

Operation manual of the recording machine



catalogue

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一、Instructions for use

For your safety, do not expose the equipment to rain or moisture. In case of failure, do not remove the chassis. For after-sales matters, contact the manufacturer to ask professional engineers for maintenance

When recording or streaming important data, be sure to check the device connection beforehand, or perform a streaming test first, to ensure that the system can operate properly and avoid data loss

According to copyright law, recorded video or audio may not be used for purposes other than personal enjoyment without the permission of the copyright owner. Note that for live performances, shows and exhibitions, even your personal entertainment can be limited.

二、Live broadcast machine use precautions

- Before use, please read this manual carefully and keep this manual properly;
- Please follow the warning signs and instructions on the product;
- Before cleaning the equipment, please unplug the power plug, alcohol, thinner, insecticide or other volatile solvents, because doing so can deform the housing or damage the surface;
- Do not use this product near water;
- Do not place the product in an unstable place, such as wheelbarrow, stand, etc., to avoid serious damage to the product.
- The holes on the outside, back and bottom of this product are for heat dissipation. Do not cover or plug these holes to avoid overheating of the equipment. Avoid placing the product on the bed, sofa, blanket and other objects, beware of blocking the opening hole, do not place the product near the fire source, heating furnace or hot air outlet. Do not place this product in a closed space unless a proper vent is available;
- The power supply used in this product, please follow the mark on the power converter;
- When using the extension cord, please confirm that the total electricity/total amperage used shall not exceed the total amperage loaded by the extension cord;
- Do not insert anything into the body opening to avoid short circuit, do not spill any liquid on this product
- Please do not disassemble and repair without authorization.
- If the following situations occur, please unplug the product and consult a qualified technician;
 - ① The power cord or plug is damaged or unraveled;
 - ② Liquid seeps into the product;
 - ③ If the product has been soaked in rain or poured with water;
 - ④ Damage caused by computer system viruses or malware is not covered by the warranty;
- The equipment is packed in the original packing box or similar packing box during transportation, which can reduce the strong vibration of the equipment;

Product and Service Disclaimer

The information provided in this manual is intended as a guide only. At all times, KIND strives to provide correct, complete and appropriate information. However, KIND cannot exclude that some information in this manual may be incorrect or incomplete, and this Manual may contain typos, omissions or incorrect information. KIND recommends that you double-check the accuracy of the information in this document, and KIND is not responsible for any omissions or errors. Or any subsequent loss or damage caused by the information provided in the contents of this Manual, further information about the contents of this manual or products can be contacted by local offices or KIND headquarters.

三、KD-BC8HN KIND Characteristics of the recording system

KD-BC8HN is a portable video recording machine that integrates multi-channel video capture, video stunt transfer, PTZ control, tuning and mixing, director communication, multi-channel screen monitoring screen and streaming media server.

It is not only portable, but also combines video switching and mixing functions with video surveillance and webcast, making it an all-in-one complete set of equipment for live content generation. With this product, you can eliminate the need for a variety of equipment, which greatly reduces the time and effort required to install, connect and adjust equipment.

The KD-BC8HN can seamlessly hardcut the full frame in multiple video input transitions.

This system provides the functions of mixing (overlapping), cross image transition effect, combined video and so on. You can mix videos with up to a hundred effects at once.

You can mix audio inputs from 5-way stereo and 5-way microphones. Each channel has a range of functional components, including channel faders and input gain adjustments that will allow you to adjust the quality and level of sound individually on each channel.

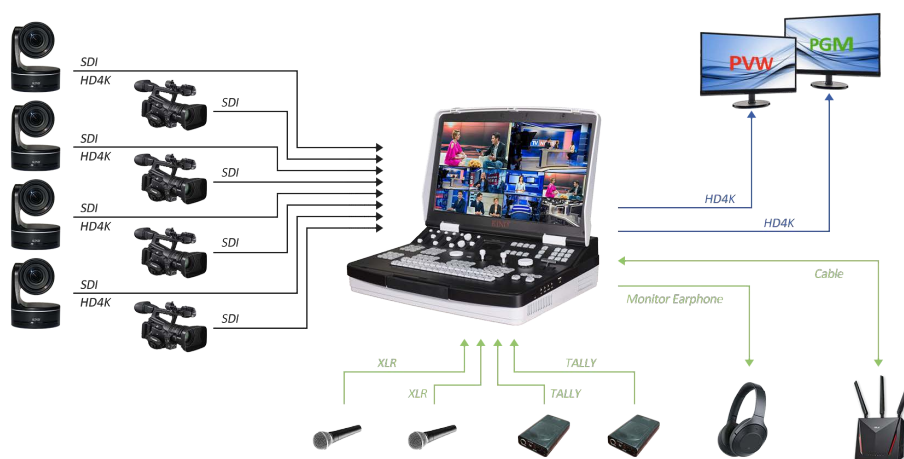
PGM footage can be streamed live.

This system is a high performance network broadcast system, which can provide audio and video live broadcast, recording and broadcasting services based on metropolitan area network and wide area network. At present, the system has been widely used in the studio video live broadcast, quality class, distance education, news live broadcast, conference live broadcast, academic exchange and other occasions requiring audio and video live broadcast. Using modular design idea, portable live broadcast can be built according to different needs.

Product specification

Model number	KD-BC-8HN
Power supply	INPUT:AC110V-240V, 50~60Hz,5A; OUTPUT:12V,5A
Operating temperature	0~40℃
dimension	(L*W*H) 425mm*340mm*120mm
weight	5kg
Video input	3G-SDI*8,HD4K*4
Signal specification	1080/50P,1080/60P,1080/50I,1080/60I,2160/30P,2160/25P
Video output	PGM OUTPUT HD4K*2,SDI*1,PVW OUTPUT SDI*1
Audio input	Stereo(L,R)IN RCA*5 MIC XLR*5
Audio output	Stereo (L,R) OUT RCA*1,Balanced XLR OUT*1,MonitorΦ3.5*1,Playback monitorΦ3.5*1,The director calls MICΦ3.5*2
Other interface	USB 2.0*2 RJ45*1
Director communication	TALLY MINI XLR OUT*8,Director calls(选配)
switchboard	PGM: Hardware switch signal*16 PVW: Hardware switch signal*8
Sound console	Digital mixer*5,Analog mixer*5
record	MP4、TS、MOV
Live broadcast	RTMP/SRT/RTSP/NDI

四、Host topology

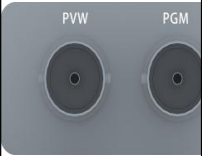
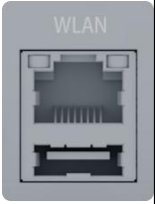


五、Rear interface diagram

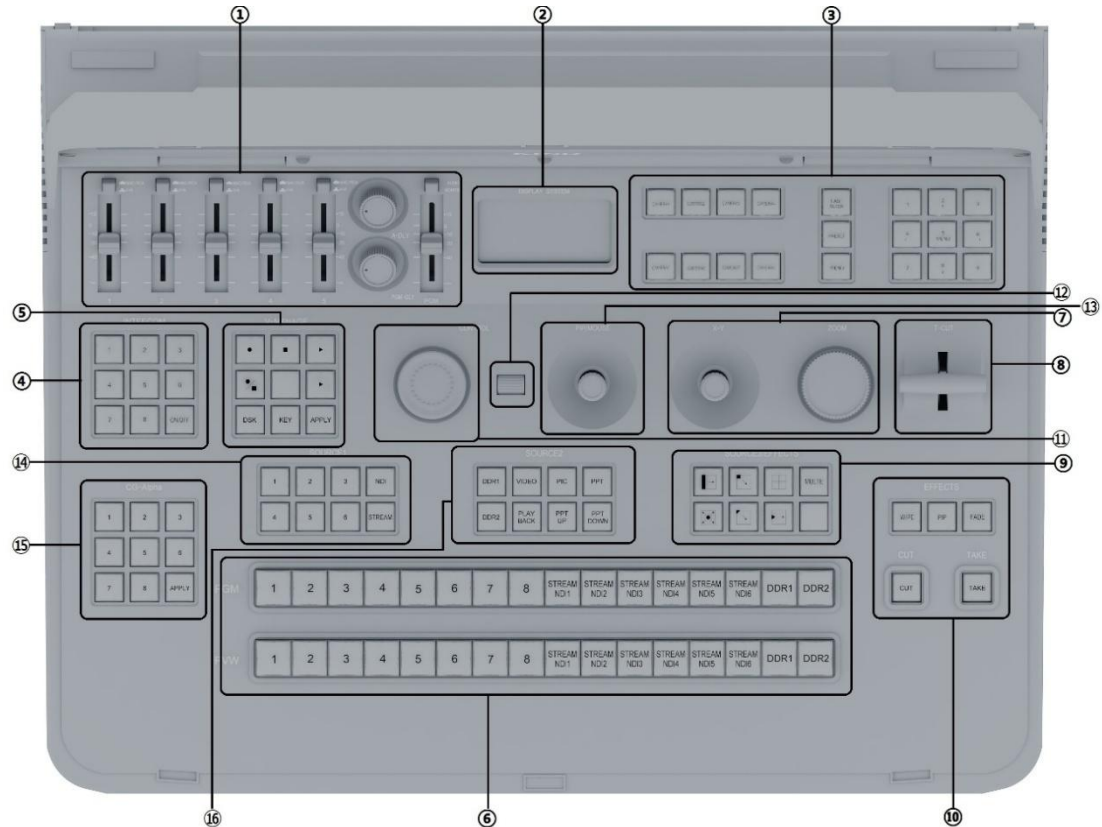


- ① RS485:485 control
- ② Audio stereo, MIC input, output
- ③ PTZ control switch
- ④ HD4K*4 input, SDI*8 I input
- ⑤ HD4K output, SDI*2 output
- ⑥ Power switch
- ⑦ DCport
- ⑧ MIC: 3.5 Audio input;
HD4K: Video output; USB:
Memory interface; TF:
storage interface; NDI/SRT:
Network interface;

port	Instructions
	485 Control interface: adopts RS485 control signal and supports PELCO-D and VISCV control protocols
	1 to 5 Audio input XLR Balanced analog audio input interface and Each with 48V phantom power switch (support professional microphone power supply)
	1 to 5 Audio input RCA stereo analog audio input interface (left/right channel), OUT audio output RCA stereo analog audio output interface
	SDI1 to 8 Video input ports: Supports signal specifications 1920 x 1080P50 video source input

 	PGM/PVW video output interface: Signal specifications 1920×1080P25 video source; HD4K video output interface: Signal specifications 3840×2160P25 video source
	DC power interface: 12V~5A will be provided The adapter power cable is connected to the DC power port
	Power switch: Power on/off
	Network port: Supports firmware upgrade, software parameter debugging, live streaming, recording, NDI, and so on. USB, TF: USB and TF storage devices can be connected to perform video file storage

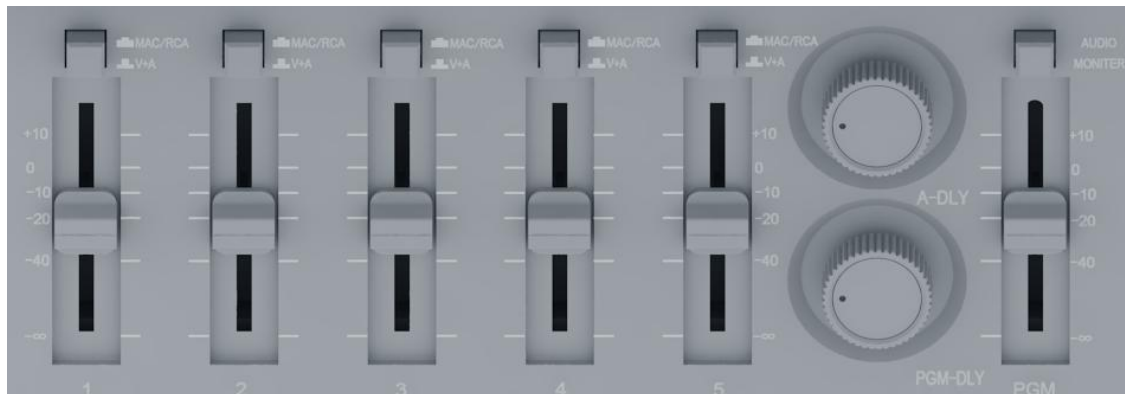
六、 Operation panel introduction and operation instructions



- ① Mixing console, audio delay device, digital/analog audio switch key
- ② Audio display
- ③ 8 Station channel address, preset bit call, speed adjustment
- ④ Call switchboard (not supported for some models)
- ⑤ Hardware and software record, stop button
- ⑥ PGM/PVW Video switchboard
- ⑦ Camera PTZ controller
- ⑧ T-putter
- ⑨ WIPE Transition special effects group key. 4K/HD key to switch HD and 4K modes
- ⑩ Multi-mode switch key
- ⑪ Effect regulator
- ⑫ Title shortcut
- ⑬ Picture in picture position control key
- ⑭ 1-6 Premonitor window NDI and STREAM quick switch key
- ⑮ Subtitles select shortcut keys
- ⑯ Quick switching of local video, picture and PPT functions

Note: Switching between 4K/HD keys requires restarting the device

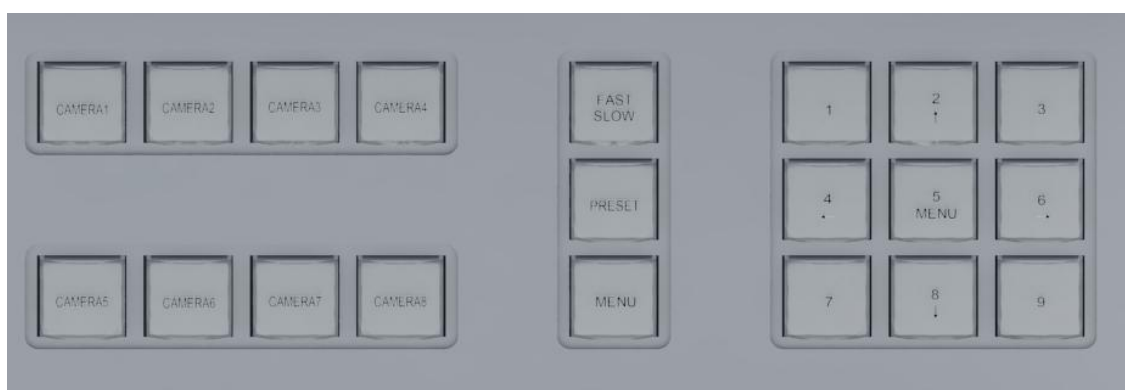
1.1 Detailed operating instructions:



1 to 5 channel audio gain adjustment, corresponding to the backplane 1-5 audio input, MAC/V+A digital/analog audio switch key, audio delay, PGM audio gain adjustment. PGM Mute with one click.



Audio display: display left and right channels, delay time



CAMERA1-8:8 Station channel address. You can switch different stations by pressing the button.

FAST/SLOW: Control the speed of the camera, the indicator on is fast, the indicator off is slow;

PRESET: Set PRESET bit confirmation key, select any key 1 to 9, press Preset key (the indicator blinks once), the setting is successful, 9 groups of preset bits can be selected;

MENU: camera MENU key, press this key to start the MENU adjustment mode and the 2/4/5/6/8 key lights up, 2/4/6/8 represents the top, left, right and bottom four directions of the selection key, press the 5 (MENU) key once, the camera menu opens,

after the setting is completed, press the menu key once, the 2/4/5/6/8 key lights off, restore the preset bit function

Note: Preset bit and camera menu functions cannot be used at the same time.



