

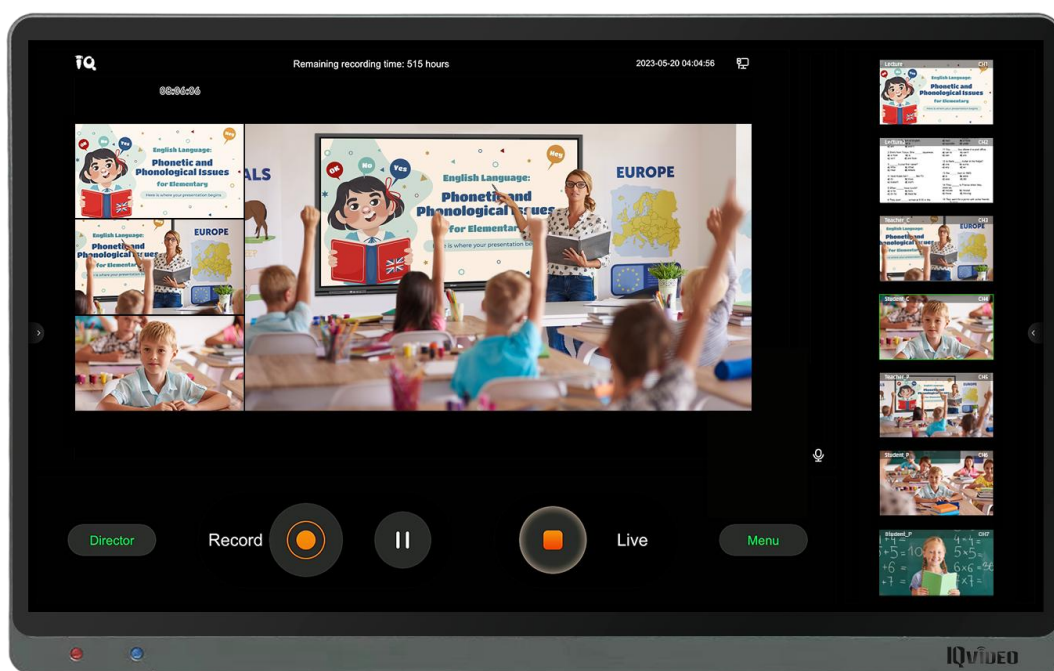


IQVideo

Lecture Capture System

LCS810

--User Manual--



 Returnstar Interactive Technology Group Co., Ltd.

Content

1. System Overview	5
1.1. System Introduction	5
1.2. Attentions	5
1.3. Interface Description	6
1.4. Connection Diagram	9
2. WEB Management Interface	10
2.1. Login Management	10
2.2. Home page	11
2.2.1. Status	11
2.2.2. Movie Screen	13
2.2.3. Standby Screens	13
2.2.4. Director Mode	14
2.2.5. PTZ function	14
2.2.6. Layout	15
2.2.7. Transitions	16
2.2.8. Video Management	16
2.3. Advanced Settings	17
2.3.1. Subtitle	17
2.3.2. Logo	18
2.3.3. Opening and Closing Titles	18

2.3.4. OSD Settings	19
2.3.5. Record Settings	20
2.3.6. Live Streaming Settings	21
2.3.7. Interaction Settings	25
2.3.8. Network Settings	27
2.3.9. System Settings	28
2.3.10. Version Information	29
2.4. Engineering Settings	30
2.4.1. Input Settings	30
2.4.2. Video Outputs	32
2.4.3. Audio Settings	32
2.4.4. PTZ Settings	34
2.4.5. Upload Settings	35
2.4.6. Storage Settings	36
2.4.7. Platform Settings	37
2.4.8. Peripheral Settings	37
2.4.9. Power Supply Settings	38
2.4.10. Factory Settings	39
2.4.11. Tracking Settings	39
2.4.12. Directing Strategy	40
3. Local Director Interface	42
3.1. Requirements	42

3.2. Interface and Function Introduction	42
3.2.1. Primary Movie Screen	43
3.2.2. Director Interface	44
3.2.3. Settings Interface	46
3.2.3.1. Device Set	46
3.2.3.2. Storage Set	47
3.2.3.3. Network Set	48
3.2.3.4. Version	48
3.2.3.5. Advance	49
3.2.3.5.1. Record	49
3.2.3.5.2. Live	50
3.2.3.5.3. Channel	51
3.2.3.5.4. Server	52
3.2.3.5.5. Interactive	53
3.2.3.5.6. SIP	54
3.2.4. Use of interactive features	55
3.2.4.1. Start interactive classroom	56
3.2.4.2. Join the interactive class	58
3.2.4.3. Specific examples of multi-party interaction	59
3.2.5. File Management	62
3.2.6. PTZ Camera Control Interface	63
3.2.7. Power Control Interface	64

1. System Overview

1.1. System Introduction

The IQVideo LCS810 operates on the Linux operating system. The main unit can integrate multiple functionalities such as echo cancellation and remote interaction based on actual needs.

Usage Environment:

Option 1: Direct touch screen operation;

Option 2: Use a computer for remote director operation and management.

1.2. Attentions

IQVideo LCS810 is a sophisticated system device. To avoid failures or damage caused by installation, debugging, usage, or other human factors, we provide the following important guidelines. Please ensure that personnel involved in installing and using this product read carefully:

- Before installation and use, carefully read the product user manual.
- The input power for this product or its accompanying power adapter is 12V. Before connecting the power, ensure that the local power supply matches this specification.
- Do not disassemble this product without authorization. Damages caused by user disassembly are not covered under the warranty.
- If liquids spill on the device, immediately turn off the power and stop using it. Resume use only after it has dried or been wiped clean.
- Do not use the product under conditions exceeding the specified temperature and power limits.

1.3. Interface Description

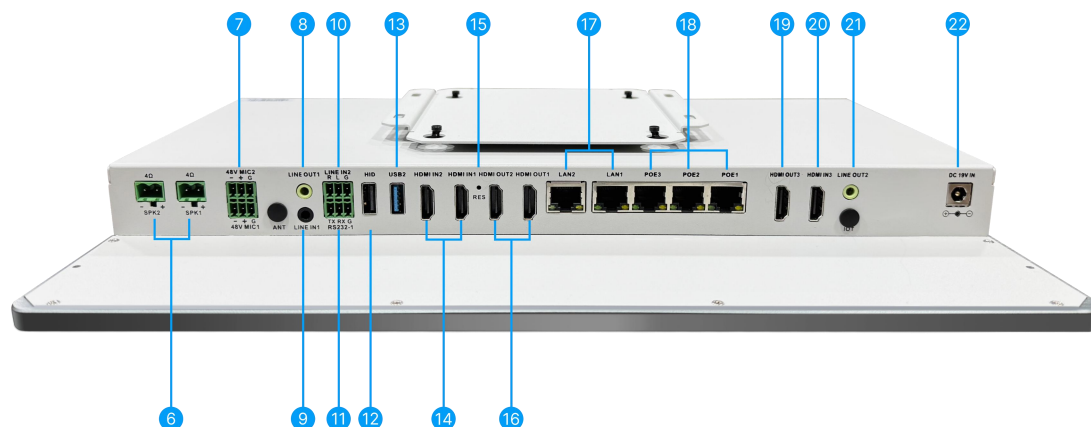
Front



Lower Interface



Upper Interface



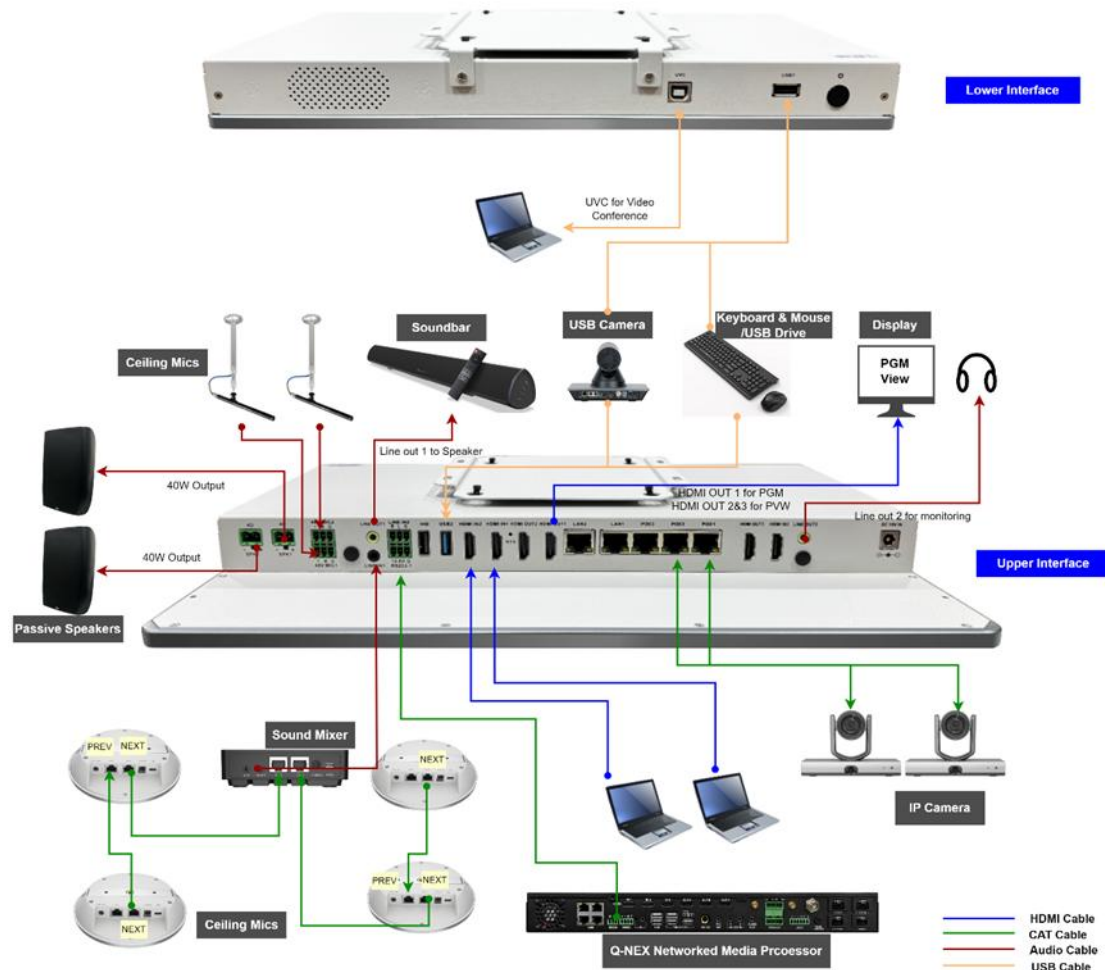
Hardware interface description:

1. Power indicator light	After power on, the power indicator light is red.
2. Working status indicator light	After power on, the working status indicator light is blue.
3. UVC	UVC interface can output audio and video of USB signal.
4. USB1	USB interface, can be connected to USB mouse, keyboard, U disk, USB camera and other devices.
5. Power button	Device power switch button (press and hold for 3 seconds to turn on).
6. SPK*2	2-channel SPK audio amplifier output interface, output power 40W*2.
7. 48V_Mic *2	2-way 48V phantom power MIC audio input.
8. LINE-OUT1	3.5mm left and right channel audio output interface (connect to active speakers).
9. LINE-IN1	3.5mm left and right channel audio input interface (when connecting a microphone, you need to disable "sound amplification" and "built-in speaker mute", which can be set on the web).



