adertech

ADVR series

Interaction Recorder



ADVR-ML





ADVR-MS

User manual
V3.4

Preface

About this Manual

- This manual serves as a guide for the use of a 6CH 4K interactive recording and broadcasting all-in-one machine. The photos/images/charts provided in the manual are all based on 6CH (5 * HDMI) and 6CH (4 * SDI+HDMI), with suffix models only showing differences in appearance and basic functions.
- This manual is only for explanatory and explanatory purposes, and may differ from specific products. Please refer to the actual product.
- Due to product version upgrades or other needs, our company may update this manual. If you need the latest version of the manual, please contact the manufacturer to obtain it.
- We suggest that you use this manual under the guidance of a professional

About Default

- The default administrator account for the device at the factory：admin。
- The default IPv4 address of the device at the factory：192.168.18.34。

List of standard accessories

Host, AC 100-240V power cord, HDMI cable, warranty card, certificate of conformity, outer packaging.

Attention

In a residential environment, running this device may cause radio interference.

Description Content Agreement

Attention: If these words are ignored, it may lead to device malfunction, data loss, and reduced device performance.

All rights reserved

This manual is an introduction to the use of the all-in-one recording and broadcasting machine, and the content can be changed with version upgrades. Our company is not responsible for any direct or indirect losses caused by this situation.

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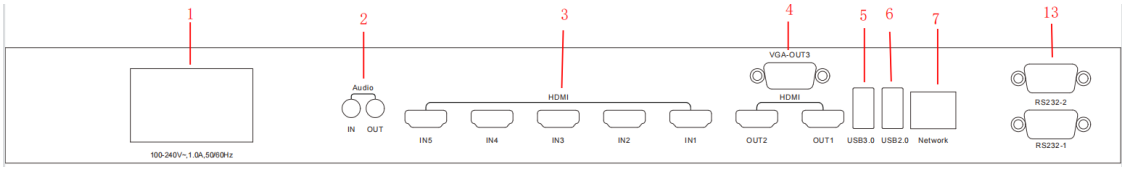
1 Product Appearance Introduction and Description

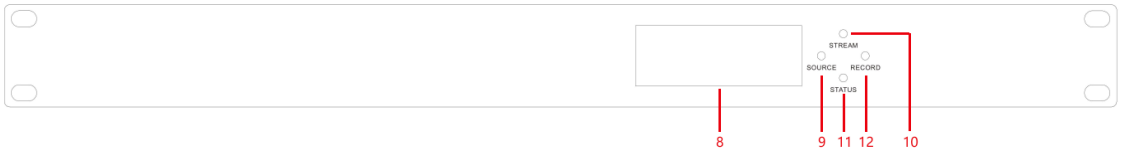
1.1 Introduction and description of the front and back panels of the 6 CH (5 * HDMI) series (compatible with all 6 CH (5 * HDMI) models)

The schematic diagram of the front and back panels of the 6 CH (5 * HDMI) product is shown in Figures 1.1/1.2. Please refer to Table 1.1 for functional descriptions of each section

Picture 1.1 6 CH(5*HDMI)back panel



Picture 1.2 6 CH front panel



Serial Number	name	illustrate
1	power supply	100-240V AC power input, with a red indicator light at the switch. When turned on, it will light up, and when turned off, it will turn off， Built in fuse, can be removed and replaced
2	AUDIO IN	Audio In to 3.5 stereo input
	AUDIO OUT	Audio Out to 3.5 stereo output。On the local Director interface (default screen for startup): output the 6th network stream decoding sound; Enter the playback interface: output playback file sound
3	HDMI IN1-IN5	Indicates 1-5 HDMI input interfaces (in order from right to left)
4	HDMI-OUT1 HDMI-OUT2 VGA-OUT3	Indicates 1-5 CH(in order from right to left) HDMI input interface HDMI-OUT1 supports up to 4KP60 output, HDMI-OUT2 supports up to 4KP30 output, and VGA-OUT3 supports 1080P60 output (1 HDMI-OUT1 embedded audio output on the local Director interface (default screen when turned on): output the 6th network stream decoded sound; Enter the playback interface: output playback file sound 2. HDMI-OUT2 embedded audio fixed loop output AUDIO-IN (3.5 input audio port) audio, unable to turn on and off control)
5	USB3.0	External mobile hard drive or USB flash drive (capacity needs to be>=16GB) USB3.0 interface
6	USB2.0	USB2.0 interface, connected to mouse, touch screen
7	Network interface	100M/1000M adaptive network port, two lights are Link light and Data light respectively

8	display screen	Can display recording status and IP
9	SOURCE	reserve
10	STREAM	reserve
11	STATUS	Status update
12	RECORD	Control recording start and stop
13	RS232 serial port	RS232-1 serial port, local serial port; Equipment can be controlled according to the code table, usually connected to the central control; RS232-2 serial port, which is a transparent network port. Usually connected to a pan tilt camera;

Table 1.1 6 CH(5*HDMI) Functional Description of Front and back Panels

2 Local Director Interface

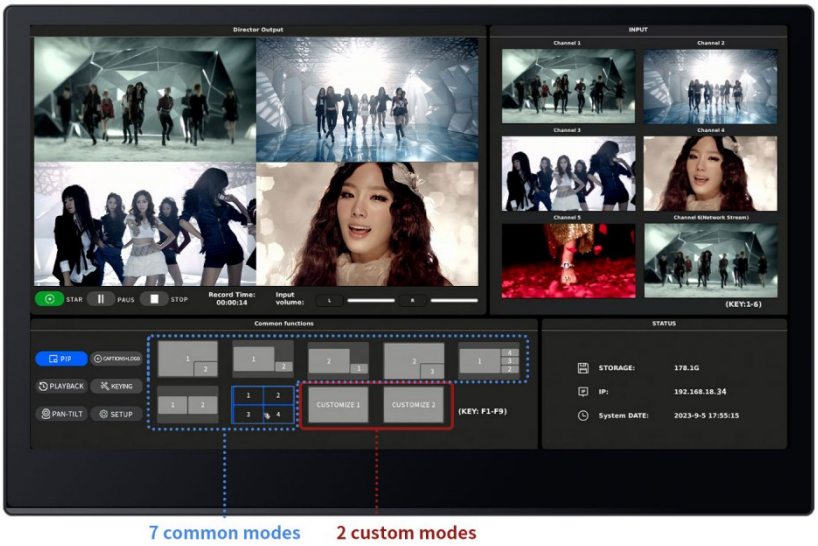
2.1. Director Interface

By connecting: HDMI-OUT1 to the display screen, and connecting the USB 2.0 interface to the mouse/touch screen USB cable, boot up and enter the main interface as shown below. Click on the small screen on the right to guide to the movie mode output



2.2 Picture in Picture

Picture in Picture includes 9 picture modes, including 7 commonly used modes and 2 custom modes. Clicking on the corresponding picture mode can guide the playback to Picture in Picture mode output; You can also control picture in picture or movie mode output through keyboard shortcuts.

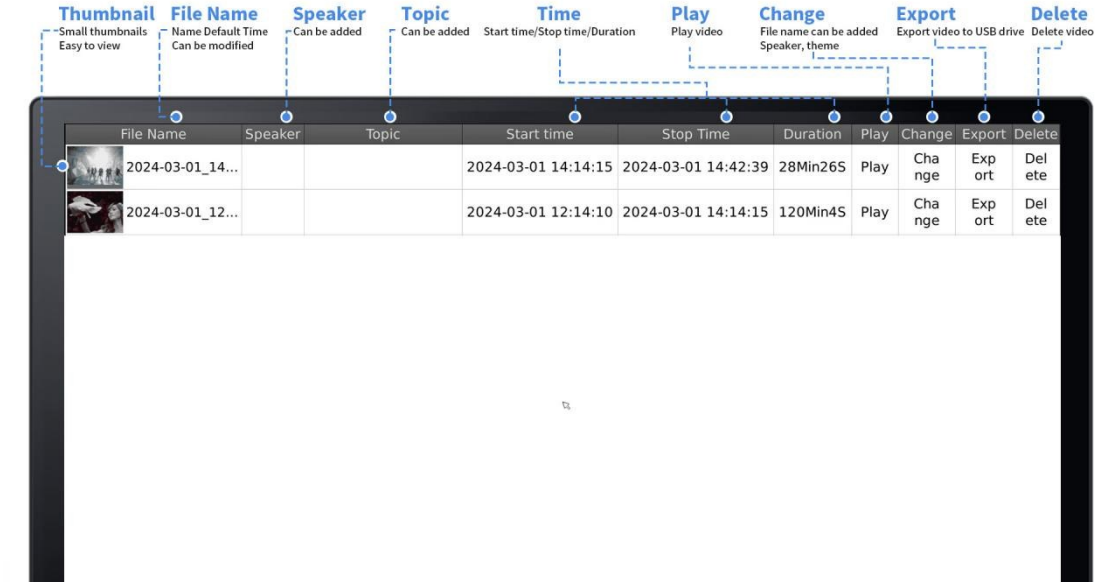


2.3 playback

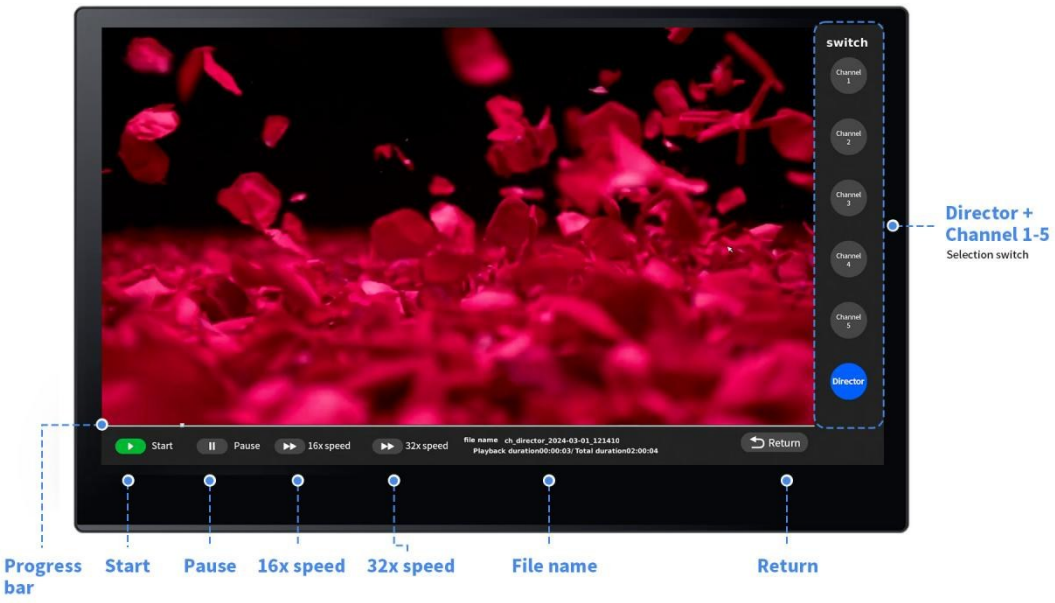
Enter the 【 Playback 】 interface by clicking on the touch screen/mouse



