KIND Purchasing, recording and compiling the

Operation manual of the all-in-one machine

KD-LC-8M

catalogue

一、 Precautions for the use of live broadcasting machine

• Before use, please read this manual carefully and keep this manual properly ；

• Please observe the warning signs and instructions on the product；

• Please unplug the machine before cleaning. Do not use alcohol, thinner, insecticide or other

volatile solvents, as doing so may deform the housing or damage the surface；

• The operating system is Windows 11 X64；

• Disk C is a system disk, disk D and disk E are data disks, and disk F is a system backup disk. Do not

delete files in the disk；

• If the system fails, use the system backup file (on disk F). GHO file) can be restored；

• To maximize system performance, set high performance in system power options；

• Do not use this product near water；

• Do not place the product in an unstable place, such as wheelbarrow, stand, etc., to avoid falling

and causing serious damage to the product。

• The opening holes on the outside, back and bottom of this product are for heat dissipation. Do

not cover or plug these opening holes to avoid overheating. Avoid placing the product on objects

with similar surfaces such as beds, sofas, blankets, etc., so as not to plug the opening hole. Do not

place this product near fire sources, heating furnaces or hot vents. Do not place this product in a

closed space unless you are sure that a proper vent is available；

• For the power supply used in this product, please follow the mark on the power converter；

• When using the extension cable, please make sure that the total power/total amperage used

must not exceed the total amperage loaded by the extension cable；

• Do not insert anything into the body opening to prevent short circuit. Do not spill any liquid on

this product

• Do not disassemble and repair without authorization。

• If any of the following occurs, unplug the product and consult a qualified technician；

①The power cord or plug is damaged or unraveled；

②A liquid has seeped into the product；

③If this product has been rained on or spilled with water；

④Damage caused by computer system viruses and 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。

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 may be restricted。

二、Product features

Product specification

Model number	KD-LC-8M
Power source	AC110V-240V,50Hz,400w
Operating temperature	0-40℃
Dimension	（L*W*H）410mm*370mm*160mm
Weight	10kg
Video input	SDI×4(assorting), HDMI(4K)×8,HDBaseT(4K) ×4, NDI×10,Stream×10,SRT×10,DDR×10
Video output	NDI×1,SRT×1; HDMI×2
Audio input	Stereo (L,R) IN RCA×5,MIC XLR×5
Audio output	Stereo (L,R) OUT RCA×1,Balanced XLR OUT×2,MonitorΦ3.5×1,Playback monitorΦ3.5×1,The director calls MICΦ3.5×2
Other interface	USB3.0×2, ,RJ45×1 ,
Sound console	Digital mixer×5,Analog mixer×5,Audio hardware delay device×1

Record	MP4,WMV,AVI,MKV,MOV,FLV,TS，MPEG
Live broadcast	HTTP;RTMP,NDI,SRT
Controls	PTZ control
Subtitles	CG-Alpha DVE, Video playback, Virtual matting system
Disposition	Intel i9 CPU 12900T,DDR5 32G,1TB SSD
System	Windows 11

Video: 4K 60FPS switching station, input signal: 3G-SDI (optional) 4K HDMI/4K HD Base T+DDR

(video, pictures, PPT, video playback) +Stream network flow (push, pull) +NDI+SRT, mixed switching；

Audio: Digital mixer + analog mixer；

Recording resolution: up to 3840*2160；

Recording format：MP4、WMV、AVI、MKV、MOV、FLV、TS、MPEG

Camera PTZ control；

64-bit kernel, 4K 60fps, Alpha online packaging system, virtual matting system, audio and video

editing system；

Applications: studio, educational recording, media live, all kinds of conferences and events live；

dimension：（L*W*H）410mm*370mm*160mm；weight：About 10kg；

2.1 System chart
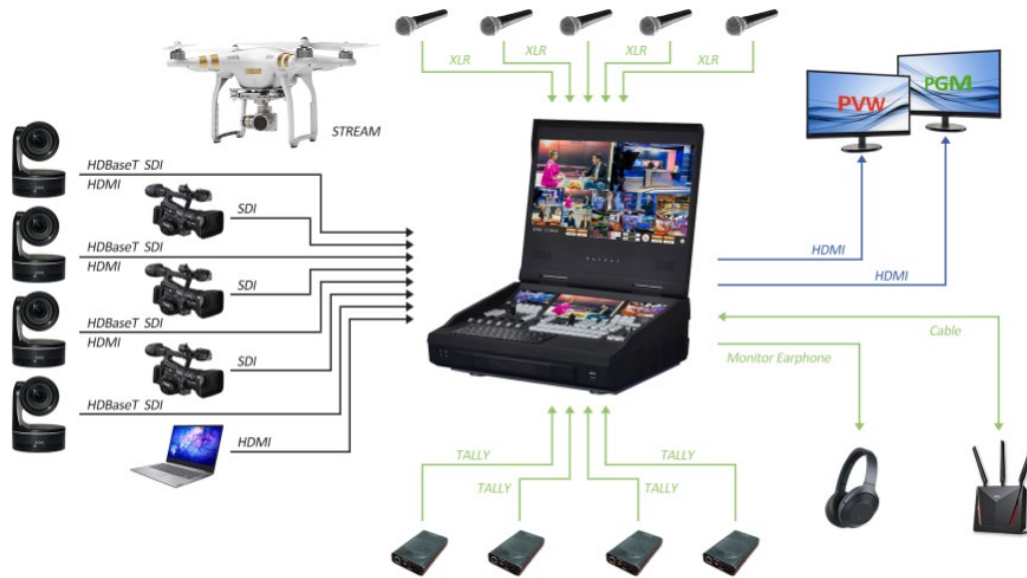
三、 The back interface and control panel interface of the live broadcast machine

（1） Introduction to the control panel of the broadcast machine
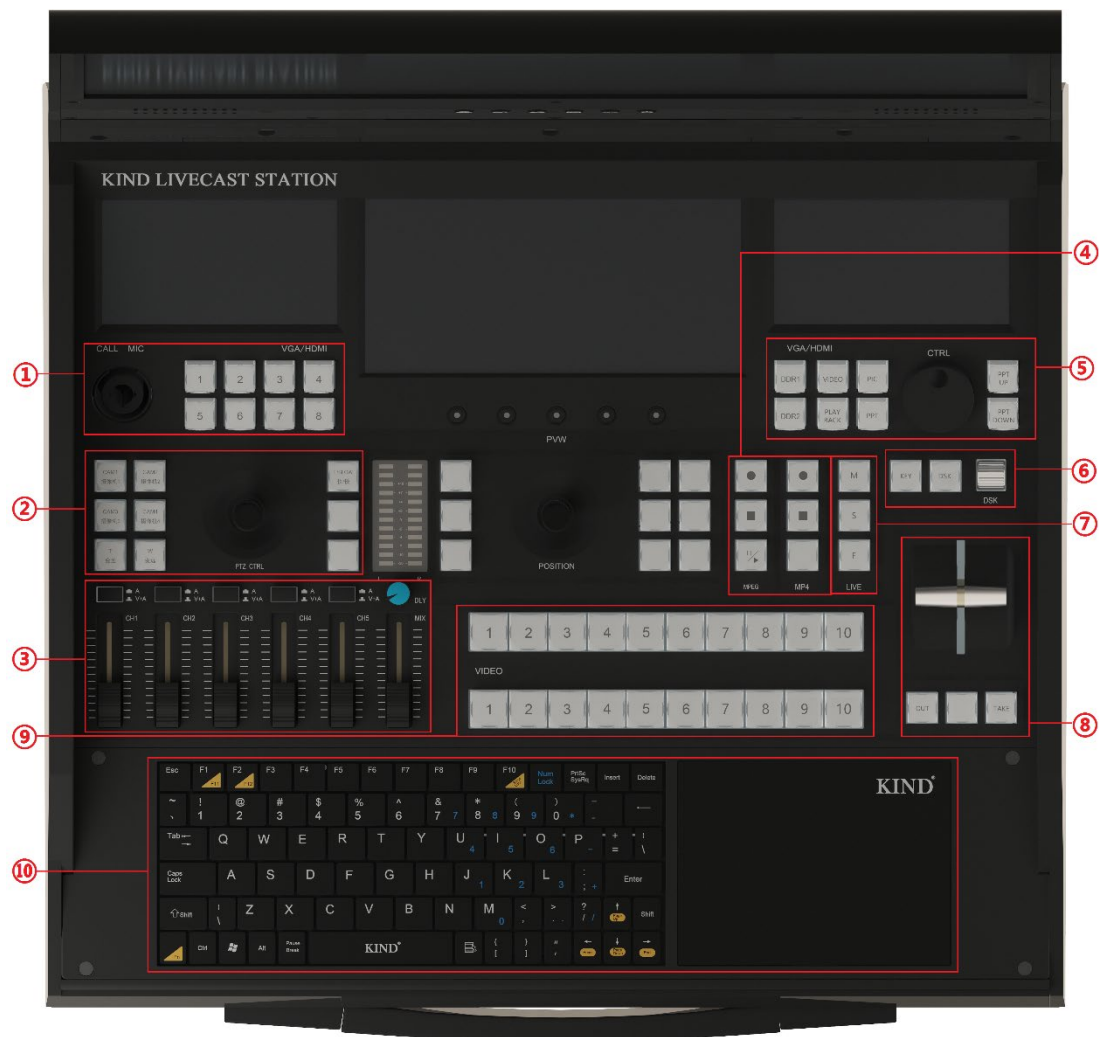
①Camera preset bit call

②4 Slot channel address, speed adjustment and zoom

③Mixing console, analog audio and audio switches

④Record, stop switch key

⑤Local material video, pictures and PPT switching and page turning

⑥Keystroke, subtitle shortcut

⑦Video playback shortcut key

⑧T-type push-rod, multi-mode switch key

⑨PGM and PVW video switcher

⑩Keyboard and mouse combination

（2）Introduction to the ports on the back of the broadcast machine
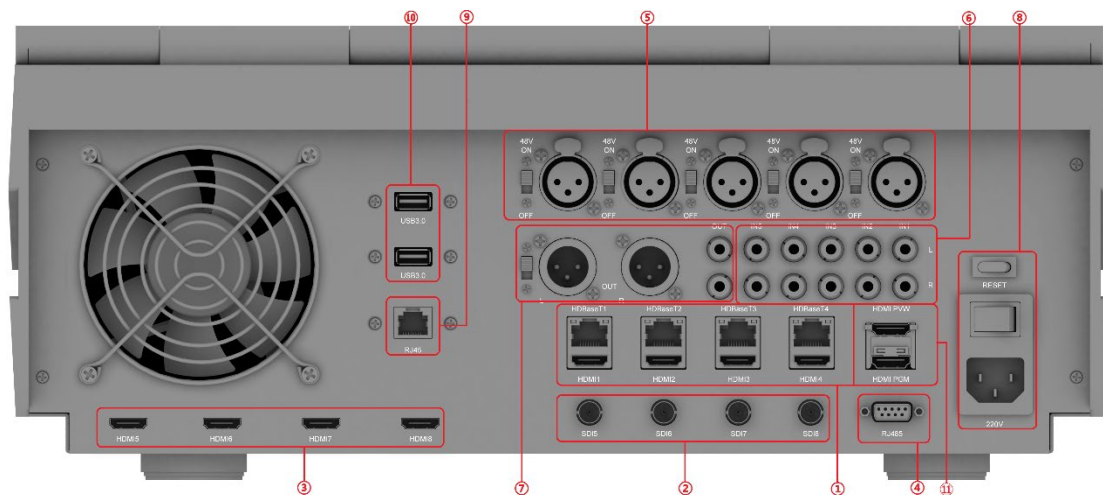
①1-4 4K HDMI/4K HD Base T video input

②SDI video input

③5-8 HDMI video output

④485 interface

⑤1-5 Canon ports

⑥Audio stereo input

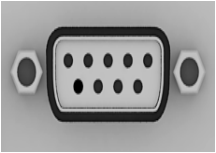⑦MIC, stereo output

⑧DC power port, power switch
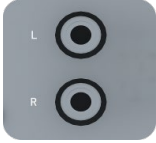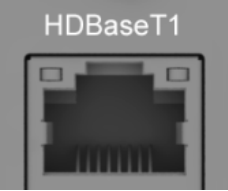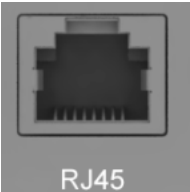
⑨RJ45 network interface

⑩3.0USB port

⑪HDMI video output

（3）This section describes the interfaces on the back

port	Instructions
	L/R Audio output XLR Balanced analog audio output interface
	1~5 Audio input XLR balanced analog audio input interface and each with 48V phantom power switch (support for professional microphone power supply)

	1 to 5 Audio input RCA Stereo analog audio input (left/right channel) OUT Audio output RCA stereo analog audio output interface
	8 HDMI input ports, support 4K input
HDBaseT1	1-4 HD Base T video inputs
	HDMI video output interface, can be connected to the display
RJ45	The network port can access the network for software parameter debugging, live broadcast, and stream pushing
USB	USB3.0
RESET	Power switch: Power on or off

	485 Control interface: adopts RS485 control signal and supports PELCO-D and VISCV control protocols
	SDI1-4 video input ports, supporting signal specifications 1080i50 Video source input (optional)
	DC power interface