10. LINE IN2	1 channel unbalanced audio input with euroblock interface.
11. RS232-1	RS232 control interface, used to connect external tracking equipment, PTZ camera, director keyboard, control panel, central control, etc.
12. HID	HID interface, can be connected to the computer USB port using Type-C data cable, the recorder can reverse control the computer.
13. USB2	USB interface, can be connected to USB mouse, keyboard, U disk, USB camera and other devices.
14. HDMI_IN1/2	2-way HDMI signal input interface.
15. RES	System reset button.
16. HDMI OUT1/2	HDMI OUT signal output interface HDMI OUT1 signal output interface (movie screen), HDMI OUT2 signal output interface (local director interface).
17. WANx2	2-way Gigabit RJ45 network interface.
18. POE*3	POE network port (for external POE camera).
19. HDMI_OUT3	HDMI OUT signal output interface (local director interface).
20. HDMI_IN3	HDMI IN signal input interface (spare interface, available after Web background setting).
21. LINE-OUT2	3.5mm left and right channel audio output interface (for monitoring).
22. DC 19V IN	DC19V power input interface.

1.4. Connection Diagram

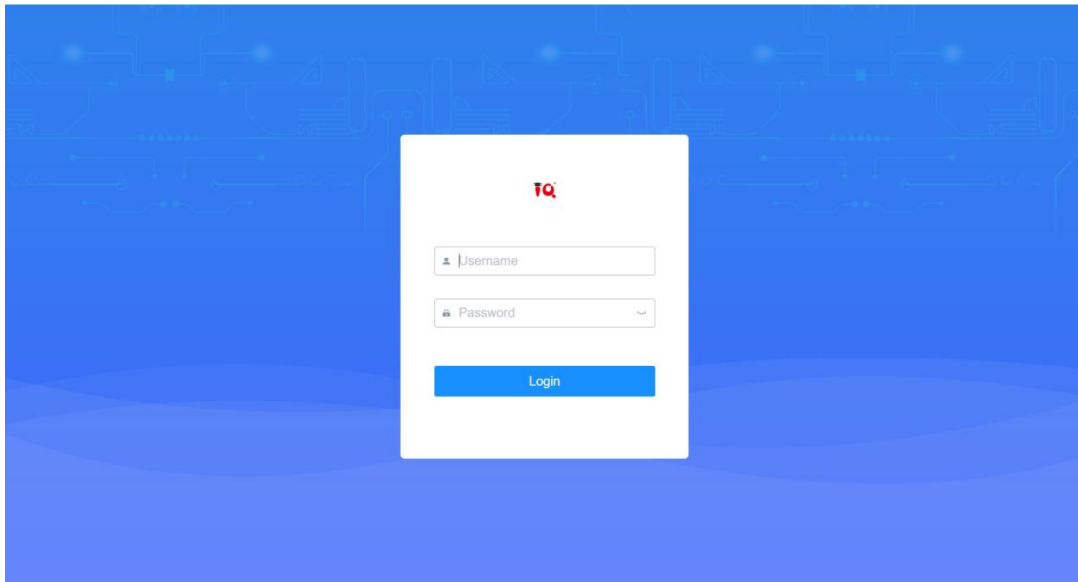


The above are the devices recommended for each interface of the LCS810 video station. According to different application scenarios and requirements, we recommend different products. For specific product matching solutions, please contact our sales staff for recommendations.

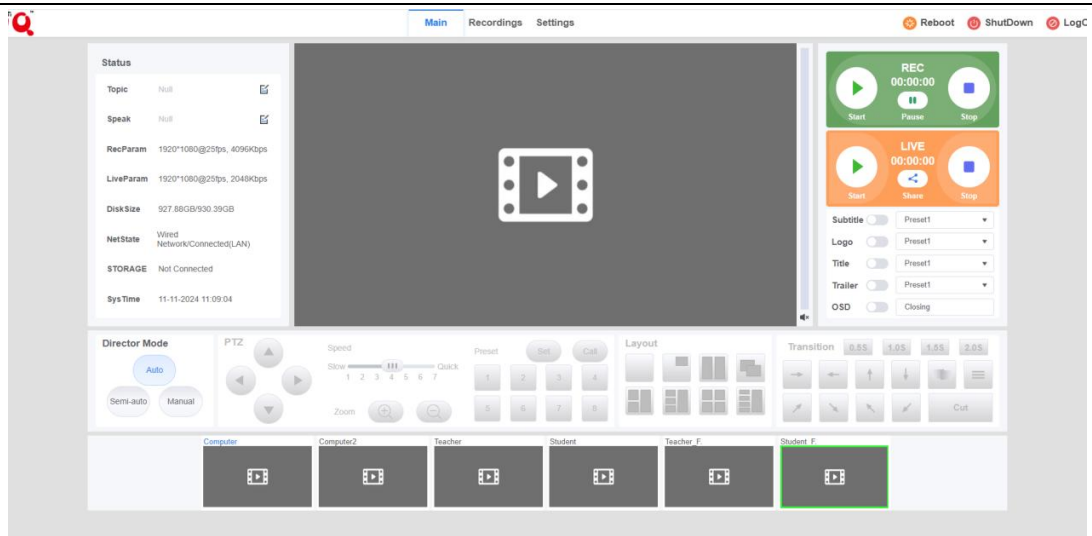
2.WEB Management Interface

2.1. Login Management

The system is compatible with browsers such as Microsoft Edge, Google Chrome, and 360 Browser for accessing the director management interface. To access, enter the IP address of LCS810(default is 192.168.1.55) into the browser's address bar, which will bring up the following page (both the username and password are "admin").

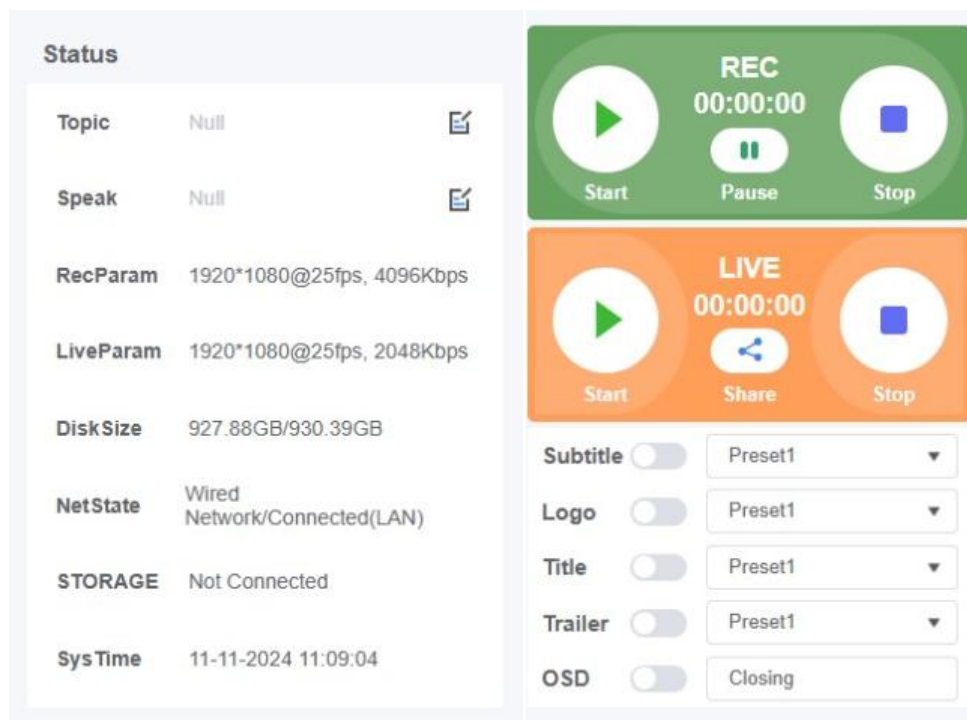


After entering the username and password, click "Login" to enter the WEB management interface, as shown in the following image.



2.2. Home page

2.2.1. Status





Topic	Set the topic information of the current recording video (click to edit and customize, click outside the area to save the edits).
Speak	Set the lecturer of the current recording video (click to edit and customize, click outside the area to save the edits).
Rec Param	Display the setting parameters for the current movie channel recording.
Live Param	Display the setting parameters for the current movie channel live streaming function.
Disk Size	Display the available and total capacity of the current hard drive.
Net State	Display the network settings and connection status of the current host.
Removable Storage	Display whether LCS810 has connected to a removable hard drive.
Sys Time	Display the system time of the current host.
Restart	Restart LCS810 (it will restart after confirmation).
Shutdown	Shut down LCS810 (it will shut down after confirmation).
Logout	Log out of the system (LCS810 will return to the login interface after confirmation).
Recording Control	Start, pause, or stop recording.
Live Streaming Control	Start, share, or end live streaming.
Subtitles	Enable or disable subtitles, supporting up to five preset subtitles.
Logo	Enable or disable the channel logo, supporting up to five preset logos.
Title	Enable or disable the opening title, supporting up to five preset opening titles.
Trailer	Enable or disable the closing title, supporting up to five preset



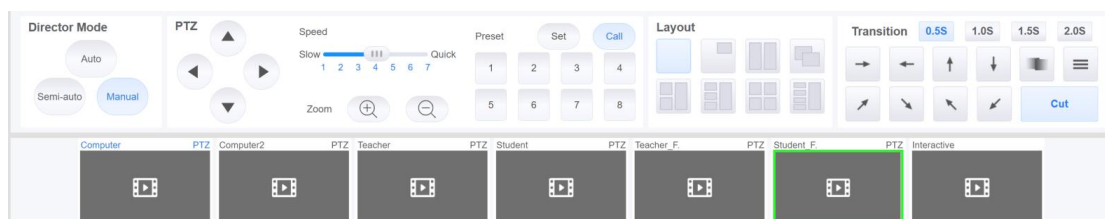
	closing titles.
OSD (On-Screen Display)	Enable or disable date and time watermark information, supporting three formats: date + time, date only, and time only.