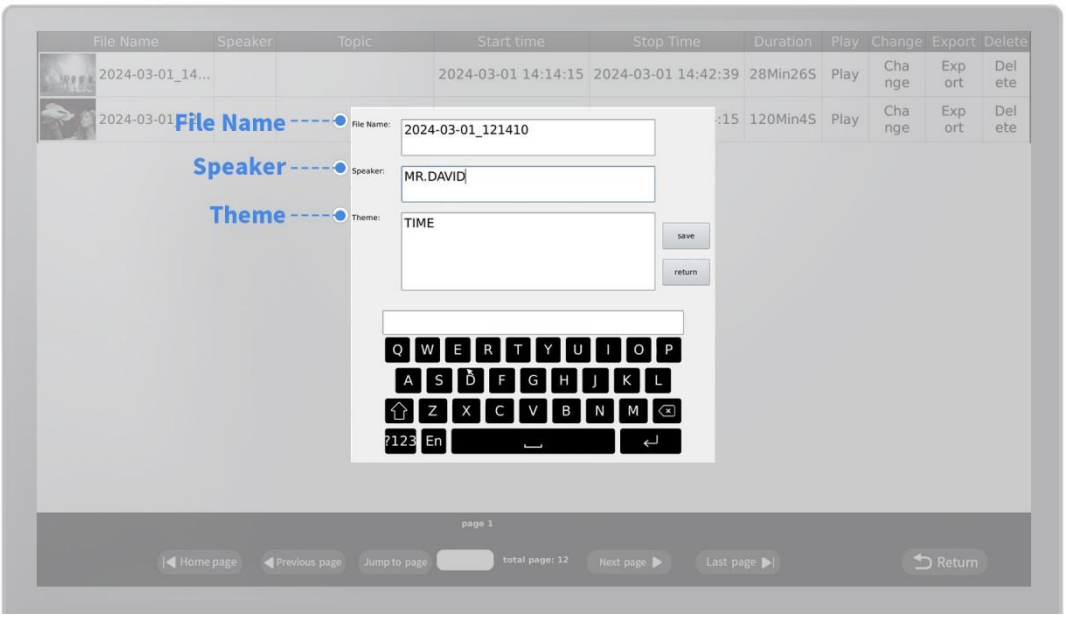
Enter the playback main interface, where the default interface displays the thumbnail of the recorded video, file name, recording time, on-demand, modification, USB drive export, and deletion;



Click 'On Demand' to enter the video playback, and on the right side, you can select the guidance CH or the 1-5th CH; Below is the playback/pause/16x/32x playback. When entering the main interface, the default is to directly play the guidance path file. The progress bar can be clicked to jump, and the file name and return can be found in the lower right corner;

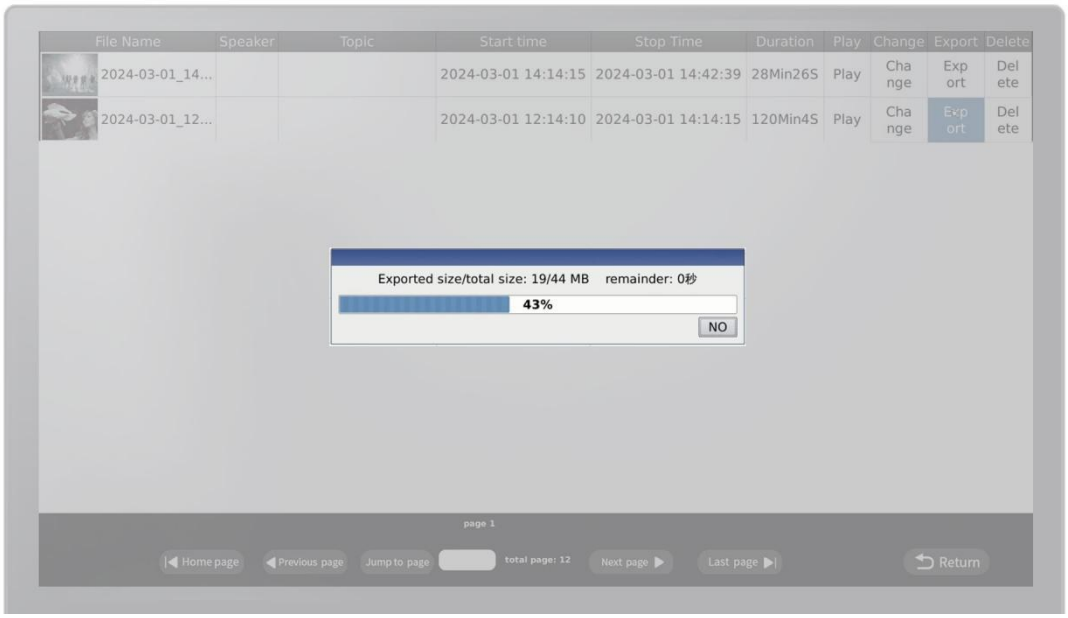


Click 'Modify' to modify the file name, add the speaker, and theme. Click 'Modify' to trigger the virtual keyboard;

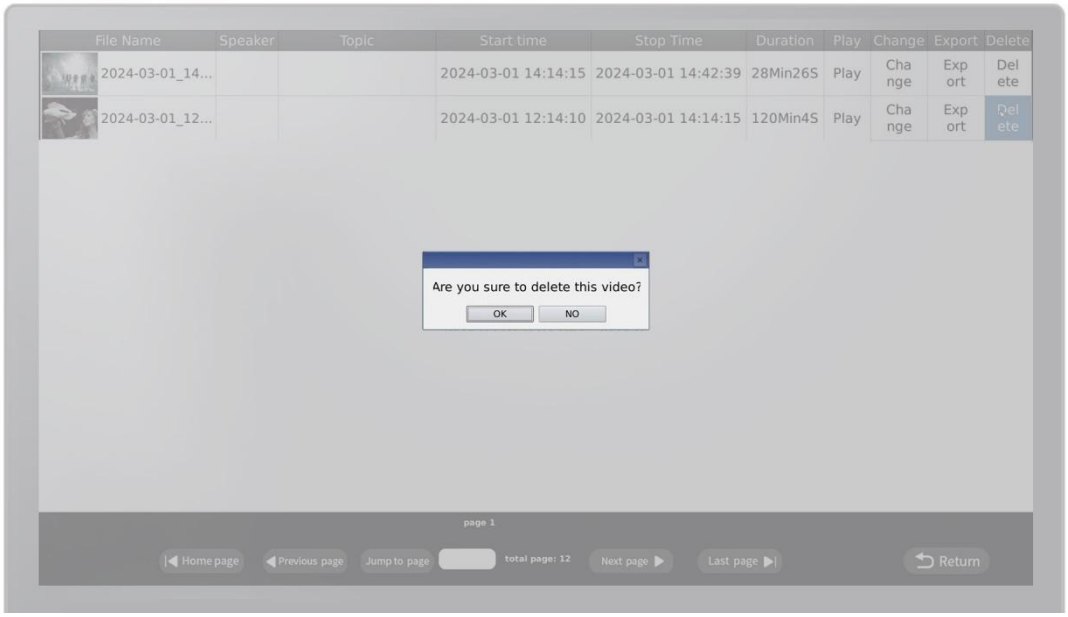


Click 'Export' to export the video to the inserted USB drive, and a progress bar will pop up to start exporting the file;

If the USB drive is not inserted or the file format of the USB drive is incorrect, a prompt window will pop up; USB drives only support 16GB or above NTFS format. If USB drives cannot be exported, please format external disks in Settings>Disk Management>.

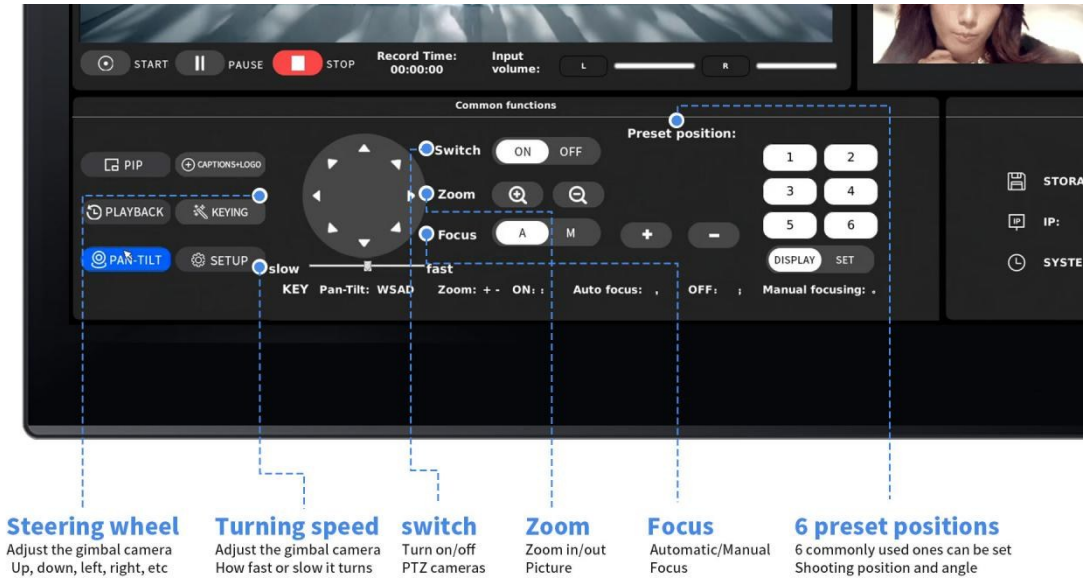


Click [Delete] to pop up a window and confirm again whether to delete.



2.4 PTZ

By using touch control and mouse or keyboard shortcuts (WSAD) to control the PTZ camera, the PTZ camera of the CH can be controlled based on which CH it is directed to. The address code is used to distinguish which CH (IN1-IN6) is used, and the address code 0x81 corresponds to the PTZ control of the first CH. Each subsequent CH has an address code of+1.Only supports the control of the VSIA protocol on the PTZ. Please use the remote control that comes with the PTZ to set the VSIA address. The baud rate is 9600.



2.5 Subtitles + LOGO

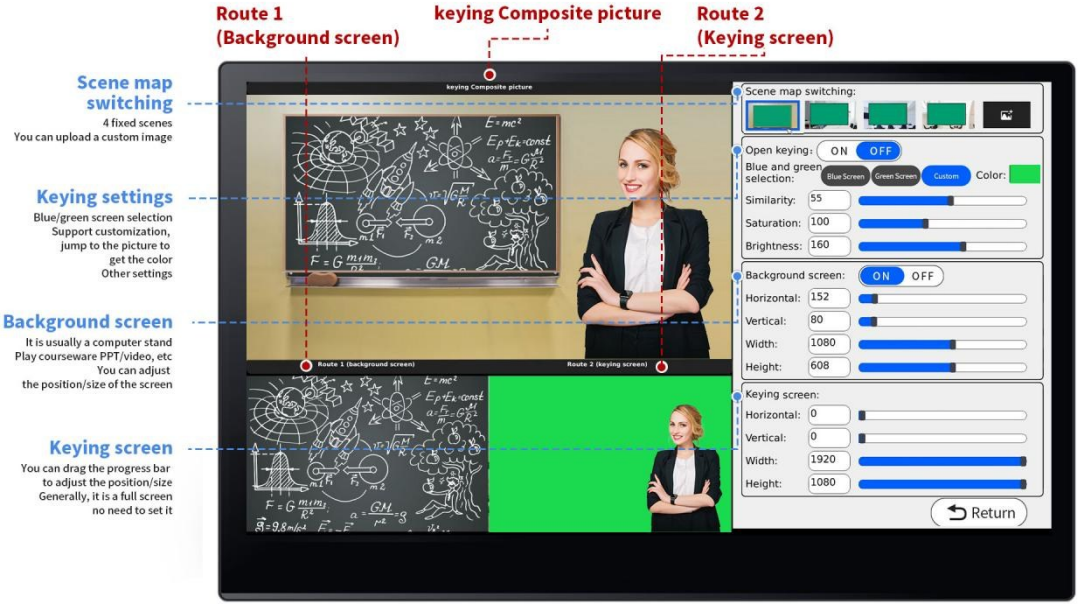
Control through touch and mouse or keyboard shortcuts.



2.6 KEYING

Enter the image cutout interface through touch and mouse。





Scene image switching: 4 fixed scene images, 1 customizable image, custom image size: 1920 * 1080

Cutout settings: The blue/green screen can be selected to separate the background

You can also choose custom colors, and the parameter settings can refer to the image:

Click Custom: Enter the custom color selection, which will take a screenshot from the second channel (cutout screen) and display it. Click on the location of the custom color selection to obtain the custom color. I recommend using this method to set up.