3.1 This section describes the functions of the control panel
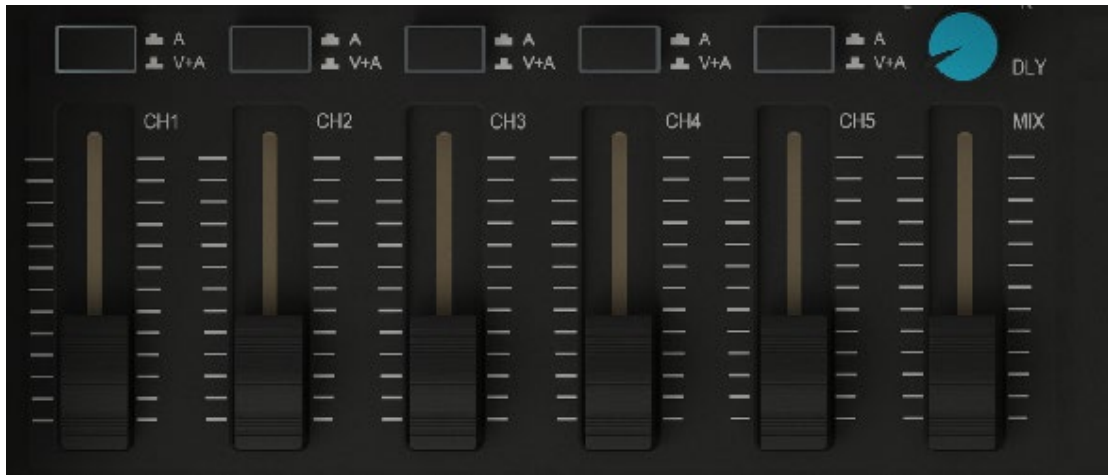
1 to 5 channel audio gain adjustment, corresponding to the backplane 1-5 audio source

input,A/V+A each sound switch, press to turn on

The sound level is controlled by software
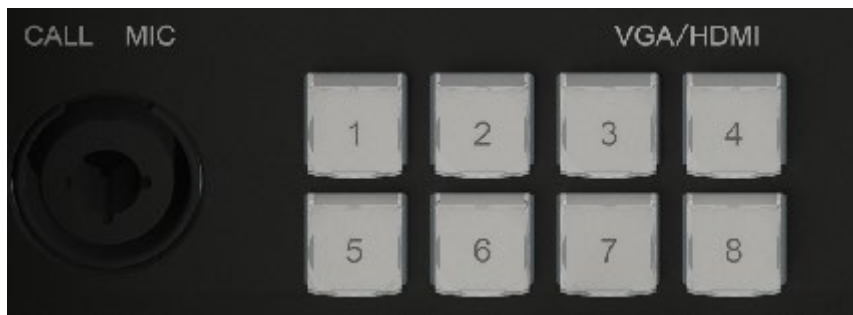
PGM audio gain adjustment。

4 Camera channel address, through the switch button to switch different camera, the key

light is controlling the current camera, the zoom function of the T/W camera。
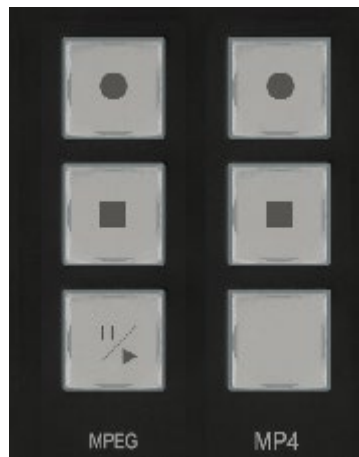
FAST/SLOW: Controls the rotation speed of the camera. When the indicator is on, the

rotation speed is fast, and when the indicator is off, the rotation speed is slow

8 camera preset bits, use this button to quickly adjust the camera Angle

Press 1 and 5 at the same time to set the preset bit

The first set of keys is the MPEG format recording, stop and live button, the indicator light is

recording, recording and live button can be used at the same time, or can be recorded

separately

DSK: Subtitle shortcut key: The indicator lights up and the subtitle function starts. It needs to

be used together with other keys；

KEY: Image tapping shortcut key: The indicator is on, and the image tapping function is
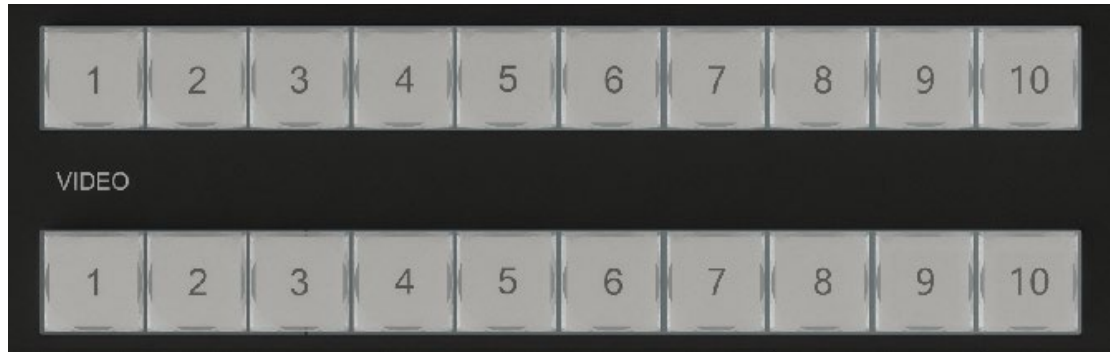
enabled.

VIDEO, PIC, and PPT can be played in one of the DDR modes；

PPT UP and PPT DOWN are page turning functions, enabling quick page turning during PPT
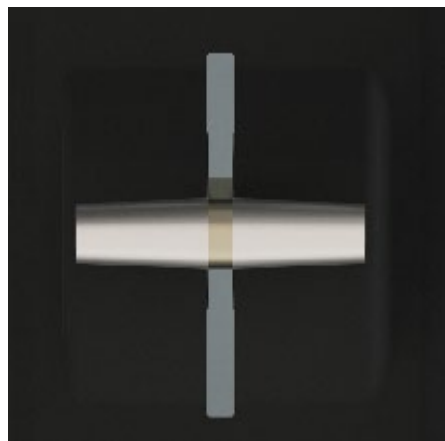
playback。

M, S, and F are played back in minutes, seconds, and frames respectively.
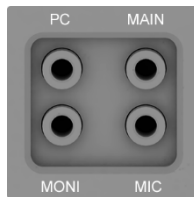

Hardware switching between PVW and PGM

The switch between Cut and TAKE buttons can switch PGM and PVW lenses, making the

transition more convenient and fast.

T-type push rod: The T-type push rod is a manual transfer mode to complete the switch

between PGM and PVW, and the T rod is pushed to the end to indicate the completion of the

transfer

The PC has 3.5 system sound output；

MAIN is a 3.5 listening interface；

MONI is a 3.5 call radio interface；
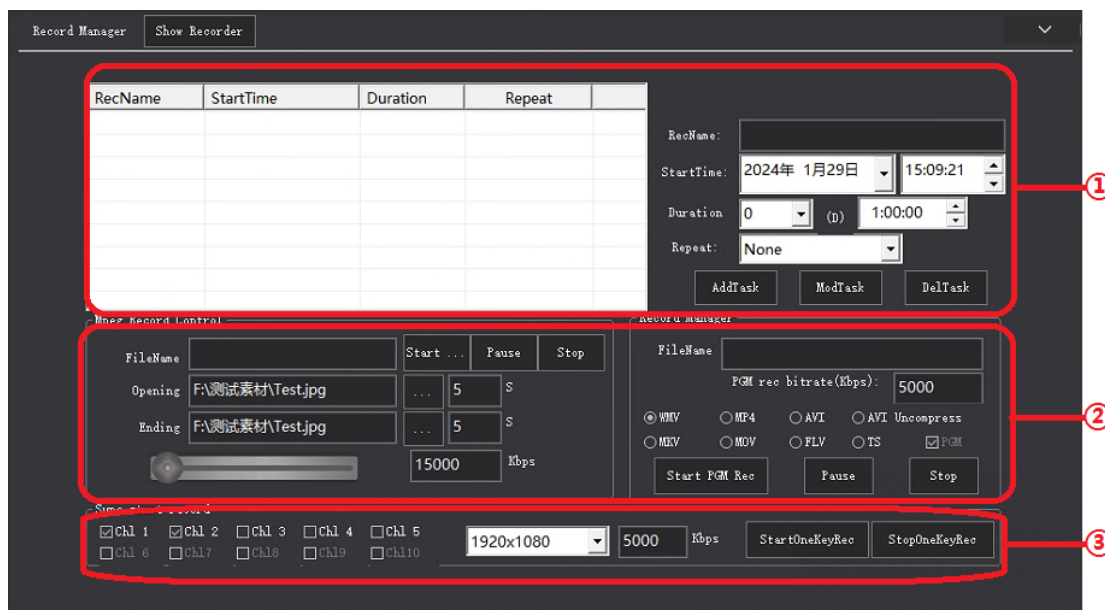
The MIC is a 3.5 microphone port；

四、Operation and introduction of live broadcast software

1、Main interface introduction

The main interface of the software is composed of PGM window, PVW window, 10-channel signal

source pre-monitoring window, recording, live broadcast, push stream control panel and software

mixer

2、Video management

①Scheduled task: This function allows you to set scheduled recording tasks；

（1）First set the time to start recording；

（2）Set duration；

（3）Set the repeat mode. The repeat mode can be no repeat, daily, or weekly；

（4）After the Settings are complete, the recording information is displayed in the white table；

②Recording: 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 completed。

③The synchronous recording function can record each preview window and adjust the resolution

and bit rate of the video.

After the recording is completed, click video to view, and you can view, burn, delete, preview and

store the video from this position。
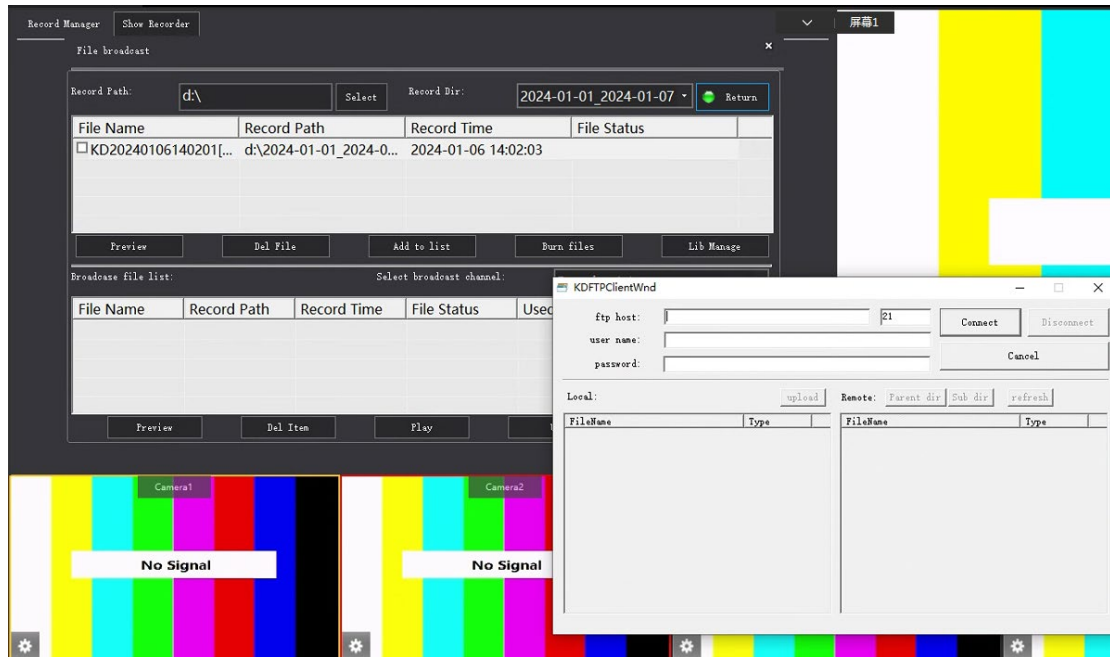
This interface function can view the recorded files in the current directory, and through the library

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
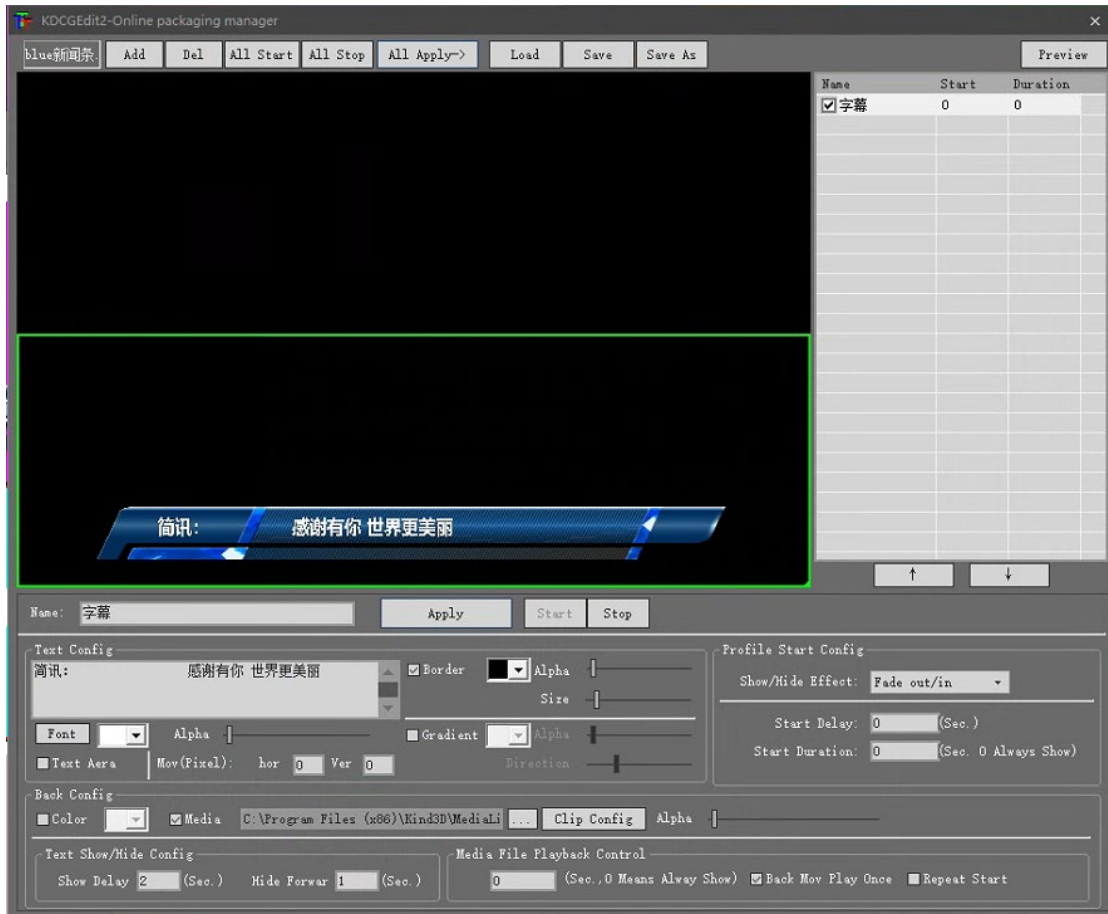
Click the edit button next to the logo as shown below to add the logo and create the logo function
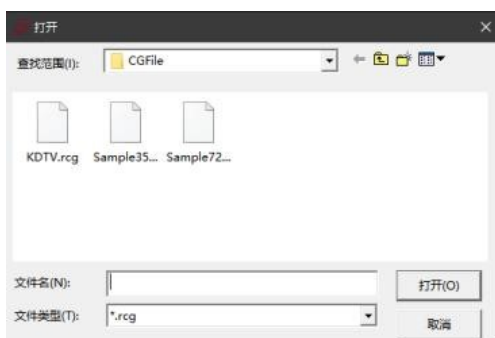
This mode is mainly used for the creation of the platform logo position, editing interface operation