Call function panel: Click ON/OFF to open this function, a total of 8 sets of buttons, you can make calls respectively (professional call equipment is required)



The first row is the software recording, stop, and live function shortcut keys, and the second row is the local recording and stop, live, and NDI recording

DSK is the hardware subtitles open key, the indicator light is on, you can select subtitles;

KEY is the shortcut key for starting the image picking, and the indicator is on to start the image picking function;

DSK and KEY are used only after the software is opened;

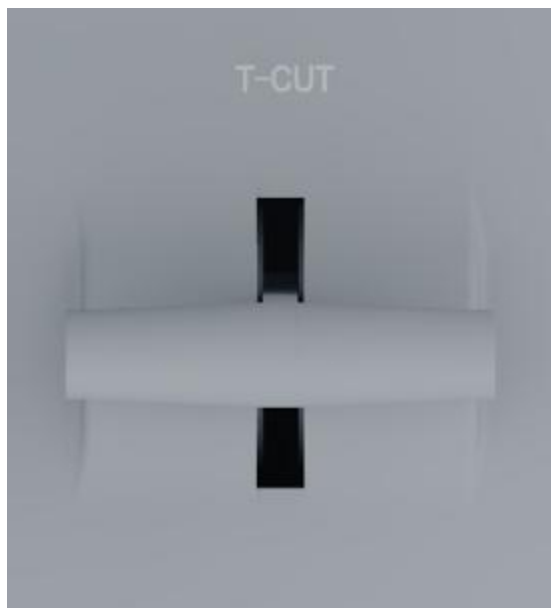
The first row of software record, stop and live button can be used after connecting the software

The second row recording stop button needs to be inserted into an SD card or USB flash drive

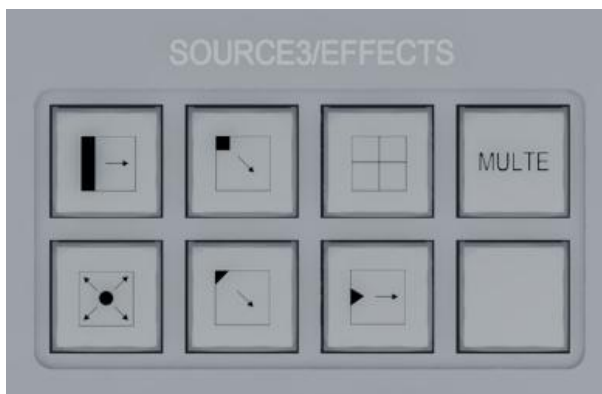


Main output screen and preview output screen source key, PGM row key main output key, that is, live output screen. The playback channel will be displayed in the PGM screen, and the PVW row key will be the preview output screen, and the preview output screen will be displayed in the preview window.

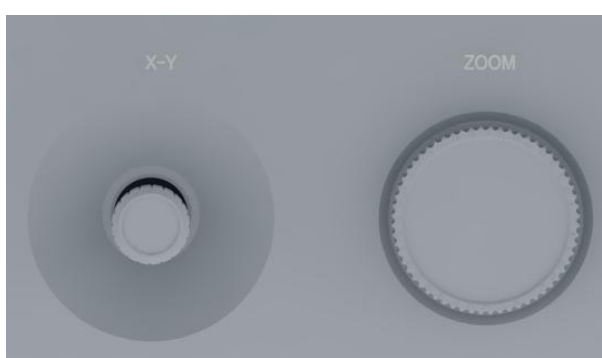
Note: Among the rows of PGM and PVW keys, the STREAM/NDI 1~DDR2 keys can be used only after the software is started;



T-push rod: The T-push rod is a manual transfer mode, and the PGM and PVW switch is completed with WIPE or fade in and fade out effects



WIPE Transition effects selection key set: 6 fixed WIPE effects selection keys, the user directly on the panel to select the WIPE effects according to the icon.



Camera PTZ controller: achieve the effect of pushing, pulling and rolling the PTZ camera position
Use the ZOOM knob to control the focal length of the camera by turning it left and right



WIPE: Switch on transfer effects mode and use with WIPE transfer keys

FADE: The fade in and Out button enables the fade in and out transition effect

CUT and TAKE button switch, can switch PGM and PVW lens, make the transition more convenient and fast

PIP: picture-in-picture function, indicator light function on

Note :WIPE and FADE cannot be used together.



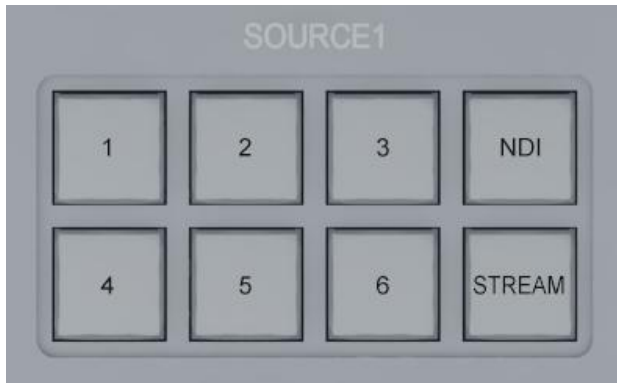
MAIN is a 3.5 listening interface

MONI is a 3.5 call radio interface

The MIC is a 3.5 microphone port



The hardware shortcut key on the control panel can be used to APPLY the effect to the PGM window more quickly. Click the corresponding serial number to generate a preview and then click Apply to apply to the PGM



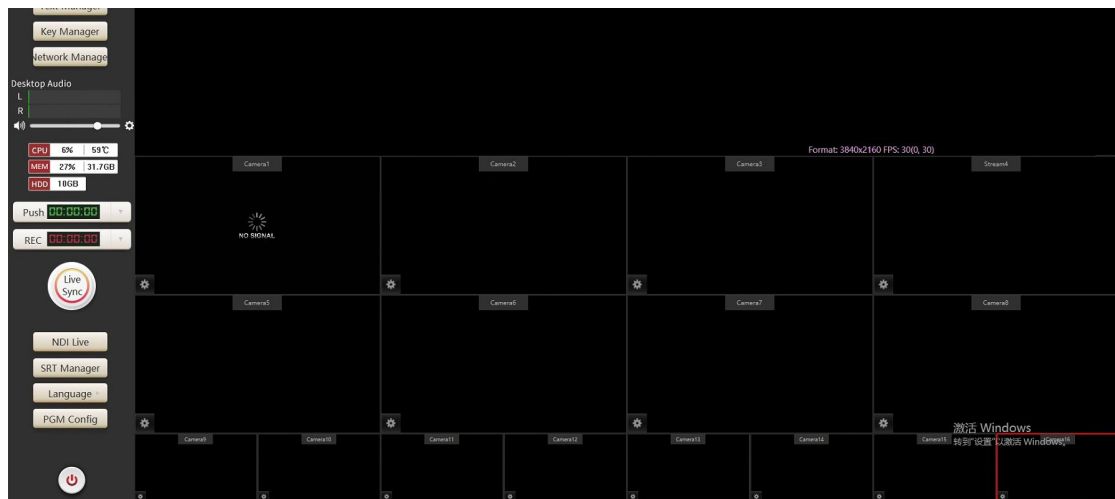
After connecting the software, you can quickly switch the premonitor window mode. Select the window value and press the NDI or STREAM key to quickly switch between NDI and STREAM



Fast switching of local materials; After connecting the software, you can use this function to control the playback of videos, pictures and PPT in the local materials in the software; DDR1 and DDR2 represent two Windows, respectively, and the DDR1 indicator lights up to control DDR1

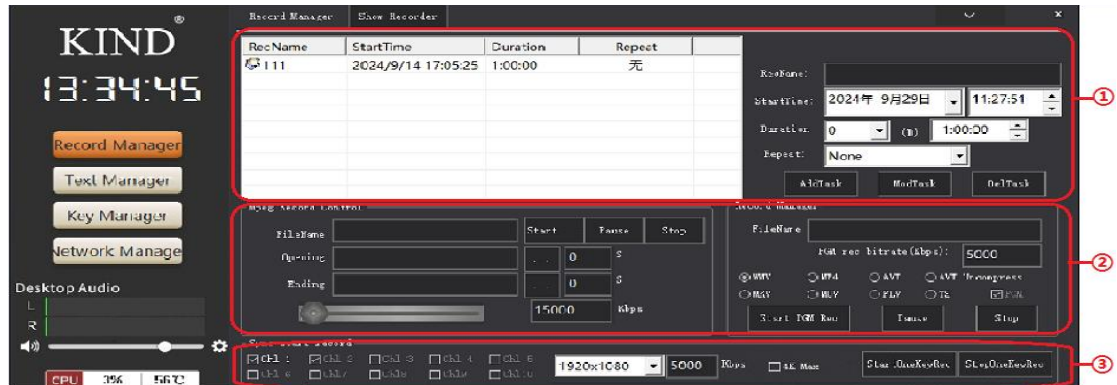
七、 How an external computer connects to a device

1 、 Software main interface



The main interface of the software is composed of PGM window, PVW window, 16-channel signal source pre-monitoring window, video, live broadcast, push stream control panel and software mixer.

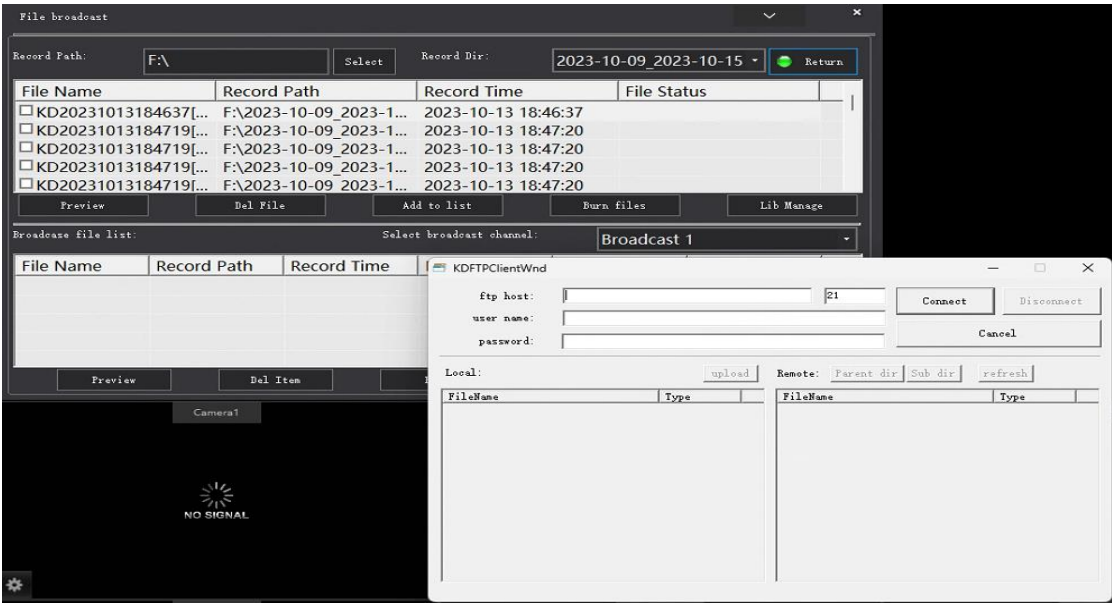
2、Video management



- ① Scheduled task: Set a scheduled recording task.
 - (1) First set the start recording time;
 - (2) Set the duration;
 - (3) Set the repetition mode, which can be divided into non-repetition, daily and weekly recording;
 - (4) After setting, the recorded information will be displayed in the white table;
- ② Recording: The software recording format is divided into MPEG, WMV, MP4, AVI, AVI Uncompress, MKV, MOV, FLV, TS format, you can add the title and end of the film, set the stream and other functions, click to start PGM recording after the completion of the recording click stop button, the recording is complete.

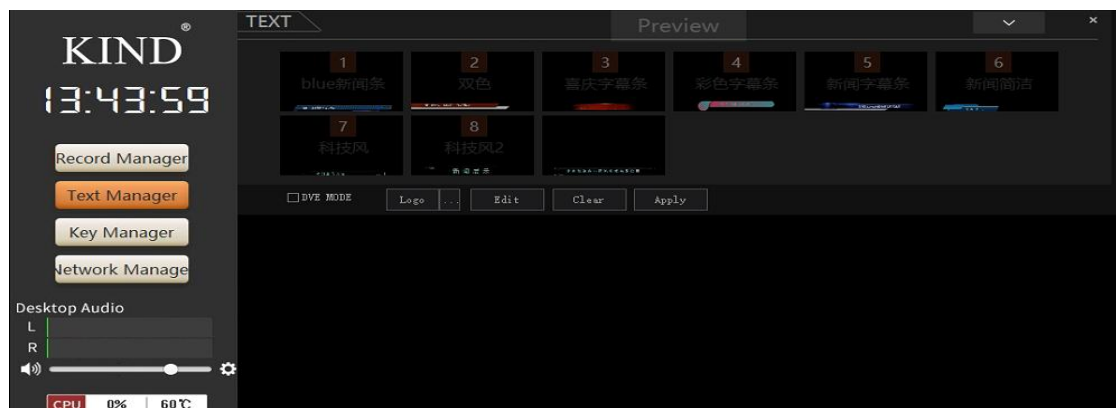
③ Synchronous recording function can record each pre-monitoring window, you can adjust the video resolution and bit rate.

After the recording is completed, click video to view, and you can view, burn, delete, preview and store the video from this position.



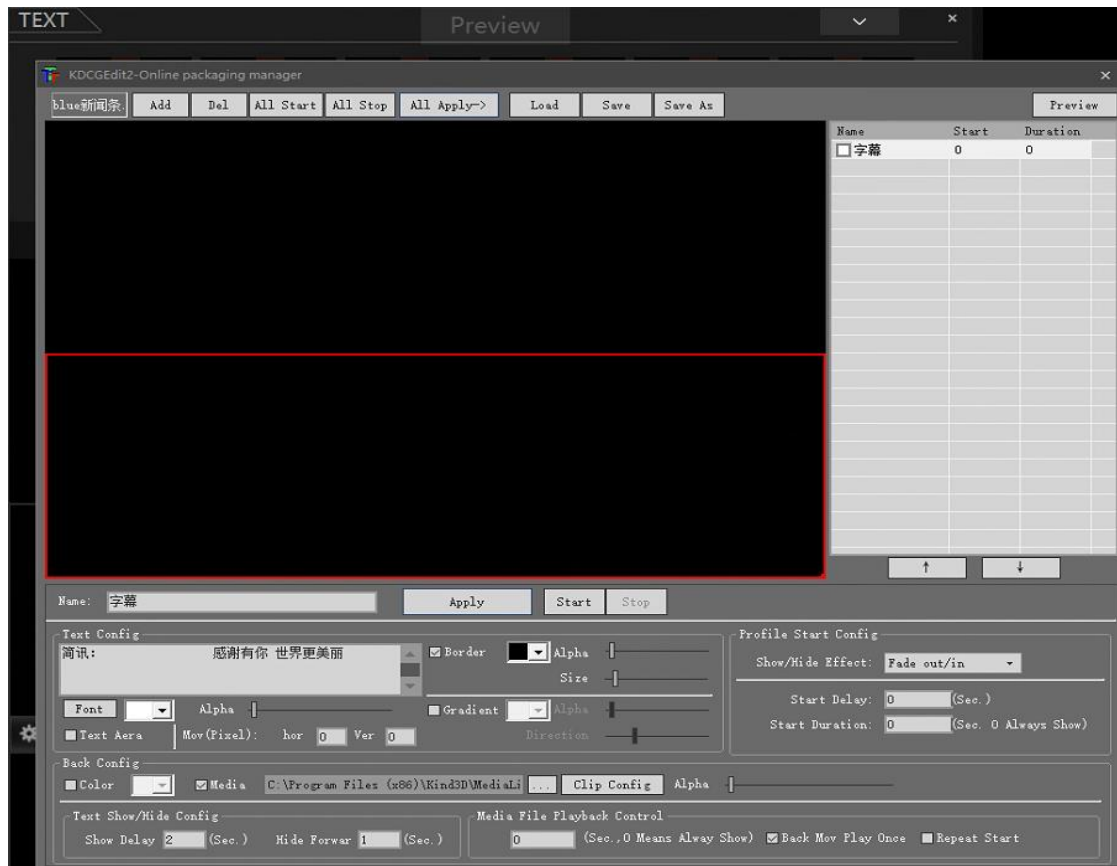
This interface function can view the recorded files in the current directory, and through the library management can be FTP upload server in the form of file transfer, as shown in the figure

3、Online packaging

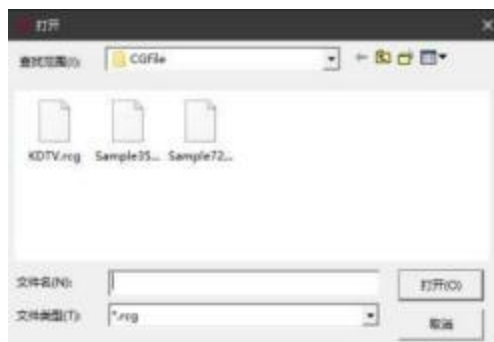


The online packaging function includes the platform function and the Alpha channel special effect captioning function, which can be used in double layer superposition.