Background screen: Usually playing PPT/video on the computer stand

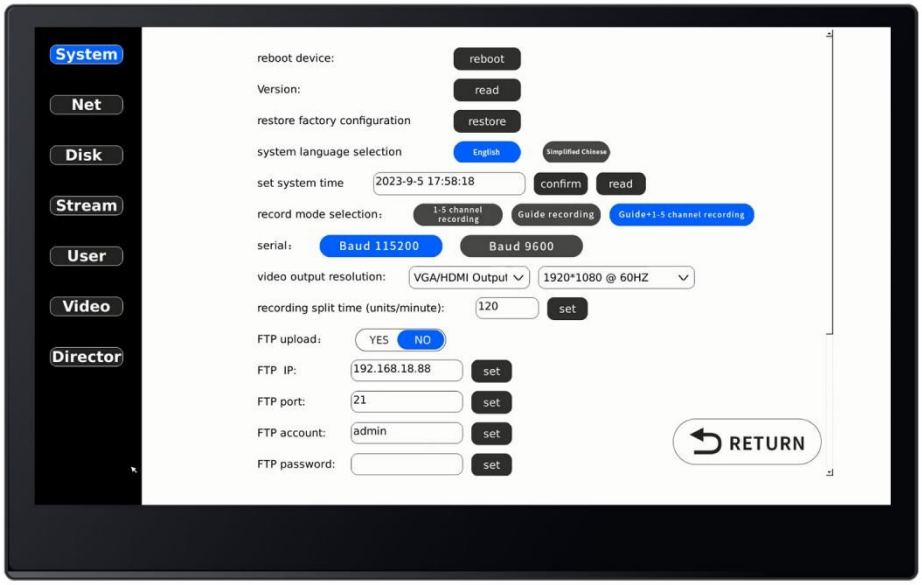
Cutout screen: Generally, it is a camera screen with a screen, which can be set by dragging the progress bar. The default is full screen cutout, please set according to the actual application scenario.

2.7 Setting interface

Enter the settings interface through touch and mouse.



Change the configuration according to your own needs. Detailed introduction can be found in Section 4: Settings.



3 Live streaming, recording, and on-demand

3.1 User login

3.1.1 General users: Enter: http://192.168.18.34:8080 , can access the general user page, please contact the administrator for username and password; Default IP: 192.168.18.34

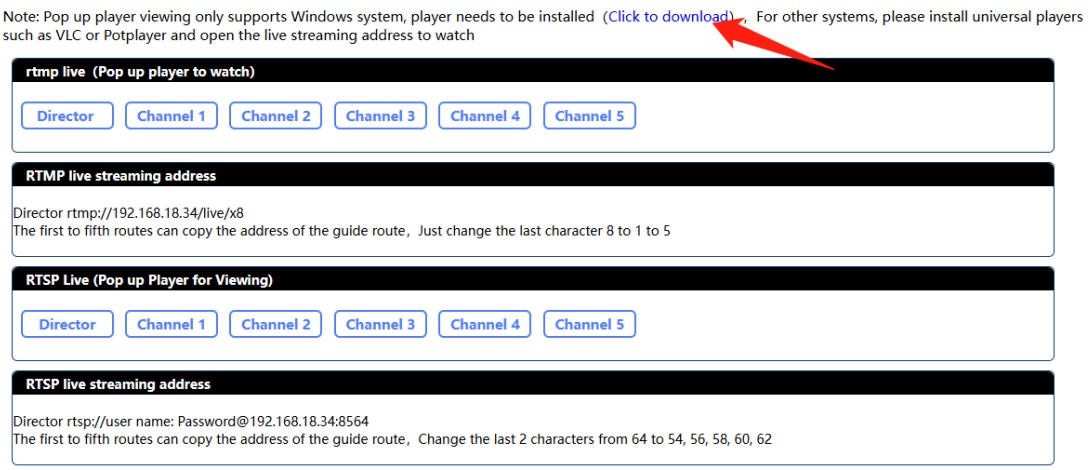
3.1.2 administrators： On the general user page, click on the administrator login button in the upper right corner to enter or directly enter the IP address of the recording and broadcasting all-in-one machine. Account admin, please contact the administrator to obtain the password

Attention: Generally, users need to add port 8080, while administrators can directly use port 80. The administrator page only has recording and setting buttons, and most users can only watch live broadcasts and on-demand broadcasts

3.2 Live streaming viewing

3.2.1 rtmp Live

To view the live broadcast, a player needs to be installed first, as shown in the following figure：



rtmp Live streaming function description：

Click the button to pop up the player and watch the live broadcast：



3.2.2 rtsp Live streaming function description：

Click the button to watch the live broadcast, and the player will pop up to play。

3.3 PLAY

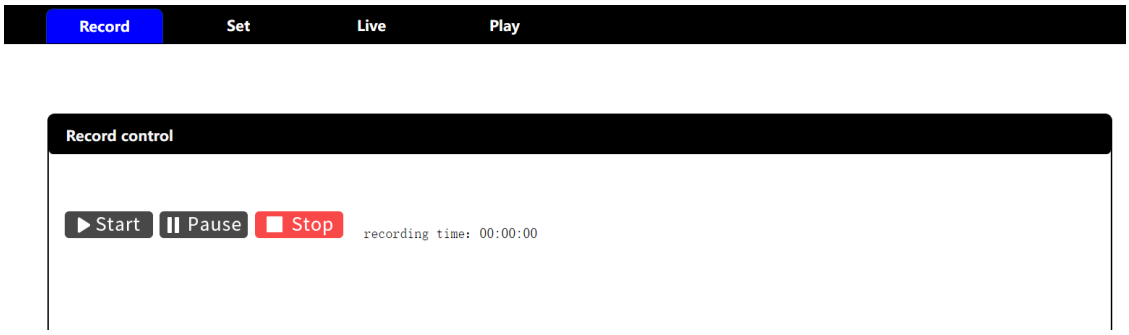
The administrator interface has more delete and modify buttons than regular user pages, allowing for deletion and modification operations。



On demand is the main stream for watching recordings, with generally high image resolution and bit rate. If it lags, please download and play it. Each channel is in standard MP4 format and can be directly imported into high-definition non coding software for post-production.

3.4 Recording

The following image shows the screen being recorded：



Click on [Record]: to manage the recording and display it in green
Click [Pause]: The recording will temporarily stop and appear in blue.
Click [Stop]: to stop, it will appear in red, and the file will only be generated after stopping.

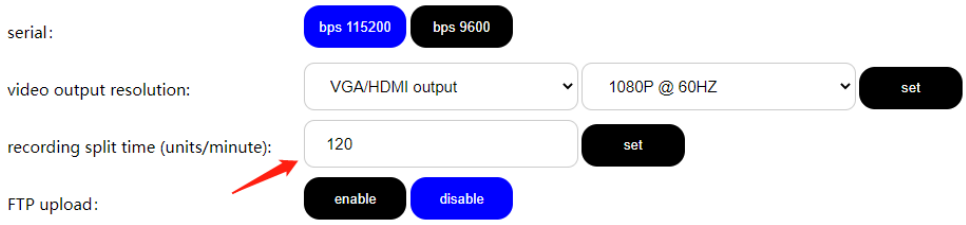
Take care： By default, loop coverage and automatic segmentation functions are enabled。

【Loop coverage】 When the available space on the local hard drive is less than 10Gbyte, the oldest file will be automatically deleted to ensure that the hard drive has available space。 If the recorded file is very important, please download and save a copy from the on-demand list after recording is completed.

【Automatic segmentation】 It refers to the regeneration of a recording directory every 120 minutes after starting recording. Once the recording starts, the device will continue to record。

Take care： If you are in recording mode, please do not turn off the power directly. Click on stop operation in the touch screen/serial port or browser to complete the generation of the recording file。

Take care： The automatic segmentation time can be set arbitrarily, with a default of 120 minutes. The setting method is shown in the following figure：

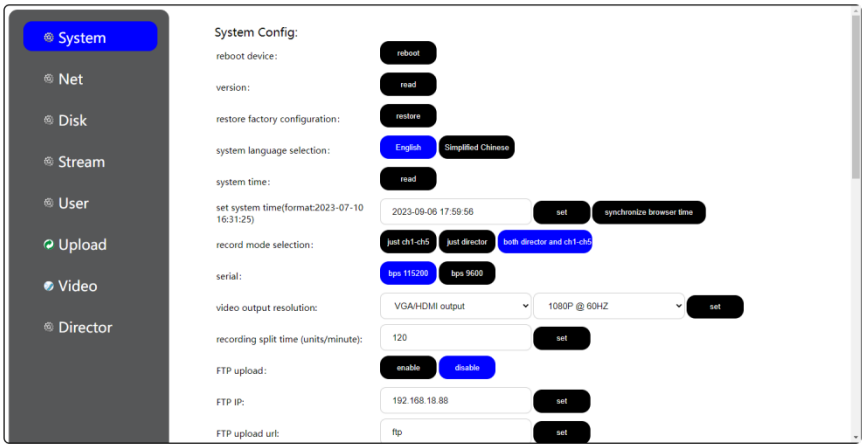


Attention: All models support recording protection, and can automatically recover by suddenly turning off the power and then turning on.

4 SET UP

Enter the administrator page of the all-in-one recording and broadcasting machine ->Settings ->Enter the configuration interface：





4.1 System settings

Below is a detailed explanation of the system configuration：

4.1.1 Restart device: Restart

4.1.2 Restore factory configuration： Restore all configurations to factory settings

4.1.3 System Language Selection： Simplified Chinese、English Select (restart takes effect)

4.1.4 View time： View the current system time

4.1.5 Set time： Please set the format according to 2023-07-10 16:31:25, You can also synchronize the current browser time to the device

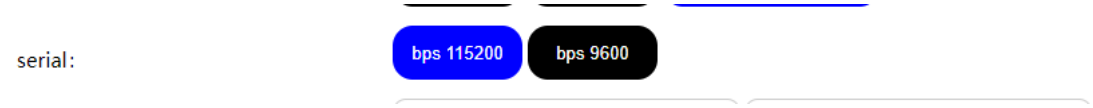
4.1.6 Mode selection：

1st to 5th recording mode: Only record 1st to 5th channels, do not record the live broadcast of the guide channel, and the live broadcast of the guide channel will be turned off

Recording of guide path: Only record the guide path

Guidance+1-5 recording modes: Record the 1-5 channels and the guidance channel (default to this mode at the factory)

4.1.7 Serial port 1：



Local mode baud rate selection of 115200/9600, no flow control。

Support the following command controls:

Command list, character [start, character] end

[BN:12]Recording begins

[BN:14]Recording paused

[BN:13]Recording stopped

[BN:11]Restart

[BN:29]Restore Factory

[BN:1]Cut to Camera 1

[BN:2]Cut to Camera 2

[BN:3]Cut to Camera 3

[BN:4]Cut to Camera 4

[BN:5]Cut to Camera 5

[BN:8]Cut to Camera 6（Video stream）

[BN:9]Switch to picture-in-picture mode

[BN:19]Query Status: Return Format：

ip:\0192.168.18.52\0\0version:1.2.0 date:2021-09-14\0\0\0\0Filesystem Size Used Available Use% Mounted on\0/dev/sda1 931.1G 41.8G 842.7G 5% /nand/mnt/usb\0\0

Return Format Description：IP address, version, disk status (percentage of total space usage and remaining space usage)

Note：

1.RS232-2 Serial port 2 is dedicated to connect the cradle head camera, with instructions for use in 4.7.4

4.1.8 VGA/HDMI Echo

Click Settings ->System Settings ->VGA/HDMI Echo Resolution Settings on the homepage to set the resolution of the VGA/HDMI interface output.



Note: Factory default configuration: VGA/HDMI dual echo display, fixed HDMI1/HDMI2/VGA 3 interfaces 1080P@60HZ Resolution output, fixed local broadcast 1080P@60 Resolution output.