2.2.2. Movie Screen



The largest screen on the home page is the movie screen, which is the composite screen for recording/live streaming. In manual mode, you can switch the movie screen by double-clicking or dragging the standby screens (video preview small windows) below.

2.2.3. Standby Screens



The seven video preview windows below the movie screen are the standby screens. The channel with a green frame indicates that this channel is currently displayed in the movie channel.

There are 7 primary backup video screens: Computer, Computer 2, Teacher Close-up, Student Close-up, Teacher Panorama, Student Panorama, Interaction. In manual mode, these 7 video feeds can be switched to the movie channel by double-clicking or dragging, serving as the director's screen for recording and live streaming.

NOTE

The number of standby screens may vary depending on the actual software type of the LCS810.

2.2.4. Director Mode



- **Automatic:** The screen automatically tracks and switches to the movie channel.
- **Semi-Automatic:** The screen automatically tracks but does not switch to the movie channel.
- **Manual:** The screen does not automatically track nor switch to the movie channel.

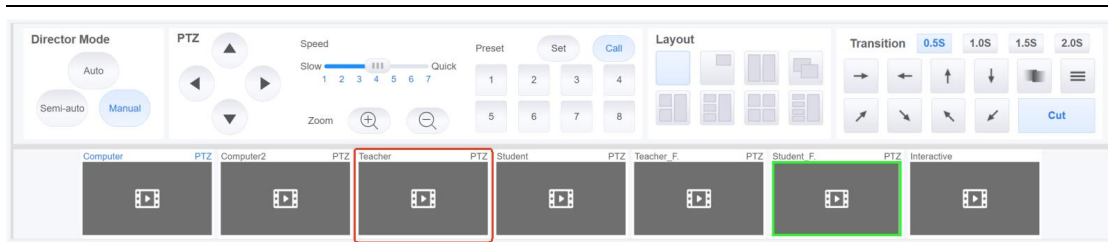
2.2.5. PTZ function



This function is only available in manual mode and is used to control the PTZ camera, invalid in automatic mode, the specific operations are as follows:

Method 1,

By double-clicking or dragging, switch the standby screen to the movie channel. PTZ also controls this channel; as shown below

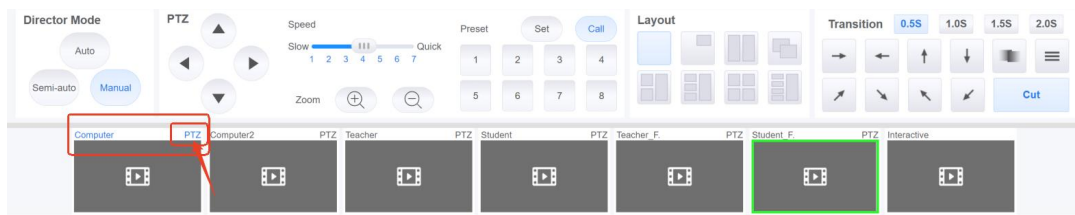


Method 2,

Click on the upper right corner of the standby screen PTZ, so that it is highlighted in blue (see the figure below)), at this time PTZ Control this channel;

NOTE

If you need to set the PTZ first and then switch to the movie channel, this is the method to use;



2.2.6. Layout



This function is used to set the layout of the movie channel screen, supporting eight layout modes such as single screen, picture-in-picture, and dual split-screen. The layout can be quickly set by dragging the screen with the mouse.

NOTE

This function is only available in manual mode and is ineffective in automatic mode.

2.2.7. Transitions

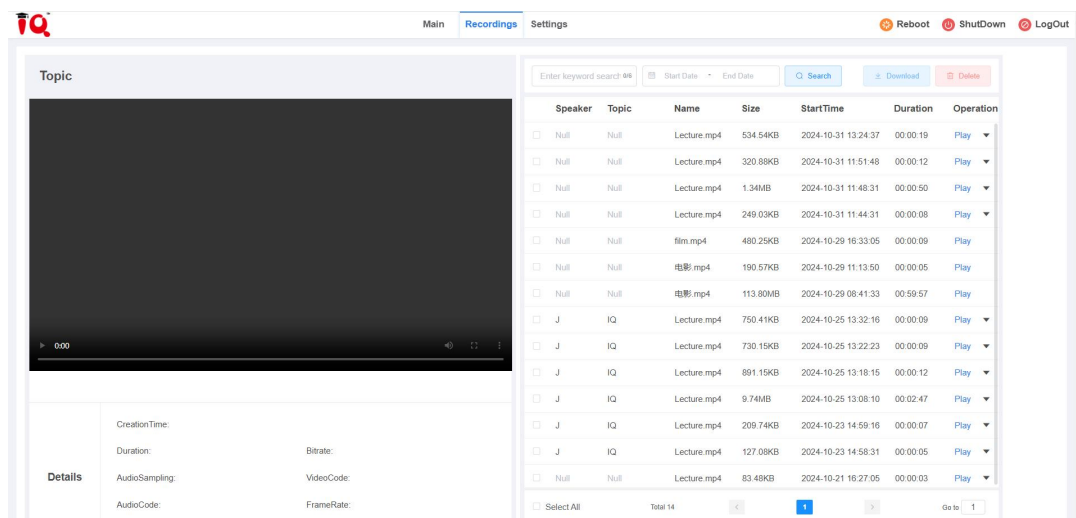


This function is used to set the transition effects for the movie channel screen, supporting 11 transition effects such as blinds and fade.

NOTE

This function is only available in manual mode and is ineffective in automatic mode.

2.2.8. Video Management



- **Video Window:** Supports online preview playback, full-screen playback, and fast forward/rewind through the progress bar.
- **File Details:** Displays basic information about the current video file.
- **Search Window:** Quickly search for recorded files by lecturer, topic name, or recording time.
- **Download :** Select files first, then download the selected files from the list to the local computer.
- **Delete :** Select files first, then delete the selected files from the list.
- **Select All :** Select all files on the current page.
- **Go to:** For multiple pages of files, enter the page number to quickly jump to the page.

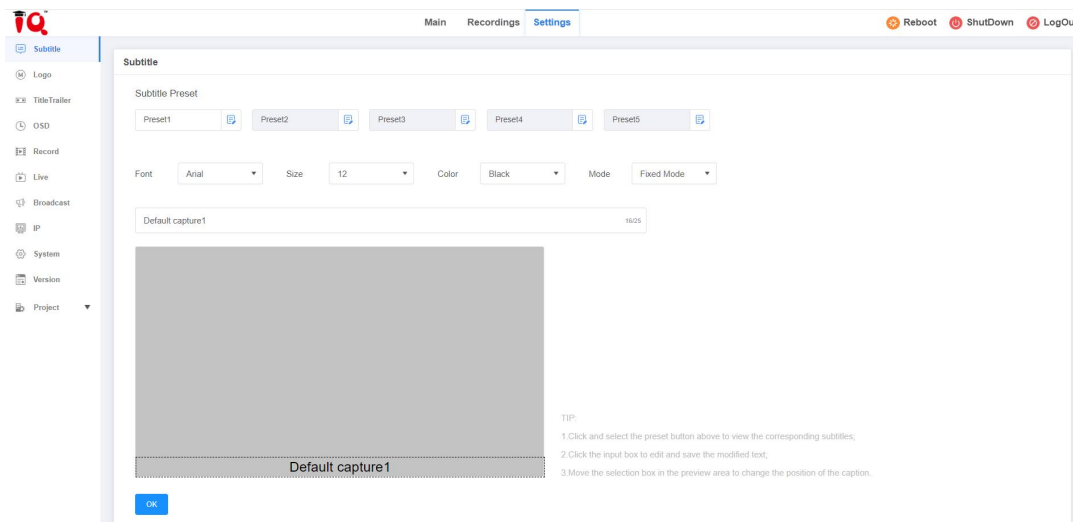
2.3. Advanced Settings

2.3.1. Subtitle



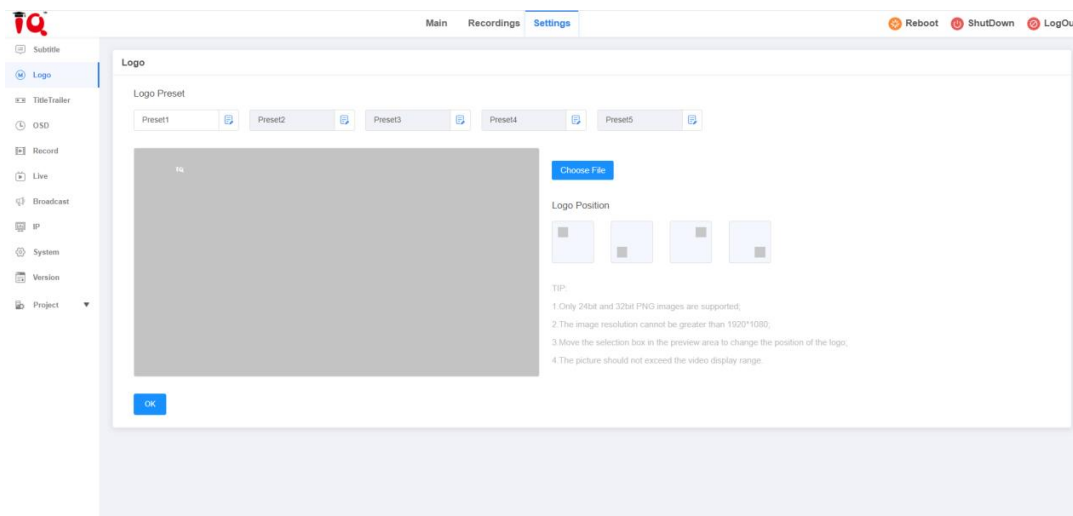
NOTE

All settings below take effect only after clicking "OK" on the page.