as shown in the following figure
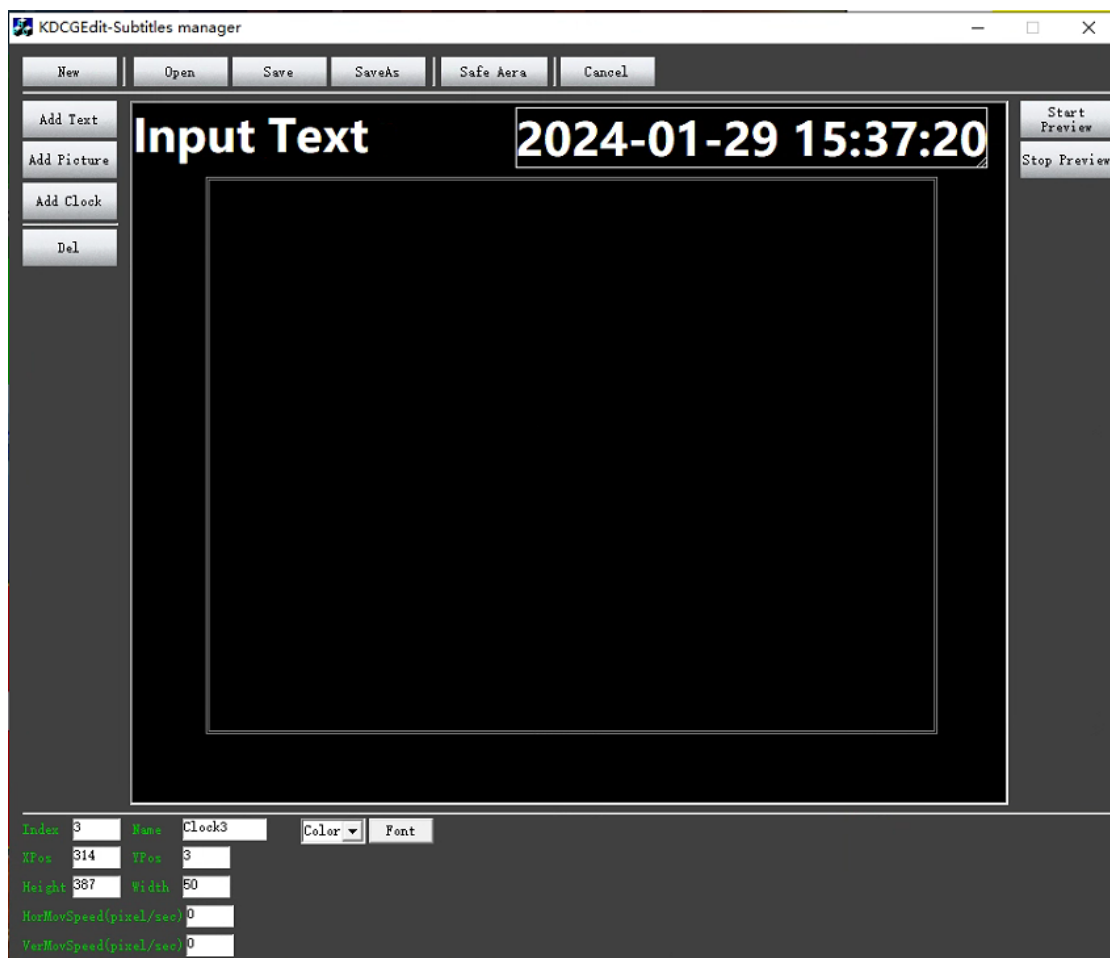
DVE MODE When a matching hook is added to the front of the DVE mode, you can implement

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 photo picking button to enter the photo picking 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

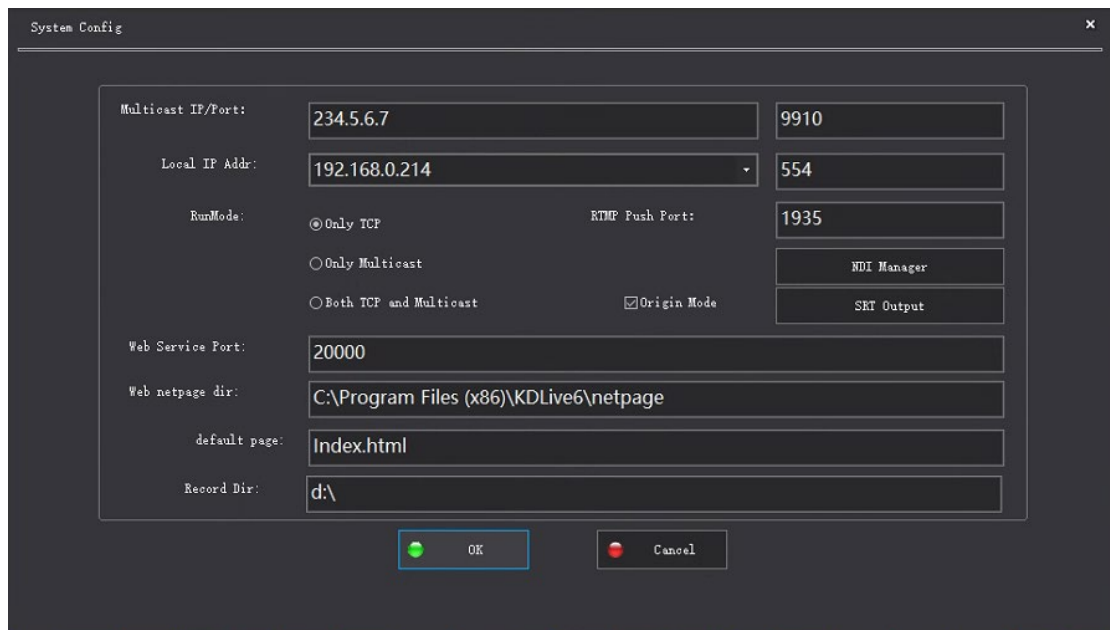adjusted, as shown in the following figure
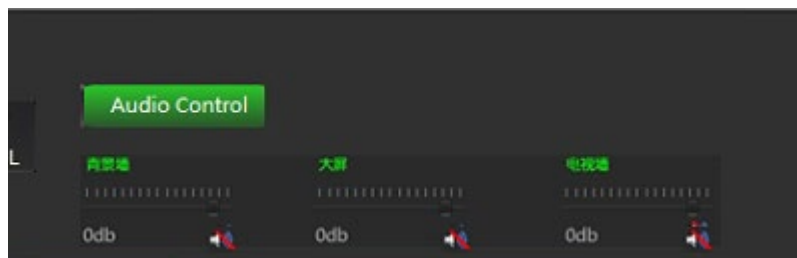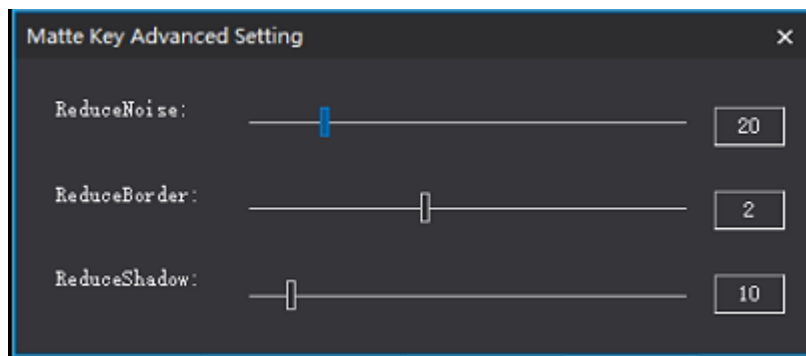
5、 Software mixer
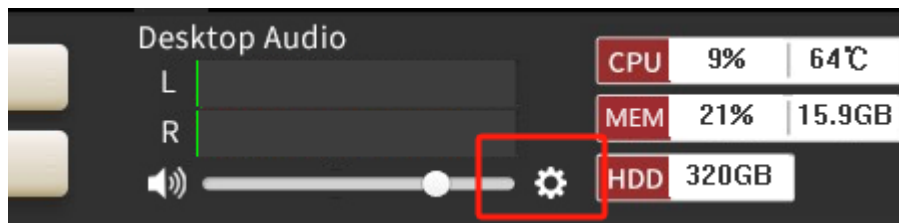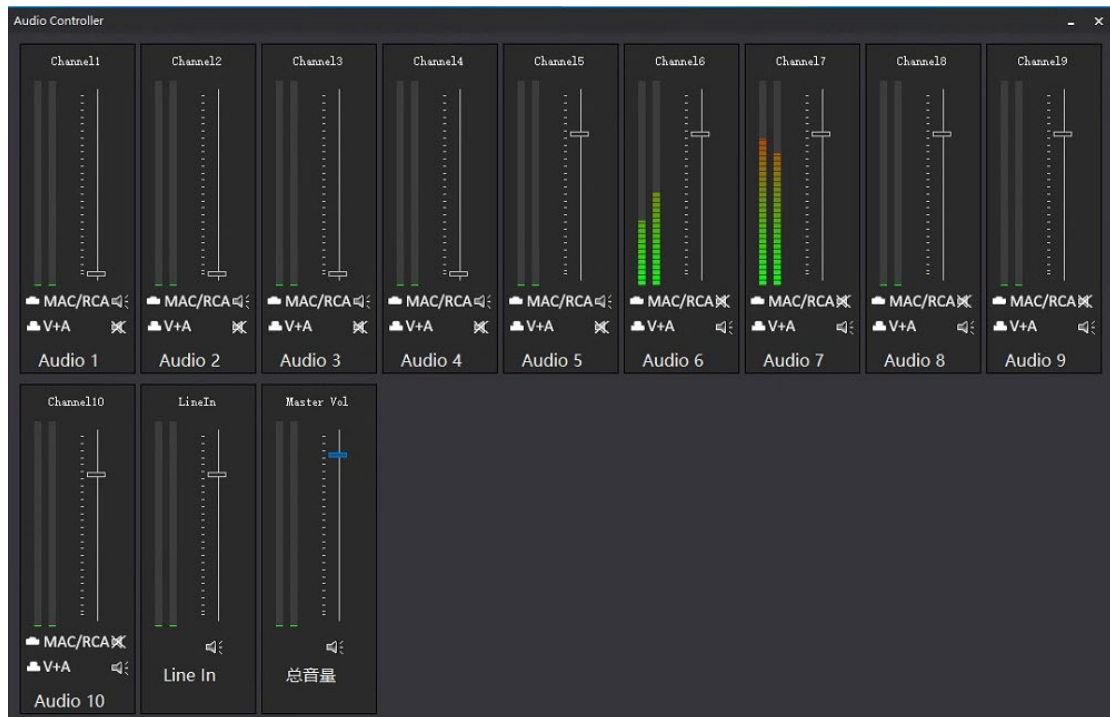
Click the software's Settings button to pop up 10 audio controller, this function is used for each

signal source channel NDI and STREAM mode audio adjustment, MIC and stereo audio is still

subject to the device mixer.