If you need to change the resolution, you need to select Settings ->Navigation Settings ->Display Mode, and select both HDMI1/HDMI2/VGA for full screen navigation or decoding. This setting item will allow you to set the resolution of the VGA or HDMI interface. Adjust the HDMI1 resolution as shown in the following figure：



4.1.9 Recording segmentation time setting



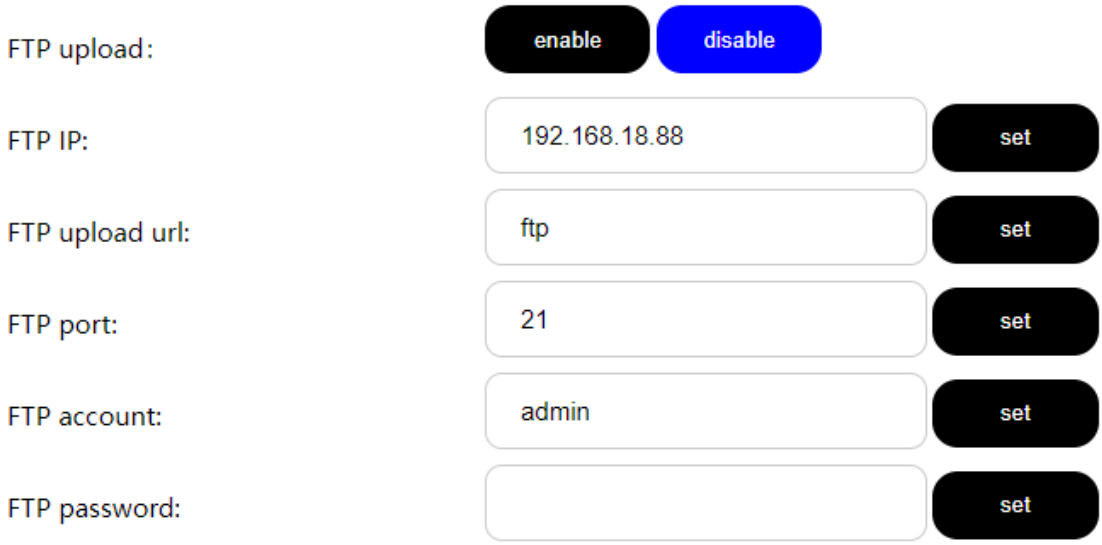
Set the recording interval to 1-43200 minutes. After starting the recording, it will continue to be recorded according to the segment time until it stops recording

4.1.10 FTP automatic upload

Each directory that generates a new recording segment time will trigger an upload operation, and only the newly generated recording directory will be uploaded;

To use the FTP function, you need to configure the FTP IP, the path for storing FTP uploaded

files, the FTP port, and the FTP account password
For example:



FTP automatic upload: enable/disable
FTP IP: FTP server IP address
FTP upload file storage directory: FTP server file save path
FTP port: FTP server port
FTP account: FTP server account
FTP password: FTP server password

4.1.11 Encoding format selection



If H264 encoding format is selected, recording/live streaming/on-demand will be encoded according to H264 format（Factory default is H264）， If H265 encoding format is selected, recording/live streaming/on-demand will be encoded according to H265 format. RTMP live streaming does not support H265 encoding format

4.1.12 Encoding class selection



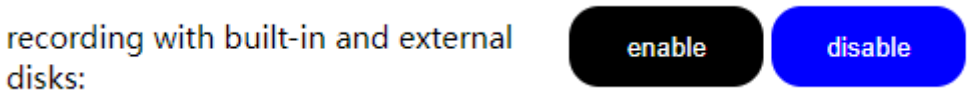
H264 supports the above three encoding classes, while H265 only supports encoding for the main class. Automatically hide this option when selecting H265 encoding format

4.1.13 Automatic recording upon startup



Does the device automatically record when powered on

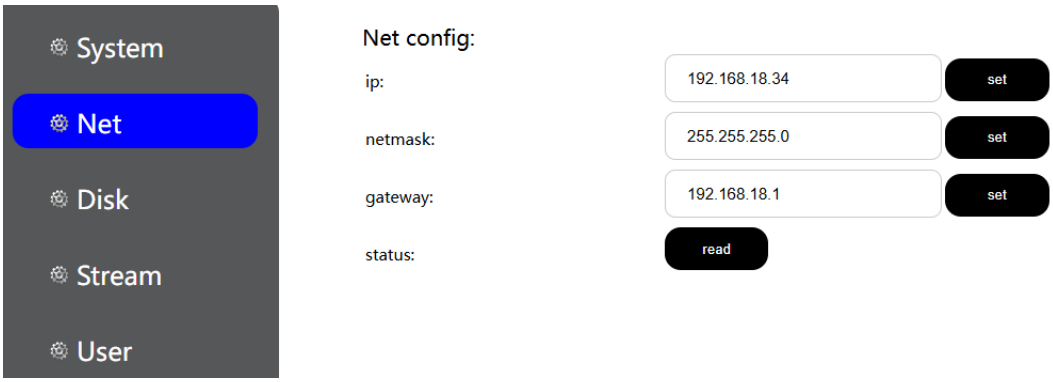
4.1.14 Selection of simultaneous recording with built-in and external disks



When the device is connected to an external disk/USB drive, you can choose to enable recording files on both the internal and external disks. Otherwise, only the internal disk will be recorded

4.2 Network configuration

4.2.1 IP(default：192.168.18.34)



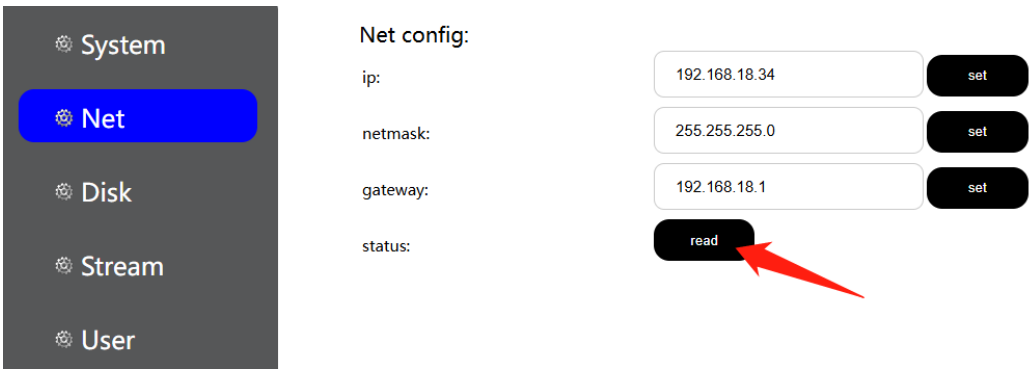
How to handle forgetting the IP address of the recorder

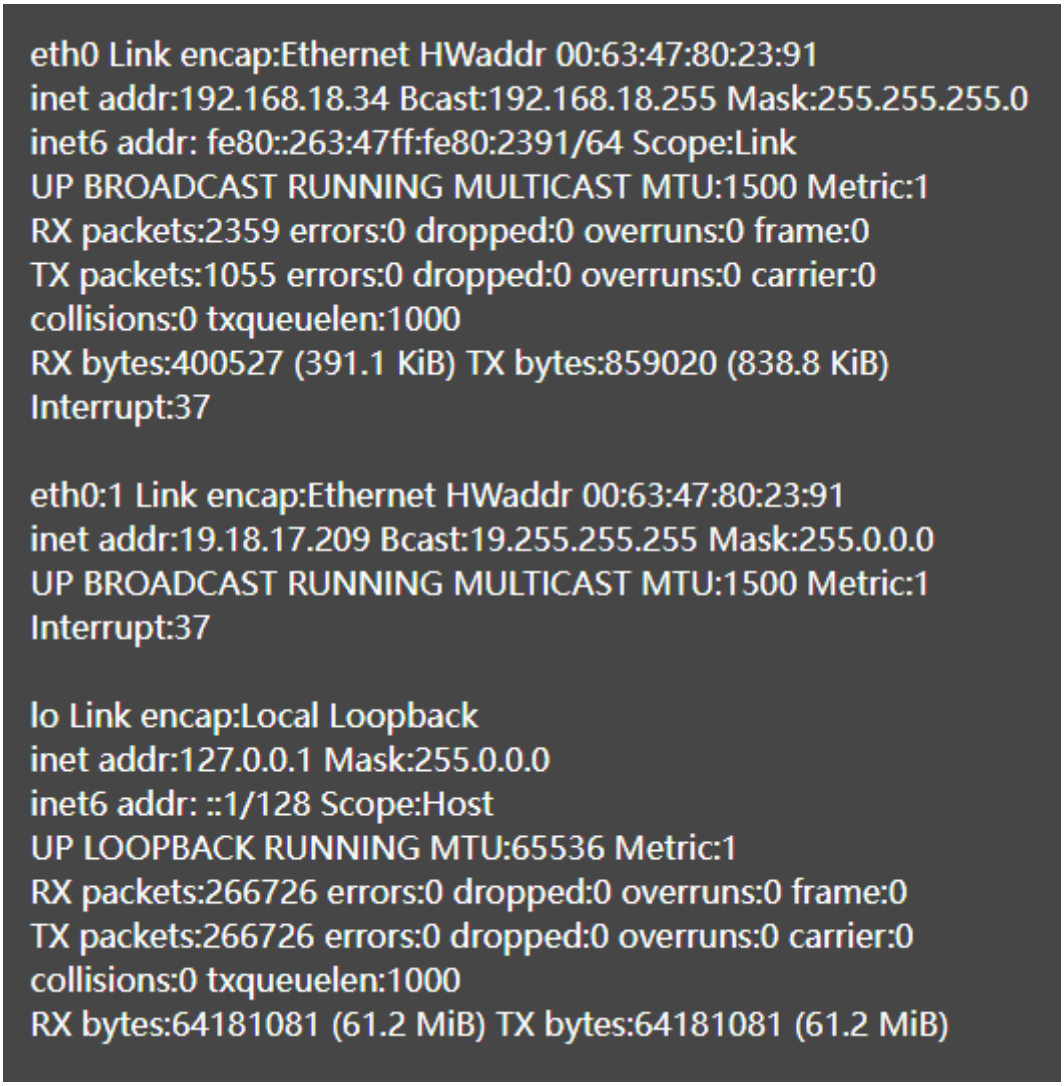
Access using 19.18.17.209. After changing the configuration, you can click View Status ->View. This IP cannot be changed

View the current work IP address

Eth0 corresponds to the IP address of the first network port, and you can see the MAC address, receiving and sending status, etc.