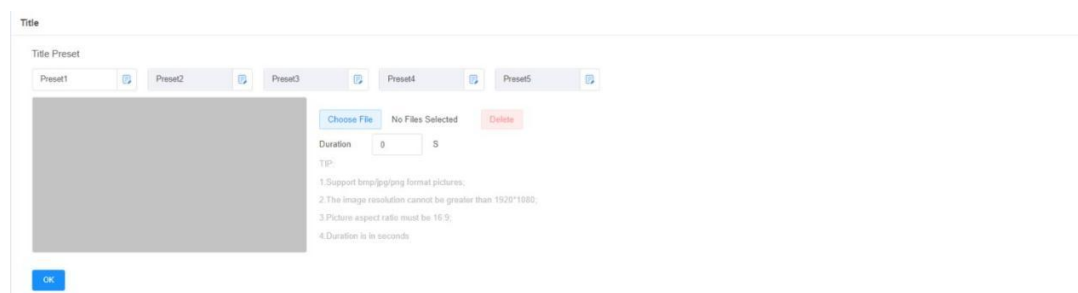
- **Subtitle Presets:** Supports preset of 5 subtitle titles, which can be quickly switched to use during recording/live broadcast according to the titles;
- **Font settings:** supports custom font, size and colour for subtitles;
- **Subtitle content:** subtitle display content editing column, currently supports display of up to 40 English characters;

2.3.2. Logo

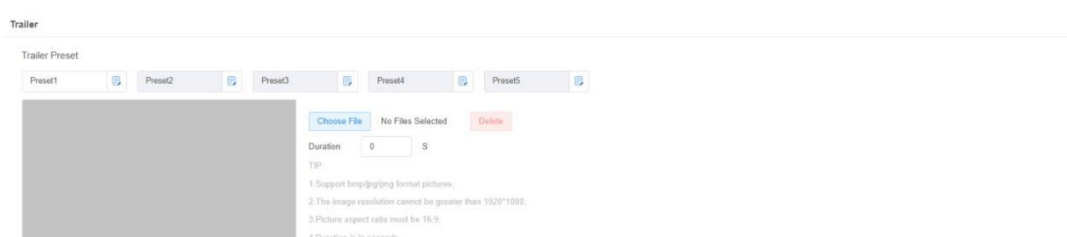


- **Logo Presets:** Supports presetting up to 5 logo names, allowing quick switching during recording/live streaming.
- **Select File:** Add logo files according to the format requirements prompted.
- **Logo Position:** Set the position of the logo or drag it to the desired position using the mouse.

2.3.3. Opening and Closing Titles

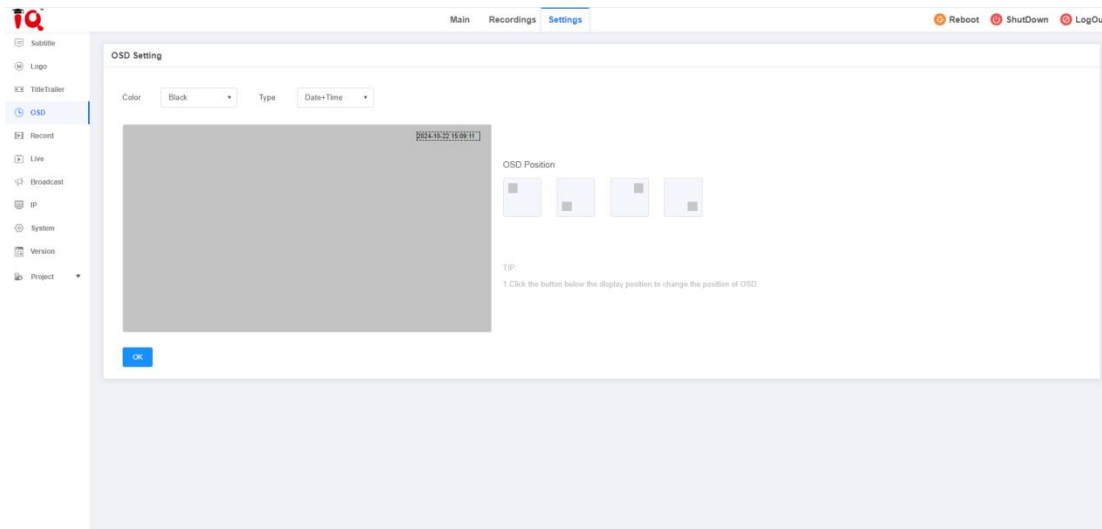


- **Opening Title Presets:** Supports presetting up to 5 opening titles, allowing quick switching during recording/live streaming.



- **Trailer (Closing Title) Presets:** Supports presetting up to 5 closing titles, allowing quick switching during recording/live streaming.
- **Select File:** Add opening/closing title files according to the format requirements prompted.

2.3.4. OSD Settings



- **Display Color:** Set the color of the OSD watermark font, supporting 5 colors.
- **Display Content:** Set the OSD watermark information display format, supporting 3 formats.
- **Display Position:** Set the display position of the OSD watermark information, supporting 4 positions.

2.3.5. Record Settings

The screenshot shows the 'Record Setting' window in the IQ software. It features a table with 8 columns: Channel, Name, Format, Resolution, Bitrate, Framerate, Code, and Record Enable. The table lists various recording channels like 'Film', 'Computer', 'Teacher', 'Student', etc. Below the table, there are settings for 'Auto Recording after startup', 'Segment duration', 'Max duration', and a 'Timed recording' section with a calendar view for scheduling recordings.

Channel	Name	Format	Resolution	Bitrate	Framerate	Code	Record Enable
Film	Live_channel	MP4	1920*1080	4096Kbps	25fps	H264	<input checked="" type="checkbox"/>
Computer	Lecture	MP4	1920*1080	4096Kbps	25fps	H264	<input type="checkbox"/>
Computer2	Lecture2	MP4	1920*1080	4096Kbps	25fps	H264	<input type="checkbox"/>
Teacher	Teacher_C	MP4	1920*1080	4096Kbps	25fps	H264	<input type="checkbox"/>
Student	Student_C	MP4	1920*1080	4096Kbps	25fps	H264	<input type="checkbox"/>
Teacher_F	Teacher_P	MP4	1920*1080	4096Kbps	25fps	H264	<input type="checkbox"/>
Student_F	Student_P	MP4	1920*1080	4096Kbps	25fps	H264	<input type="checkbox"/>
Interactive	Interactive	MP4	1920*1080	4096Kbps	25fps	H264	<input type="checkbox"/>

Below the table, there are settings for 'Auto Recording after startup' (toggle), 'Segment duration' (dropdown), 'Max duration' (dropdown), and a 'Timed recording' section with a calendar view for scheduling recordings.

- **Record settings:** You can set the basic recording information of each channel or turn off recording;
- **Auto recording after startup:** If enabled, the LCS810 will automatically start recording upon startup.
- **Recording segment duration:** Record according to the set segment duration;

NOTE

The maximum segment is 2 hours, minimum 10 minutes.

- **Maximum duration of a single recording:** The LCS810 will stop recording once the set duration is reached.

NOTE

If the single recording time is longer than 6 hours, the recording file will be saved in TS format.

- **Timed recording:** support setting 8 groups of timed recording functions.

NOTE

The video station opens multiple recording channels at the same time as shown in the figure below.

Record Setting

Channel	Name	Format	Resolution	Bitrate	Framerate	Code	Record Enable
Film	<input type="text" value="film"/>	MP4	1920*1080	4096Kbps	25fps	H264	<input checked="" type="checkbox"/>
CH1	<input type="text" value="CH1"/>	MP4	1920*1080	4096Kbps	25fps	H264	<input checked="" type="checkbox"/>
CH2	<input type="text" value="CH2"/>	MP4	1920*1080	4096Kbps	25fps	H264	<input checked="" type="checkbox"/>
CH3	<input type="text" value="CH4"/>	MP4	1920*1080	4096Kbps	25fps	H264	<input checked="" type="checkbox"/>
CH4	<input type="text" value="CH3"/>	MP4	1920*1080	4096Kbps	25fps	H264	<input checked="" type="checkbox"/>

2.3.6. Live Streaming Settings

Live Setting

Channel	Format	Resolution	Bitrate	Framerate	Server Address	View Address	Live Enable	RTSP Live
Film 1	RTMP Push	1920*1080	2048Kbps	25fps	rtmp://192.168.3.98:1935/iv		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Film 2	RTMP	640*360	512Kbps	25fps	192.168.102.107	rtmp://192.168.102.107:193	<input type="checkbox"/>	<input type="checkbox"/>
Computer	RTMP Push	640*360	512Kbps	25fps	rtmp://192.168.3.98:1935/iv		<input type="checkbox"/>	<input type="checkbox"/>
Computer2	RTMP Push	640*360	512Kbps	25fps	rtmp://192.168.3.98:1935/iv		<input type="checkbox"/>	<input type="checkbox"/>
Teacher	RTMP Push	640*360	512Kbps	25fps	rtmp://192.168.3.98:1935/iv		<input type="checkbox"/>	<input type="checkbox"/>
Student	RTMP Push	640*360	512Kbps	25fps	rtmp://192.168.3.98:1935/iv		<input type="checkbox"/>	<input type="checkbox"/>
Teacher_F	RTMP Push	640*360	512Kbps	25fps	rtmp://192.168.3.98:1935/iv		<input type="checkbox"/>	<input type="checkbox"/>
Student_F	RTMP Push	640*360	512Kbps	25fps	rtmp://192.168.3.98:1935/iv		<input type="checkbox"/>	<input type="checkbox"/>
Interactive	RTMP Push	640*360	512Kbps	25fps	rtmp://192.168.3.98:1935/iv		<input type="checkbox"/>	<input type="checkbox"/>

Automatic live broadcast after startup ☐

OP	Open	Start Time	Stop Time	Duration	Once	Everyday	Mon	Tues	Wed	Thur	Fri	Sat	Sun
	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Live broadcast settings: Set the basic live streaming information for each channel or disable live streaming.
- Automatic live broadcast after startup: If enabled, the LCS810 will automatically start live streaming upon startup.
- Scheduled live broadcast function: support setting 8 groups of scheduled live broadcast functions;

Live broadcast format description:

1. **RTMP Format** - Other devices or platforms pull the live stream from the LCS810.