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
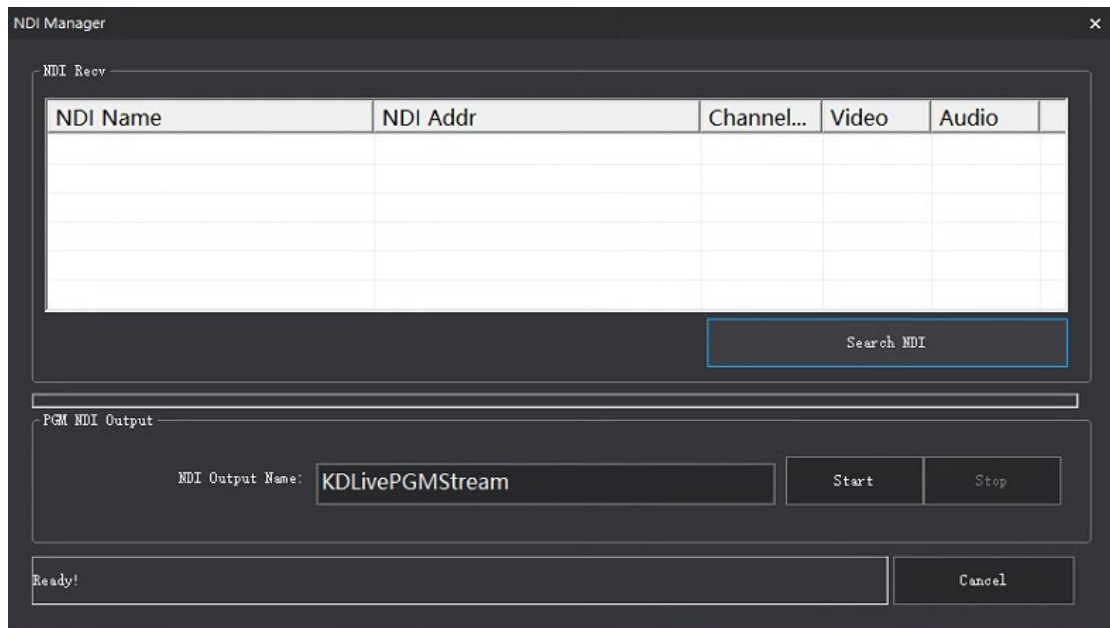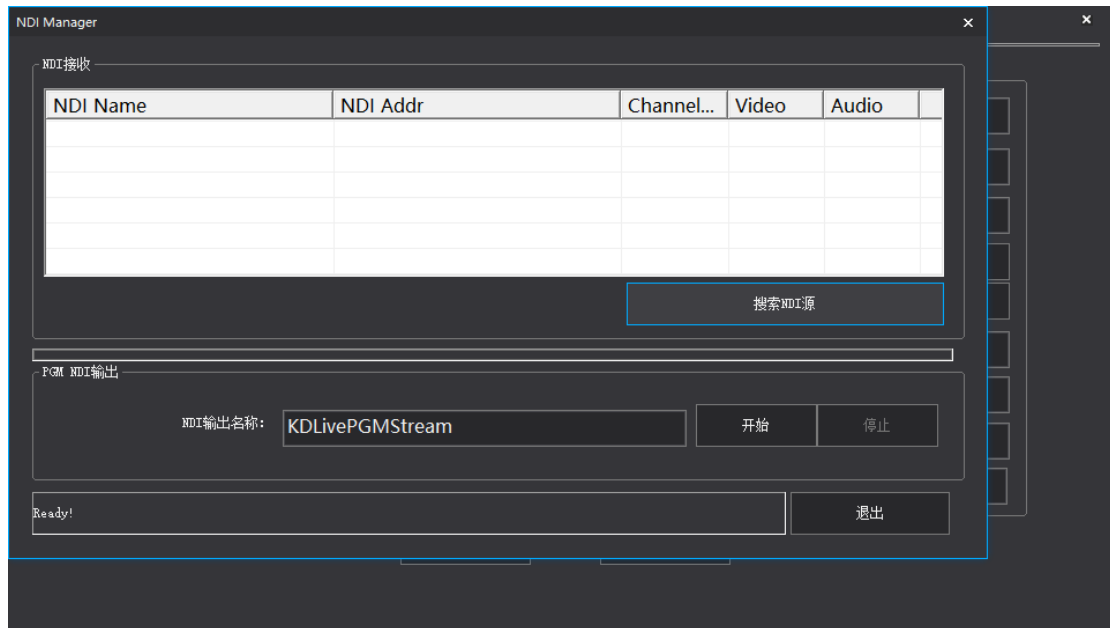
After the device is selected, the source Channel will pop up and Live Channel 1 will select the

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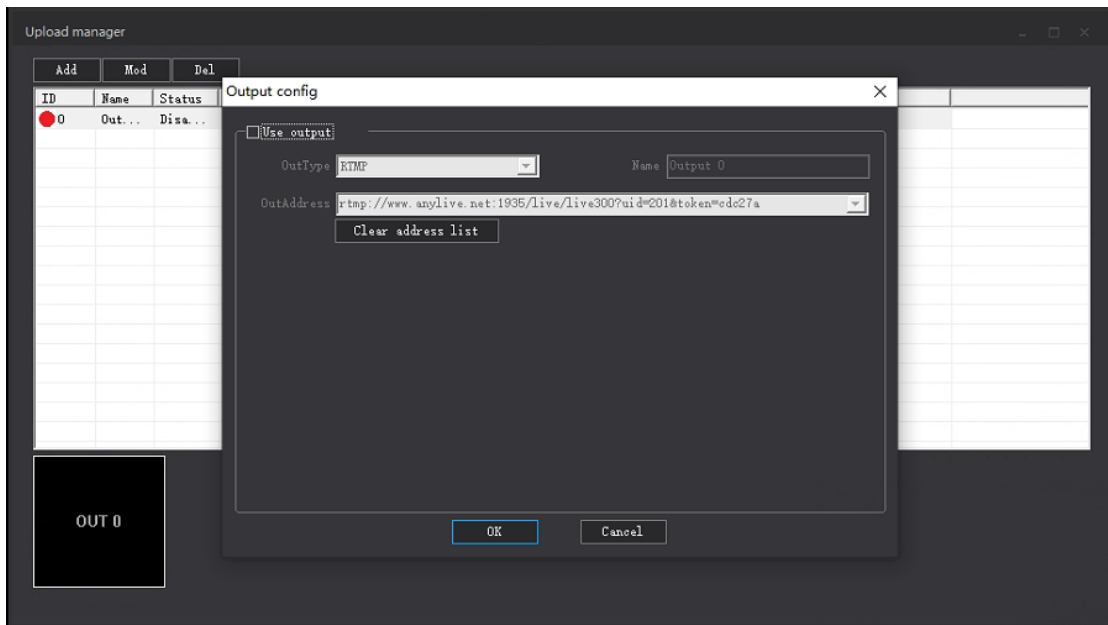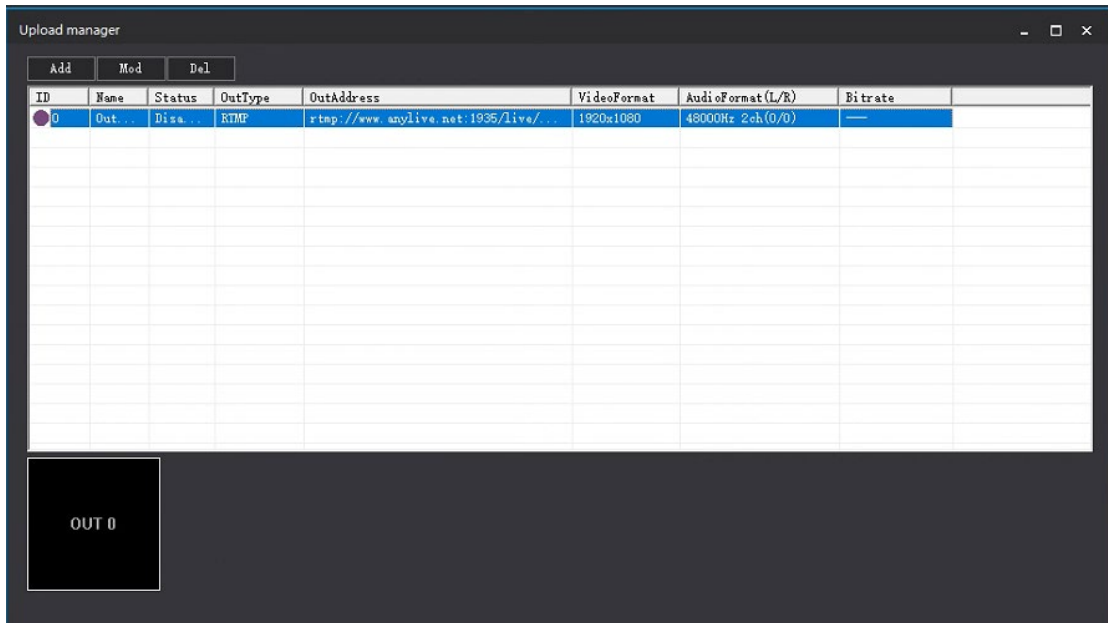
NDI Output: NDI signal transmission can be carried out through this function

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)
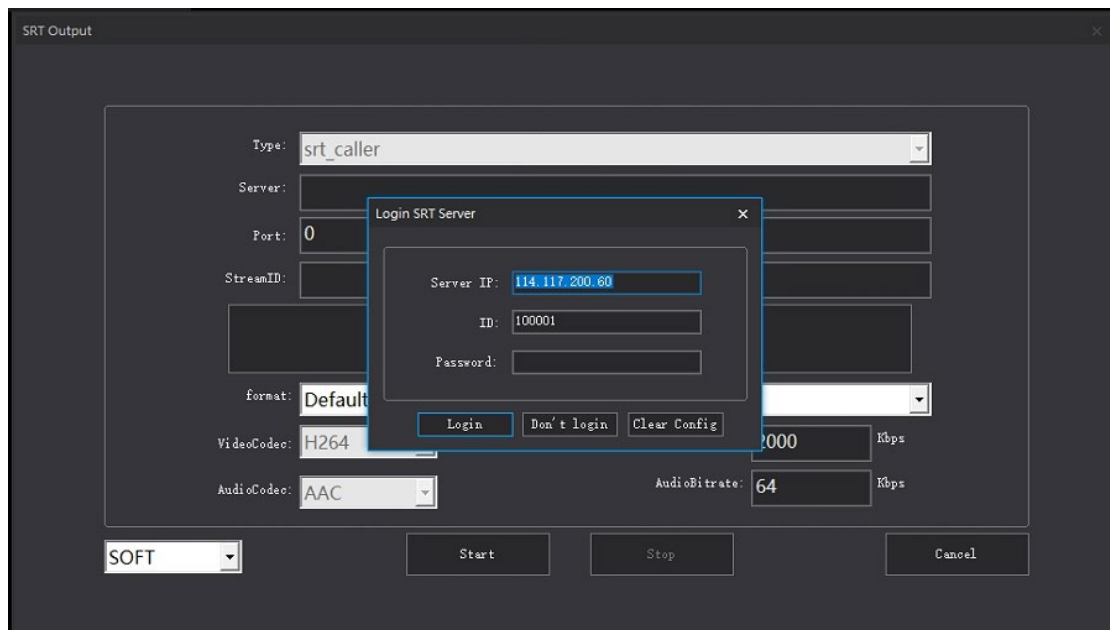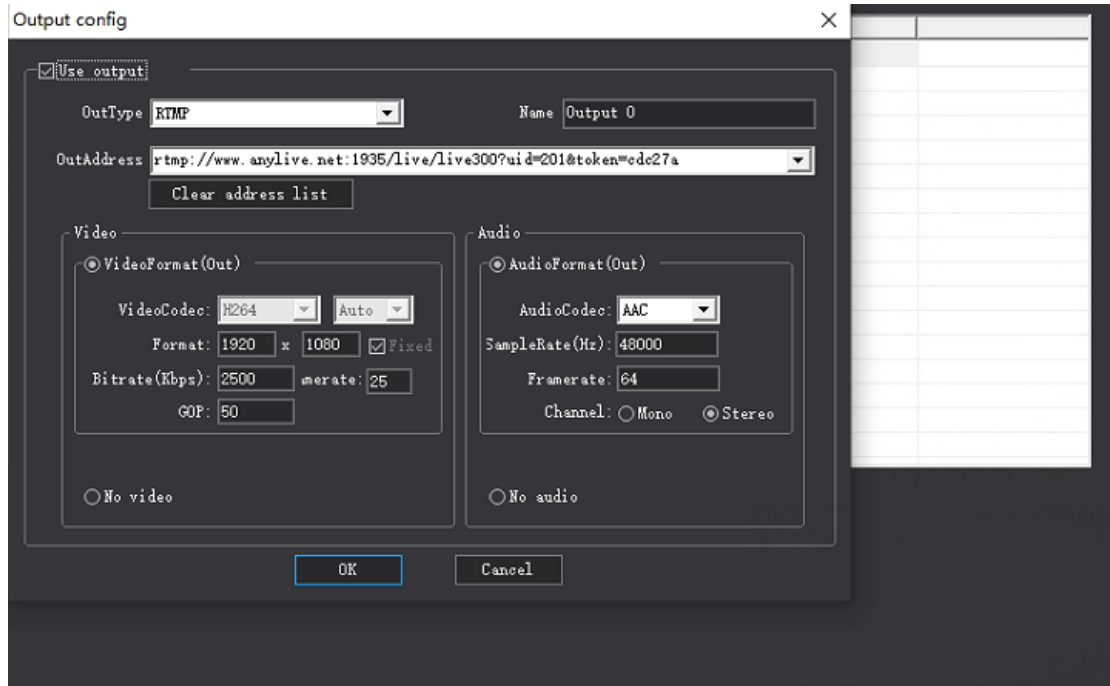

7、 Push flow management

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

②Click Add button

Output config

☑ Use output

OutType RTMP   Name Output 0

OutAddress rtmp://www.anylive.net:1935/live/live300?uid=201&token=cdc27a

Clear address list

Video

◉ VideoFormat(Out)

VideoCodec: H264   Auto

Format: 1920 x 1080 ☑ Fixed

Bitrate(Kbps): 2500 amerate: 25

GOP: 50

◯ No video

Audio

◉ AudioFormat(Out)

AudioCodec: AAC

SampleRate(Hz): 48000

Framerate: 64

Channel: ◯ Mono ◉ Stereo

◯ No audio

OK   Cancel

③Click enable output；

④Output type default Settings, add name, modify bit rate and resolution, select the correct video

and audio

⑤Enter a valid output address (do not add more symbols or Spaces, to prevent the flow failure)；

