contains navigation options: 'Status', 'Globe', 'Preview', 'ENCODER', 'Stream1', 'Stream2', and 'Stream3'. The main content area has three tabs: 'TIME', 'SCHEDULER', and 'LOGIN', with 'LOGIN' being the active tab. The 'Login' section contains three input fields: 'New Name:', 'New password:', and 'Repeat password:'. A blue 'Apply' button is positioned below these fields.



Note

After changing the above parameters the encoder needs to be rebooted.

3.6.3 Upgrade Setting

▼ Upgrade Setting

The screenshot shows the 'UPGRADE' tab of the Orivision HD Encoder Device configuration platform. The interface includes a sidebar with navigation options like Status, Upgrade, Backup, and Logo, and a main content area for the upgrade process. The main area displays the following information:

- SN: 20214007
- Fw version: 1.2.10 standard-a 20220927(V700)
- Hd version: V700
- Ker version: Mar 22 16:38:38 CST 2021
- New fw file: 选择文件 (未选任何文件)

At the bottom of the main area, there are two buttons: 'Upgrade' and 'Reboot'.

Display of existing firmware version number information

If the user need to upgrade to a new firmware, you can contact us for the latest version of firmware.

Once you have received the new firmware, please do not unzip the file and upload it directly

When the system prompts that the upgrade is successful, Pls reboot your encoder to finish installing updates.



Note

During the upgrade process, don't refresh or close the webpage and don't turn off the encoder. If you are prompted that the upgrade failed, pls don't reset it, just reboot it.

▼ backup Setting

Click the “Bakup” button to save the encoded settings to a file on your local computer with one click