NOTE

This format is for the built-in LAN live streaming platform of the LCS810, supporting viewers from up to 50 locations.)

Streaming Address: `rtmp://192.168.1.55:1935/live/live_film`

("192.168.1.55" here is the IP address of the video station)

2. **HLS Format** - Other devices or platforms pull the live stream from the LCS810.

Pull Stream Address: `http://192.168.1.55:8080/live/live_film.m3u8`

("192.168.1.55" here is the IP address of the video station)

3. **RTMP_Push format** - LCS810 pushes the live stream to another live streaming platform.

Example: The streaming address of the live streaming platform is:

`rtmp://10.139.10.20/live/1869436=7ed01c04aa15f9872a72ba&txTime=6328315B`

NOTE

This address is the streaming address automatically generated by the live streaming platform.

Live Setting

Channel	Format	Resolution	Bitrate	Framerate	Server Address	View Address	Live Enable	RTSP Live
Film 1	RTMP Push	1920*1080	2048Kbps	25fps	rtmp://27.151.53.58:21935/		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Film 2	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH1	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH2	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH3	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH4	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>

- a. Change the live streaming format on your LCS810 to RTMP_Push.
- b. Copy the push stream address provided by your live streaming platform into the "Live Stream Server Address" field on the LCS810.



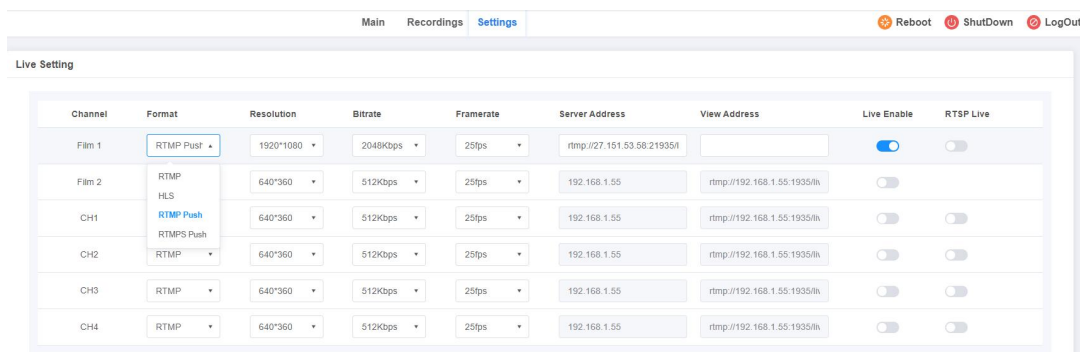
- c. Copy and paste the live streaming platform address into the live streaming platform address bar and turn on live streaming.

4. **RTMPS_Push Format** - The RTMPS_Push format allows the LCS810 to push a live stream to another live streaming server.

Example: The streaming address of the live streaming platform is `isrtmps://10.139.10.20/live/1869436=7ed01c04aa15f9872a72ba&txTime=6328315B`

NOTE

This address is the streaming address automatically generated by the live streaming platform.



The screenshot shows the 'Live Setting' interface with a table of live streaming channels. The table has columns for Channel, Format, Resolution, Bitrate, Framerate, Server Address, View Address, Live Enable, and RTSP Live. Channel 1 is 'Film 1' with format 'RTMP Push' and 'Live Enable' turned on. Channel 2 is 'Film 2' with format 'RTMP' and 'Live Enable' turned off. Channels 3-6 are 'CH1' through 'CH4' with format 'RTMP' and 'Live Enable' turned off. The 'RTSP Live' column has a toggle for each channel.

Channel	Format	Resolution	Bitrate	Framerate	Server Address	View Address	Live Enable	RTSP Live
Film 1	RTMP Push	1920*1080	2048Kbps	25fps	rtmp://27.151.53.58:21935/		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Film 2	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH1	RTMP Push	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH2	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH3	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH4	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>

- a. Change the live streaming format on your LCS810 to RTMPS_Push.
- b. Copy the live streaming platform's streaming address and fill it into the live streaming server address bar;
- c. Copy and paste the live streaming platform address into the live streaming platform address bar and turn on live streaming.

NOTE

The video station opens multiple live broadcast channels at the same time as shown in the figure below.



Live Setting

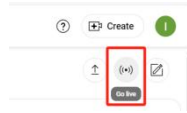
Channel	Format	Resolution	Bitrate	Framerate	Server Address	View Address	Live Enable	RTSP Live
Film 1	RTMP Push	1920*1080	2048Kbps	25fps	rtmp://27.151.53.58:21935/		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Film 2	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH1	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH2	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH3	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH4	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>

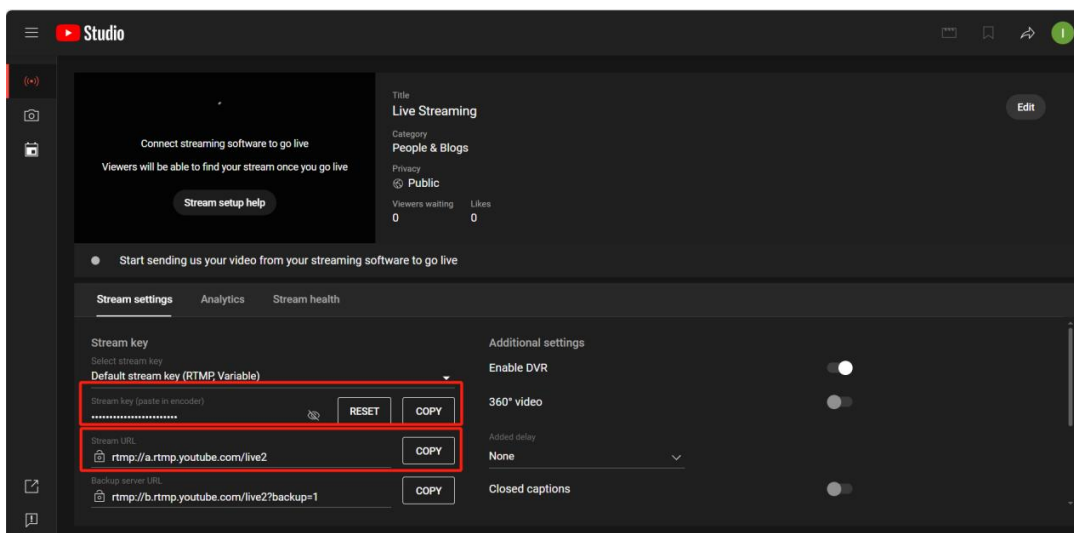
Tip 1:

RTMPS_Push operates similarly to RTMP_Push, maintaining the same low latency and persistent connection benefits. However, by encrypting the data stream, RTMPS provides an added layer of security, making it suitable for applications where data privacy is crucial.

Streaming platforms like Facebook and YouTube generally support RTMPS_Push, so you can select RTMPS_Push format when streaming to Facebook and YouTube.

Here we take YouTube streaming for example:

Go to YouTube Studio, and find “Go Live” icon , and click on it, you'll enter the following page.



Copy Stream URL “rtmp://a.rtmp.youtube.com/live2” and Stream key, the stream key is like “9xxx-8yyy-3zzz-3iii-7jjj”.

Put Stream URL and Stream key together, like



“rtmp://a.rtmp.youtube.com/live2/9xxx-8yyy-3zzz-3iii-7jjj” , then fill this address into the Server Address of LCS810 for live streaming.

Tip 2:

If a stream server address/stream key does not work, you may try to add a port to the stream URL, for example, port:1935, to make it like rtmp://a.rtmp.youtube.com/live2:1935/9xxx-8yyy-3zzz-3iii-7jjj.



NOTE

The LCS810 can have a maximum of 2 simultaneous live streaming channels active at any time.

Channel	Format	Resolution	Bitrate	Framerate	Server Address	View Address	Live Enable	RTSP Live
Film 1	RTMP Push	1920*1080	2048Kbps	25fps	rtmp://27.151.53.58:21935/		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Film 2	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH1	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH2	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH3	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>
CH4	RTMP	640*360	512Kbps	25fps	192.168.1.55	rtmp://192.168.1.55:1935/	<input type="checkbox"/>	<input type="checkbox"/>

2.3.7. Interaction Settings

Interaction Setting

Interaction Mode: ☒ Speaker Mode ☐ Teaching Mode

Sending Screen 1: Resolution: FUD, Output: Film

Sending Screen 2: Resolution: FUD, Output: Student

Sending Screen: Resolution: FUD, Output: Student

Receiving Screen: ☒ Dual Display ☐ Single Display

Other Settings: SpeakerFullScreen: ☒ Show Self: ☒ Max Split Screens: Nine Screens, Open Mic Num: 0

- **Speaker mode:** After the interaction is turned on, the initiator needs to

activate the joining party's audio so that they can talk to each other.

- **Teaching and Research Mode:** After the interaction is started, the joining party and the initiator can talk directly to each other;
- **Video initiator:** When the recorder is the initiator, set the default channel image to be sent to the joining party for viewing;

NOTE

When dual screen is on, you can set the default sending screen 2; no setting is required when using single screen.

- **Video receiver:** When the recorder is the joining party, set the default sending channel image for the initiator to watch;
- **Receive screen selection:**

Dual-screen display: Displays the sending screen 1 and the sending screen 2 of the initiator;

Single screen display: You can set and select the display of the screen 1 or screen 2 sent by the initiator, or the picture-in-picture display;

Full screen for speaker: when creating the initiator display, whether the speaker is displayed in full screen;

Display local video: During interaction, the recorder displays the video itself.