⑥Click OK to start the push stream service, as shown in the picture
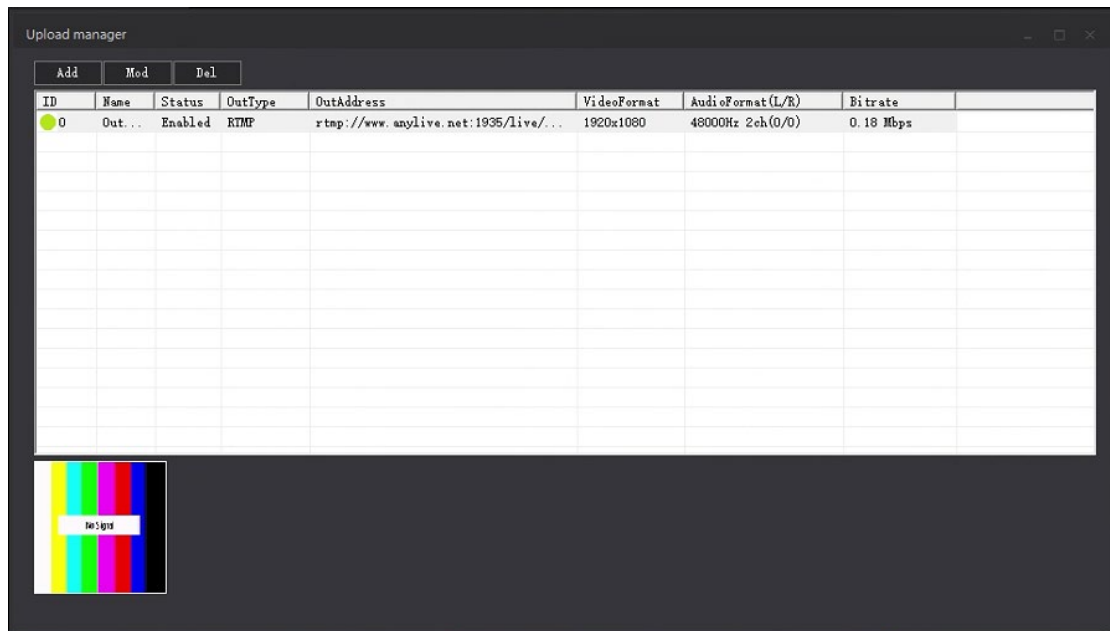
⑦Double-click the enabled stream push address again, remove the check before enabling output,

click OK, the stream push function is closed;

The push flow can push multiple platforms at once, as shown in the figure
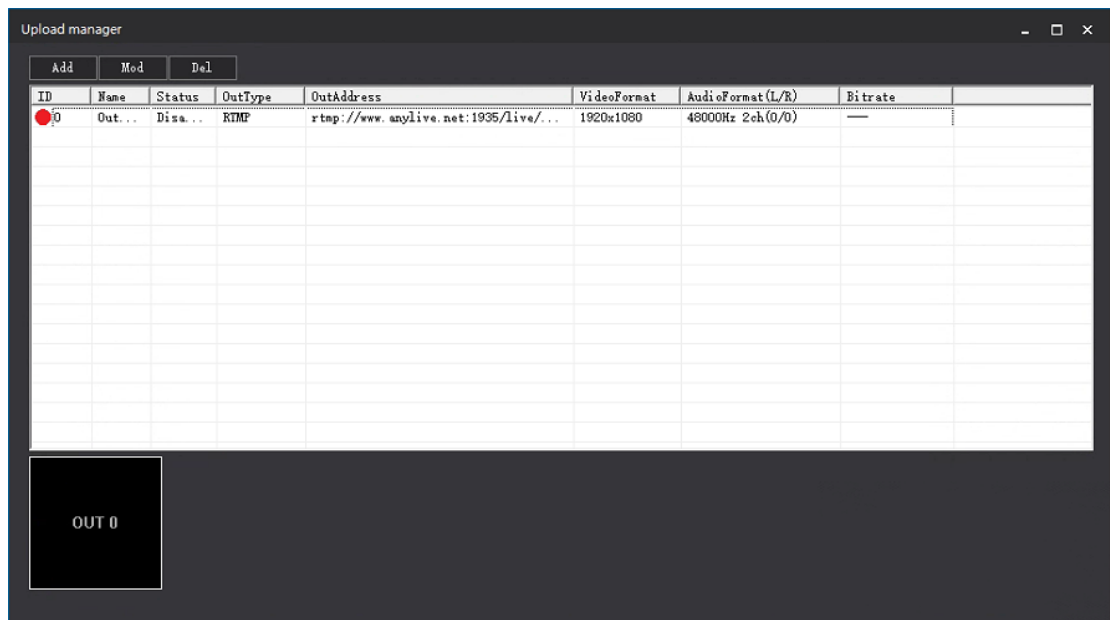
8、Live synchronization

Live broadcast synchronization: After live broadcast is enabled in the same LAN, enter

http://+IP:20000 to watch live broadcast on the LAN, as shown in the figure (synchronous live

broadcast is not enabled, live broadcast is enabled).

After the LIVE broadcast is enabled, the PGM window displays Live。
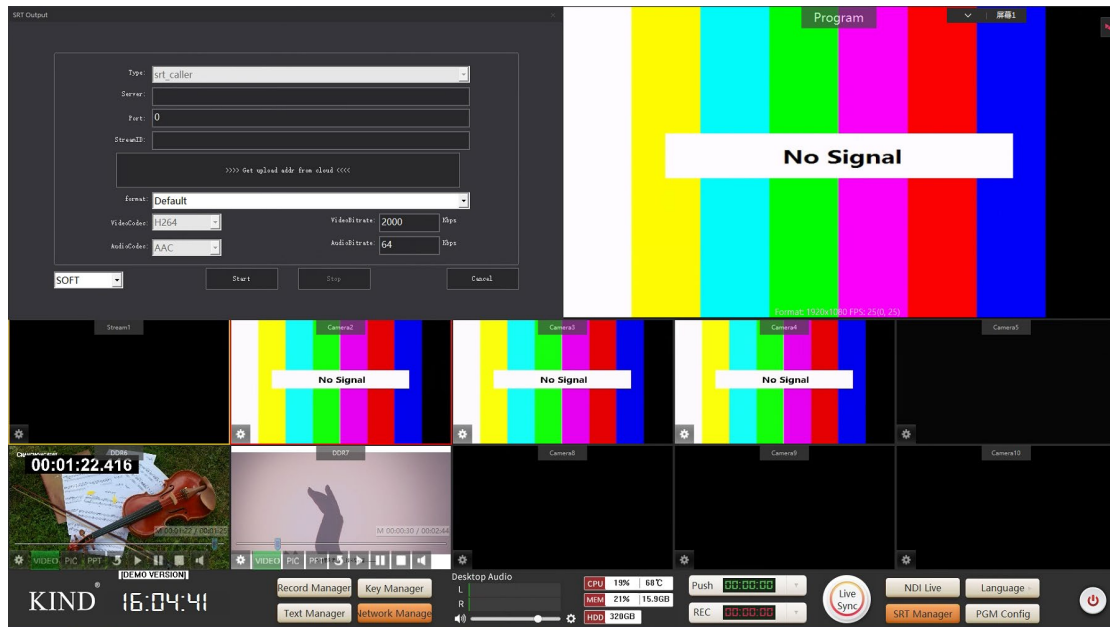
9、NDI Live
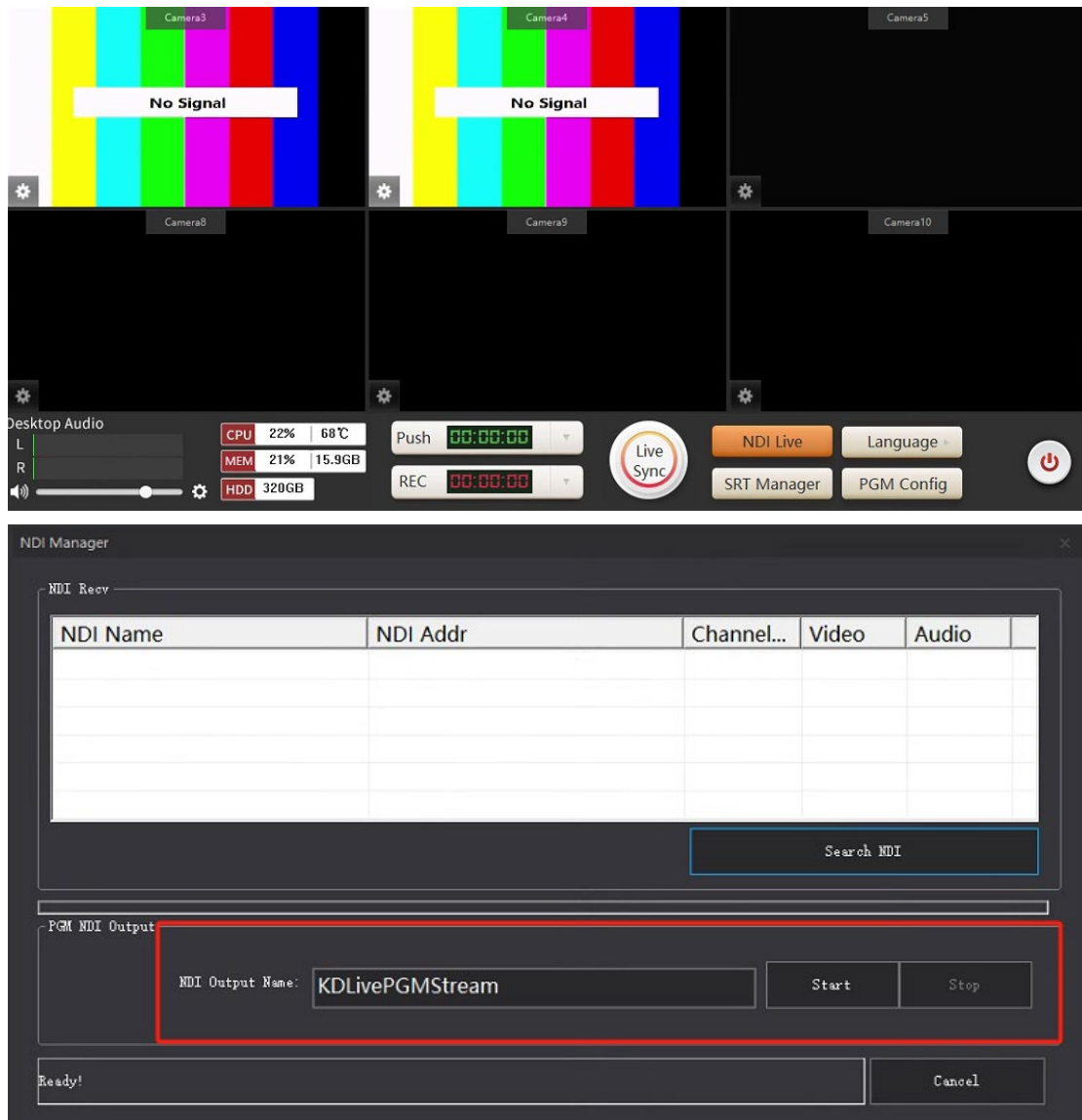
This function is a shortcut key, which is the same as the NDI output function in network Settings;

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
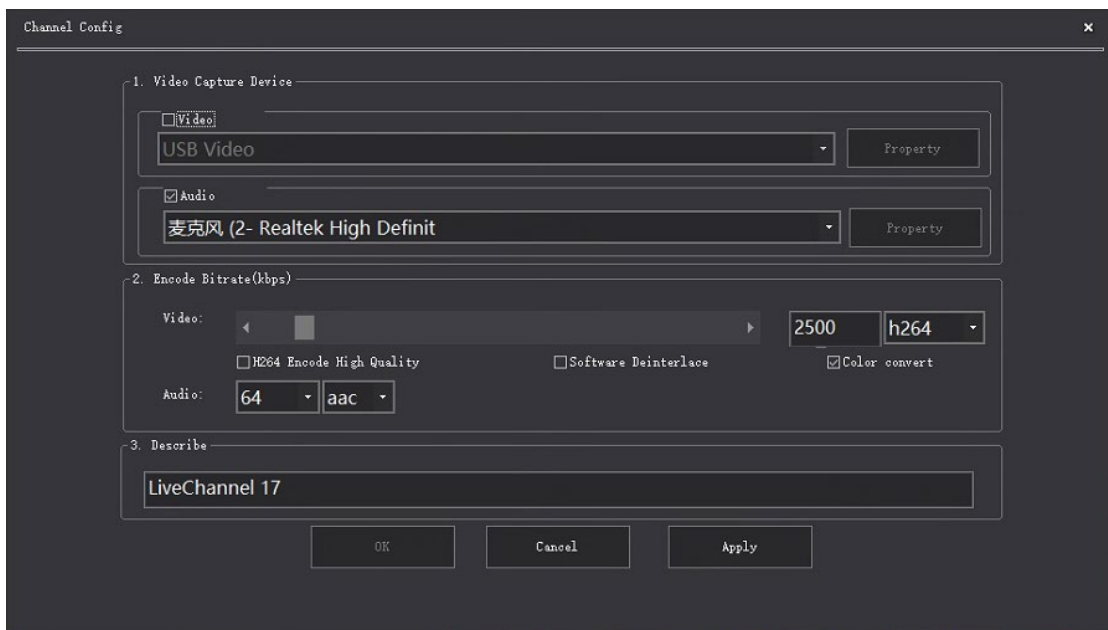
12、PGM setup

PGM is divided into 4 parts, extending the output Settings, line audio acquisition Settings, PVW and PGM Settings；
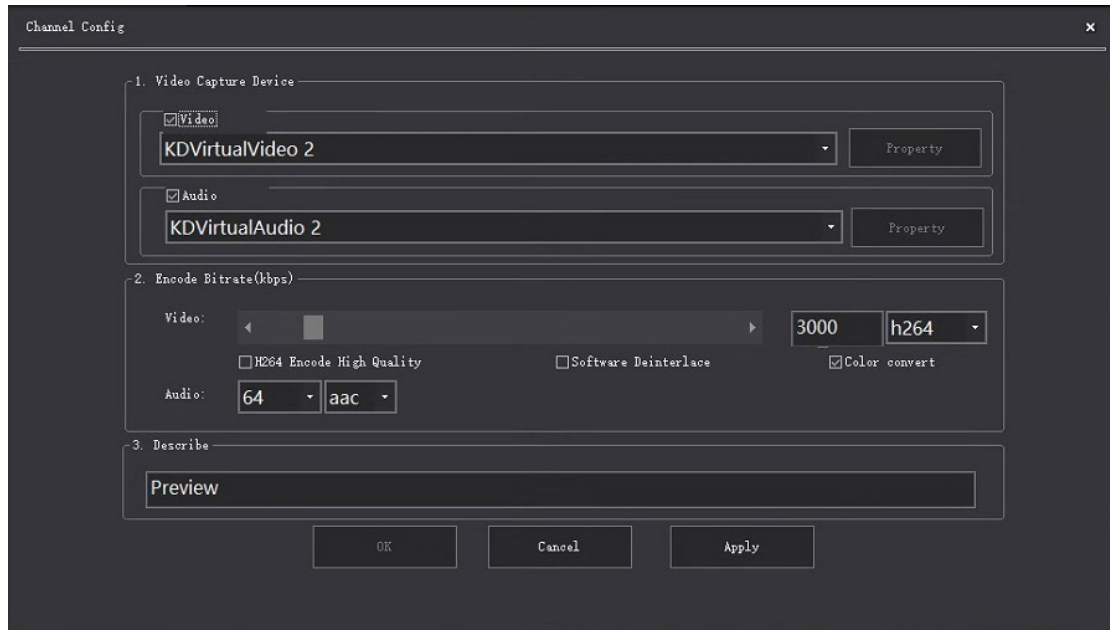
（1）Extended audio output Settings: Click the drop down menu and select Output Device (password 111111).