Settings can also be restored with one click by uploading a file

“Default” button is restored to factory settings

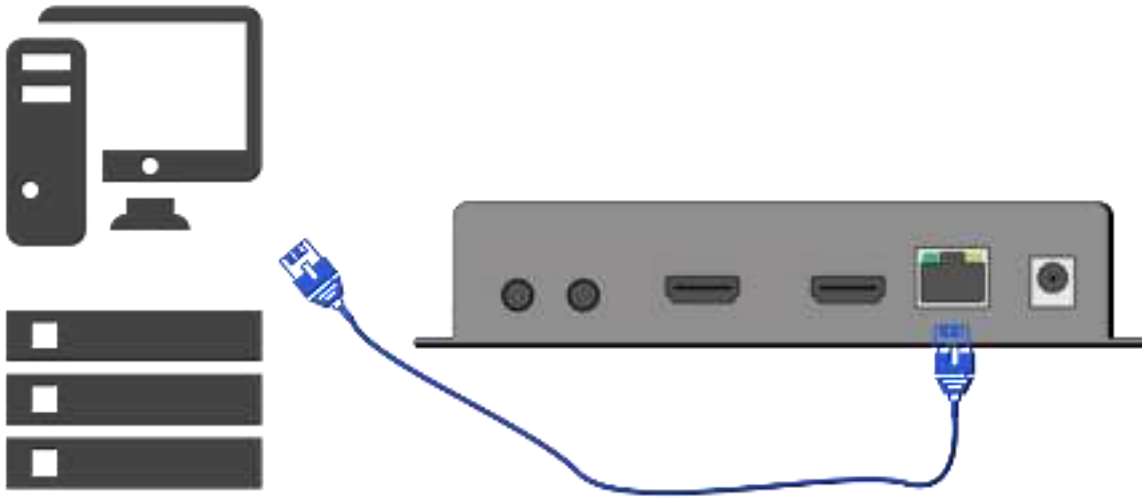


▼ LOGO Management



Upload an image of the boot screen here