Select any subtitle in the picture and click Edit to enter the subtitle editing mode. You can set subtitle according to your needs. Select the corresponding alpha subtitle and click the edit button to enter the current special effects subtitle editing template as shown below

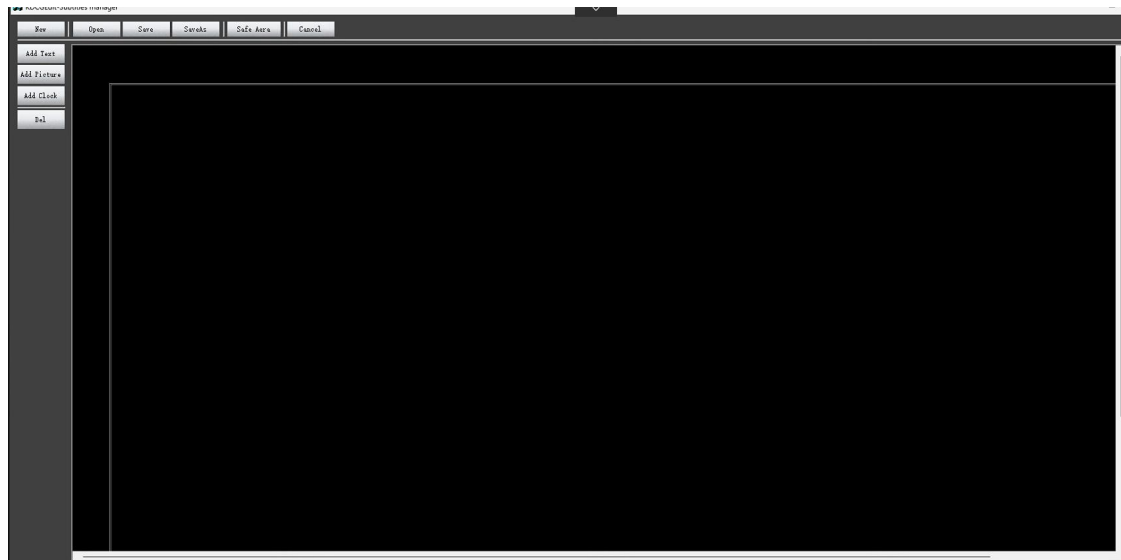


Through the hardware shortcut key on the control panel, the effect can be applied to PGM more quickly. Click the corresponding serial number to generate preview and then click APPLY to apply to PGM, as shown in the figure

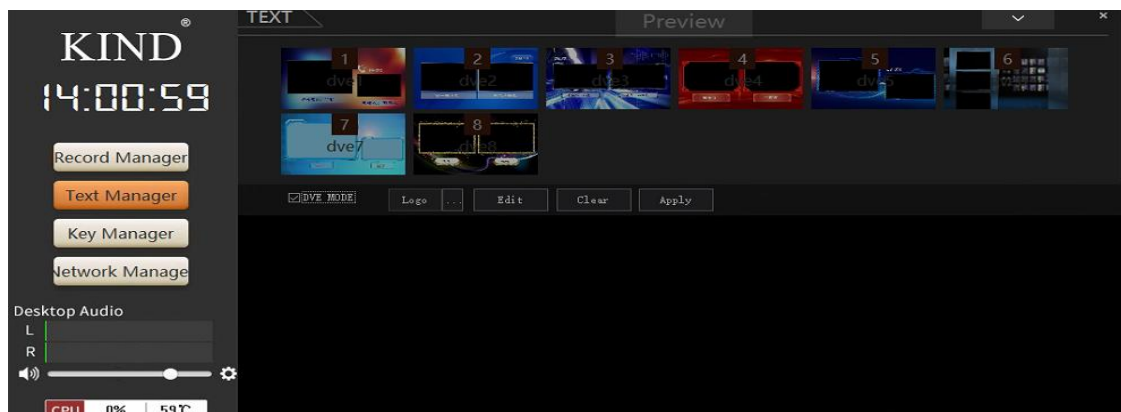


to the logo as shown below to add
go function in the video

This mode is mainly used for the creation of the platform logo
position, editing interface operation as shown in the
following figure



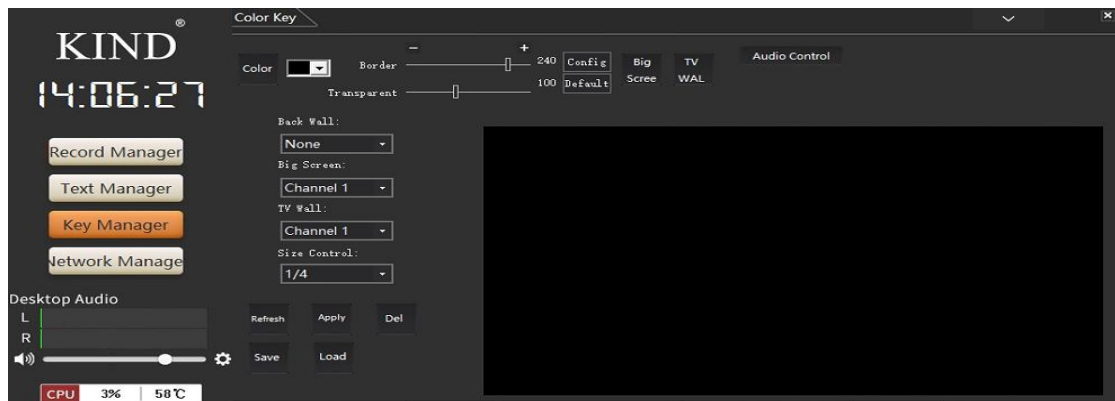
DVE MODE When a matching hook is added to the front of the DVE mode, you can implement scenarios such as video connection. Click Edit, you can set the signal source, etc., as shown below;



DVE editing only needs to define the channel selection on the media source of the corresponding dialog window, as shown below



4、Matting management

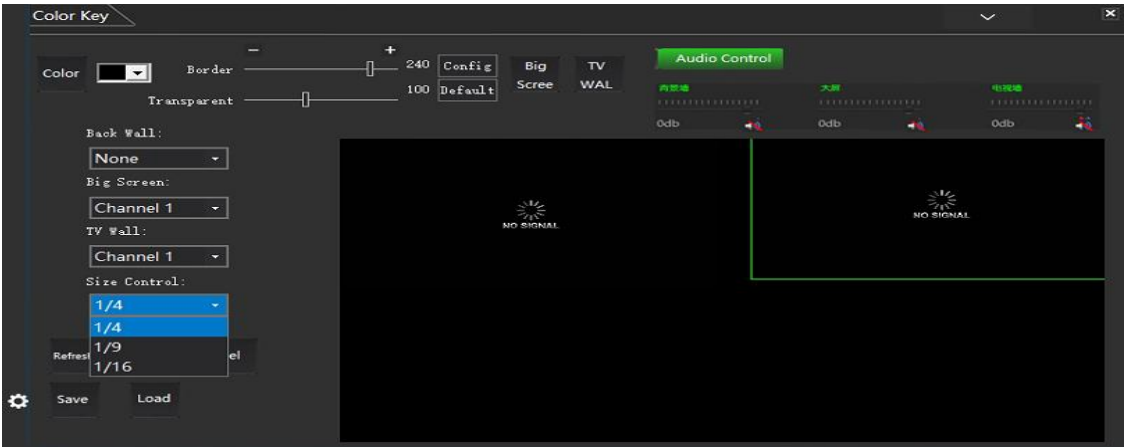
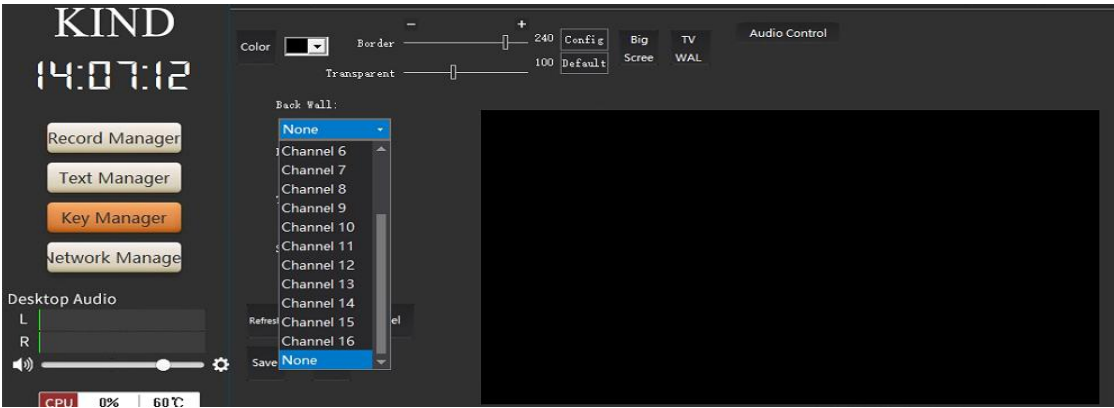


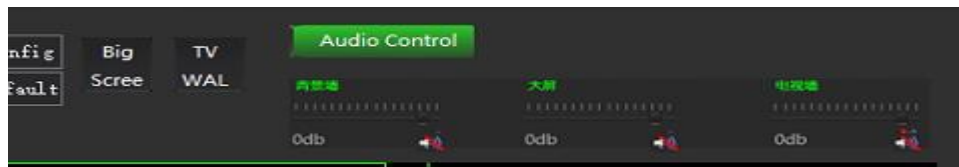
Click the photopicking button to enter the photopicking mode, as shown in the figure: (Note that the PVW pre-monitoring signal of the two-digit photo picking machine should be switched to the environment with green screen to perform the photo picking operation).

After the software enters the photo picking interface and then enters the PVW interface, click the green background in the PVW small window for one-click default photo picking. The darker the background color, the cleaner the image effect will be. If the effect is not satisfactory, fine-tune the effect through the edge control bar (Note: if it is still unsatisfactory, please check whether the green or blue background cloth is photo picking green or blue, or whether the background light is qualified). The more pure the

blue-green background, the cleaner the image, and the less noise).

After the success of one-click image selection, background video or pictures can be superimposed through the definition of Beijing wall, and picture-in-picture operation can be performed by adding a large screen or TV wall. The size of picture-in-picture and background content audio can also be adjusted, as shown in the following figure



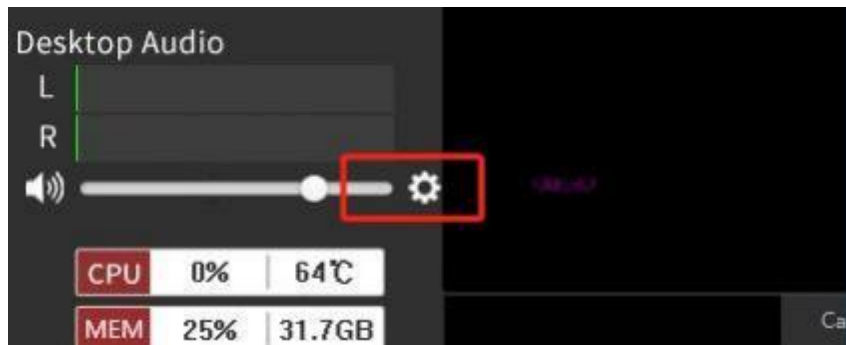


The knob encoder on the console of the broadcast machine can be enabled after entering the match-mode to adjust the edge control as shown in the following figure



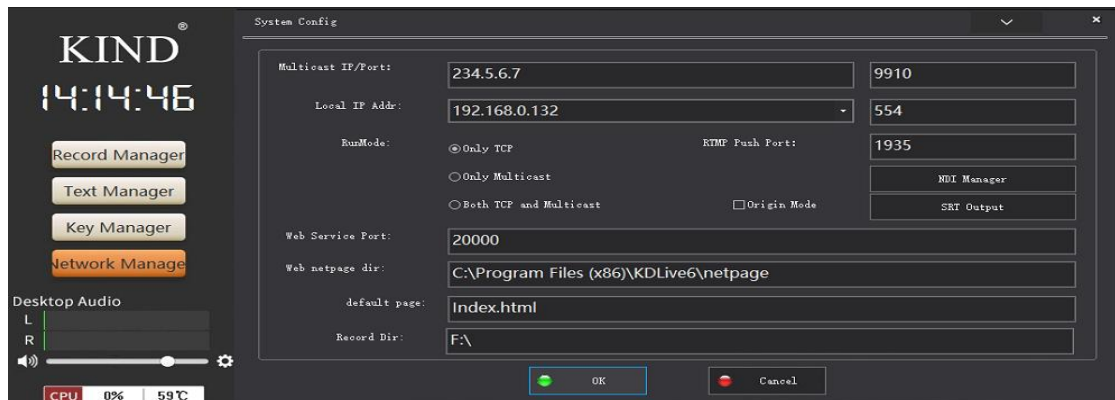
5、Software mixer





Click the set button of the software to pop up the 16-channel audio controller. This function is used for the audio adjustment of NDI and STREAM modes of each signal source channel, and the MIC and stereo audio are still subject to the equipment mixing console.

6 、 Network management



The network management interface can modify the IP address, NDI manager, SRT output, running mode, and recording location of the machine.

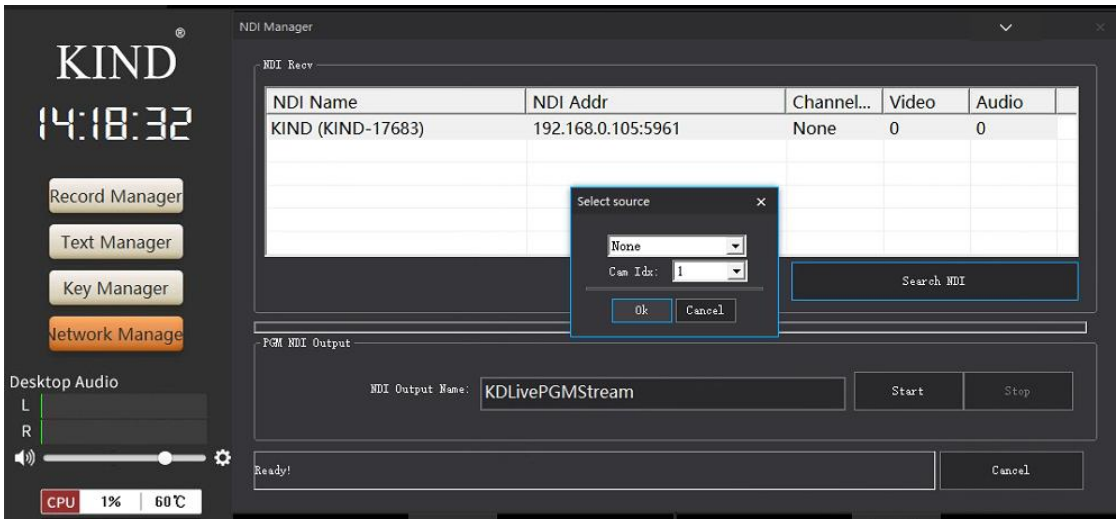
The local IP address must be the same as the local IP address. After connecting to the network, restart the software.

The recording location can be changed based on the drive letter displayed on the system disk. The factory setting is D or E disk, depending on the actual situation.

Clear stream mode: After the clear stream mode is turned on, subtitles will not appear on the screen interface of the live stream during the live broadcast.

NDI Manager: After opening the NDI device and connecting to the network, click Search NDI source, and the searched NDI

device will appear in the white interface as shown in the following figure



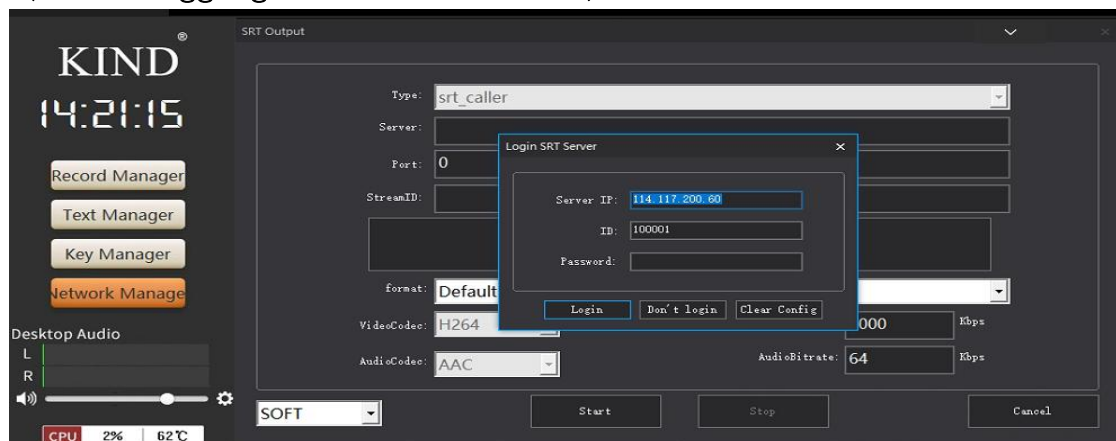
After the device is selected, the source Channel will pop up and Live Channel 1 will select the channel used. Cam serial number is the camera control address. The push, pull, roll,

pitch and other movements of the NDI camera can be controlled through the camera address button.