Eth0:1 corresponds to the default IP (19.18.17.209), which cannot be modified. I forgot that I can use this IP to log in to the webpage





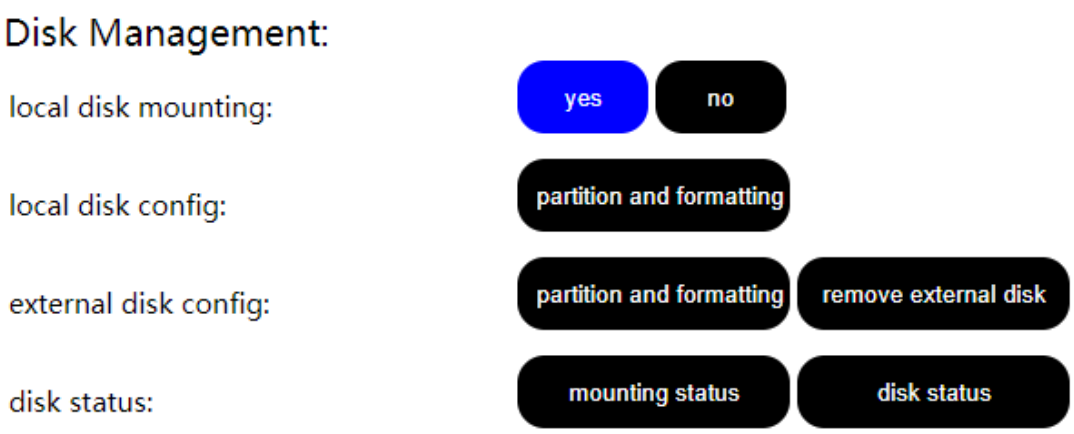
4.3 Disk management

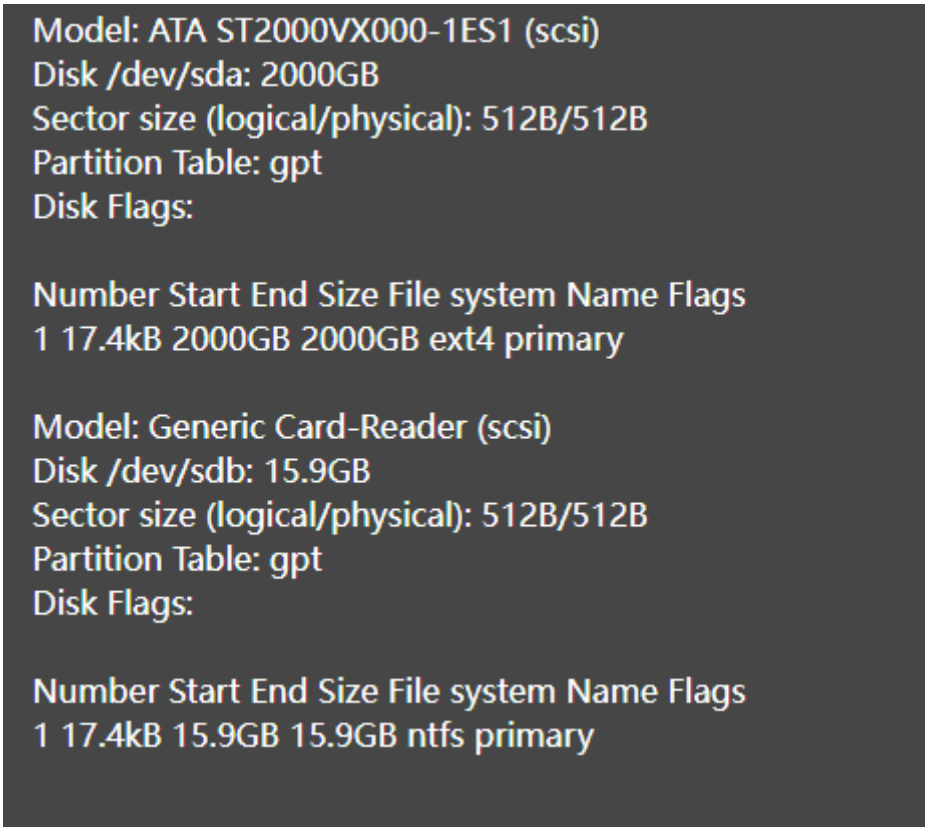
Device Definition：

The SATA interface is called a local disk and is usually fixed inside the device;

The USB interface connects to an external disk, usually a USB drive or a portable hard drive;

Click on the disk status to confirm that the hard disk recognition is normal：

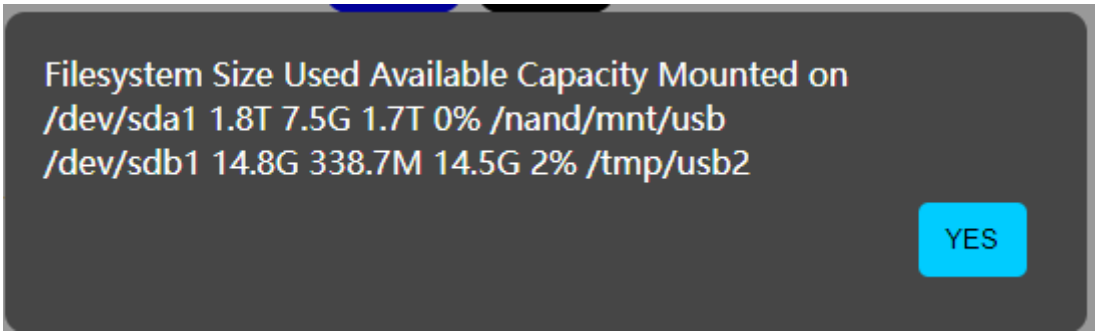




Click on the mount status to confirm if the mount is normal：



If the mount is successful, it can be recorded, and the above is a screenshot of the successful mount。：

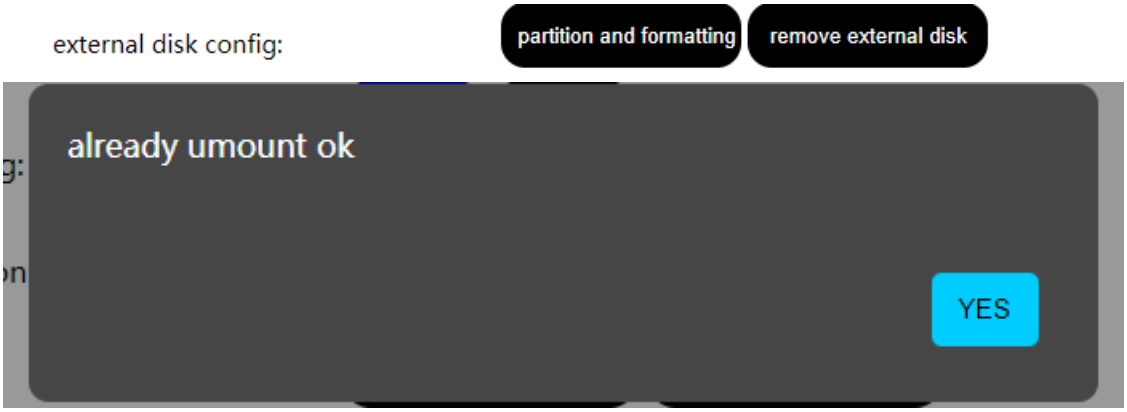


If the mounting is unsuccessful, the disk needs to be formatted



After recording stops, unplug the USB external disk：

You can click the safety pop-up button, and the status will return to OK to unplug it；

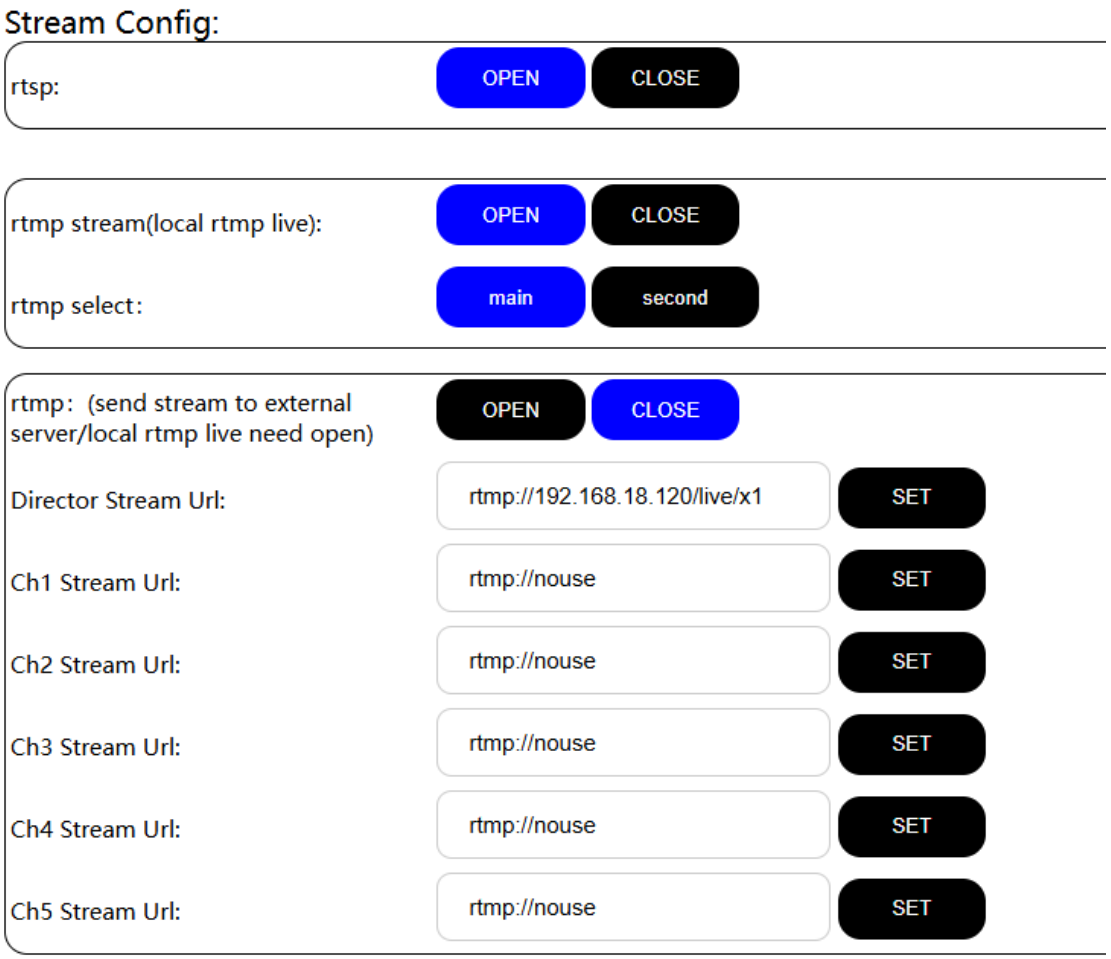


Note: Not clicking on the pop-up button or waiting for 45 seconds to directly unplug may cause damage to the real-time recorded files in the USB drive. If damaged, please delete and then import a file from the local hard drive。

Enable disk mounting to use. The default configuration is enable. If not needed, click close；



4.4 Network flow configuration



4.4.1 RTSP configuration

RTSP stream: on/off

RTSP stream address: (admin: password, these two items are consistent with the general user account and password of the browser, and ordinary users can also access RTSP.)Route 1:

main stream rtsp://admin:password @IP: 8554 (add 2 for each subsequent port)

Auxiliary flow rtsp://admin:password @IP: 8555 (add 2 to each subsequent port,+1 to the mainstream port)

Director Stream

main stream rtsp://admin:password@ip:8564

Auxiliary flow rtsp://admin:password@ip:8565 (Mainstream Port+1)

Note: The default mode for rtsp transmission is udp mode. If you want to use public network transmission, please use rtsp over tcp and only use one port for tcp transmission. Please add -rtsp-tcp parameter for Vlc playback, and - rtsp for ffplay_ Transport TCP; Decode it yourself and add it to the stream address? TCP