Maximum number of split screens: When an initiator starts multi-party interaction, set the maximum number of participant screens that can be displayed on the screen; (up to 9 screens can be set, and the number of screens can be turned over when exceeded))

Number of microphones to be enabled: The number of participants allowed to speak by the initiator by default; (up to 4 microphones can be enabled)

NOTE

When the number of microphones is set, the corresponding number of participants who first enter the interaction can talk directly to the initiator.



SIP Setting

Output Resolution: FUD Output: Teacher

Double Stream: ☐

Pip: V1 V2 V1 V2 V2 V1 V2 V1

OK

SIP set up:

- **Output:** When using the SIP protocol to interact, the resolution and channel of the screen output;
- **Dual stream:** whether to enable dual stream when using SIP protocol interaction;
- **Picture-in-picture:** Picture-in-picture display mode when using SIP protocol interaction;

2.3.8. Network Settings

Network Setting

DHCP: ☒

Website: Check Clear

IP: 192.168.3.38

Subnet Mask: 255.255.255.0

Gateway: 192.168.3.1

DNS: 113.31.119.88

OK

Network selection

Type: Wired Network

Used to set the network parameters of the video station. After the network configuration, the video station needs to be restarted to take effect. Network detection can test whether the recorder is connected to the Internet.

2.3.9. System Settings

Time Setting

Time Zone: (GMT+08:00) Beijing, Chongqing, Hong Kong

Date Format: DD-MM-YYYY

Time Format: 24 Hours Format

Date Time: 22-10-2024 15:24:15 OK Sync

NTP Setting

Set Sync Power On: ☐

NTP Address: OK Sync

- **Time setting:** set the video station's system time/date format/time format;

Other Setting

Save Film Layout: ☐ Start recording/Start live countdown reminder: ☐ Tip: The countdown reminder is only displayed on the local interface.

- **Save layout:** This setting can save the current display layout of the movie channel;

NOTE

If the memory layout is not switched on, the film channel will by default show the screen of the first channel of the ready-to-play list; if the memory layout is switched on, the LCS810 will remember the layout of the settings before rebooting.

Start recording\ live broadcast countdown reminder: start recording or live broadcast after a 5-second countdown.


NOTE

After setting, the delay prompt is only visible in the local interface.)

Language Setting

Language: English

- **Language setting:** Set the system display language of the video station;



Account Setting

Old PWD

New PWD

Confirm

- **Account settings:** Set the video station login password;



System Up

Server Up No Files Selected

System Up No Files Selected

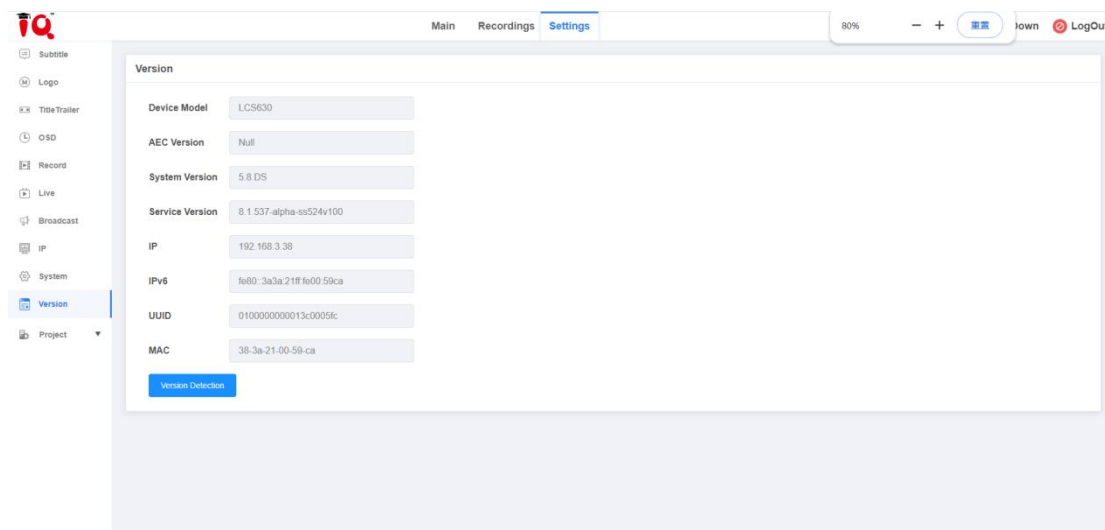
AEC Up No Files Selected

License Up No Files Selected

Upgrade Steps: (1) Upload upgrade file. (2) Click the "upgrade" button after uploading. (3) After "upgrade completed" pops up, complete the upgrade.

- **System upgrade:** video station version update and upgrade;

2.3.10. Version Information



Version

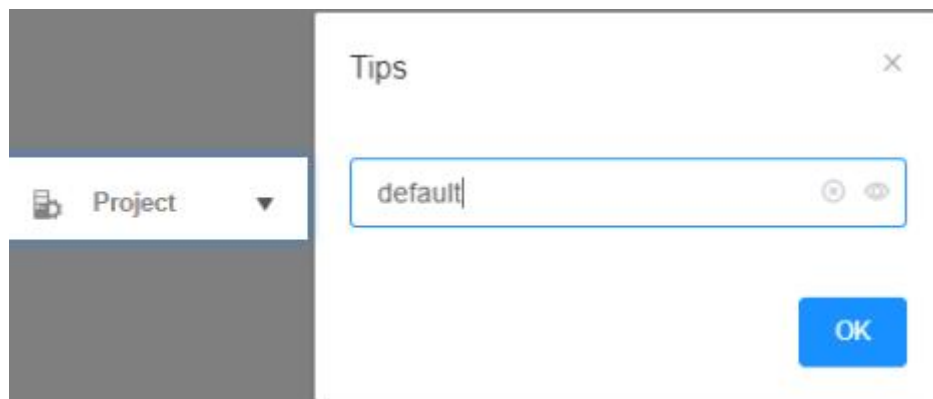
Device Model	LCS630
AEC Version	Null
System Version	5.8 DS
Service Version	8.1.537-alpha-ss524v100
IP	192.168.3.38
IPv6	fe80::3a3a:21ff:fe00:59ca
UUID	0100000000013c0005fc
MAC	38-3e-21-00-59-ca

- **Version information:** Displays the video station model, version information, IP address, license authorization information, etc.
- **Version detection:** The device can be tested and upgraded online.

NOTE

The version detection function is only available when the device is connected to the external network.

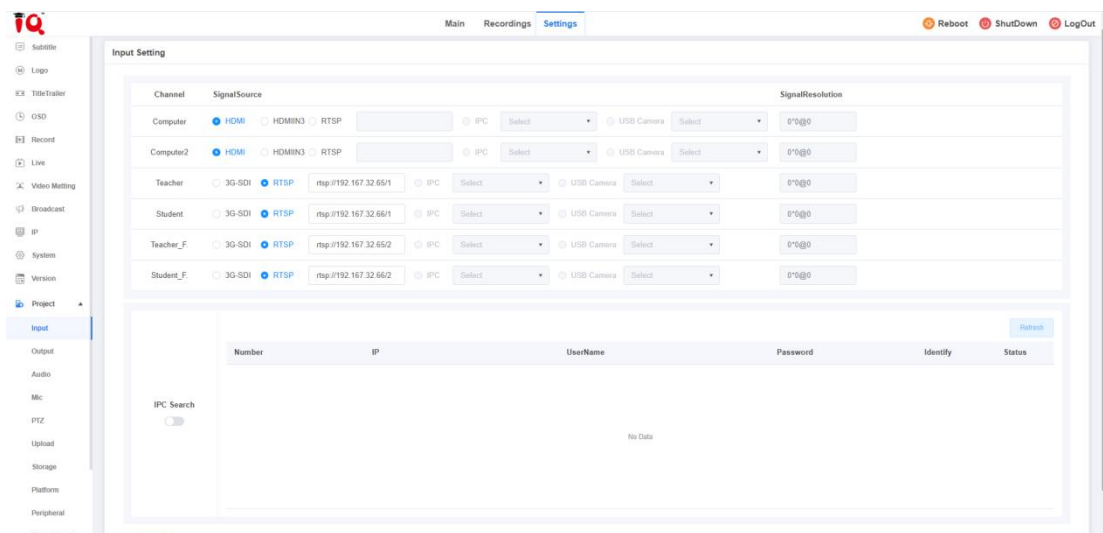
2.4. Engineering Settings



Remark:

You need to enter the management password to enter the project settings. The default password is default (To enable the management password again, you need to restart the video station.)

2.4.1. Input Settings



- **Channel name:** Displays the current name of each channel;
- **Signal source access mode:** Displays the signal source type currently used by each channel;

Illustrate:

HDMI ----The current channel uses HDMI IN1/IN2 to access the video signal source;

HDMI IN3----The current channel uses HDMI IN3 to access the video signal source;

RTSP ----The current channel uses RTSP to access the video signal source;

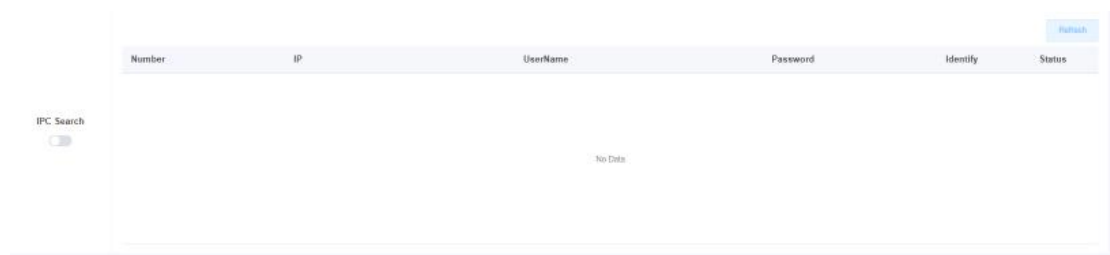
IPC ----The current channel uses IPC to access the video signal source;