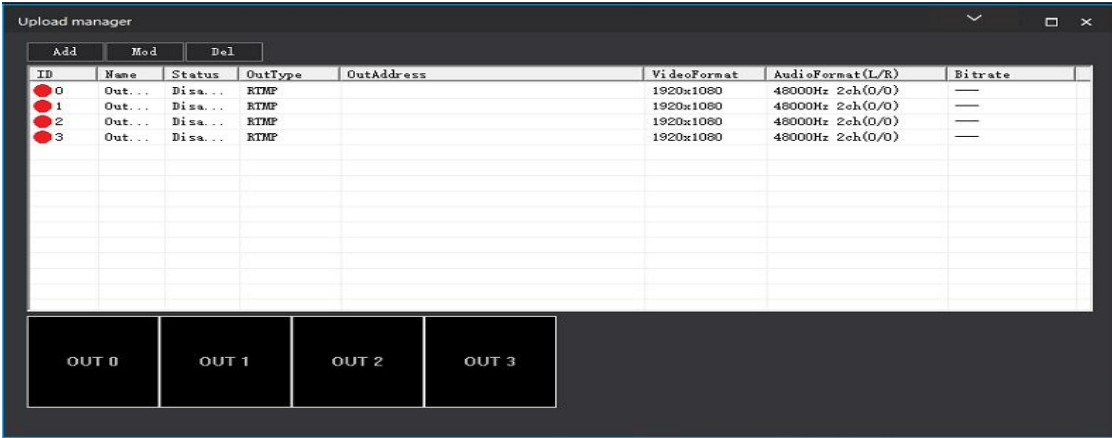
After clicking OK, the NDI video will enter the pre-monitoring window.

NDI Output: NDI signal transmission can be carried out through this function

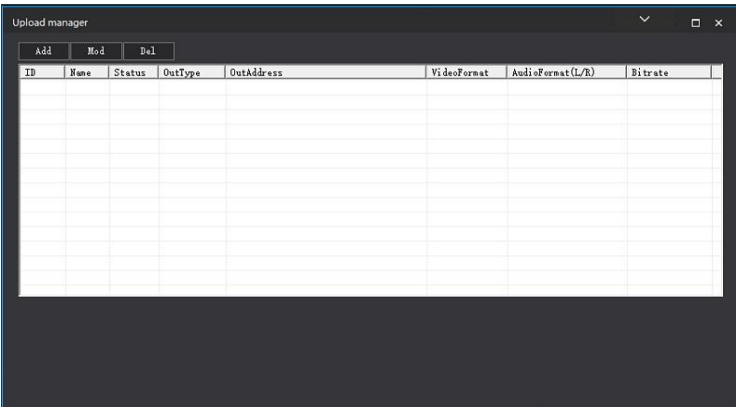
SRT output: Pull the picture captured by the camera into the software through the streaming media server for recording and broadcasting, and select the route as shown in the figure (after logging in to the server)



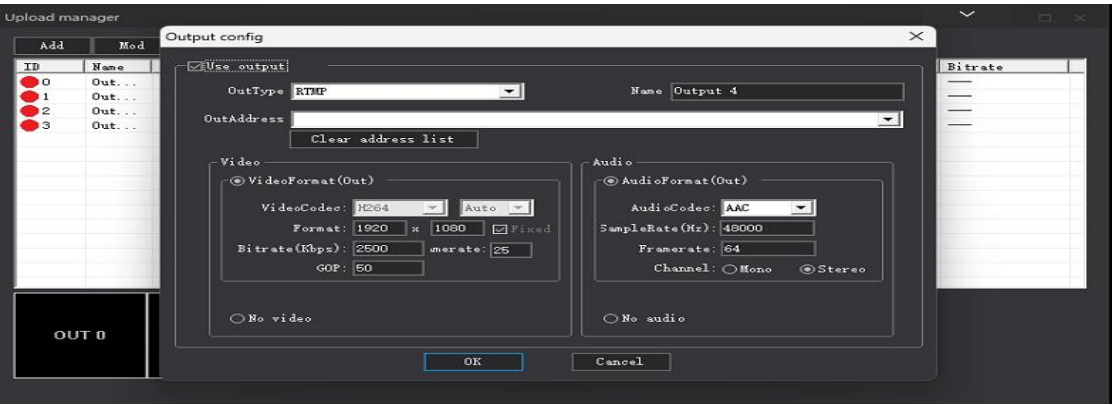
7、Push flow management



①Click the Push Stream button to open the secondary menu;



②Click Add button

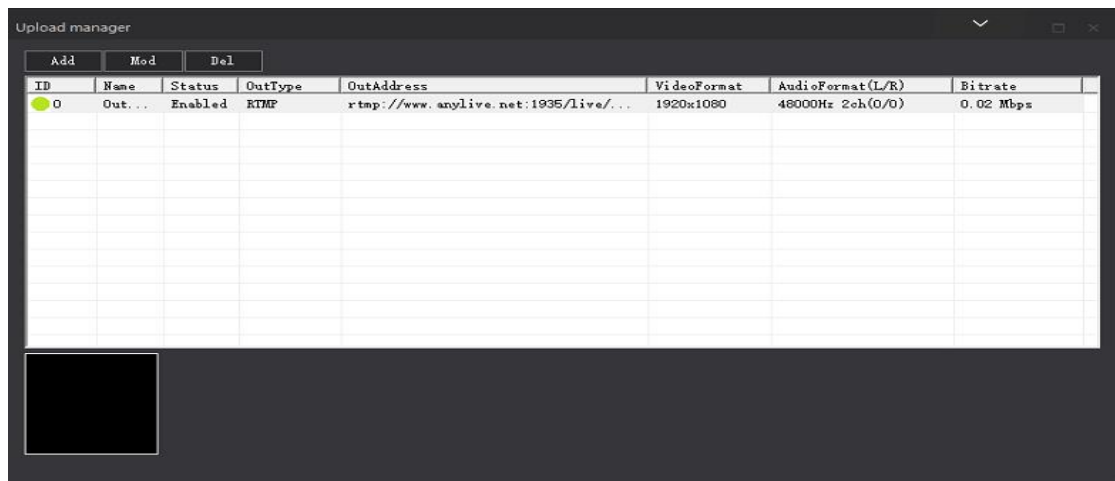


③ Click Enable output ;

Output type default Settings, add name, modify bit rate and resolution, select the correct video and audio

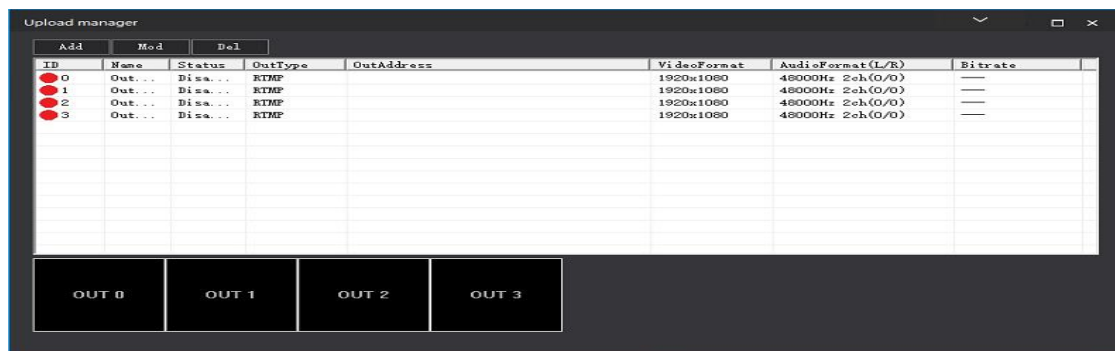
⑤ Input a valid output address (do not add more symbols or Spaces, beware of pushing the flow failure) ;

⑥ Click OK to start the streaming service, as shown in the figure



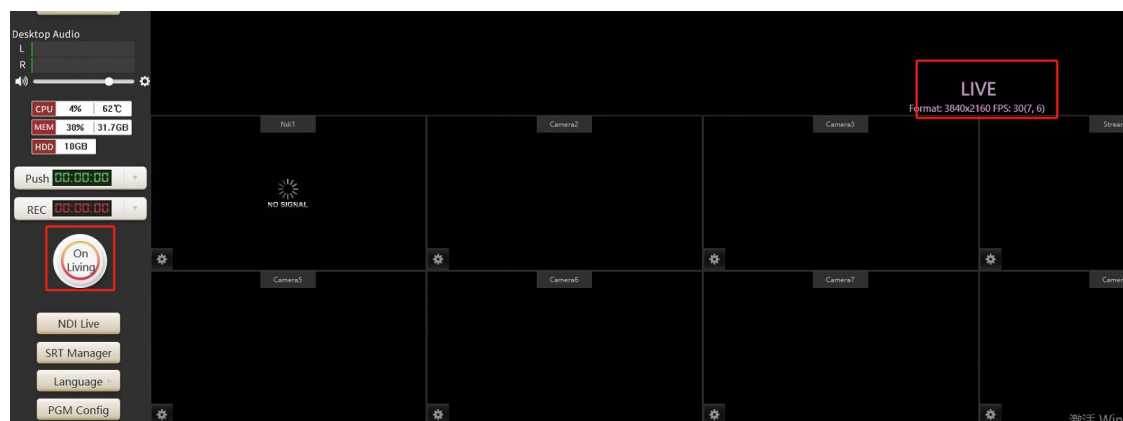
⑦Double-click the enabled push address again, remove the check before enabling output, click OK, the push function is turned off;

The push flow can push multiple platforms at once, as shown in the figure



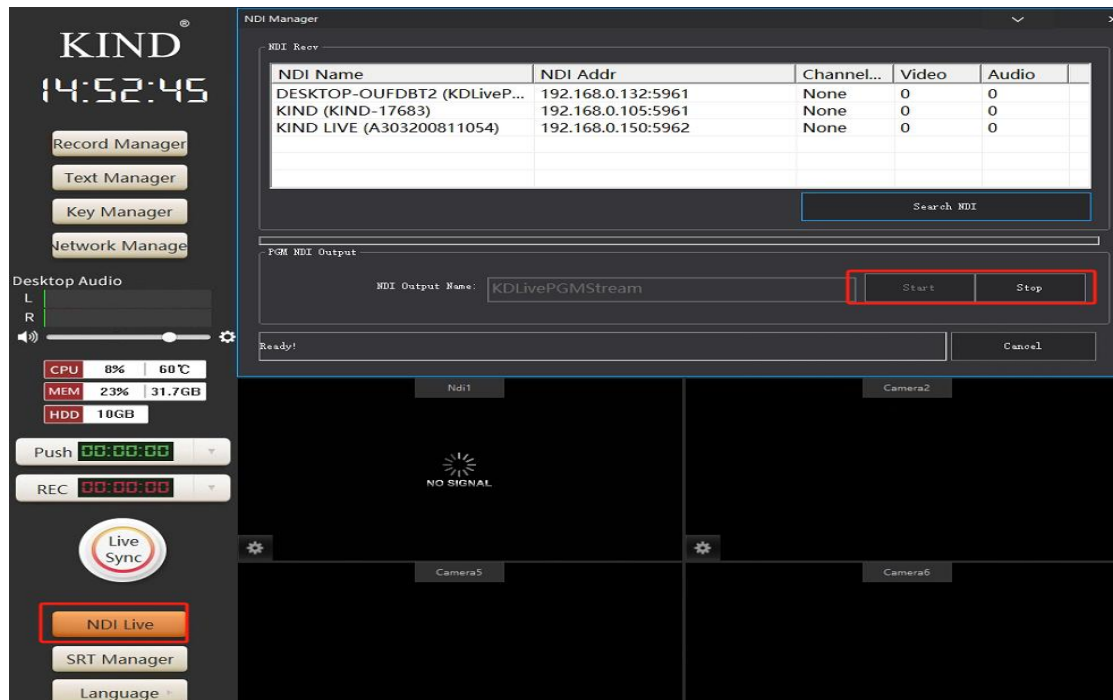
8、Live synchronization

Live broadcast synchronization: After live broadcast is enabled in the same LAN, enter <http://+IP:20000> to view live broadcast on the LAN as shown in the figure (the status of synchronous live broadcast is disabled, and the status of live broadcast is enabled)



After the LIVE broadcast is enabled, the PGM window displays Live.

9 、 NDI Live

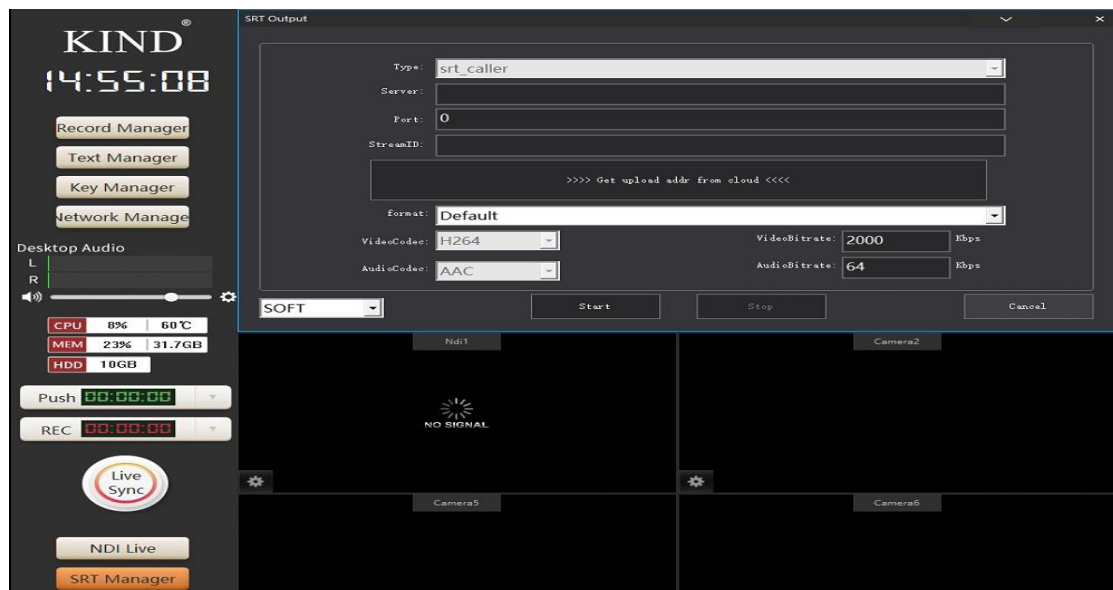


This function is a shortcut key, which is the same as the NDI output function in network Settings

After the NDI Live button is opened, the NDI signal can be transmitted normally;

10 、 SRT manager

The SRT manager is consistent with the SRT output function in network Settings;



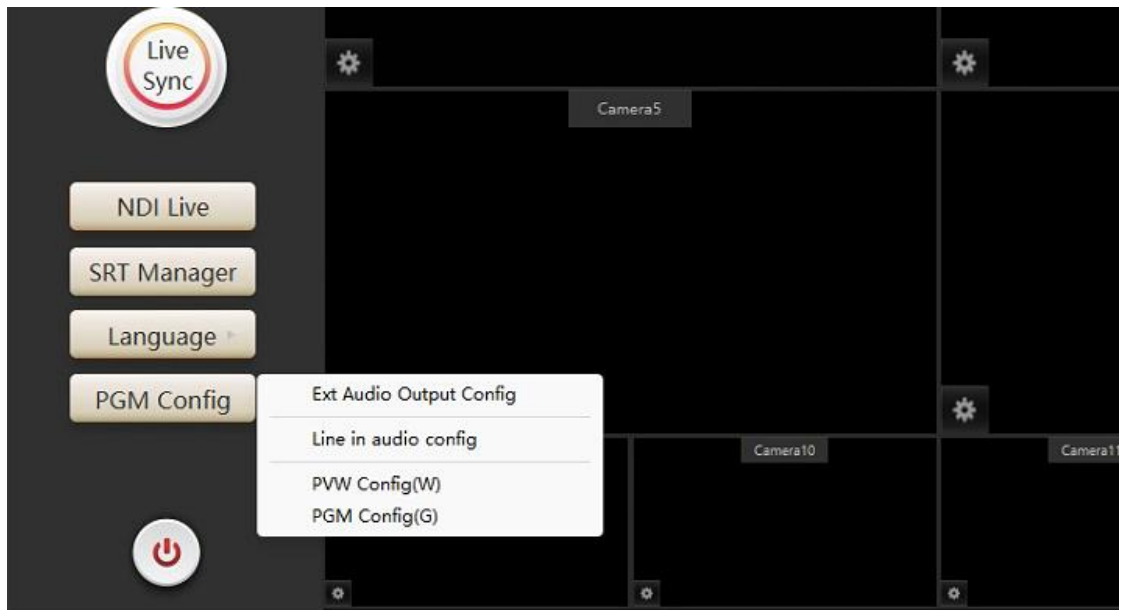
11 、Language interface

Switch languages such as Chinese and English;