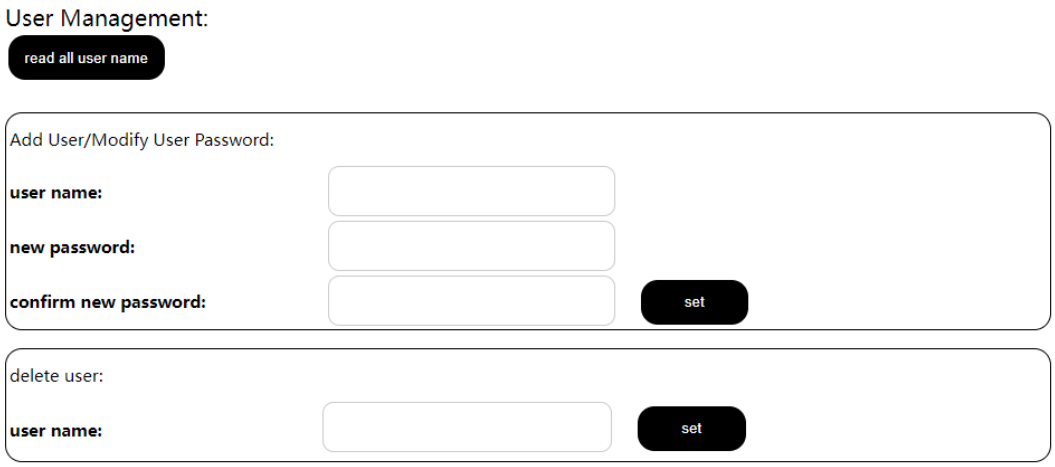
4.4.2 RTMP configuration

rtmp stream (local rtmp live): on / off (Set the on and close of the local rtmp stream)

rtmp select: main stream/second stream (Specify the current rtmp stream as the main stream, or the minor stream)

rtmp stream (send stream to external server/local rtmp live need open): On / off (switch controlling external rtmp stream, effective in real time)
1st to 5th RTMP streaming address and director streaming url: Same as above
Note: To push to an external RTMP server, simply fill in the complete path of RTMP. For example, the IP address of the computer where FMS is installed is 192.168.18.120, and the first stream url1 is directly filled in rtmp://192.168.18.120/live/x1 Will be pushed to the server

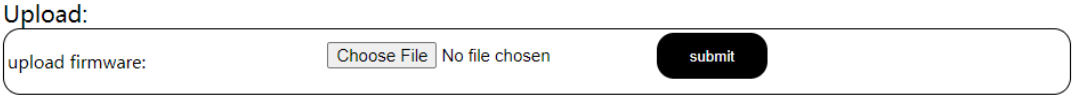
4.5 User management

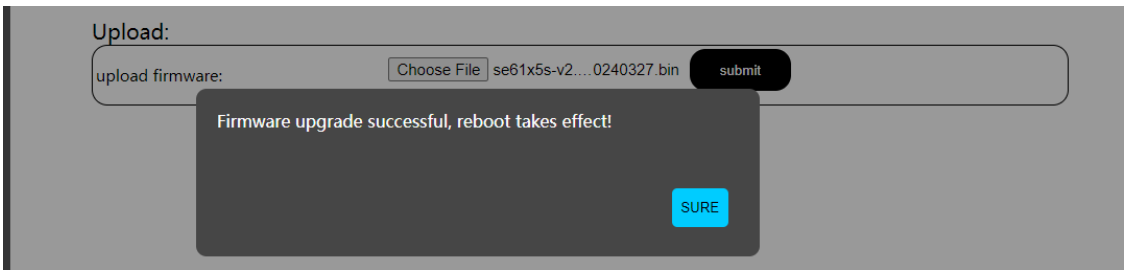


The administrator only has one account, admin, and can change the password. If you forget the password, please click on the factory settings on the touch screen panel to restore it to the factory password.
Regular users: Regular users need to access web pages and mobile apps. Can add, delete, modify passwords, view all users, and other operations.
Please note that changing the password will take effect in real time. Please refresh the webpage.

4.6 Online upgrade

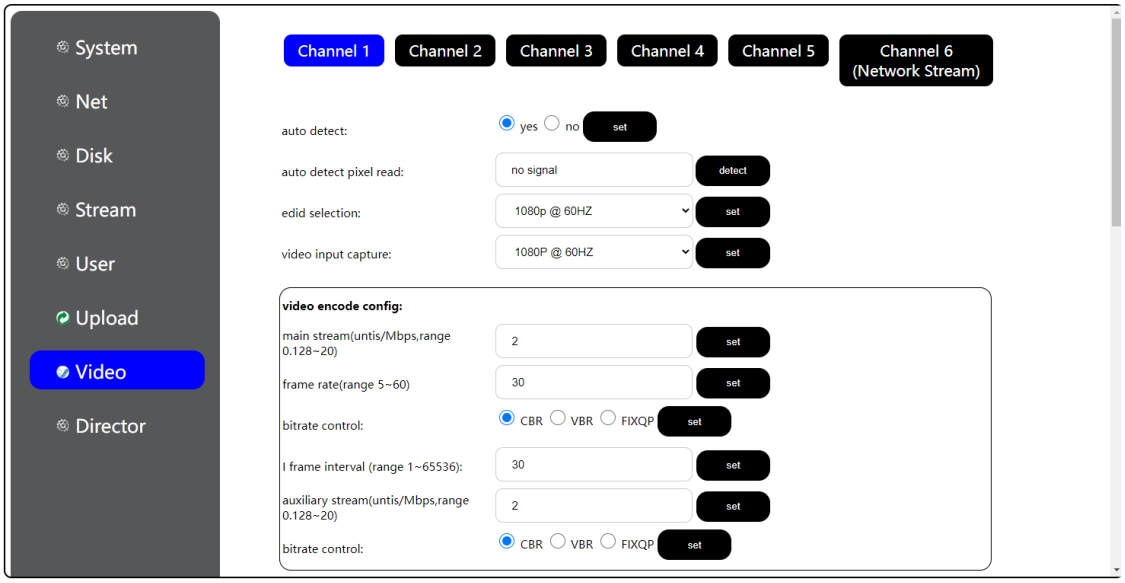
Please submit our dedicated upgrade package for online upgrades,If submitting incorrect files may result in equipment errors and can only be returned to the factory for repair, please operate with caution!!!
It is generally recommended to submit using Google Chrome, as shown in the following figure after successful upgrade.





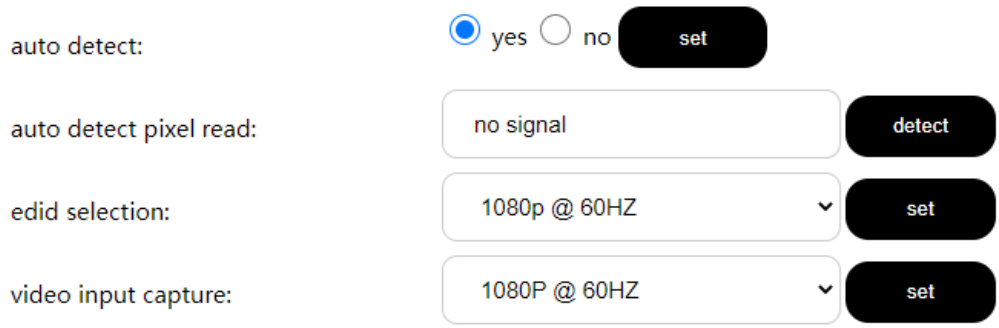
After upgrading the system settings ->Reboot will take effect

4.7 Video input settings



Note: The first to fifth channels of the 6CH series are physical interface inputs, while the sixth channel is network stream input。

4.7.1 Video input configuration



Automatic detection: Yes/No

Enable automatic detection. When turned on, it will work at the effective signal resolution of the new detection, which is enabled by default;

Turning off automatic detection will only work with resolutions from the formatted list;

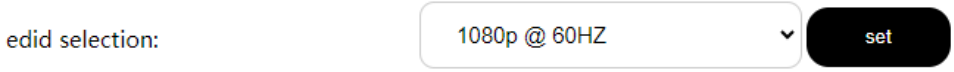
Attention: It is not recommended to plug and unplug signals with power, as there may be safety hazards. Replace the signal source, please turn off the power and plug in the signal before turning it on.

Attention: Turning on or off the signal source does not affect it. The device will detect in real time whether the signal source is valid or invalid. If it is invalid, a no video image will be inserted to replace the signal source.

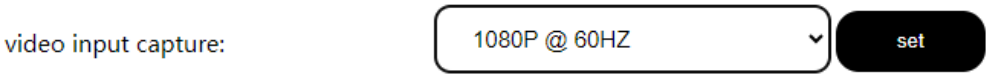
Note: Since effective signal source resolution is only detected when the device is turned on, if you need to replace the effective signal source resolution during use, please click on System Settings ->Restart



Automatic detection resolution: The list will display the current input resolution. If there is no signal connected, it will display no signal input. Clicking the re detection button will reload the current resolution and display it in the list. The system will dynamically detect the current signal, and if there is no signal, a black background image of no video will be automatically inserted.



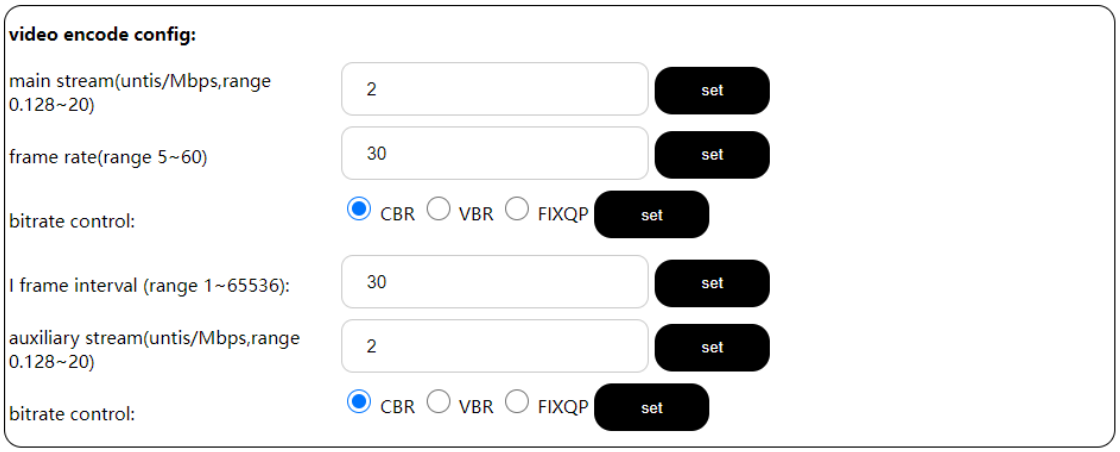
Input 4k must be selected 4K@30 Only with the EDID can images be generated.



When the automatic detection button is selected as "No", the collection will be carried out according to the resolution configured in the format collection list. When automatic detection is turned on, this setting can be ignored.

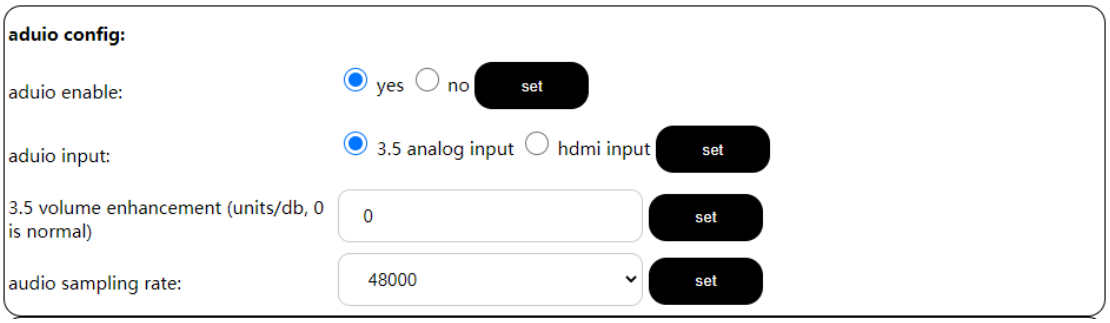
4.7.2 Video main and auxiliary code stream configuration

Video main stream encoding configuration and video auxiliary stream encoding configuration, users can set according to their own needs



Note: The bitstream unit is Mbps, please configure 2000kbps to 2

4.7.3 Audio configuration



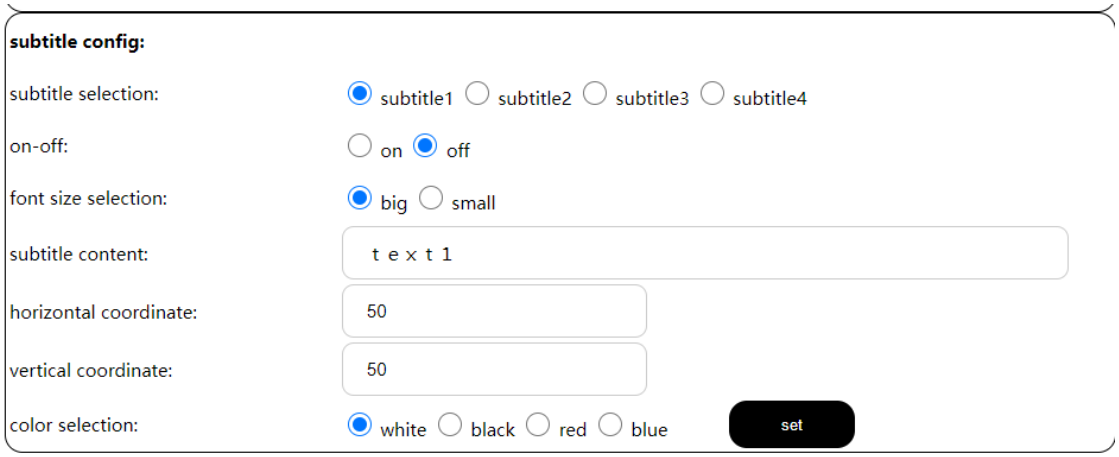
Users can choose whether to encode the audio, encoding type, and volume enhancement according to their needs

Attention: The first audio corresponds to the 3.5 audio in input port of the all-in-one recording and broadcasting machine. If you want to use digital audio, please select HDMI embedded. Regarding the 3.5 volume enhancement, the general range is 0-30, and if it is too high, there may be background noise. Please adjust according to the actual situation.