4) How to connect the Encoder to the internet

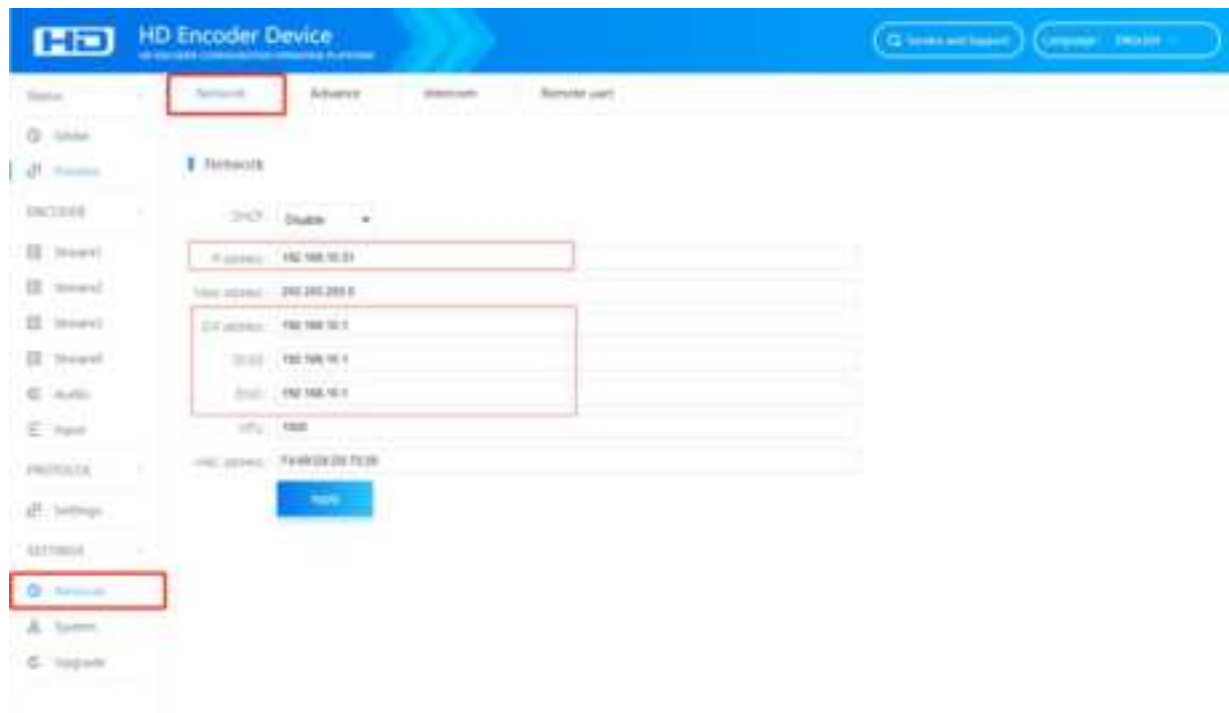


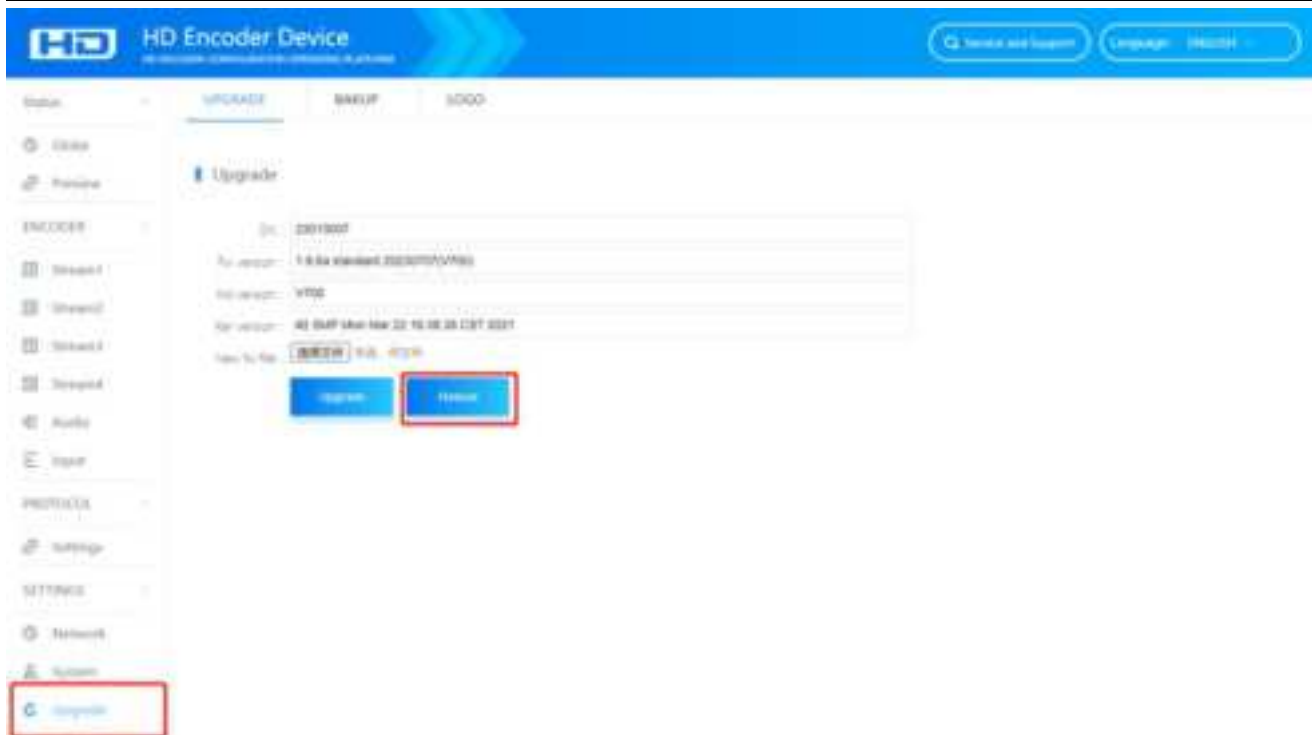
Step1: Connect the encoder to the PC directly. Login the control web with the default IP: 192.168.0.31