USB Camera--The current channel uses USB Camera to access video signal



NOTE

LCS810 is not supported 3G-SDI



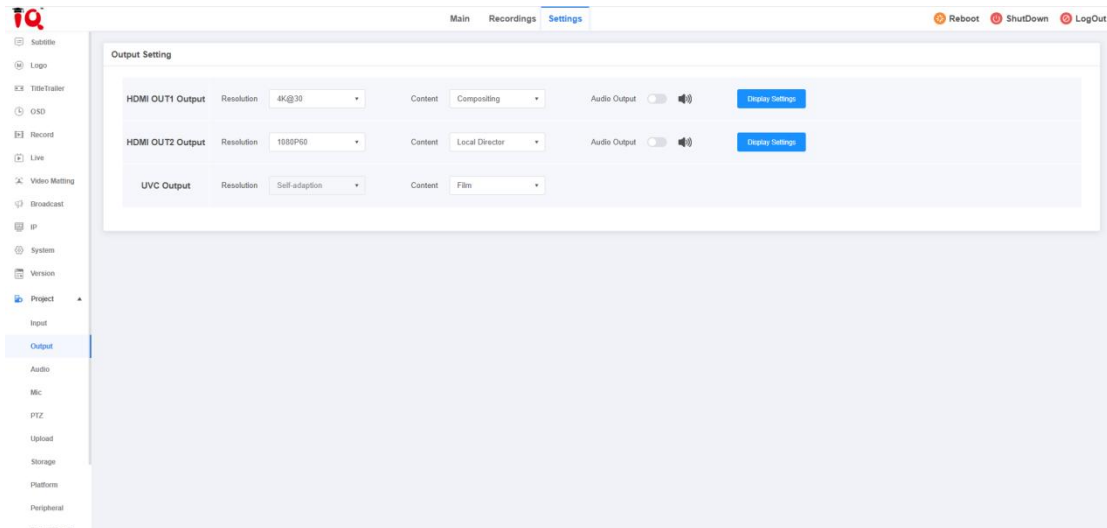
- **IPC Search:** Enables IPC search within the LAN (cameras must support ONVIF protocol).



NOTE

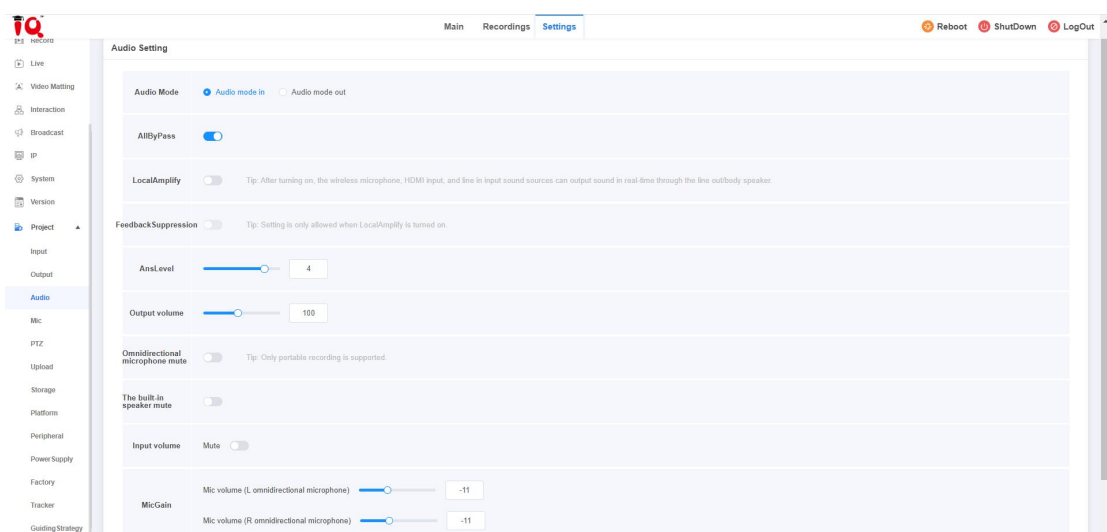
If RTSP or IPC is enabled as the video source in the channel, it must be disabled before connecting to the wired video source.

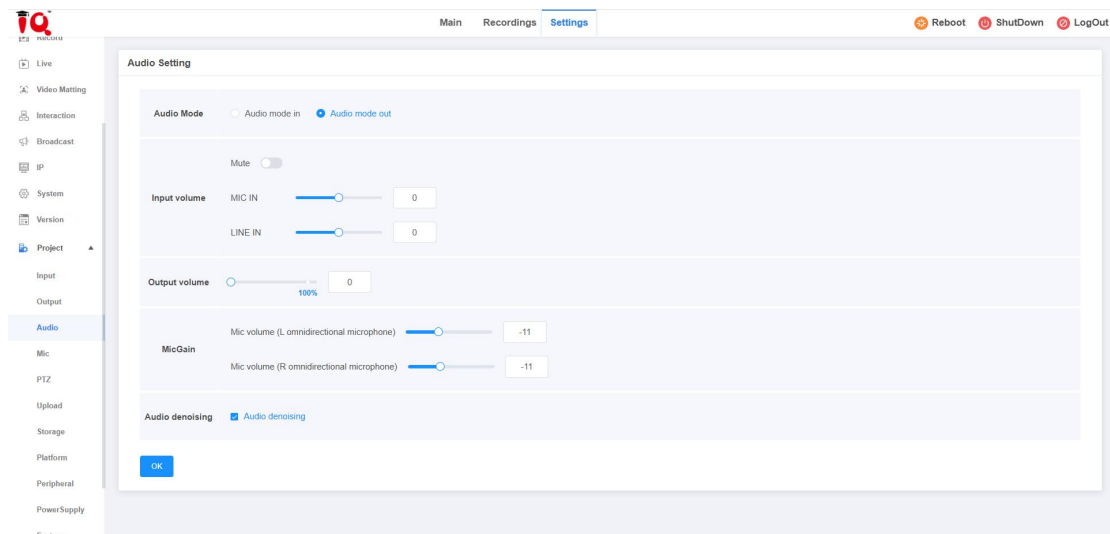
2.4.2. Video Outputs



- **HDMI-OUT1 Output:** Whether to turn on HDMI OUT1 audio output;
- **HDMI-OUT2 Output:** Whether to turn on HDMI OUT2 audio output;
- **UVC Output:** Set UVC output channel picture; (Default output movie channel picture, maximum resolution 1920x1080)

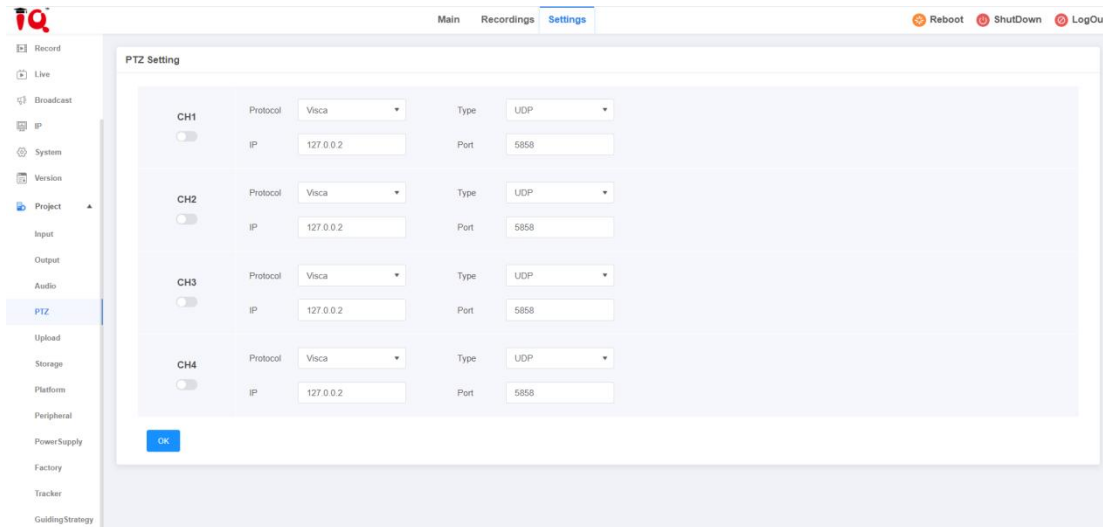
2.4.3. Audio Settings





- **Built-in audio mode:** used when the video station has a built-in AEC module; (LCS810 is with built-in AEC module)
- **External audio mode:** The video station has no built-in AEC and is used when using an external audio processor;
- **Sound reinforcement:** When turned on, the video station LINE-OUT can output HDMI IN, LINE-IN sound (without MIC IN sound);
- **Feedback inhibition:** Enable this setting when you enable sound reinforcement;
- **Noise suppression level:** The larger the number, the higher the suppression level;
- **Output volume setting:** Set the output volume of the sound reinforcement;
- **MIC volume (L omnidirectional microphone):** corresponds to Mic1 on the video station;
- **MIC volume (R omnidirectional microphone):** corresponds to Mic2 on the video station;

2.4.4. PTZ Settings

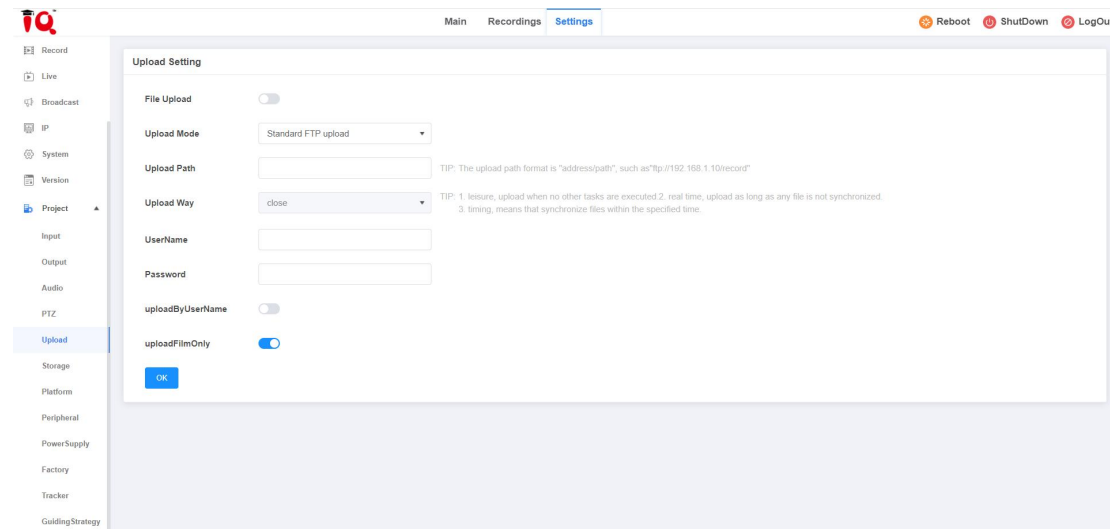


- **PTZ settings:** Open channel PTZ control.
- **Communication protocol:** VISCA protocol is used by default, and ONVIF protocol is supported
- **Communication method:** UDP is used by default, support setting TCP and serial port settings;
- **Communication port:** Camera's VISCA Control Port
- **Communication IP :** Camera IP Address (need to be in the same LAN and network segment with the LCS810 IP address)

NOTE

If the LCS810 has already made tracking communication settings, there is no need to turn on the settings here. After switching the video station to manual mode, you can directly control PTZ.