Preview

Ext Audio Output Config

ExtAudioOutput

OutputDevice K3A8F HDMI (3- NVIDIA High Defi

OK   Cancel
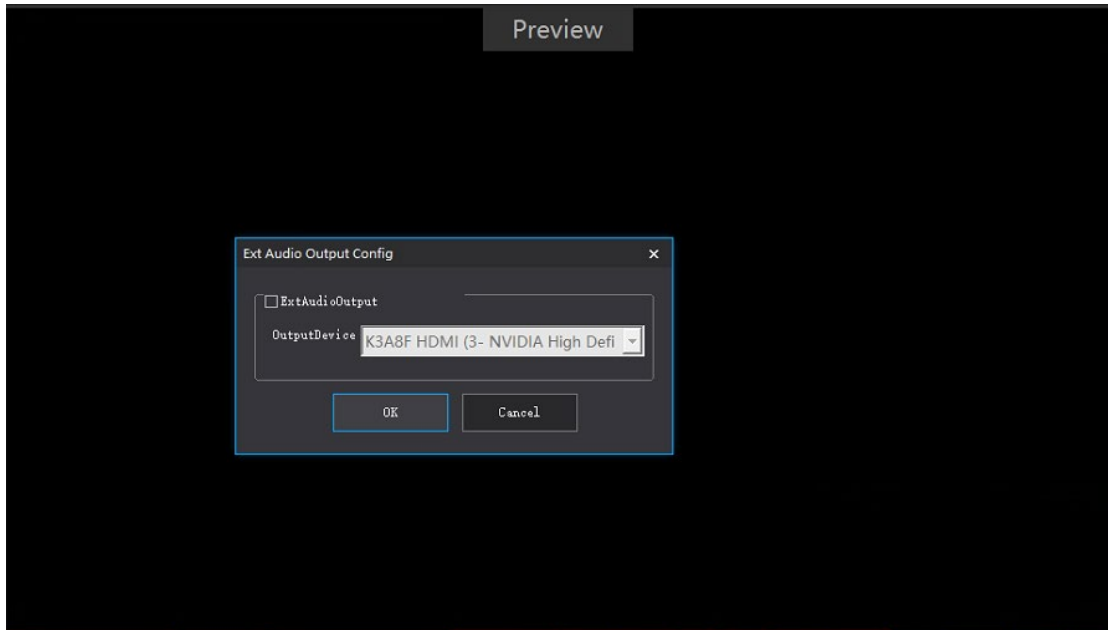
(2)Line audio capture Settings: Select a mix of microphone, hardware audio and software audio to

output to the PGM (password 111111).

Channel Config

1. Video Capture Device

Video
USB Video   Property

Audio
麦克风 (2- Realtek High Definit   Property

2. Encode Bitrate(kbps)

Video: 2500   h264

H264 Encode High Quality   Software Deinterlace   Color convert

Audio: 64   aac

3. Describe

LiveChannel 17

OK   Cancel   Apply

(3)PVW Settings: Video and audio Settings are selected as shown in the figure (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

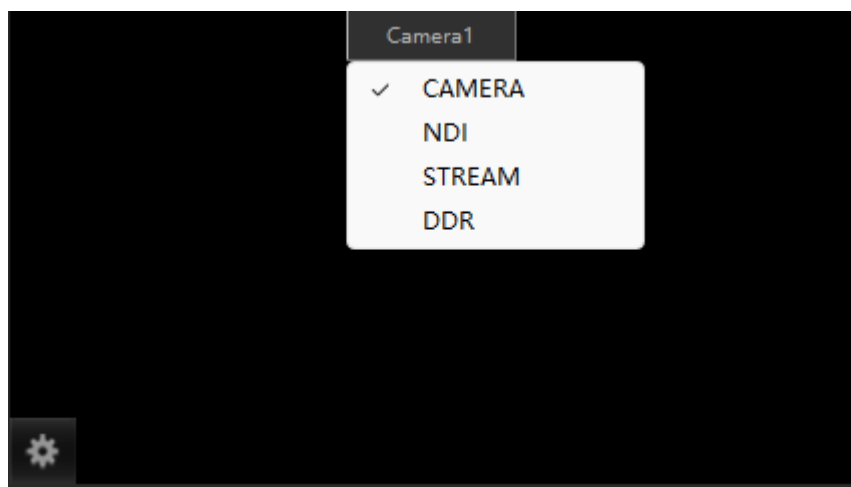rate of the video (Note: After setting the video and audio, click Apply to set the video properties).
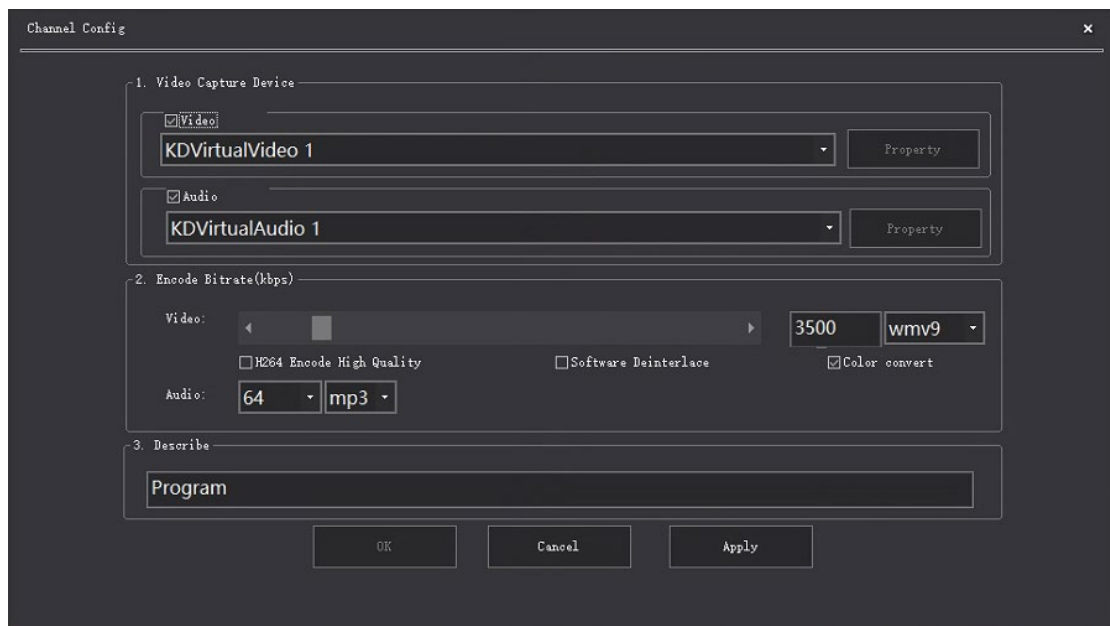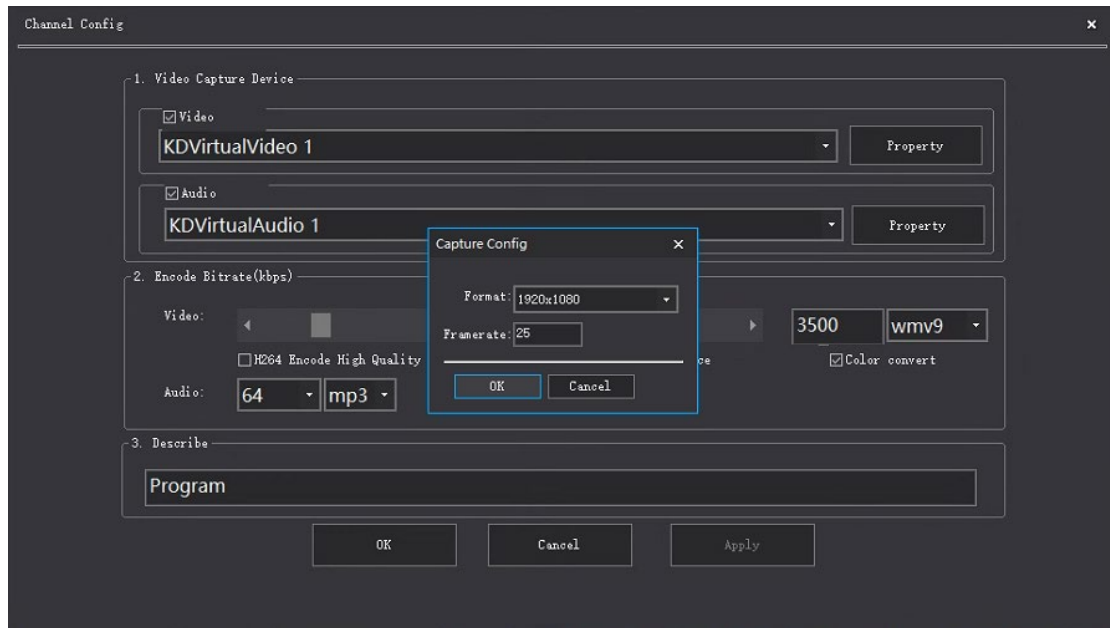
13、Monitor 1-10 window Settings

1-10 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
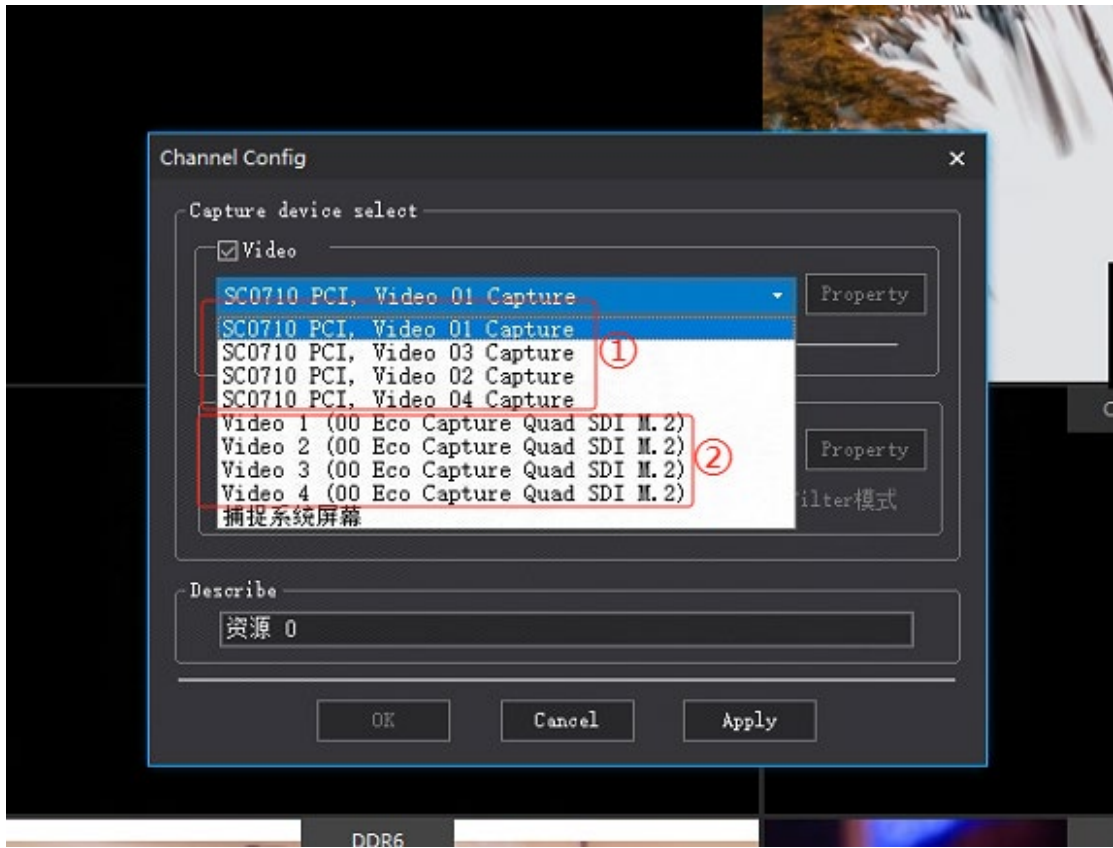
in the figure