Step2: Check the IP of the router connected to the Network.

For example: the IP of router is 192.168.10.128 Then the user needs to change the default IP of the encoder 192.168.0.31 to 192.168.10.XXX;

Step3: Find the Network set and change the IP to 192.168.10.XXX and the gateway & DNS to 192.168.10.1, then press the “Apply” button and reboot the encoder.





Step4: Connect the encoder directly to the router with a network cable. At the same time, connect the computer to the same network

Step5: Open the browser and enter the new IP :192.168.10.XXX



Note:

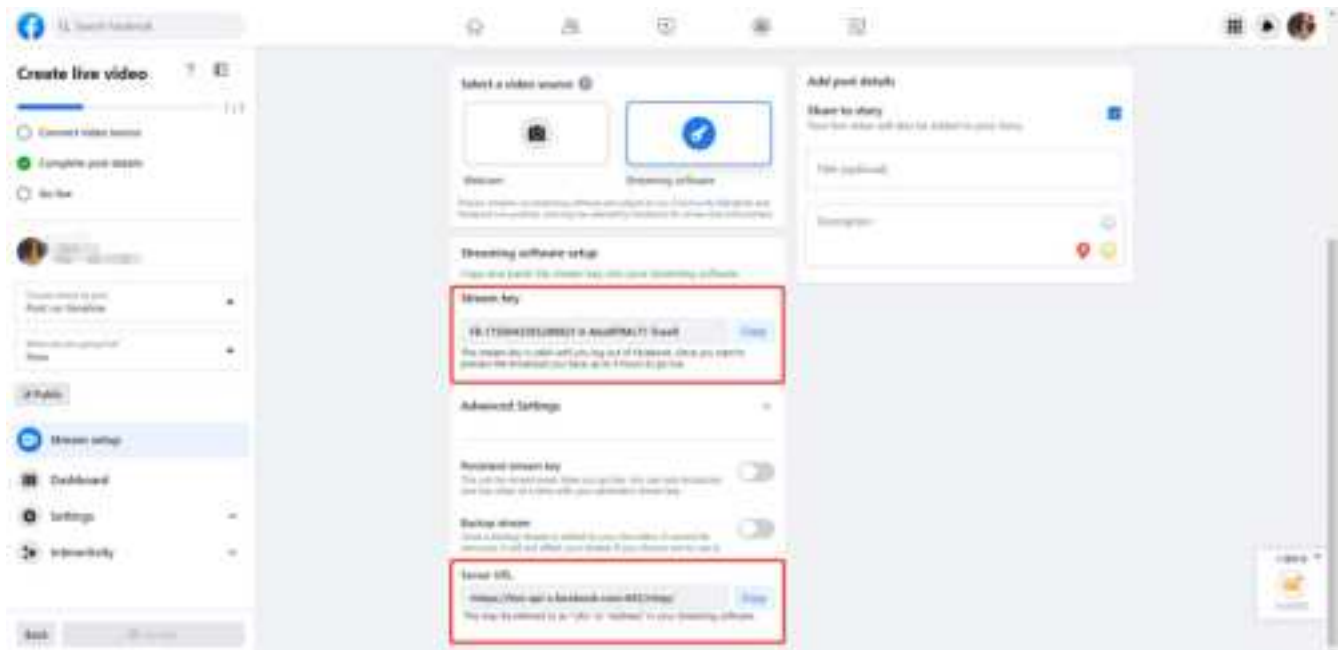
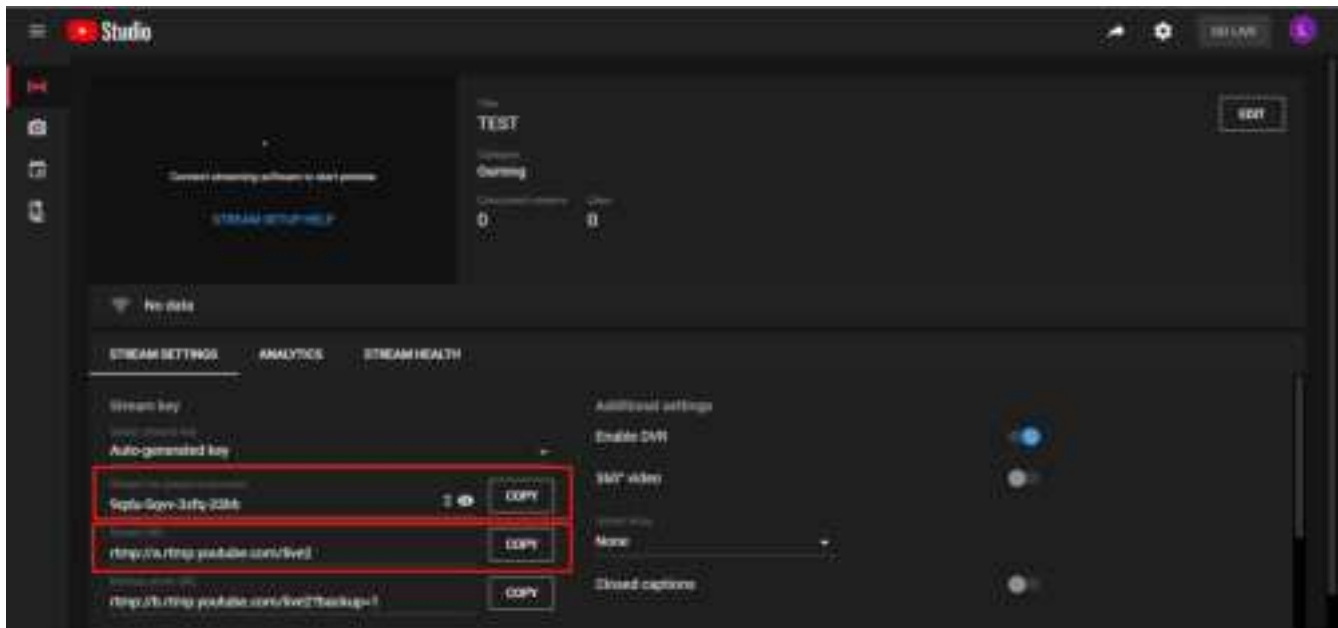
If user can't log in by new IP, Pls check the DNS of the router. Then reset the encoder and re-login to the web according to the above steps, modify the IP, gateway, and DNS.

5) How to streaming to YouTube/Facebook via RTMP/RTMPS

Step1: Before making live broadcast, you will need to check the following.

- Play the stream address in the encoder with the VLC player and confirm that it can play normally.
- Canon camera don't have audio output, you will need to input an external audio.
- Microphone is not an audio source.

Step2: Login Your YouTube or Facebook account and find “Go Live”. User can get a stream Key and URL



Step3: Log in the control web of the video encoder. Find the “Stream”—“Client”—“Rtmp(s)” Page, enable the RTMP protocol as bellow. Enter the address and secret key of the RTMP server into the corresponding boxes



Step4: After set the RTMP, pls press the “Apply” button on the bottom of the page. Then press “REBOOT” button in the upgrad page.



Note:

If it's failed to stream on YouTube or Facebook, Pls check the DNS settings, the value of DNS0 and DNS1 are the DNS of router.