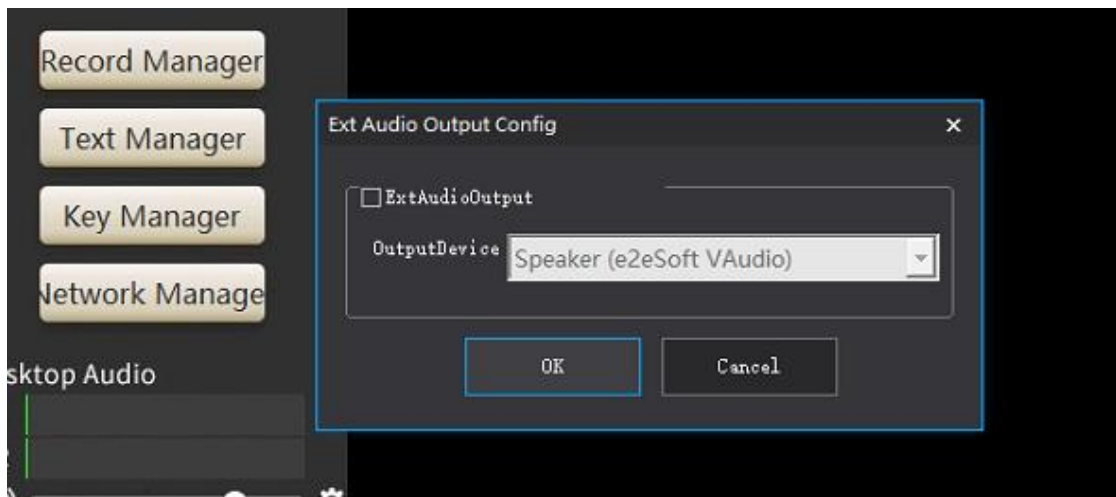


12、PGM setup

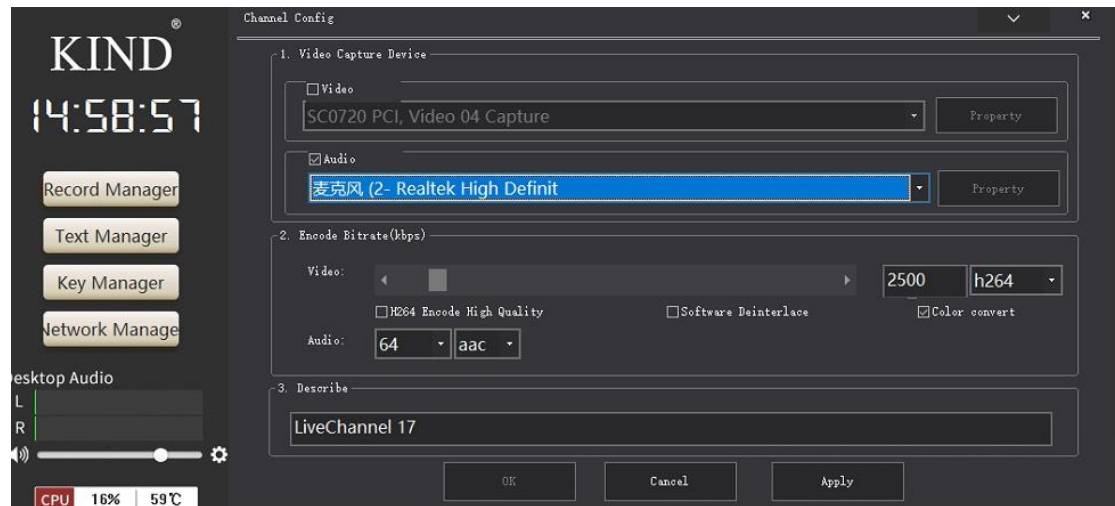
PGM is divided into 4 parts, extending the output Settings, line audio acquisition Settings, PVW and PGM Settings;



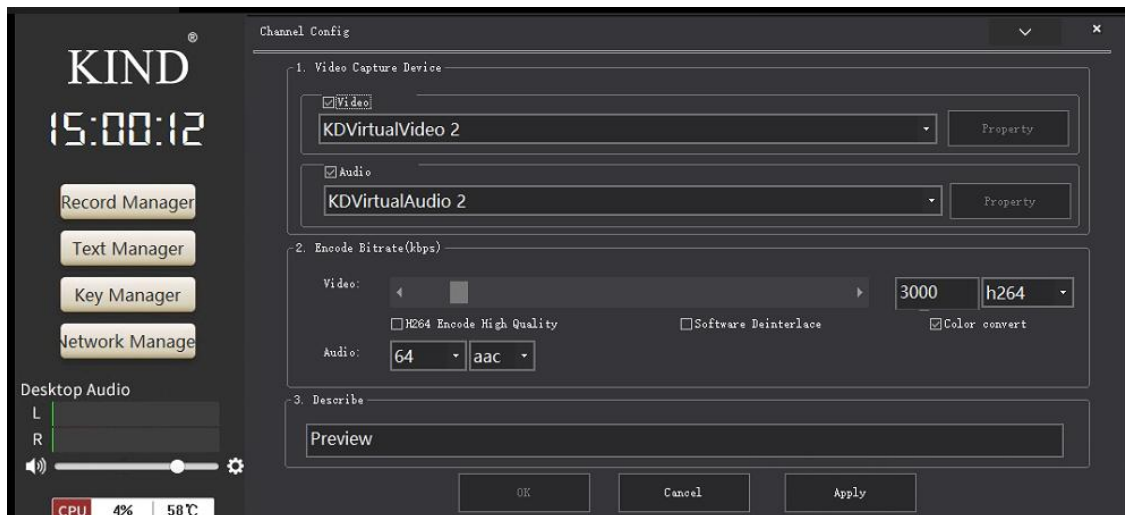
(1)Expand audio output Settings: Click the drop down menu and select Output Device (password 111111)



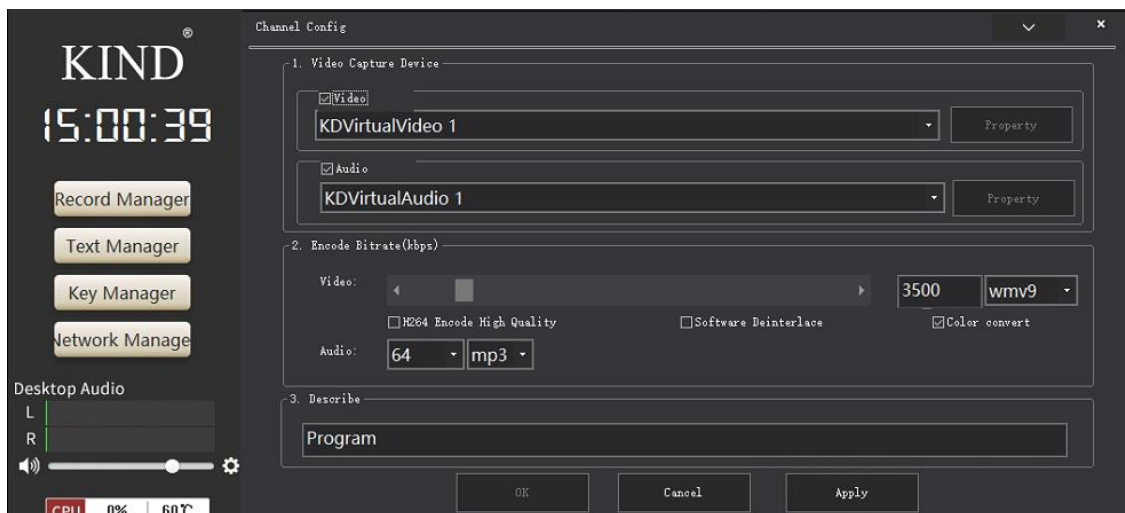
(2)Line audio capture Settings: Select a mix of microphone, hardware audio and software audio to output to the PGM (password 111111)

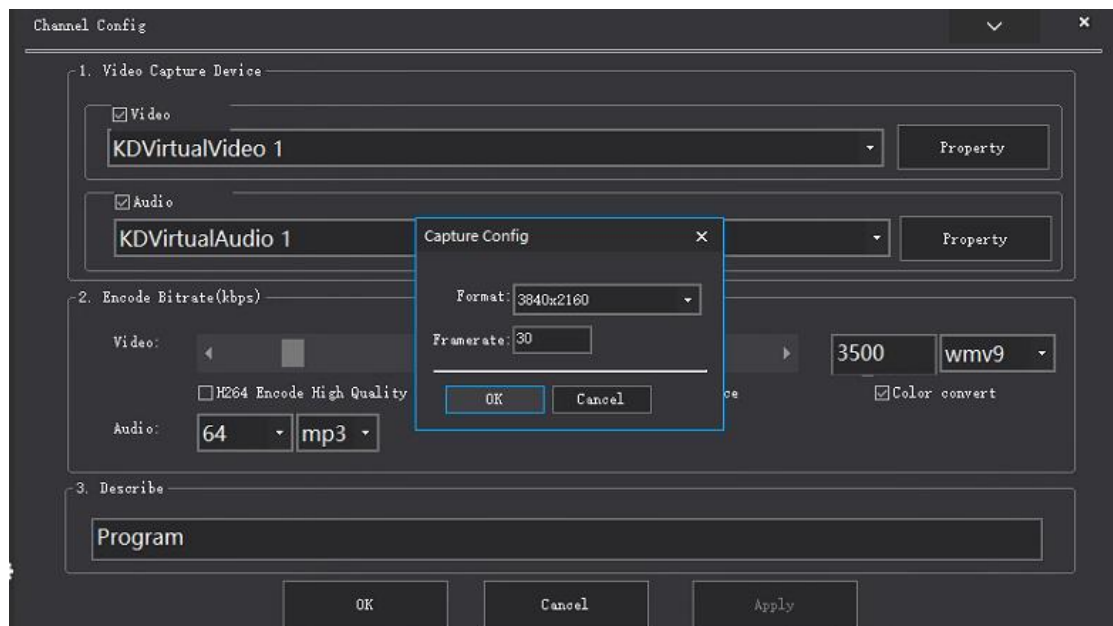


(3)PVW Settings: The video and audio Settings are selected as shown (password 111111)



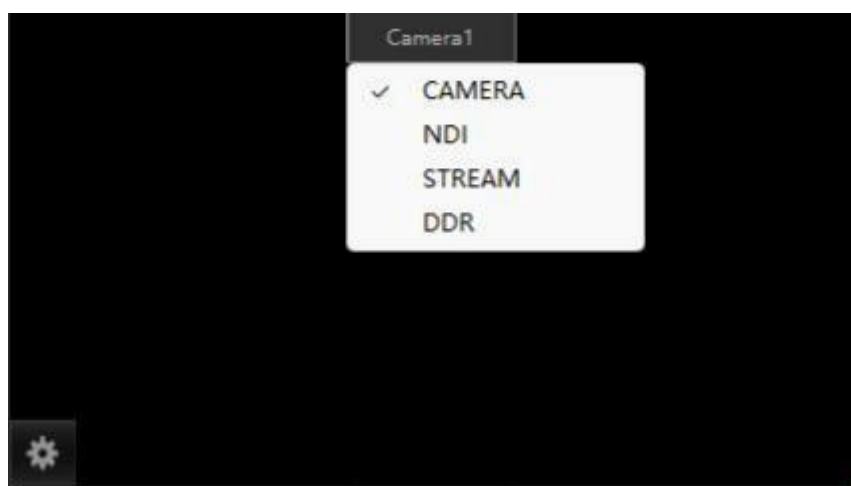
(4)PGM Settings: Video and audio selection as shown in the picture (password 111111), click Apply. Set the bit rate and resolution of the video, click video properties, set the resolution and frame rate of the video (Note: After setting the video and audio, click Apply to set the video properties)





13 、Premonitor 1-16 window Settings

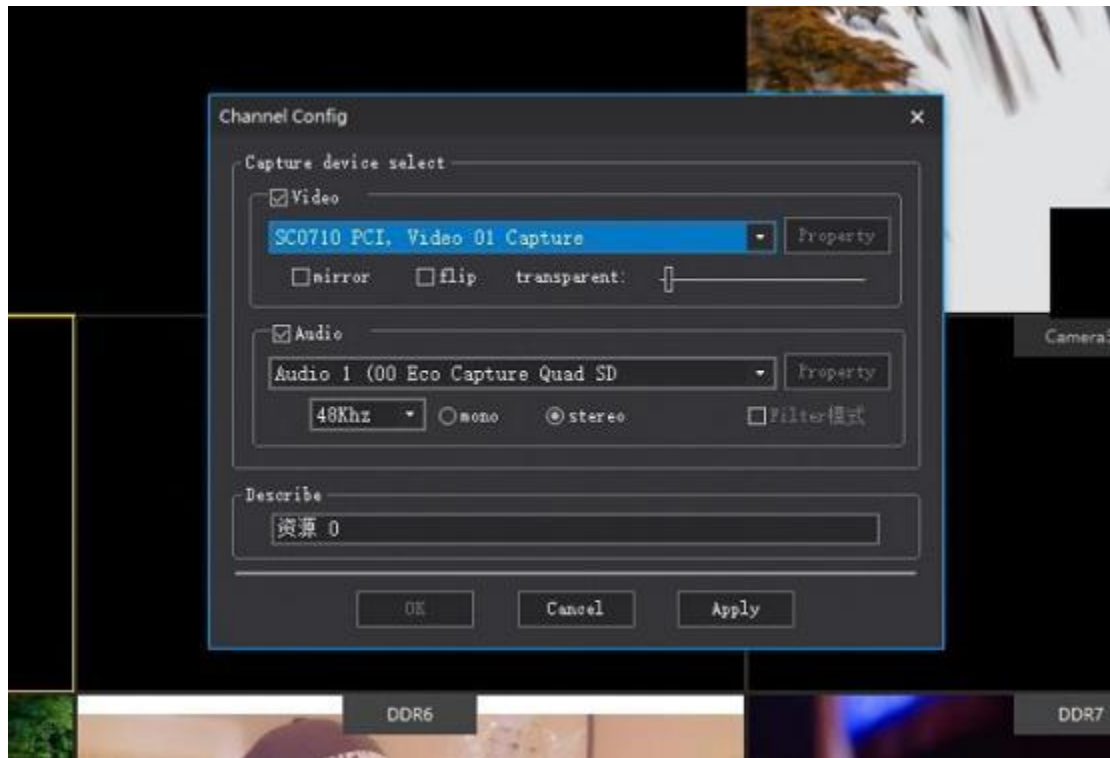
1-16 Each window adopts signal composite design, a variety of signals mixed with a channel design, there are camera, NDI, STREAM and DDR four signal sources can be switched at any time, as shown in the figure