4.7.4 Subtitle overlay settings

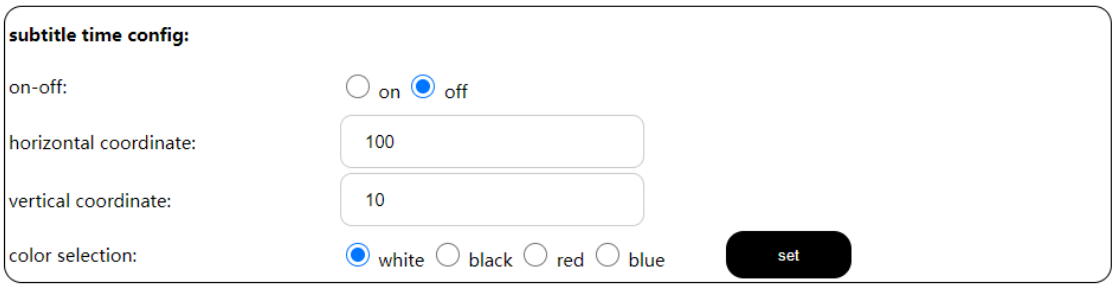
Taking the first route as an example:

Click on Settings ->First Path ->Subtitle Overlay on the homepage to overlay the corresponding subtitle display in the video. The font content, font coordinates, font size, and color can be defined by customers themselves

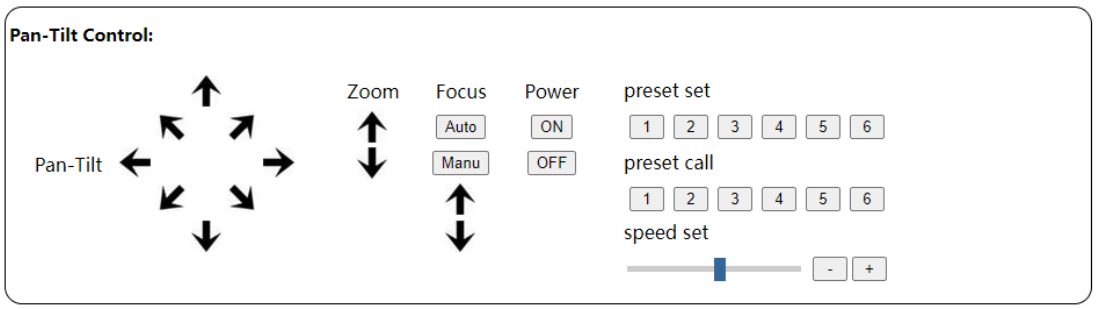


The overlay time and subtitle function are the same, and the current time is refreshed in real-time

Attention: The time overlay configuration needs to be updated. Please close it first and then open it again



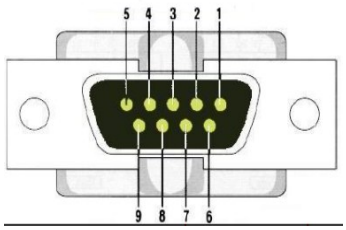
4.7.5 PTA control



Note: The PTZ camera is uniformly connected to serial port 2, and multiple PTZ cameras need to cascade the PTZ serial port of the camera. The address code 0x81 corresponds to the PTZ control of the first CH, and each subsequent CH has an address code of+1

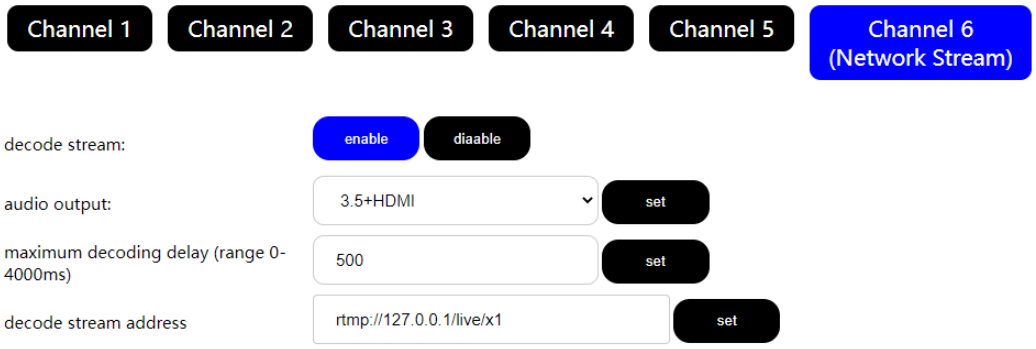
Choose the VISCA protocol, Baud rate 9600.

Below is the recording machine RS232(DB9)Port definition



NO.	Port	define
2	RXD	Receive Data
3	TXD	Transmit Data
5	GND	System Ground

4.7.6 Route 6 (Network Flow)



1: Fill in the address of the stream to be solved in the 6th (network stream) address, and it is recommended to fill in 500ms for decoding delay

Note: When decoding is enabled, the decoding stream point setting will take effect in real time, disconnecting the original stream and decoding a new stream address

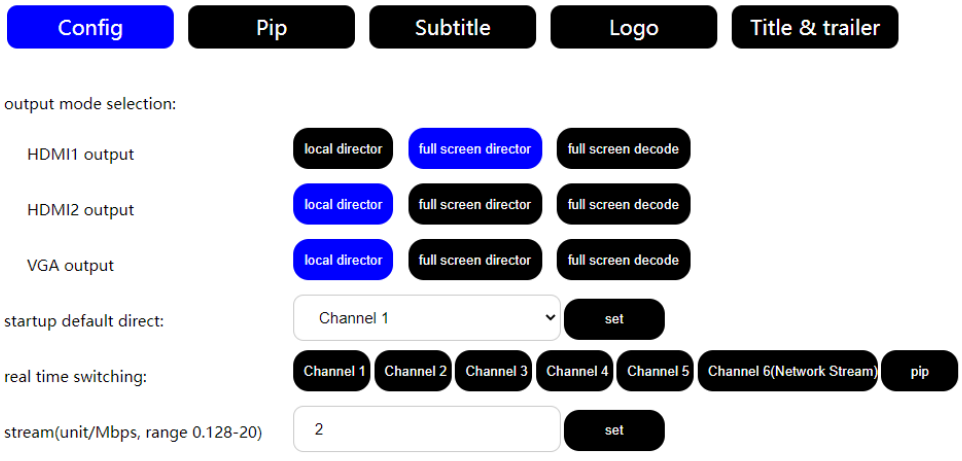
2: If decoding RTSP streams requires cross public network or quality assurance decoding, please add? TCP parameter, which only occupies one port for transmission flow at this time

3: Support rtsp udp/rtsp TCP/HTTP ts/udp ts/rtmp stream decoding. Please use tools such as vlc/ffmpeg to test the playback of the stream before filling in the stream address

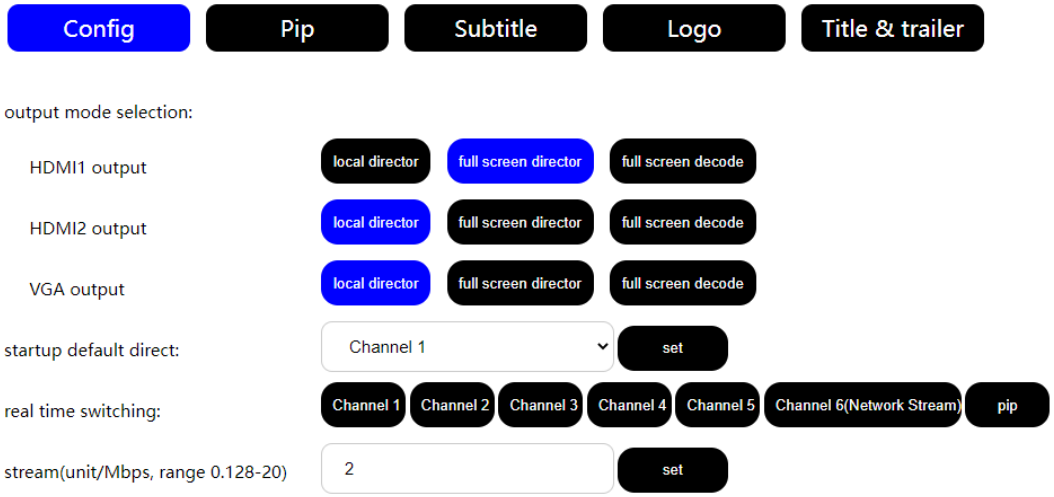
4： The decoded output video can be used as an input source for the pilot stream or can be sent back for display separately； The decoded audio output can be output to HDMI-OUT1 embedded audio output and AUDIO OUT (3.5 audio port) audio output. Attention: Entering the local playback interface will turn off decoding audio output, switch to playback file audio output, and exit playback will restore.

4.8 Directory settings

4.8.1 general setting



4.8.1.1 Echo mode selection



It is possible to set the default startup echo screen and the default guide selection screen.

Echo refers to the content output by the video output interface (VGA/HDMI).
There are 5 modes to choose from, as shown in the following figure:

a. Local Directory
Local Directory： Both VGA/HDMI outputs are local Directory interfaces



b.VGA/HDMI2 local Directory+HDMI1 Directory full screen
VGA/HDMI2 local Directory+HDMI1 Directory full screen: VGA/HDMI2 output is the local Directory interface, while HDMI1 output is the Directory full screen mode



C.HDMI1 local Directory+VGA/HDMI2 Directory full screen
HDMI1 local Directory+VGA/HDMI2 Directory full screen: HDMI1 output is the local Directory interface, and VGA/HDMI2 output is the Directory full screen mode



Local Directory interface

Support local mouse or specified model of touch screen control recording and broadcasting all-in-one machine, recommended to use this mode.