ORIVISION

HD Encoder Device

www.orivisiontech.com

HD ENCODER CONFIGURATION CREATING PLATFORM

Status

Network

Advance

Intercom

Remote uart

Globe

Preview

ENCODER

Stream1

Stream2

Stream3

Stream4

Audio

Input

PROTOCOL

Settings

Network

DHCP: Disable

IP address: 192.168.10.38

Mask address: 255.255.255.0

GW address: 192.168.10.1

DNS0: 192.168.10.1

DNS1: 192.168.10.1

MTU: 1500

MAC address: F4:68:D5:00:28:96

Apply

6) How to set the SRT protocol in the encoder

There are two modes available: caller and Listener

SRT

Group 1: Disable

Status: disable

Group 2: disable

Status: disable

Apply

6.1 Listener mode

1. SRT Port: 7130 is default. But customers can modify it and suggest to set it more than 1024.
2. SRT delay: 120 is default.
3. SRT Key: set a password of at least 10 digits if the user need.
4. Press the "Apply" button and reboot the encoder after any change the parameter.
5. After reboot the encoder, the user can use the SRT address: srt://ip:port to pay it VLC Player to make it working or paste the address into the video decoder

SRT

Group 1: Listener

Status: srt://192.168.10.32 (0 online)

Stream: Stream1

Port: 7130

Delay: 120

Stream id:

Key:

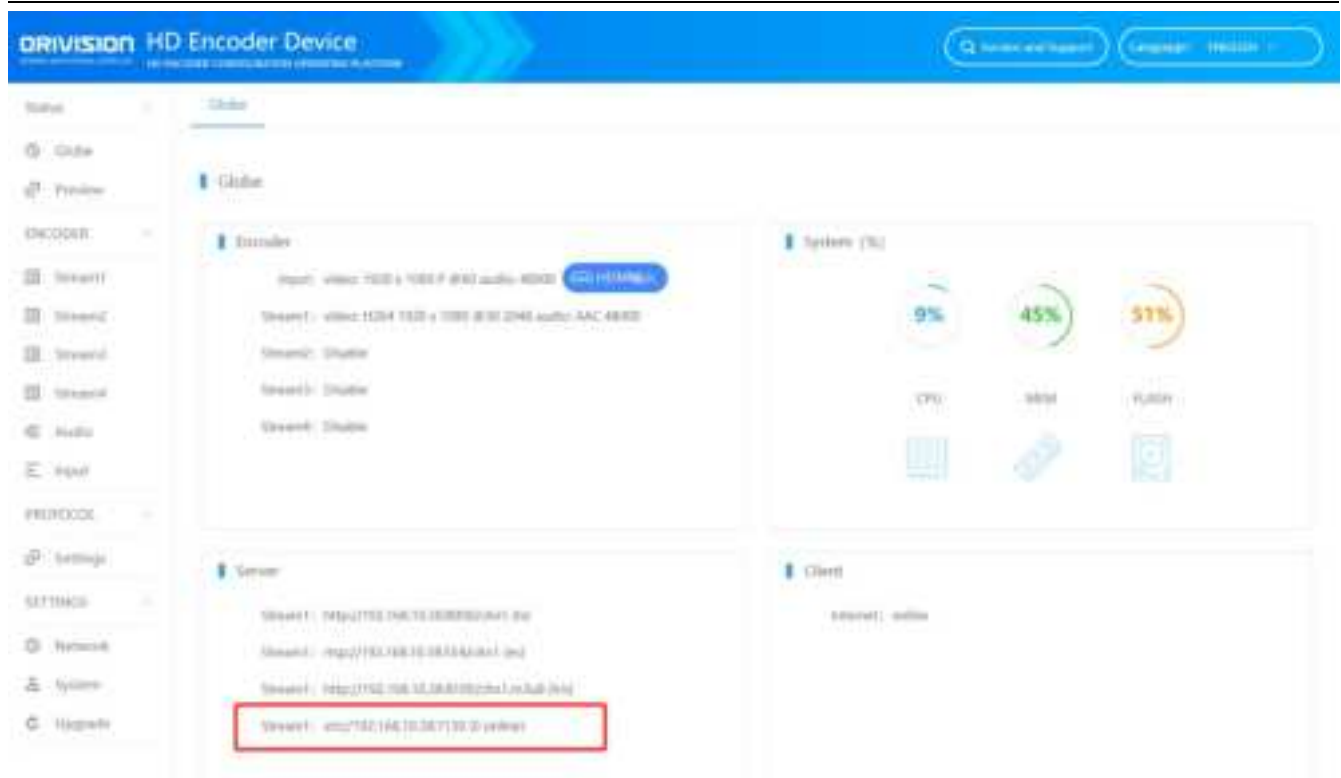
Group 2: Disable

Status: disable

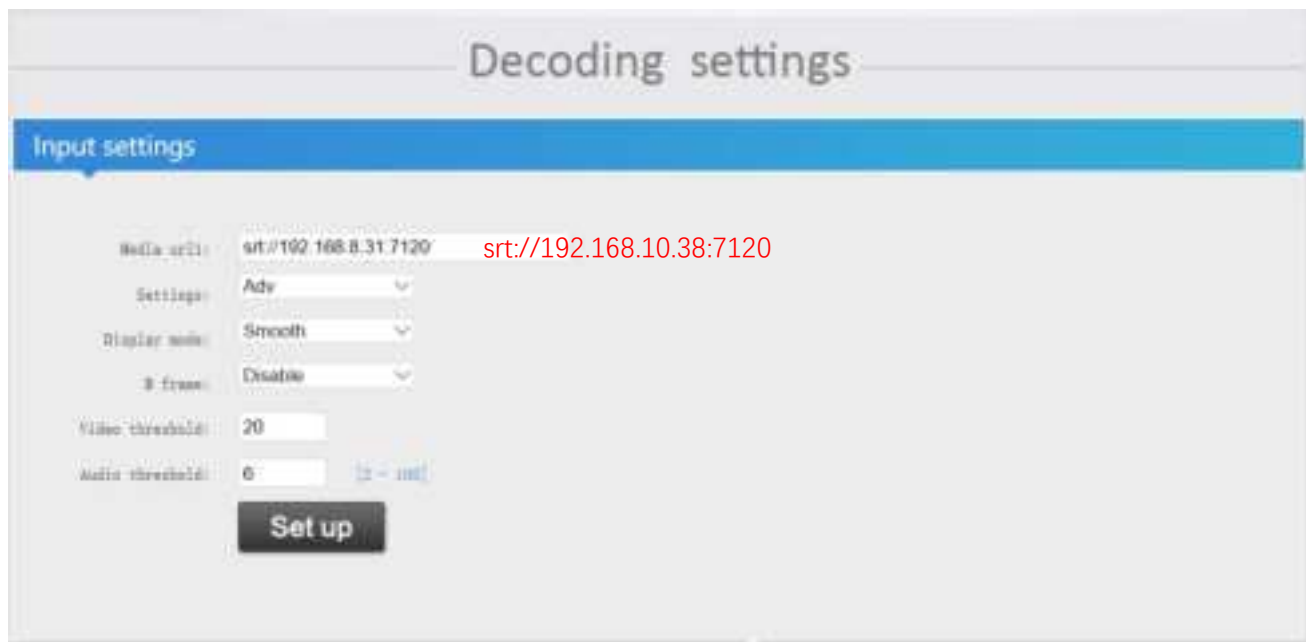
Apply

E.g: the ip of the encoder is 192.168.10.32; the port is 7130. Then the address should be srt://192.168.10.32:7120

Users can view the address of the SRT on the status page



Users can fill in the SRT address directly into the decoder or play it through the VLC player



If the user wants to encrypt the SRT

Then the encrypt SRT address format: **srt://ip:port?passphrase=passwords**

E.g: srt://192.168.10.38:7130?passphrase=1234567890

SRT

Group 1:	Listener	
Status:	srt://192.168.10.38 (0 online)	
Stream:	Stream1	
Port:	7130	[1 - 65535]
Delay:	120	
Stream id:		
Key:	1234567890	
Group 2:	Disable	
Status:	disable	
Apply		

Decoding settings

Input settings

Media url:	38.8.31.7120?passphrase=1234567890srt://192.168.10.38:7120?passphrase=1234567890	
Settings:	Adv	
Display mode:	Smooth	
B frame:	Disable	
Video threshold:	20	
Audio threshold:	6 [2 - 100]	
Set up		

6.2 Caller mode

SRT Port: 7130 is default. But customers can modify it and suggest to set it more than 1024.

SRT delay: 120 is default.

SRT Key: set a password of at least 10 digits if the user need

Press the “Apply” button and reboot the encoder after any change the parameter.