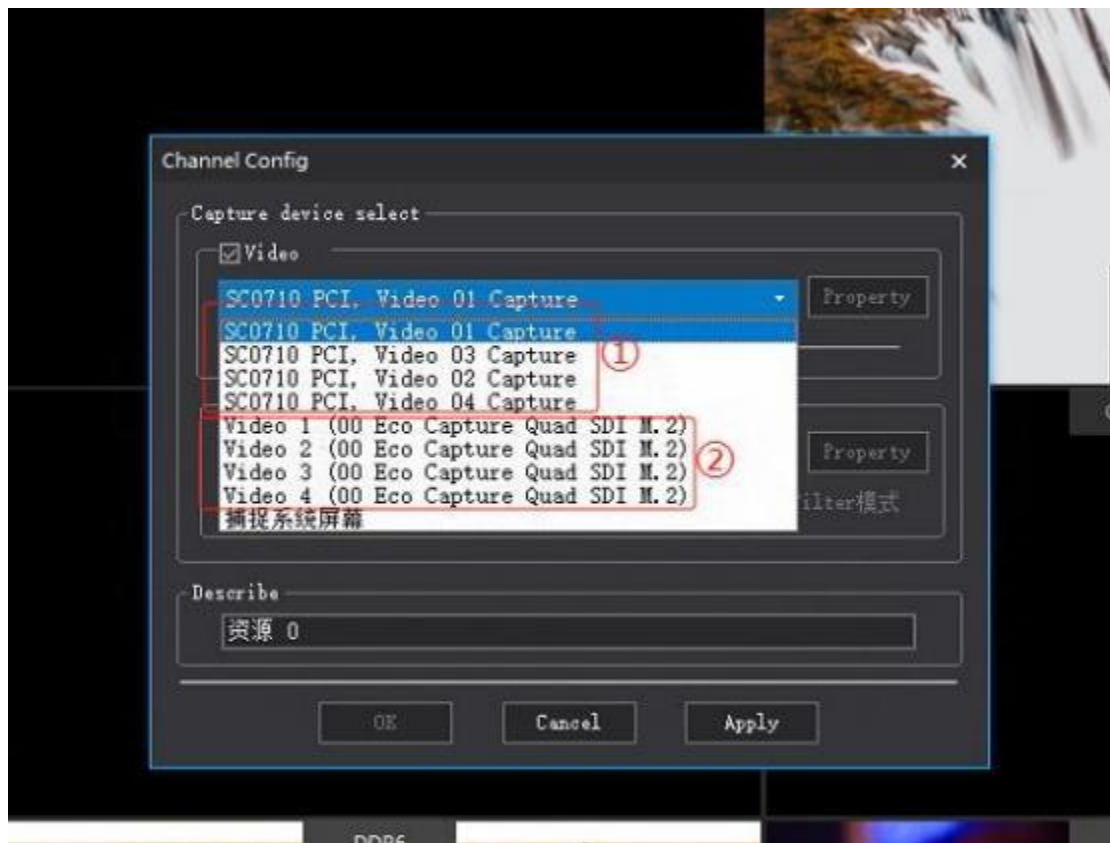
(1)、Camera: camera signal source, which can be transmitted through SDI or HD4K

Camera setting method:

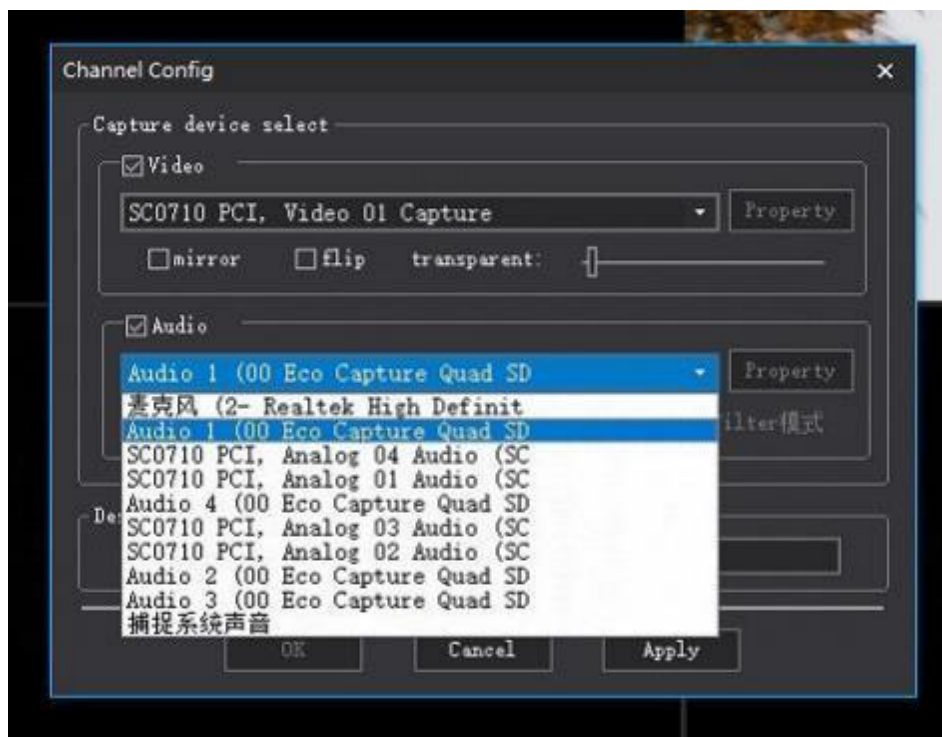
①Click the Settings button in the lower left corner of the preview window, enter the password (111111) and click OK



②Set the video signal as shown in the following figure:
PCI1-4 option is HD4K video signal, video1-4 is SDI video signal



③Set the audio as shown in the figure below, and need to be consistent with the video options as shown in the figure



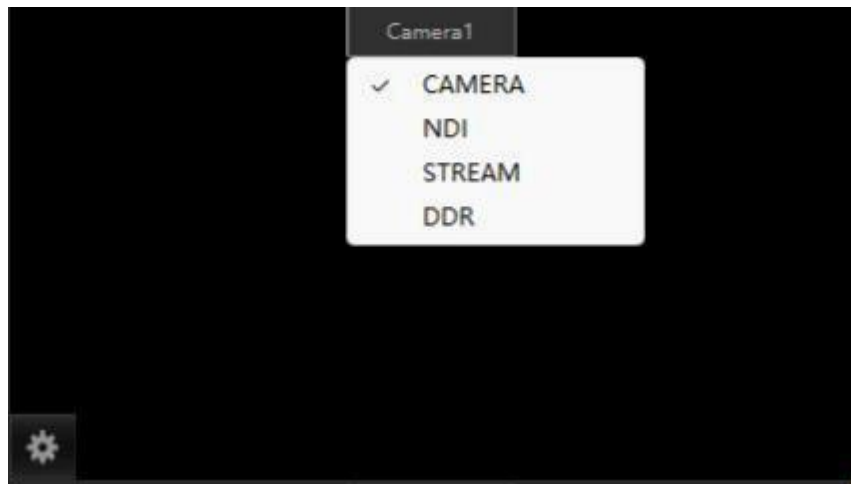
④Click Apply to set the video resolution and frame rate as shownClick Apply to set the video resolution and frame rate as shown



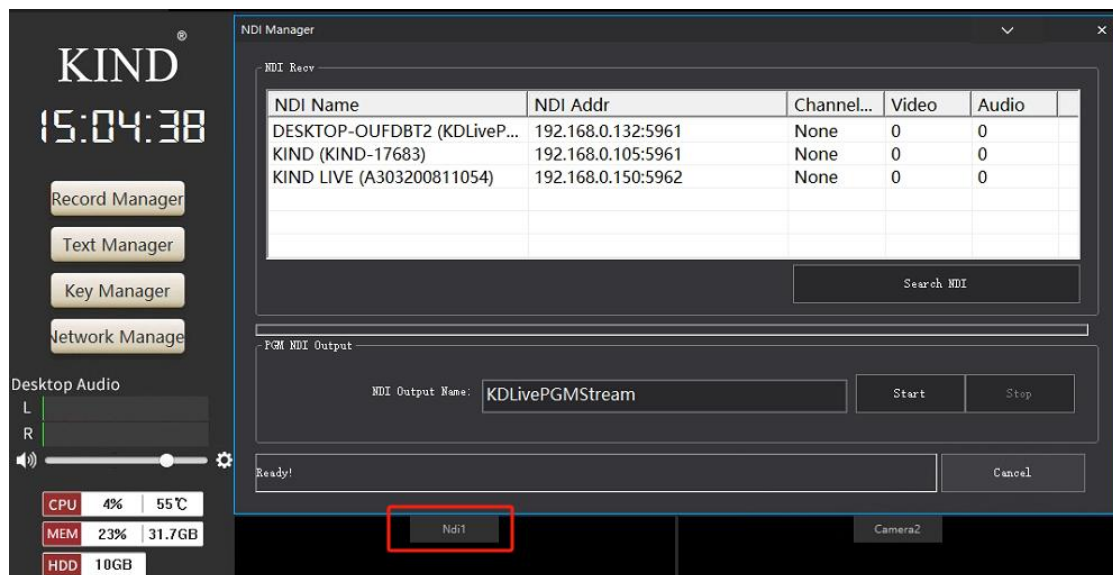
(2)、NDI: Network signal source, transmission through the network ;

How to set NDI

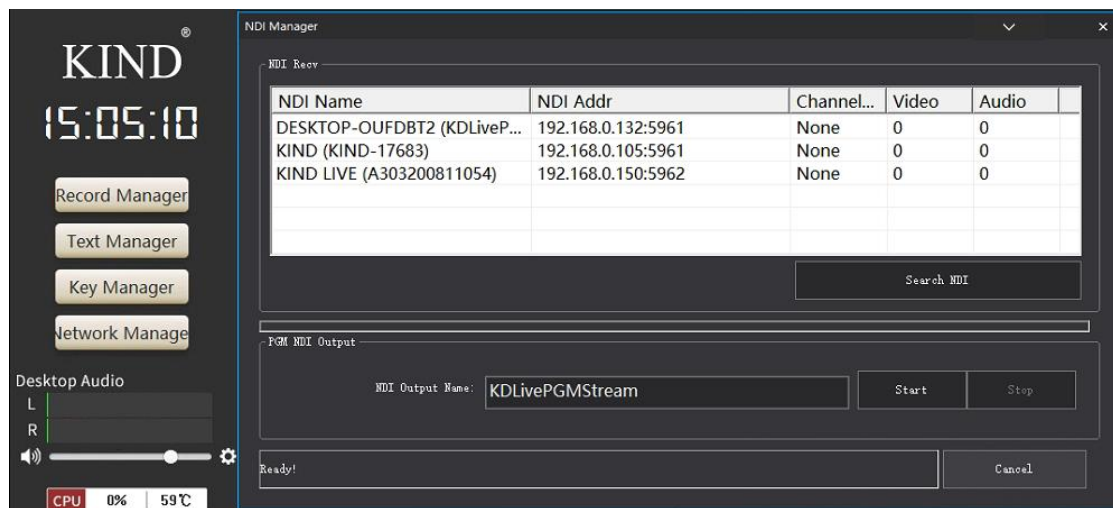
① Select the NDI option



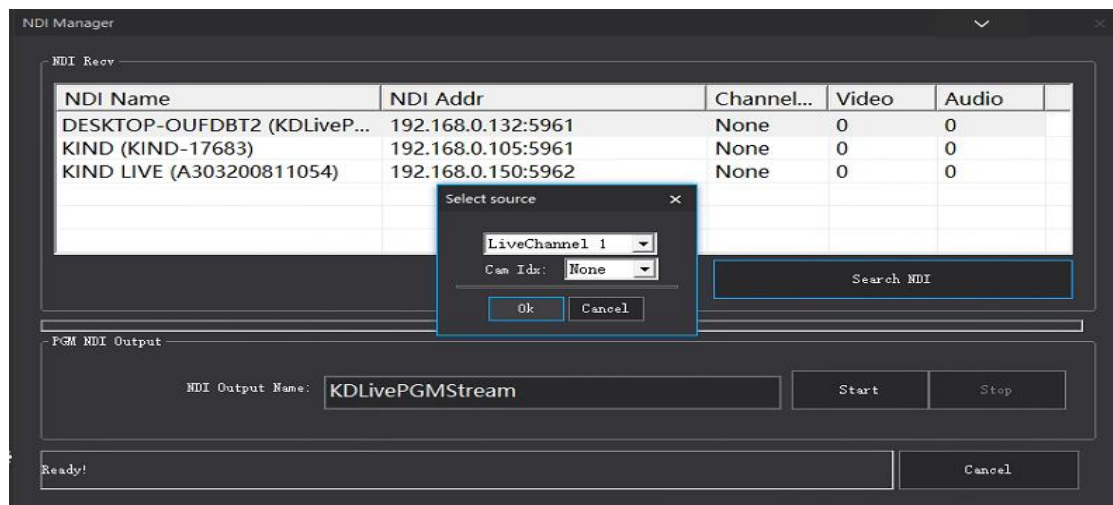
②Click the Settings button in the lower left corner of the small window as shown



③After the NDI signal source is enabled, click the search NDI source option in the same LAN, as shown in the figure



④Double-click the signal source found, select the corresponding window and cam serial number (cam represents the control address) and click OK. After the setting is complete, the signal source will be used in the selected window.

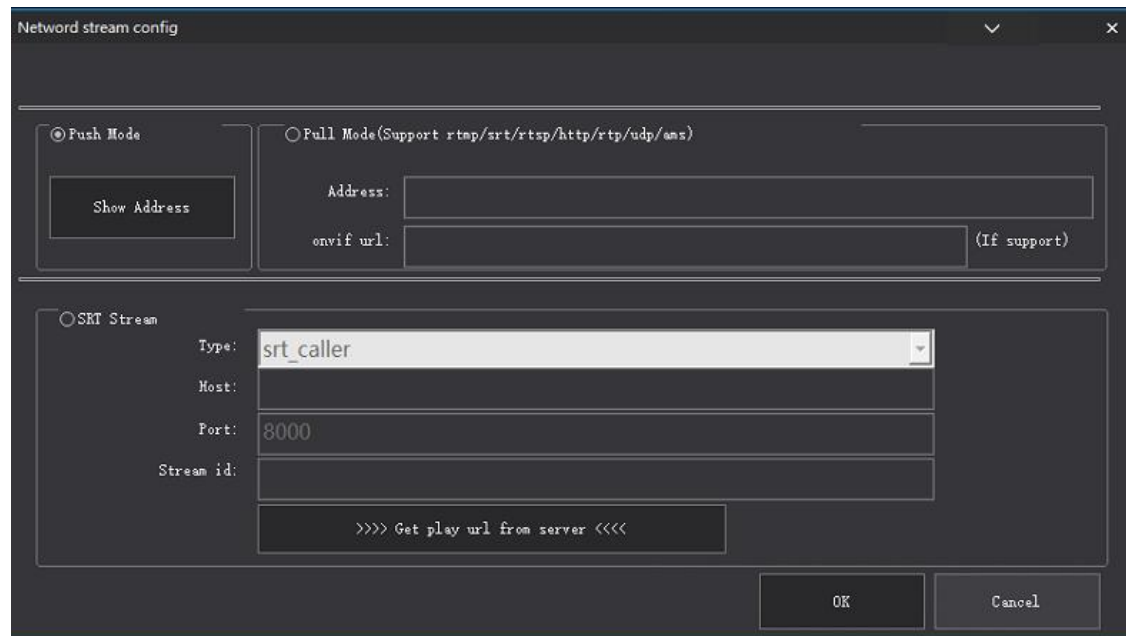


(3)、STREAM:

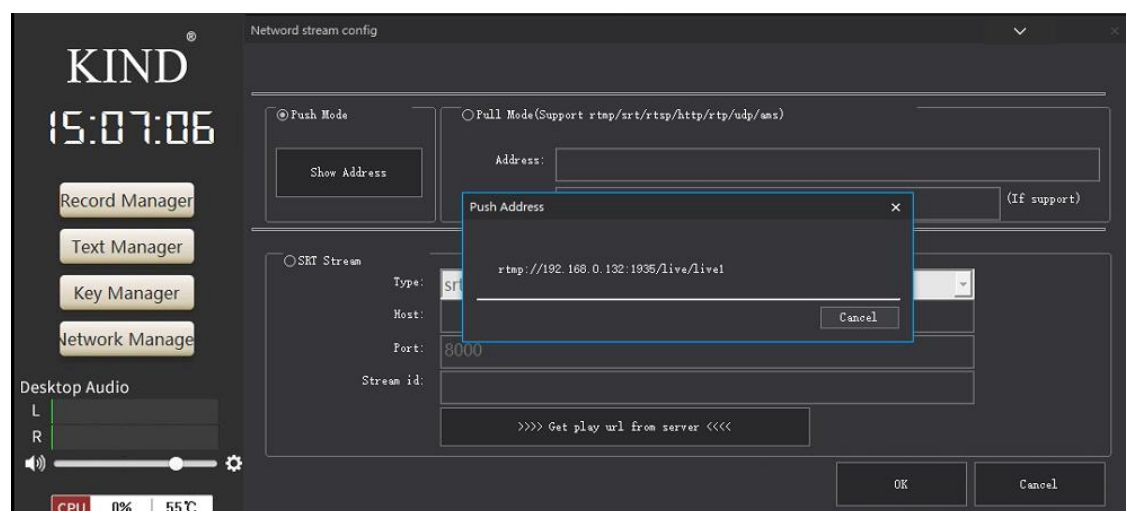
①Switch to STREAM mode;

②Click the Settings button in the lower left corner of the preview window;

③STREAM mode is divided into three modes, push mode, pull mode and SRT flow mode



④Push mode Click to view the push stream address, enter the address into a device with the same mode (in the same LAN), and the push stream will be displayed in the preview window.