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

Camera Setting method：

①Click the Settings button in the lower left corner of the preview window, enter the

password (111111) and click OK
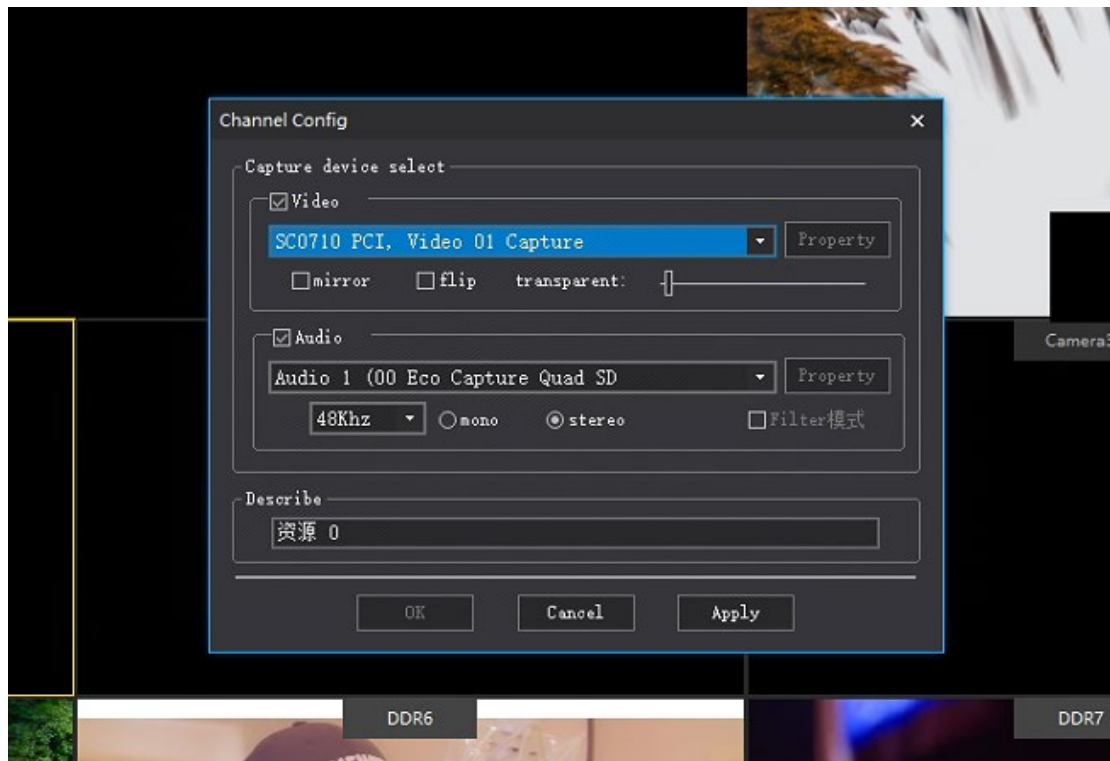
②Set the video signal as shown in the following figure: PCI1-4 option is HDMI video signal, video1-

4 is SDI video signal

③Set the audio as shown in the figure below, and need to be consistent with the video options as
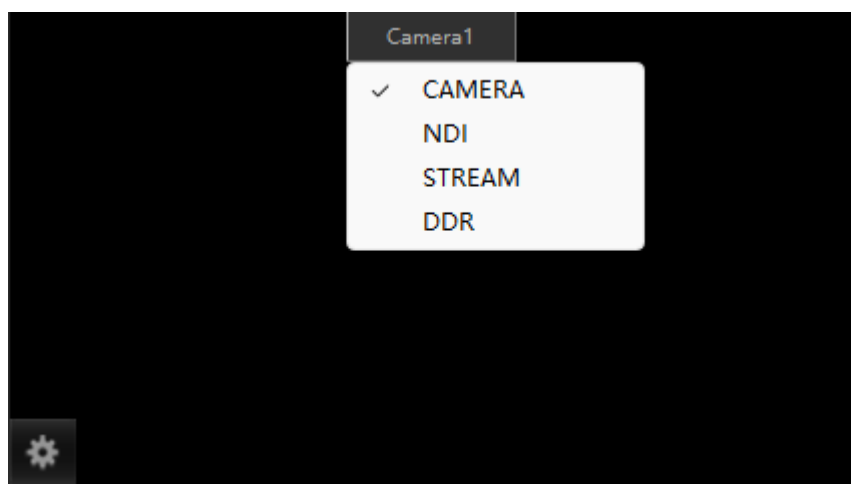
shown in the figure
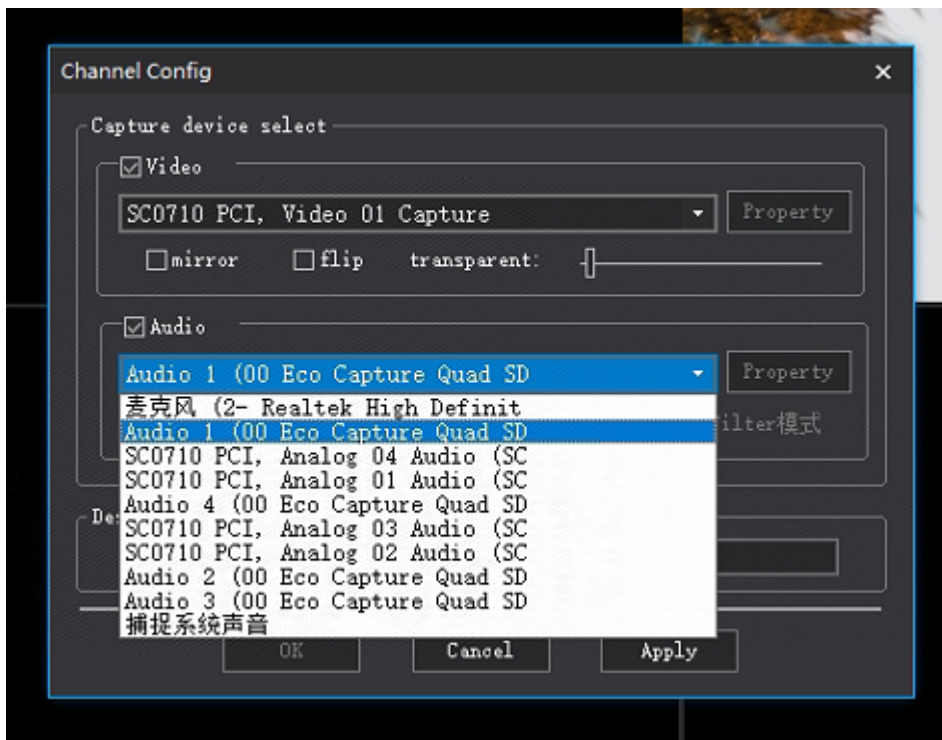
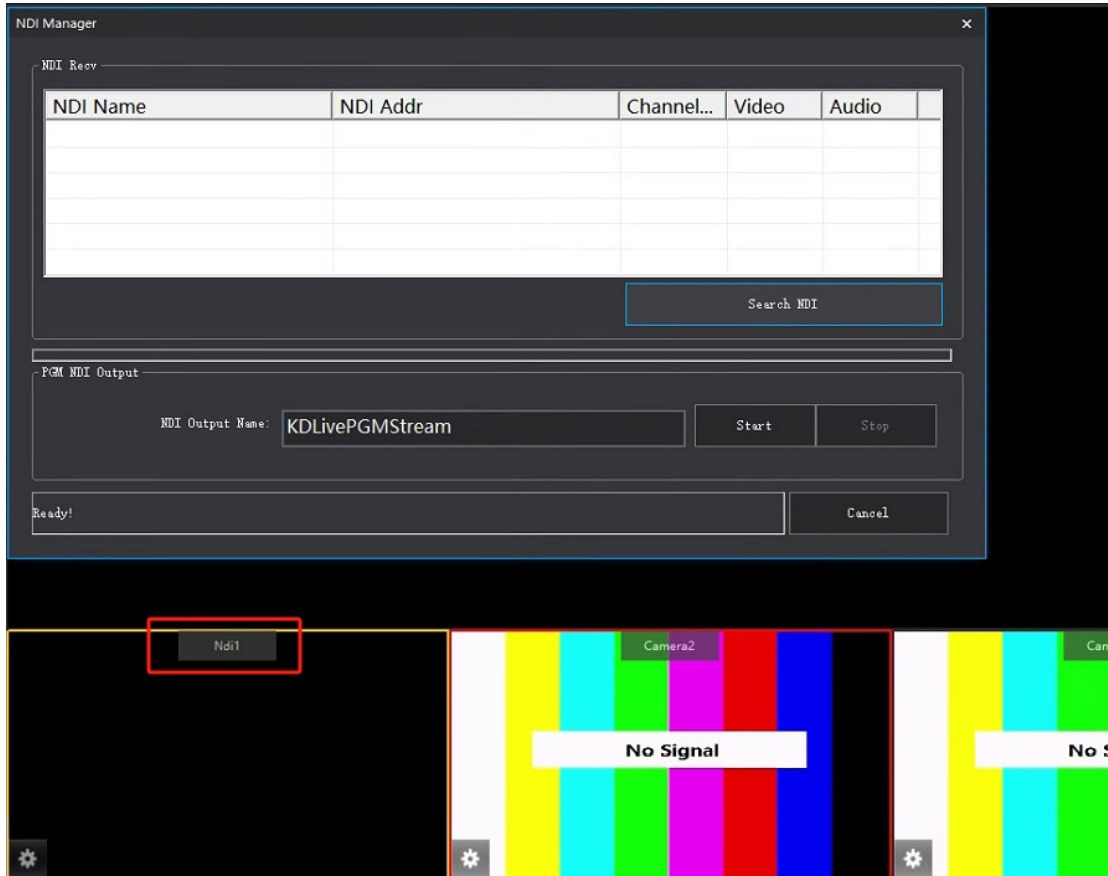④Click Apply to set the video resolution and frame rate as shown

(2)、NDI: indicates the network signal source, which transmits data over the network；
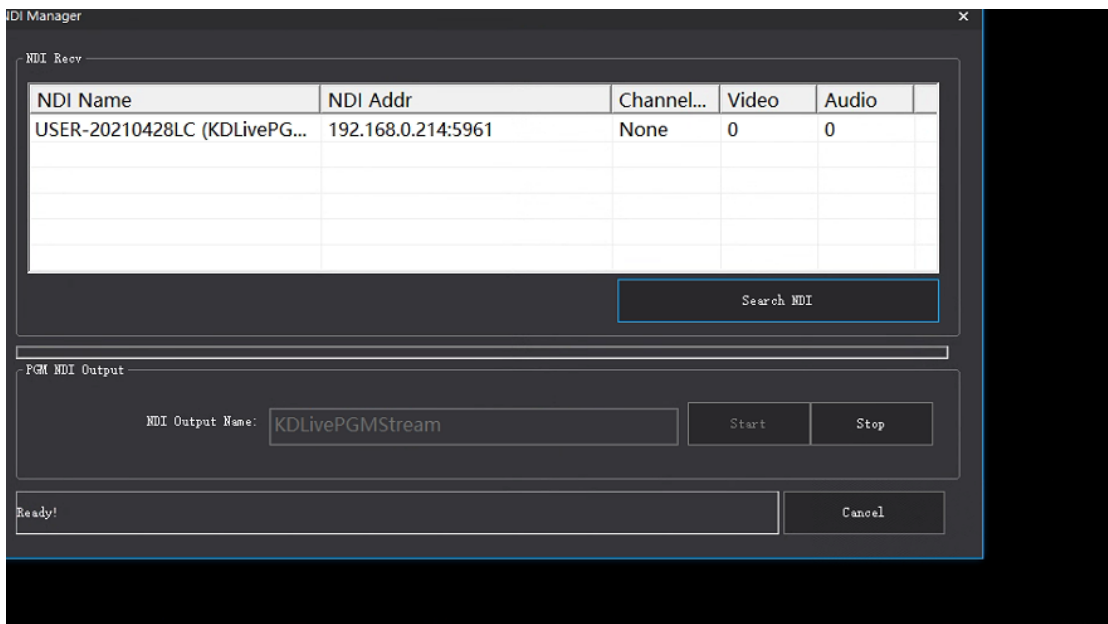
How to set NDI

①Select the NDI option

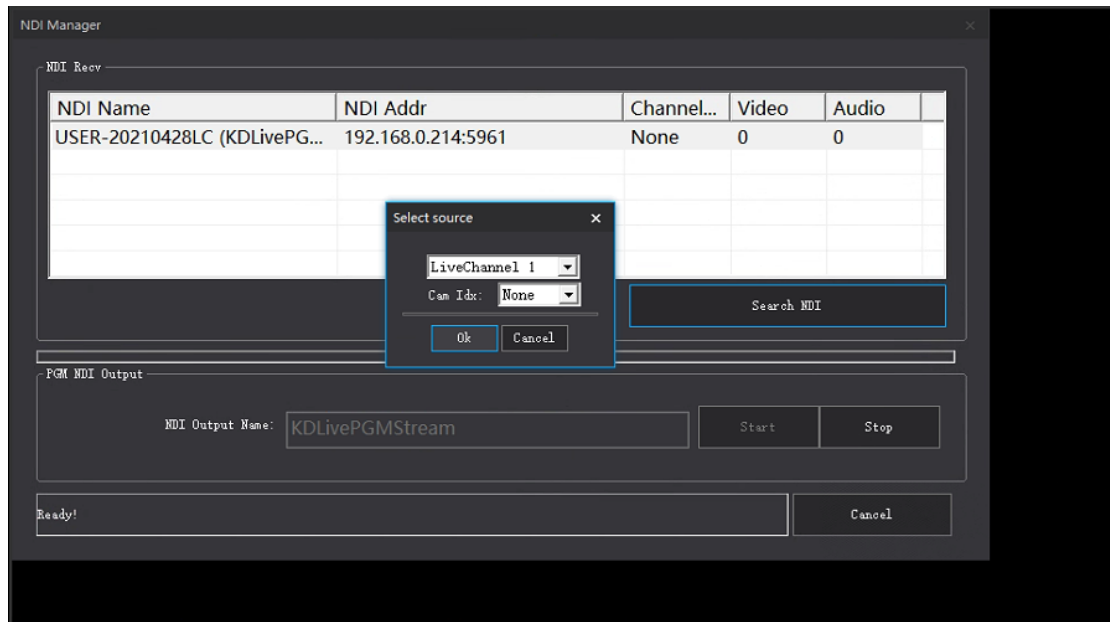②Click the Settings button in the lower left corner of the small window as shown