After reboot the encoder, the user can use the SRT address: `Srt://@:port?mode=listener` to pay it VLC Player to make it working or paste the address into the video decoder

SRT

Group 1: Caller ▾

Status: srt:// offline

Stream: Stream1 ▾

Server addr: IP of the decoder

Port: 7130 [1 - 65535]

Delay: 120

Stream id:

Key:

Group 2: Disable ▾

Status: disable

Apply

Decoding settings

Input settings

Media url: srt://@:7120?mode=listener

Settings: Adv ▾

Display mode: Smooth ▾

B frame: Disable ▾

Video threshold: 20

Audio threshold: 6 [0 - 100]

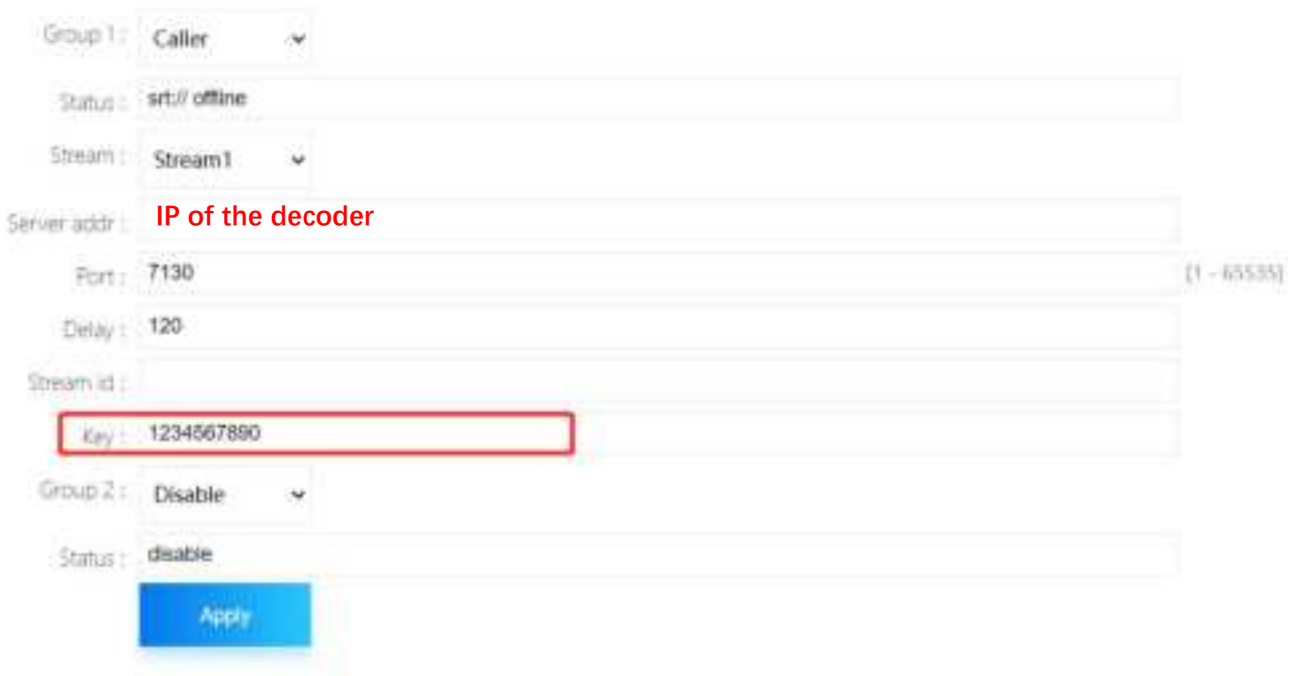
Set up

If the user wants to encrypt the SRT

Then the encrypt SRT address format: `Srt://@port?mode=listenser&passphrase=passwords`

E.g `srt://@:7130?mode=listener&passphrase=1234567890`

SRT



Group 1: **Caller**

Status: `srt:// offline`

Stream: **Stream1**

Server addr: **IP of the decoder**

Port: **7130** (1 - 65535)

Delay: **120**

Stream id:

Key: **1234567890**

Group 2: **Disable**

Status: `disable`

Apply

Description of decoder stream address:

1) Video Encoder choose “listener” mode, the SRT address format in Video Decoder:

`srt://ip:port`

`srt://ip:port?passphrase=passwords`

2) Video Encoder choose “caller” mode, the SRT address format in Video Decoder:

`Srt://@:port?mode=listener`

`Srt://@port?mode=listenser&passphrase=passwords`

7) How to Upgrade the new firmware

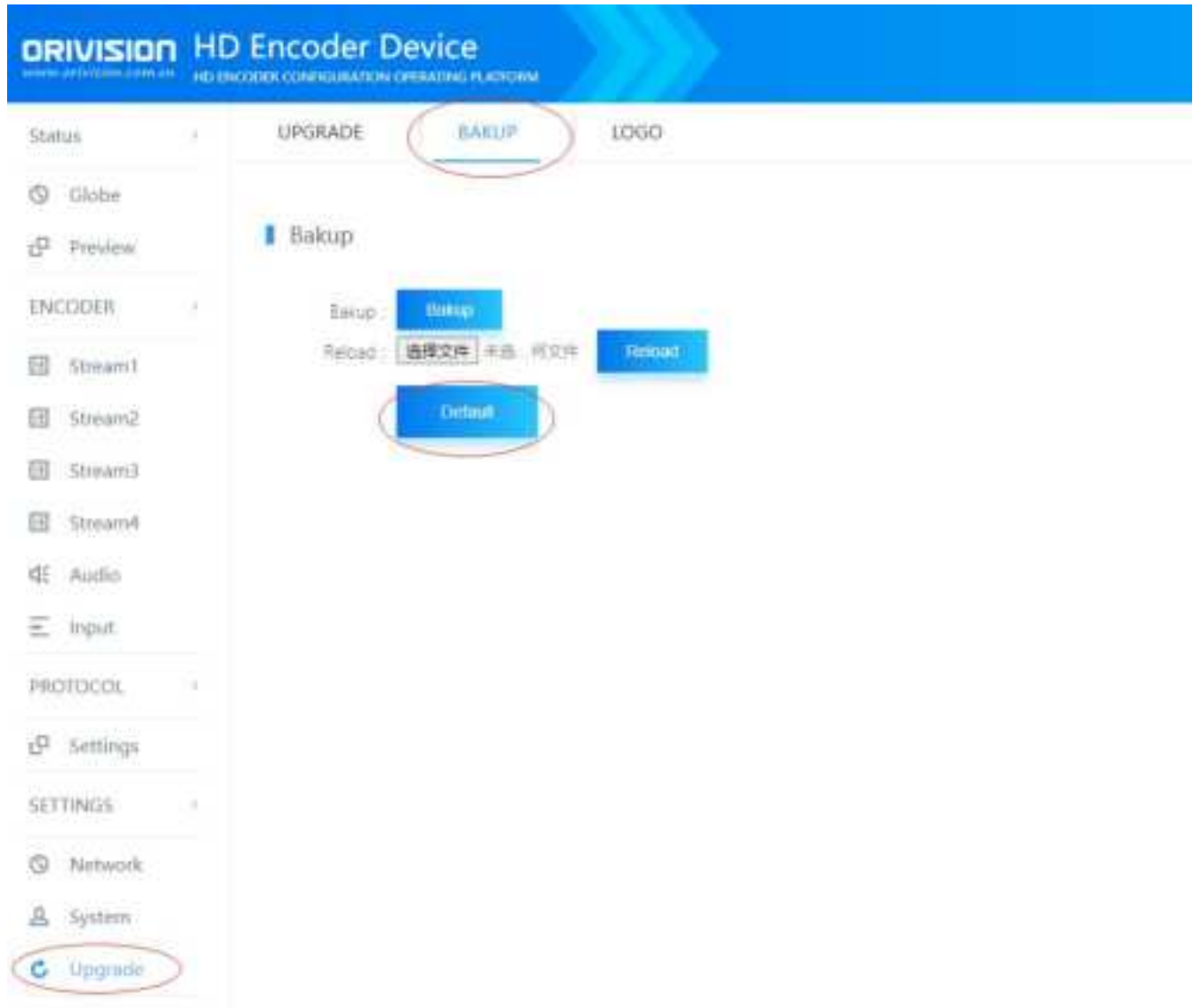
- 1) Once the user has obtained the firmware, do not unzip it and upload it directly
- 2) During the upgrade process, don't refresh or close the webpage and don't turn off the encoder.
- 3) When the system prompts that the upgrade is successful, Pls reboot your encoder to finish installing update.
- 4) If you are prompted that the upgrade failed, pls don't reset it, just reboot it



8) How to Reset/Reboot the encoder

There are two ways to reset the factory settings:

- 1) Find the "backup" button in the system settings of the encoder and click on the "default" button to restore the factory settings



- 2) There is an RST hole on the front of the unit, Then get a sharp needle and insert it into the SRT hole and hold it for about 10 seconds. When all the lights no longer flash, the factory settings have been restored. At this point the default IP(192.168.0.31) is displayed on the OLED display.