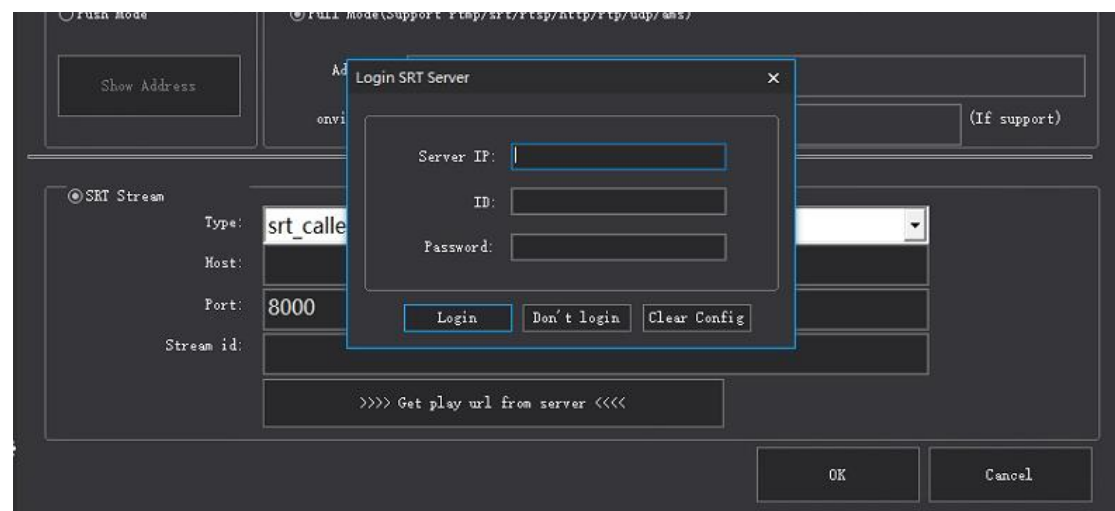
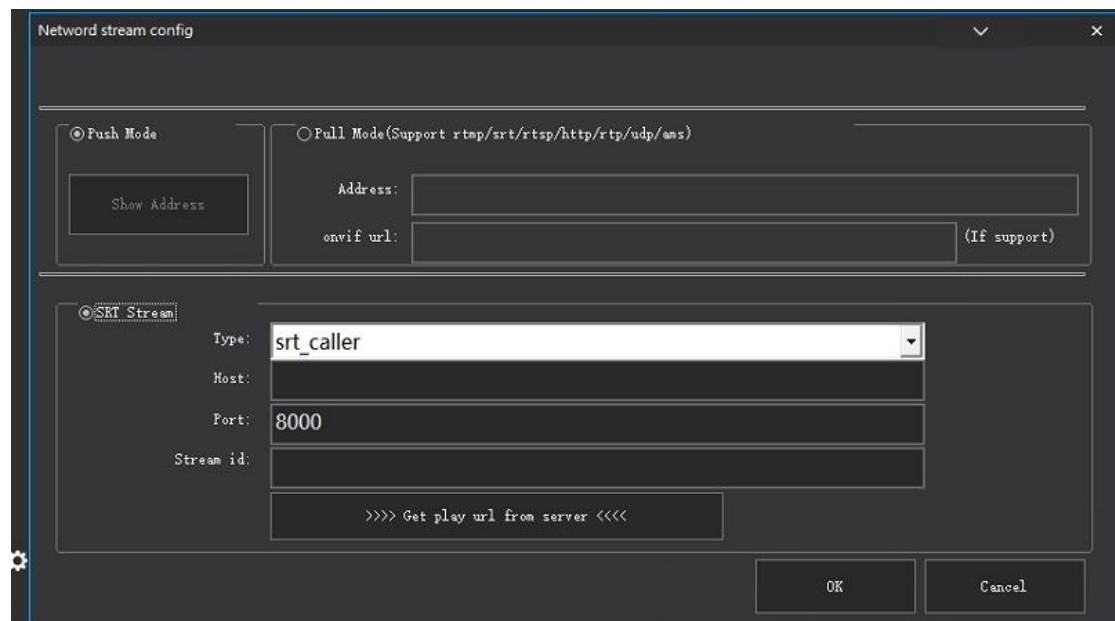


⑤Pull mode supports RTMP/SRT/RTSP/HTTP/RTP/udp/ams deal

Enter the corresponding address to pull the camera picture to the corresponding preview window.

The screenshot shows a 'Network stream config' window. It has two main sections. The top section is for 'Pull Mode' (selected) and 'Push Mode'. The 'Pull Mode' section includes a 'Show Address' button, an 'Address' input field, and an 'onvif url' input field with a note '(If support)'. The bottom section is for 'SRT Stream'. It includes a 'Type' dropdown menu set to 'srt_caller', 'Host', 'Port' (set to 8000), and 'Stream id' input fields. Below these fields is a button labeled '>>> Get play url from server <<<'. At the bottom right are 'OK' and 'Cancel' buttons.

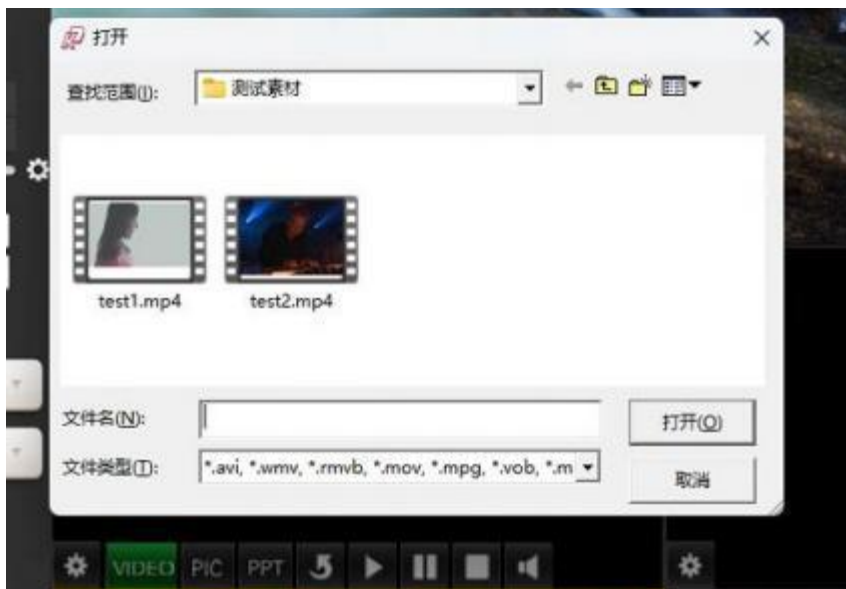
⑥SRT output: Pull the picture captured by the camera into the software through the streaming media server for recording and broadcasting, and select the route as shown in the figure (after logging in to the server)



(4)、DDR: Play local videos, pictures, and PPT, as shown in the figure



①Click the VIDEO button under the preview window



②Find the location of the file Select the file and click the Open button ;

③ The preview window plays the selected file (PIC and PPT, PPT needs to download the version above office 2013 to be used) ; As shown in the following figure, the window switch of premonitor 1-8 can be quickly switched through the hardware switch desk

SOURCE1

1

2

3

4

CAMERA

STREAM

NDI

DDR

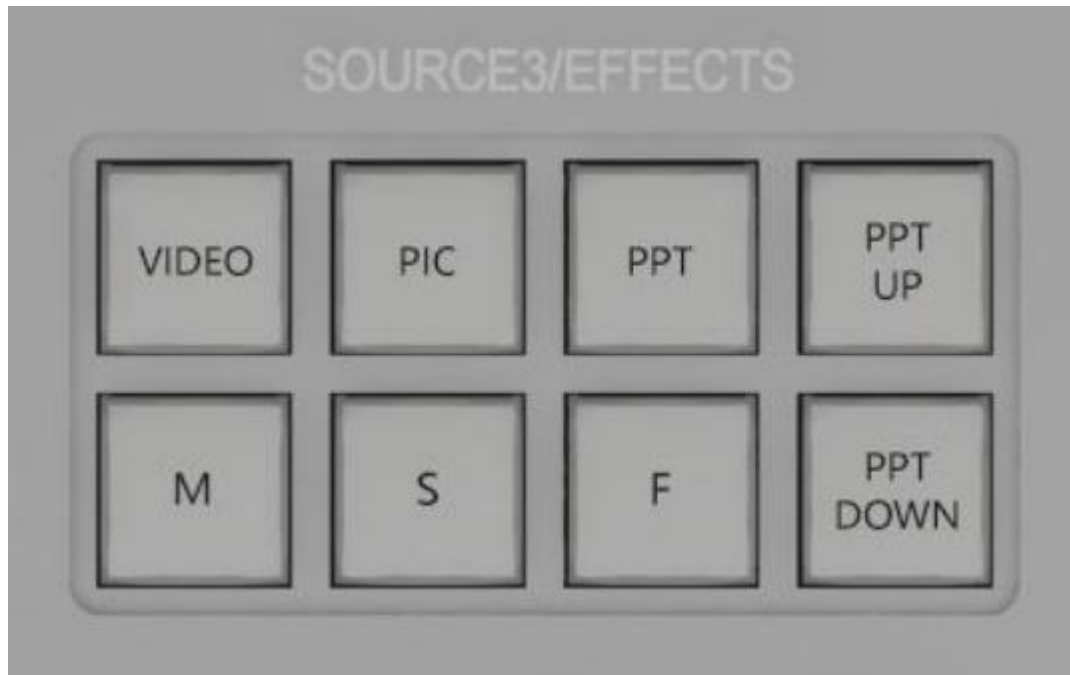
SOURCE2

5

6

7

8



Switch between PPT UP and PPT DOWN in PPT mode.

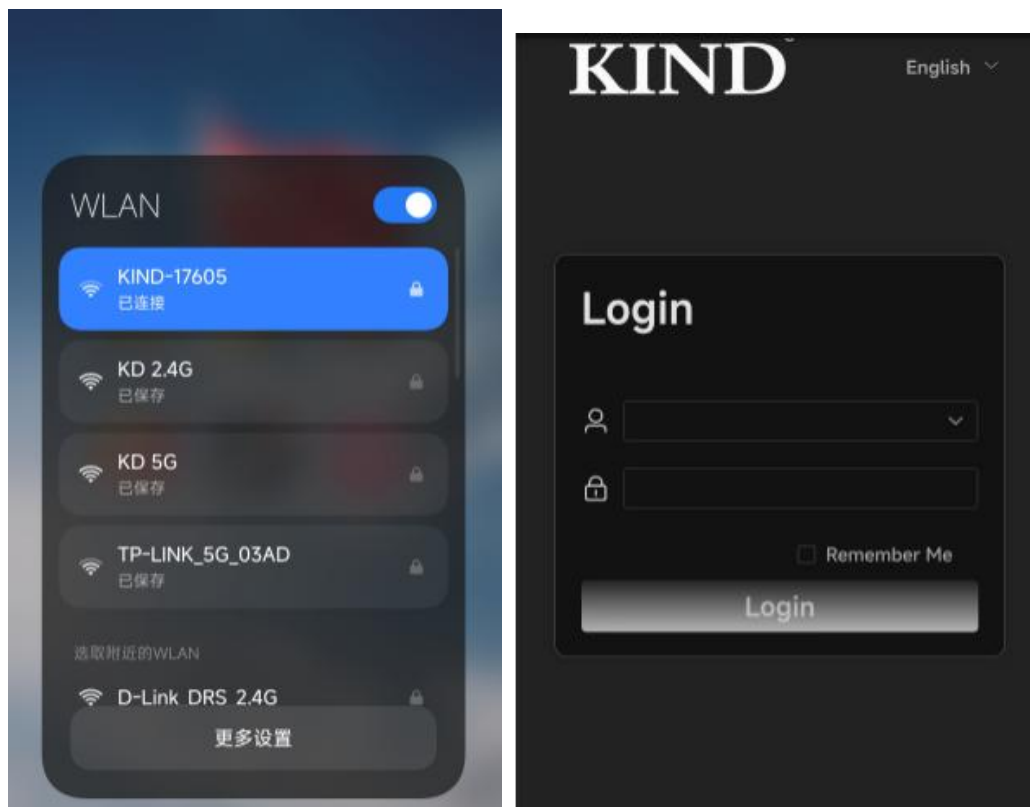
M, S, and F represent minutes, seconds, and frames respectively for video playback.

The recommended DDR image format is JPG and BMP, the resolution is 1080P, and the size is within 2MB;

八、 The instructions for connecting the computer to the driver

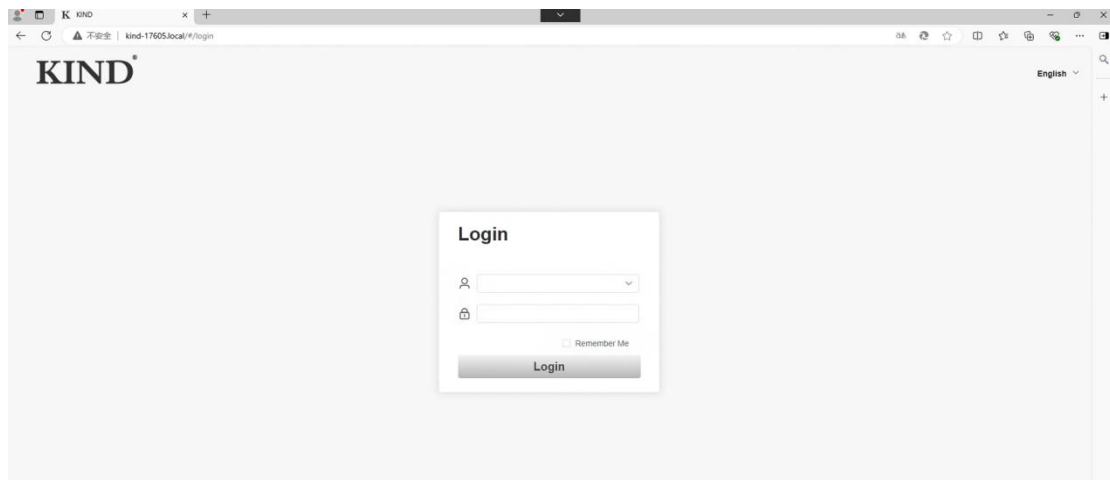
Background Settings for connecting the mobile phone

1. First, open the mobile phone and search for WIFI(the default naming format of the device is as follows, the password is 12345678). After the wireless connection is successful, open the system browser and enter the device name <http://kind->.