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.
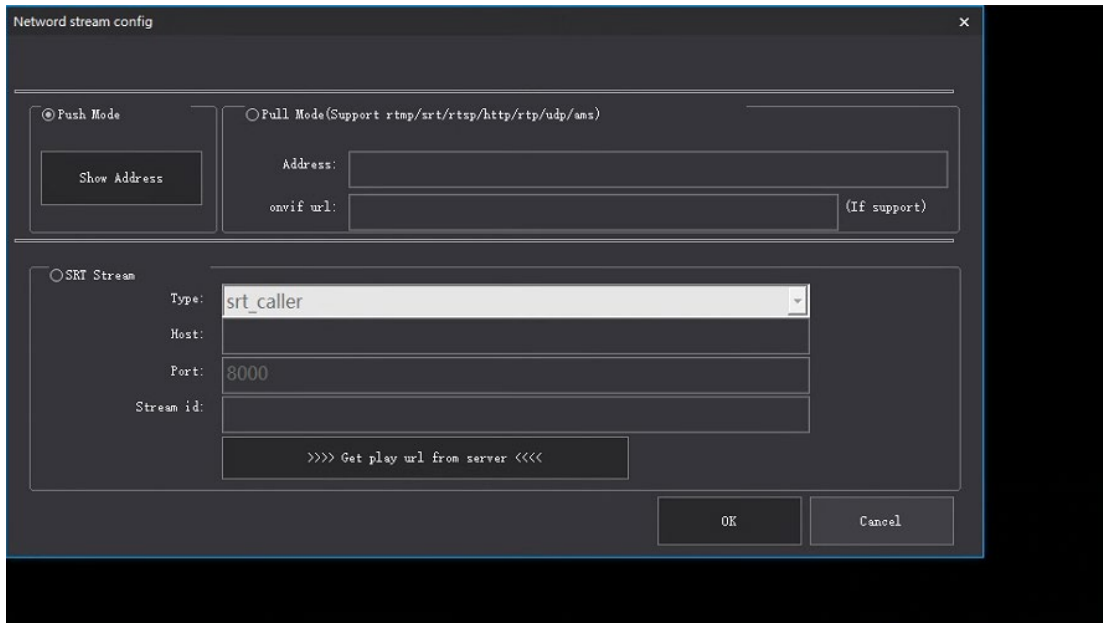
④Push mode Click to view the push stream address, enter the address into a device with the

same mode (in the same LAN), and the push stream will be displayed in the preview window。
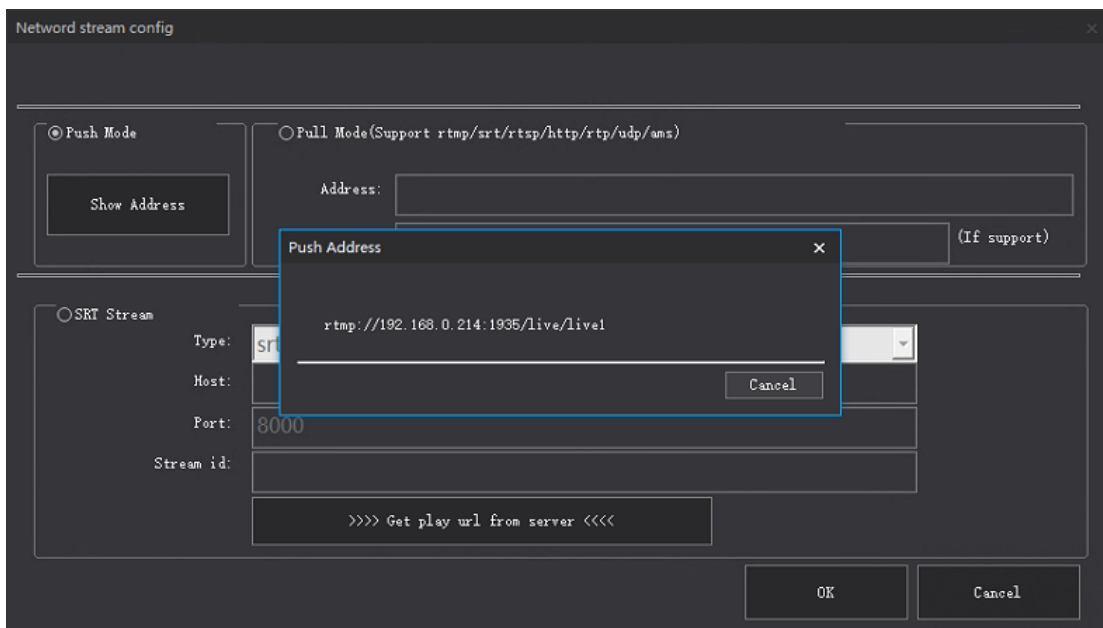
⑤Pull mode supports RTMP/SRT/RTSP/HTTP/RTP/udp/ams deal

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

window.
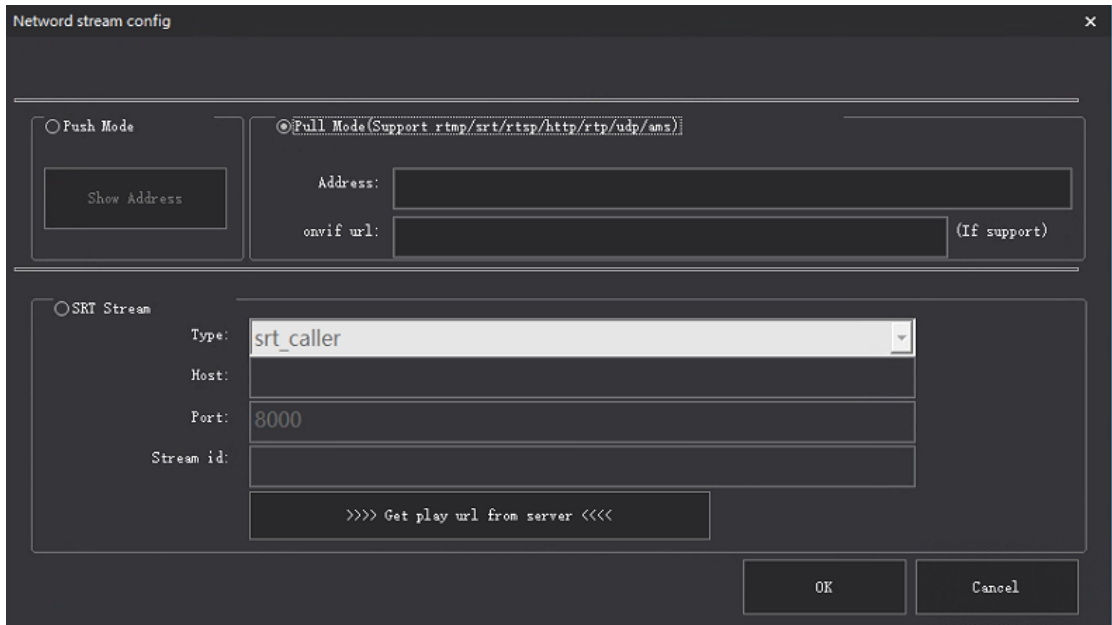
⑥SRT output: Pull the picture captured by the camera into the software through the

streaming media server for recording and broadcasting, and select the route as shown in the figure
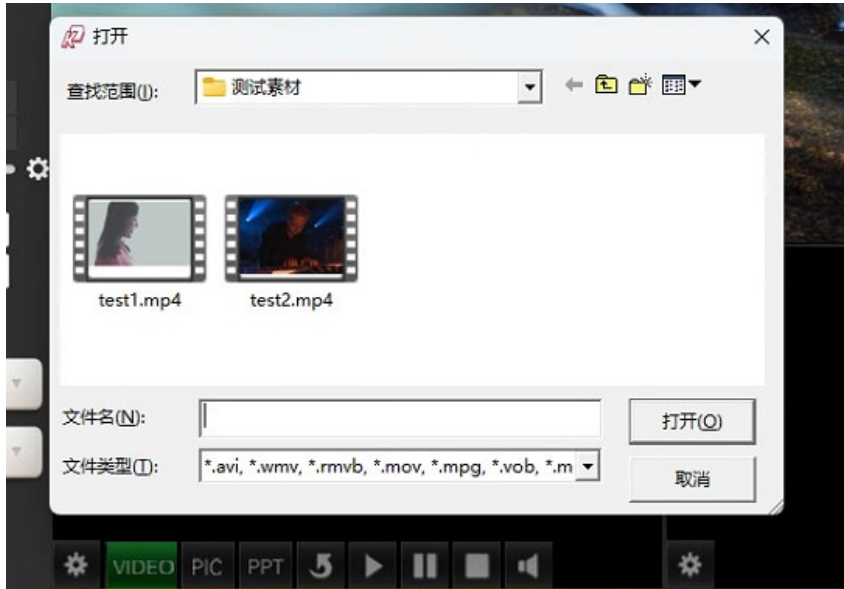
(after logging in to the server)
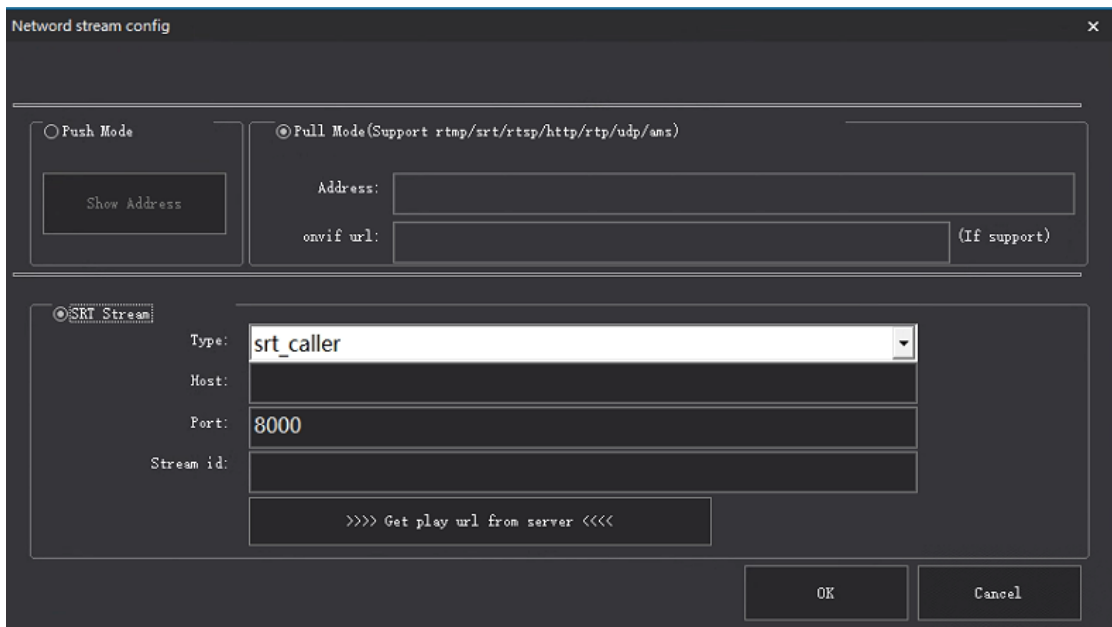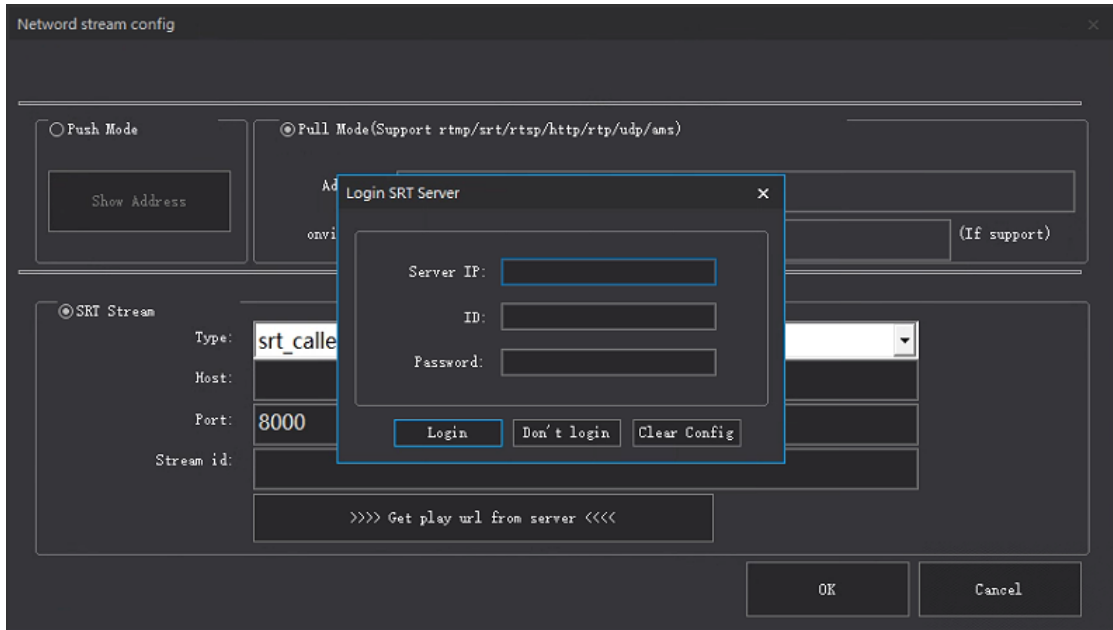
⑷、DDR: Play local videos, pictures, and PPT, as shown in the figure

①Click the VIDEO button under the preview window

②Locate the file Select the file and click the Open button；

③Preview window to play the selected file (PIC and PPT, PPT need to download the version

of office 2013 or above to use)；

五、Contact us

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