Note: The echo resolution of the above three modes cannot be set and is fixed at 1080P

d.Directory full screen

Full screen Directory：Both the echo and Directory stream display are single screen full screen



e.Decoding output

Decoding output：Echo refers to the decoded output and cannot be switched. The pilot stream can be switched



Directory control



Click to switch between local echo and broadcast screens in real-time. Can also switch between serial port, touch screen, and SDK commands

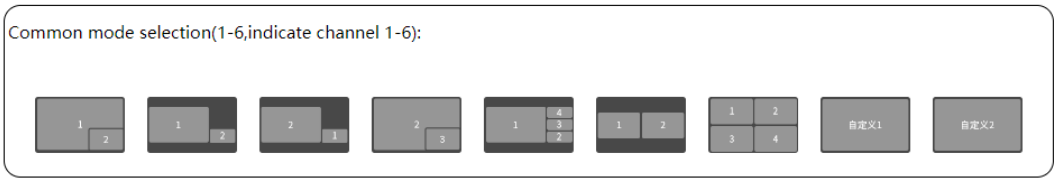
Directory stream

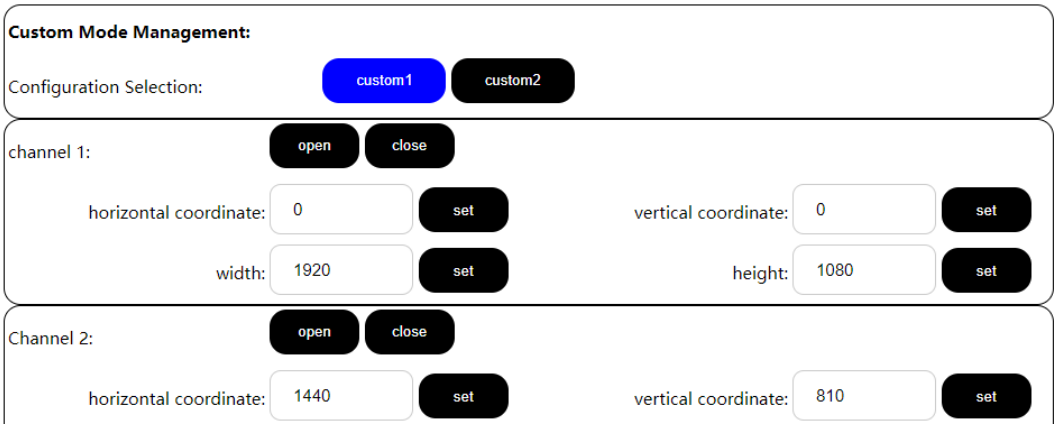


4.8.2 Picture in Picture

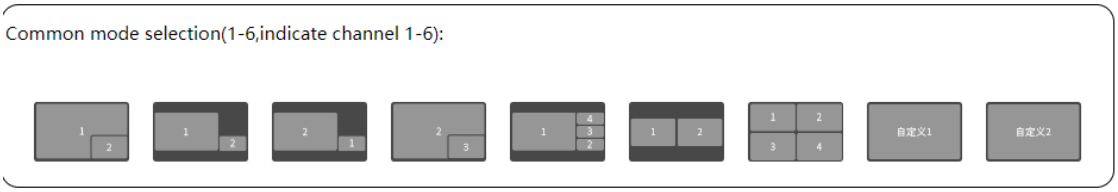
Picture in Picture (PIC) refers to the device's ability to combine six types of local images, including the 1-5th and decoding paths, into one path, and guide them to PIC for recording, on-demand, and live streaming







4.8.2.1 Common mode selection



The commonly used modes are shown in the 9 image buttons in the above figure. Clicking on the selection mode will take effect in real time.

Select the first seven modes to achieve the effect of thumbnail diagram, and the last two custom modes can be set in the following custom mode management according to their own needs, where the image position is superimposed in order according to the number of channels

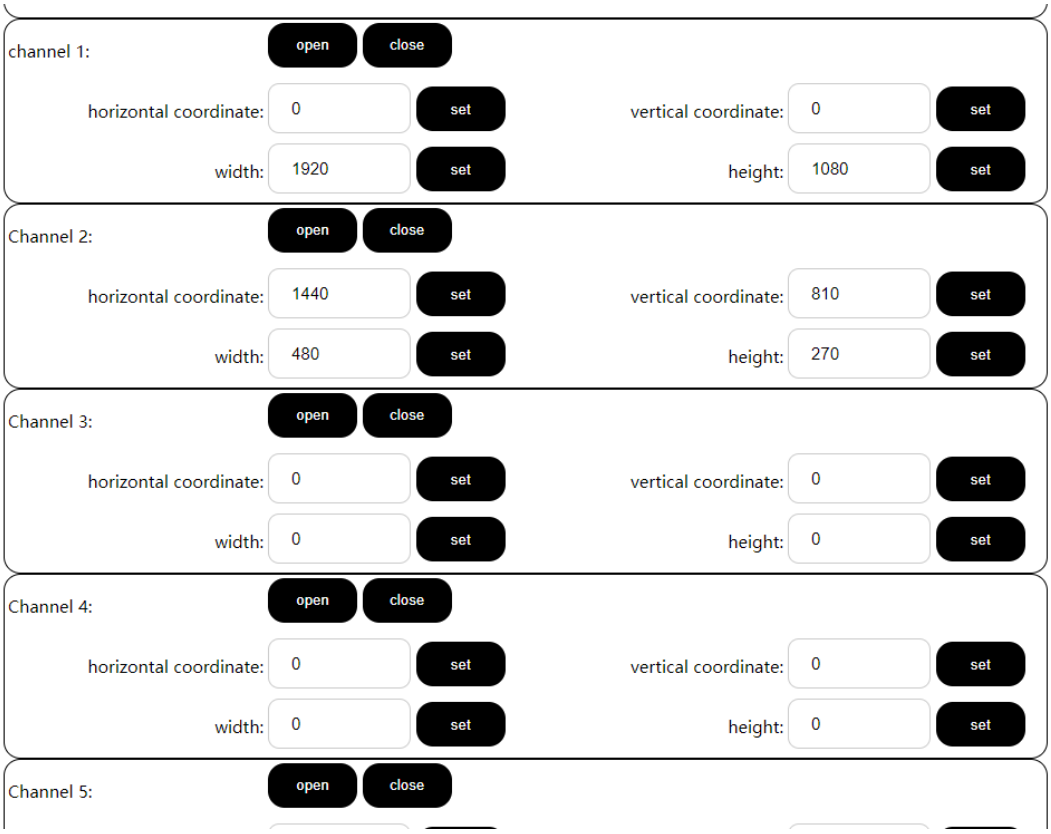
Examples are as follows:

To achieve the in-picture drawing effect diagram is as follows:



As can be seen from the picture, the first road is set with a full screen, and the second road is in the lower right corner. Note that the width of the full screen resolution is 1920, the height is 1080, and the upper left corner is 0.

Custom Mode Management to achieve the above effects- -Set as shown below:



3 / 4 / 5 / 6 can directly close, 1 / 2 can fill in the parameters of the above figure, after setting

the switch-in-drawing mode can take effect in real time.

4.8.3 Subtitle overlay

Reference 4.7.4 Input subtitle overlay settings

4.8.4 LOGO

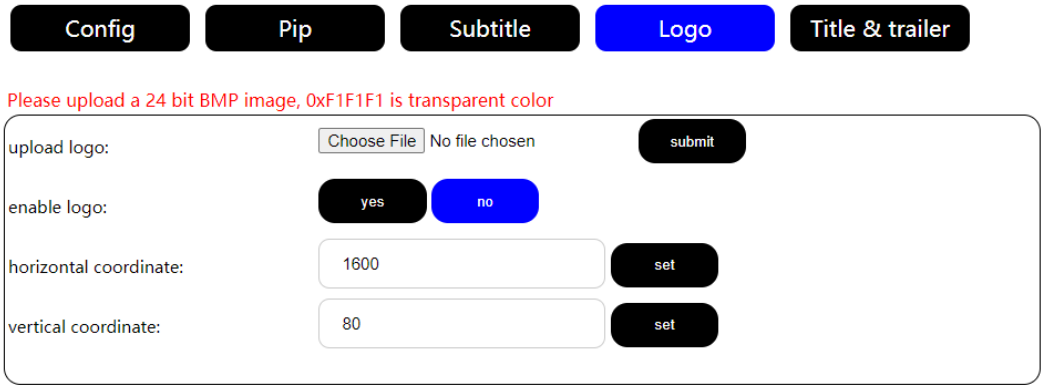
This function can overlay the uploaded logo file to the designated location in the video.

Select File: Select the file you want to display logo，（Attention: Upload a 24 bit BMP image, 0xF1F1F1 is transparent color）

Open logo: Yes/No

Horizontal/vertical coordinates: displayed horizontal and vertical coordinates

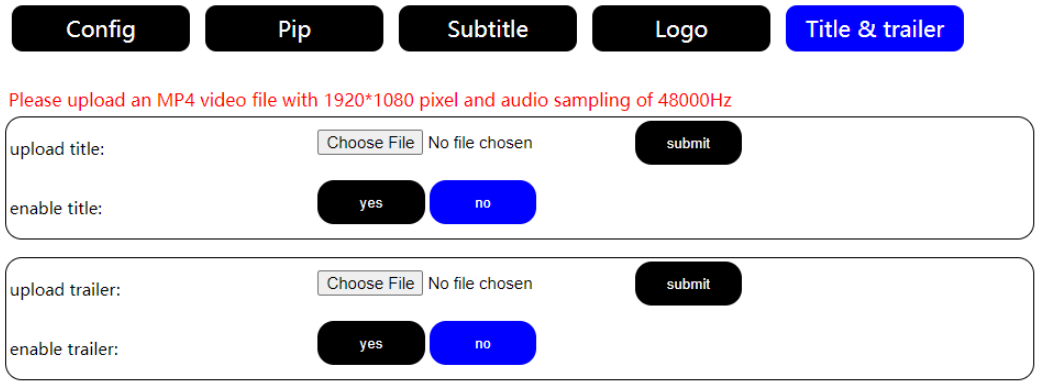
Note: The logo needs to be updated. Select no and then yes



4.8.5 Opening and ending of the film

Select the opening and ending files you need to upload, and upload them

Note: The MP4 format for uploading videos needs to be the same as the recorded MP4 encoding format, and this function is only available for recording on the guidance CHl



After this function is enabled, the files recorded in Directory will automatically be synthesized from the beginning and end to the final file.

5 front panel display screen use

Instructions for using the front panel of the 4K recording and broadcasting all-in-one machine



RECORD： To start or stop recording
STATUS： To update status information
The other two button functions are retained
The first line of the display screen is the IP address of the current device, and the second line is the recording status，
No hard drive： No Disk,Recording： Recording， Stop recording： No Record。

6 SDK interface

1. Streaming interface tcp
First route: main stream 8888, secondary stream 8887
Second path: main stream 8886, auxiliary stream 8885
Third path: main stream 8884, auxiliary stream 8883
Fourth path: main stream 8882, auxiliary stream 8881
Fifth path: main stream 8880, auxiliary stream 8879
Guide CHl: main stream 8878, auxiliary stream 8877
audio frequency:9999
Supports multiple client reception.
Each frame of data header is added with 4 ints (32 bytes), with the first being the flag header 0x98765431,
The second and third are timestamps, seconds and microseconds, and the fourth is frame length (excluding data headers)
(Download the SDK for the streaming VC example, which contains a package that accepts raw streams with protocols)
Vlc playback usage：
vlc tcp://192.168.18.33:8888 :demux=h264 :h264-fps=25

2. Start recording, pause recording, and stop recording
TCP 8764 port
MP4=1 Start recording
MP4=9 pause recording
MP4=0 Stop recording
After successful sending, the device will return OK

3. Directory CHl/input CHl control
TCP 8765 (or udp 8768) port
Directory path switching: sel=x r
X represents which route to switch to, corresponding to webpage: Settings ->Directory Settings ->General Settings ->Real time switching
Picture in picture mode setting: sel=1x
X represents the mode of selection, corresponding to the webpage: Settings ->Directory Settings ->Picture in Picture ->Common Mode Selection
Update subtitle status: sel=2x r
Which route does x represent

4.1 network transparent serial port
TCP connection to port 3000
Baud rate 9600
Debugging method: You can download a TCP network debugging assistant, connect the device IP and corresponding ports to test the data transmission and effectiveness.

You can also use the TCP command port VC routine in the SDK.
5. The recorded files can be accessed through FTP or HTTP: (The account password is the same as that of general web users)
6. FTP://Device IP: 2121
7. Http://Device IP: 8090

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