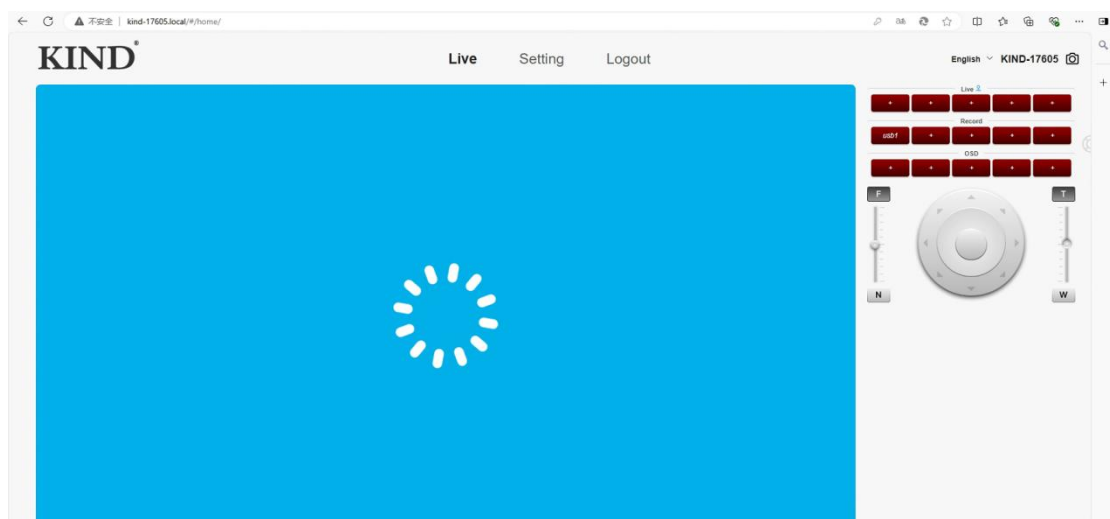


Computer login method

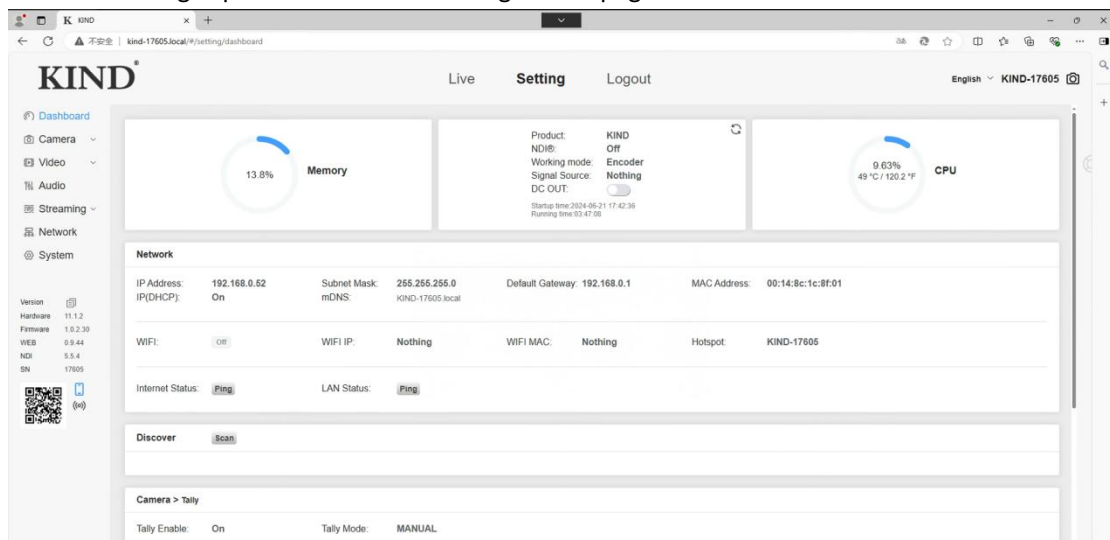
Open your browser, enter <http://device ID.local>, and set the account password to admin
As shown in the figure



Enter the page



Click the Settings option to access the configuration page



Configuration screen: Displays the overall configuration screen

Camera configuration: PTZ Settings can select the protocol, IP address, transport protocol, port, address and other information

Tally allows you to set switches, modes and more

KIND[®]

Live

Dashboard

Camera

PTZ

Tally

Video

Audio

Streaming

Network

System

Version

Hardware

Firmware

WEB

NDI

SN

11.1.2

1.0.2.30

0.9.44

5.5.4

17605

Tally Setting

Enable

Mode

Light

LCD

MANUAL

OFF

RED

GREEN

Not locked

PTZ Setting

Protocol

IP Address

Transport

Port

Address

Address Fix

Speed Mode

VISCA over IP

192.168.1.167

TCP

1259

1

OFF

Auto

Save

QR Code

(o)

Video configuration Set the video coding, video output, and OSD canvas

← 刷新 不安全 | kind-17605.local/#/setting/video/video_input

KIND®

LiveSettingLogout

Dashboard

Camera

Video

Input

Encoder

Output

OSD

Audio

Streaming

Network

System

Version

Hardware

11.1.2

HDMI

Resolution

No Signal

Audio

No

← 刷新 不安全 | kind-17605.local/#/setting/video/encoder

KIND®

LiveSettingLogout

Dashboard

Camera

Video

Input

Encoder

Output

OSD

Audio

Streaming

Network

System

Version

Hardware

Firmware

WEB

NDI

SN

11.1.2

1.0.2.30

0.9.44

5.5.4

17605

Encoder Settings

Main Stream

Codec

H.264

Profile

MP

Resolution

1920x1080

Rate Control

CBR

Bitrate

12000

Frame Rate

30

I Frame Interval

60

Save

Secondary Stream

Codec

H.264

Profile

MP

Resolution

1280x720

Rate Control

CBR

Bitrate

1000

Frame Rate

30

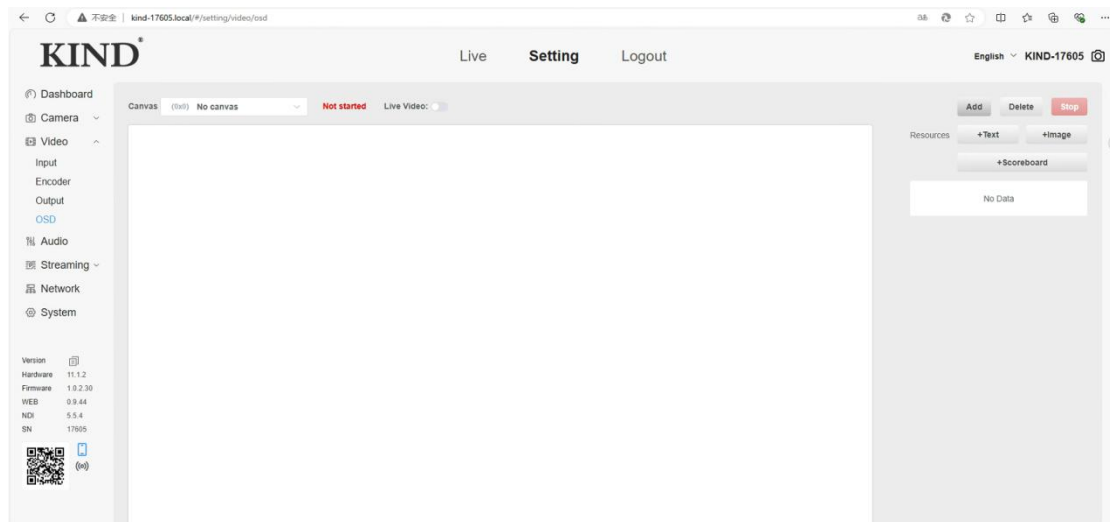
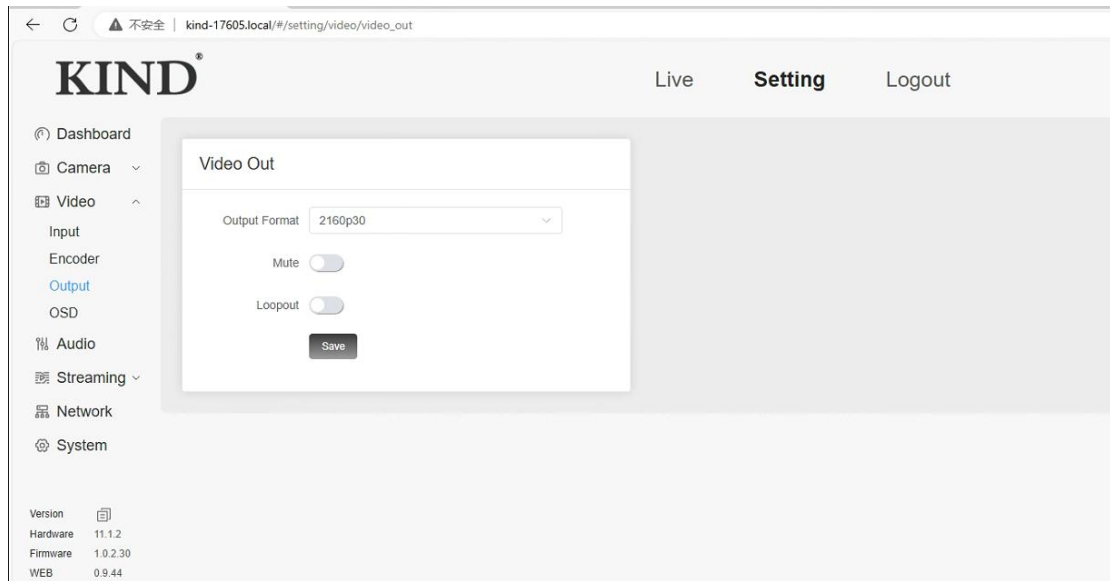
I Frame Interval

60

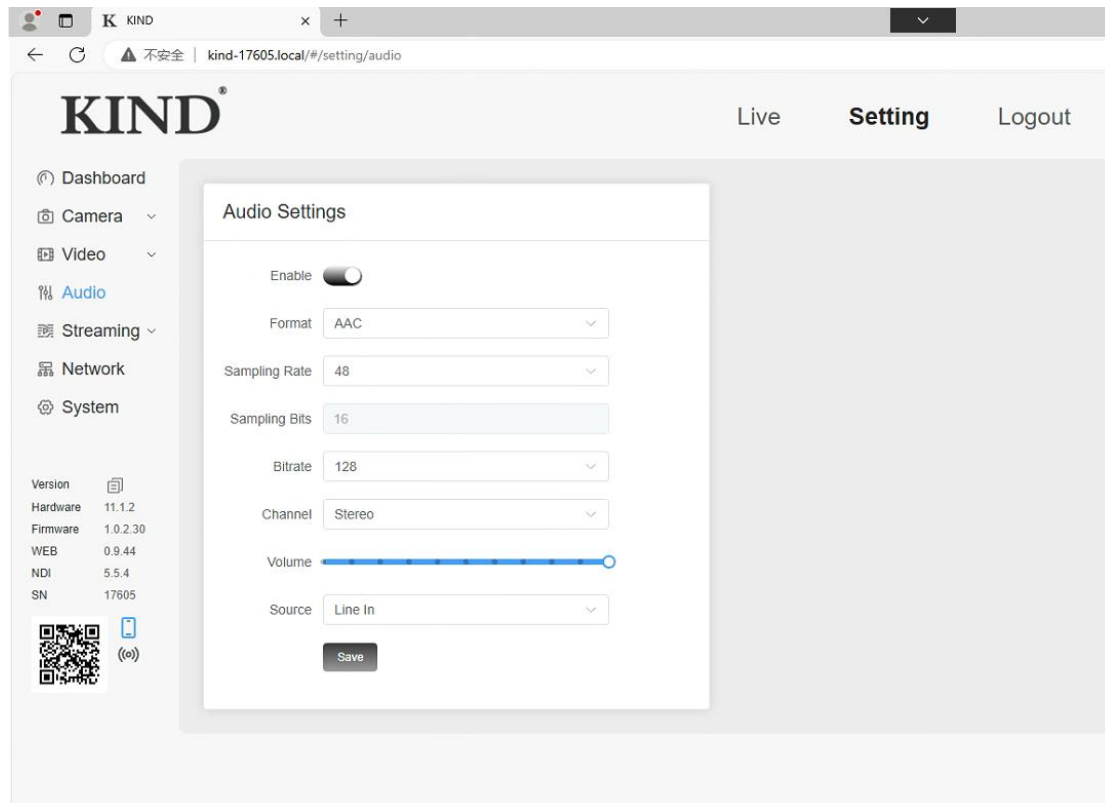
Save



 (00)

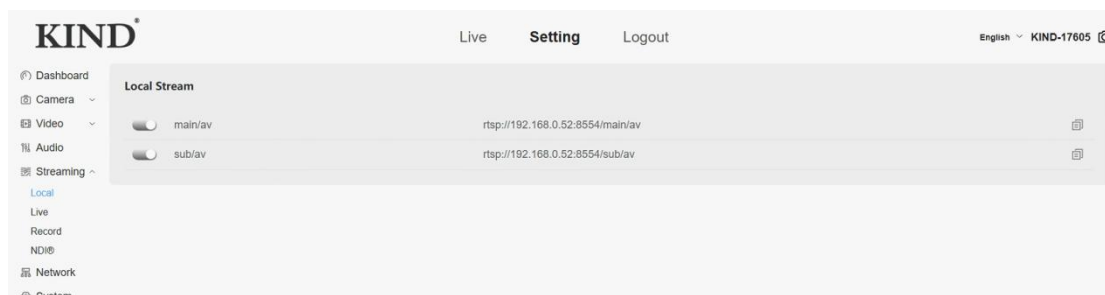


Audio configuration: Set the audio format, sample rate, bit rate, channel, volume, and audio source

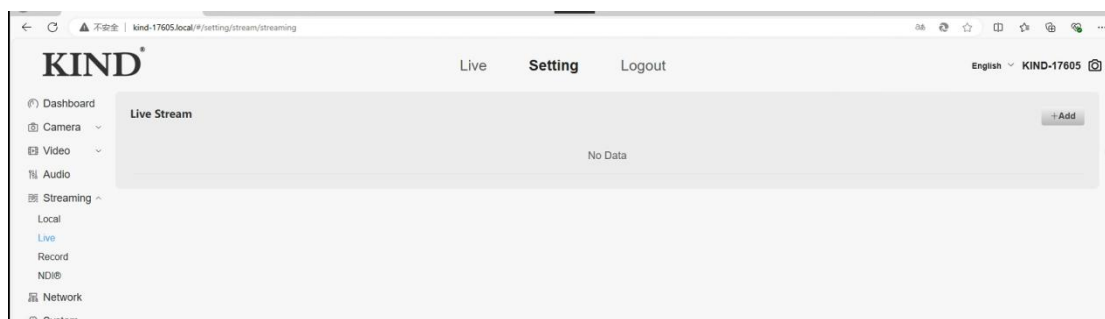


Media configuration: local stream, network stream, video, and NDI information

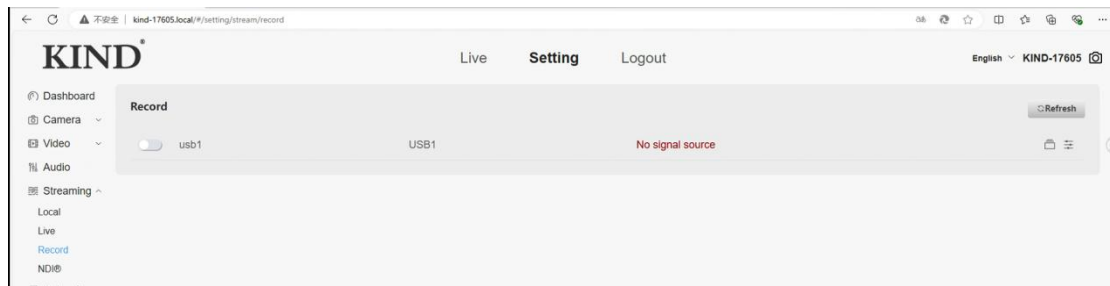
The local stream can extract the RTSP protocol of the device



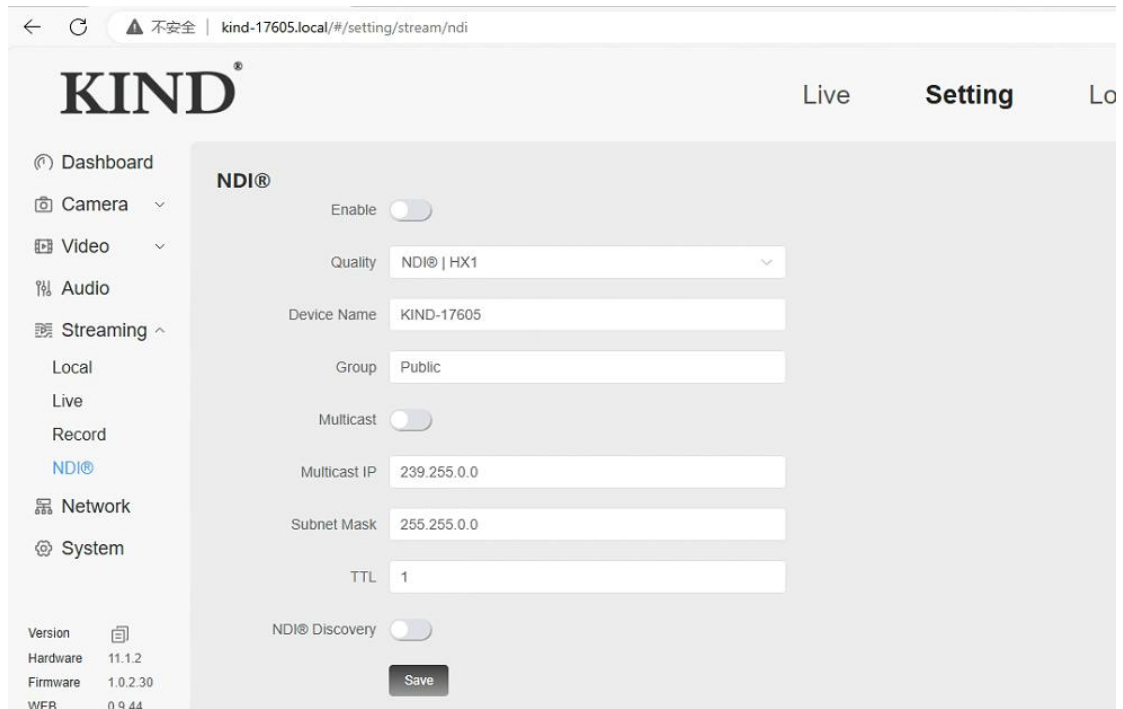
Network stream: Configure information such as multiple live broadcast addresses



Video: Displays information about the inserted storage device



NDI: Configure NDI information



Network configuration: Set the network, hotspot, WIFI, and network port information of the device

九、Contact us

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