2.4.5. Upload Settings



The screenshot shows the 'Upload Setting' dialog box in the IQ web interface. The dialog is titled 'Upload Setting' and contains the following fields and controls:

- File Upload:** A toggle switch that is currently turned off.
- Upload Mode:** A dropdown menu set to 'Standard FTP upload'.
- Upload Path:** A text input field. A tip below it states: 'TIP: The upload path format is "address/path", such as "ftp://192.168.1.10/record".'
- Upload Way:** A dropdown menu set to 'close'. A tip below it states: 'TIP: 1. leisure, upload when no other tasks are executed 2. real time, upload as long as any file is not synchronized. 3. timing, means that synchronize files within the specified time.'
- UserName:** A text input field.
- Password:** A text input field.
- uploadByUserName:** A toggle switch that is currently turned off.
- uploadFilmOnly:** A toggle switch that is currently turned on.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

- **File upload:** Option to enable file upload function.
- **Upload mode:** Generally, standard FTP is used for uploading, and other settings are third-party customized upload platforms;
- **Upload path:** Fill in according to the prompts (such as:ftp://ftp serverIP address/record);

Upload method:

Idle Upload: LCS810 is not recording or live streaming (recommended).

Real-time upload: The LCS810 can also upload when recording and live streaming;

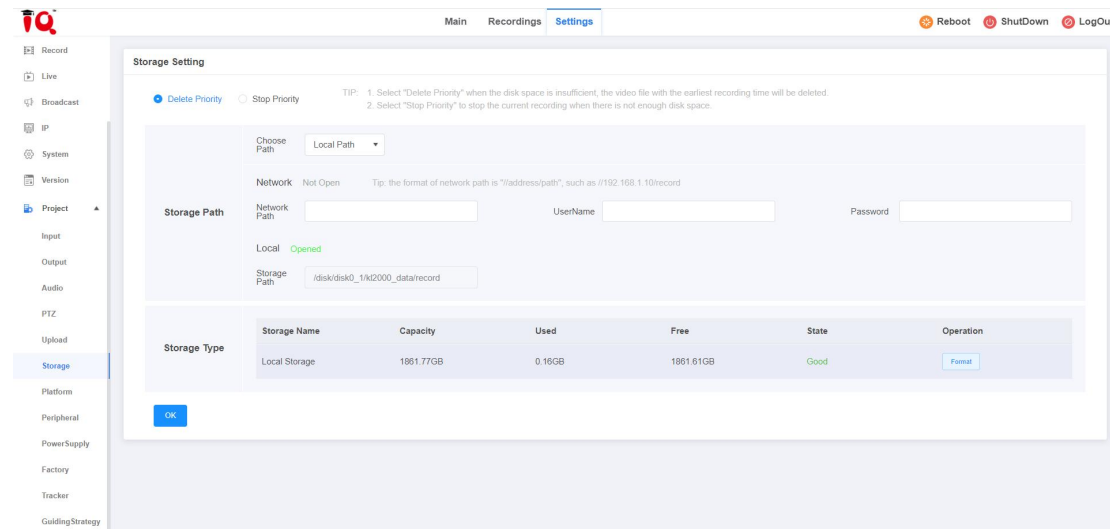
Scheduled upload: Start uploading at the set time;

Username: login user name of FTP server;

Password: login password of FTP server;

Upload Only Movie Mode Recordings: When enabled, the LCS810 uploads only recordings from the movie channel.

2.4.6. Storage Settings



Storage Setting

☒ Delete Priority ☐ Stop Priority

TIP: 1. Select "Delete Priority" when the disk space is insufficient, the video file with the earliest recording time will be deleted.
2. Select "Stop Priority" to stop the current recording when there is not enough disk space.

Choose Path: Local Path

Network: Not Open Tip: the format of network path is "IP address/path", such as //192.168.1.10/record

Storage Path

Network Path: UserName: Password:

Local: Opened

Storage Path: /disk/disk0_1/k2000_data/record

Storage Type	Storage Name	Capacity	Used	Free	State	Operation
Local Storage		1861.77GB	0.16GB	1861.61GB	Good	Format

[OK](#)

- **Delete files first:** When the hard disk is full, the video station will automatically delete the oldest files.
- **Stop recording priority:** When the hard disk is full, the video station will stop recording.
- **Path selection:** You can choose local path (recording is stored in the recorder) and network path (recording is stored in the network shared disk).
- **Network:** Set the recording file to be stored on a network shared disk.
- **Network path:** Network shared disk IP address, format such as //192.168.1.10/record.
- **Username:** Network shared disk login account.
- **Password:** Network shared disk login password.
- **Storage path:** Displays the storage path of the recorded file on the recorder.
- **Storage Type:** Displays the working status of the hard disk.
- **Format:** Format the hard disk (please be careful, it will delete all recorded files on the hard disk, but will not format the system software).

2.4.7. Platform Settings

NOTE

For the LCS810's interactive functions, configure the interactive server or register SIP server information first.

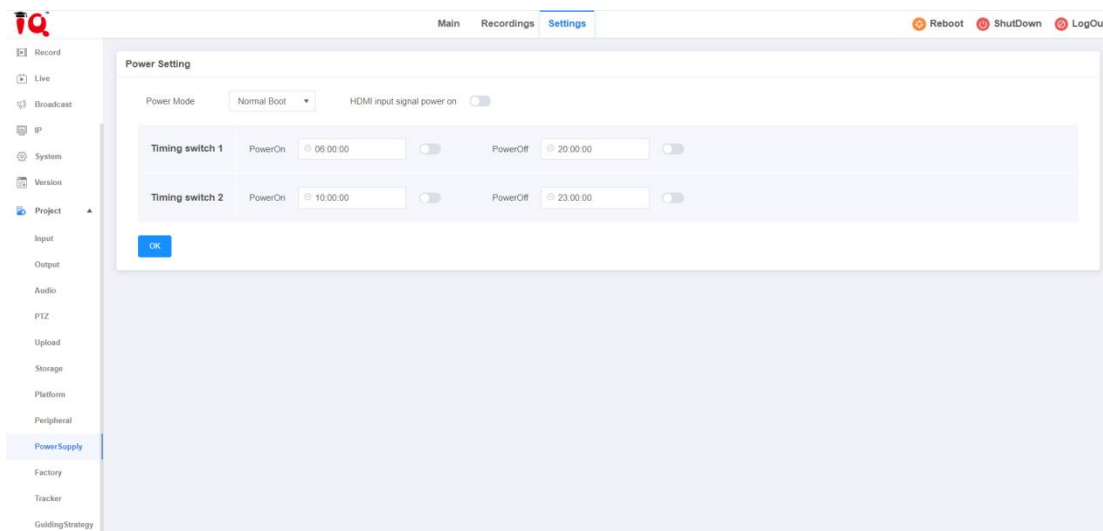
When using the SIP function on the LAN, you can just use the default SIP configuration, and when SIP calls users, you use the LAN IP address.

- **Interactive platform settings:** Set the interactive server IP Address or configuration SIP server registration information.

2.4.8. Peripheral Settings

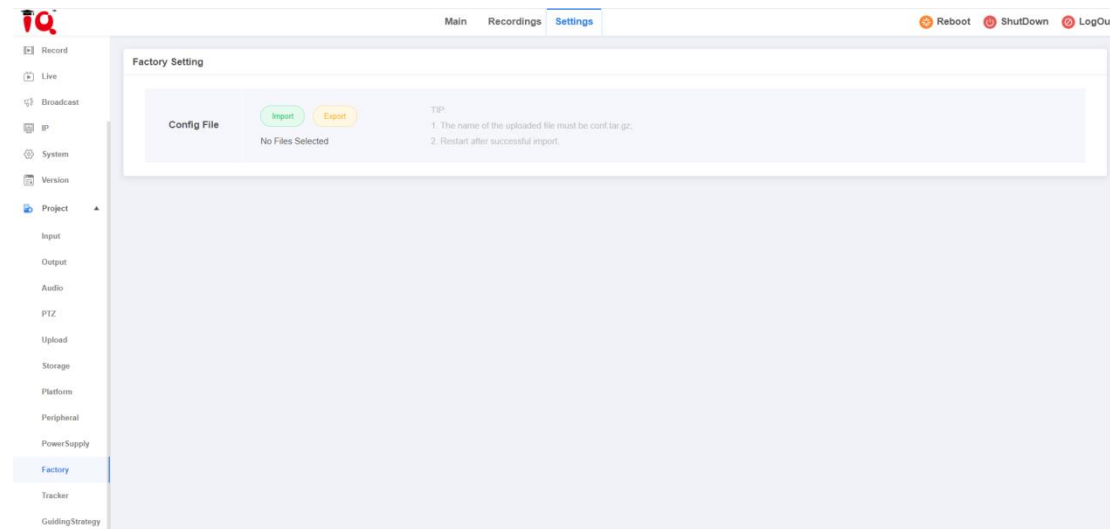
1. **Keyboard:** Director keyboard settings. When using the matching director keyboard, please consult the technical support for the corresponding instructions according to the specific model. If you need to use a third-party director keyboard, please consult technical support first;
2. **Panel:** Central control and touch panel settings. The parameters are already set, just keep the defaults.
3. **Clock:** When an external clock display is connected, set it according to the corresponding RS232 interface;
4. **Sequential power supply:** When an external sequential power supply is connected, set it according to the corresponding RS232 interface connected.

2.4.9. Power Supply Settings



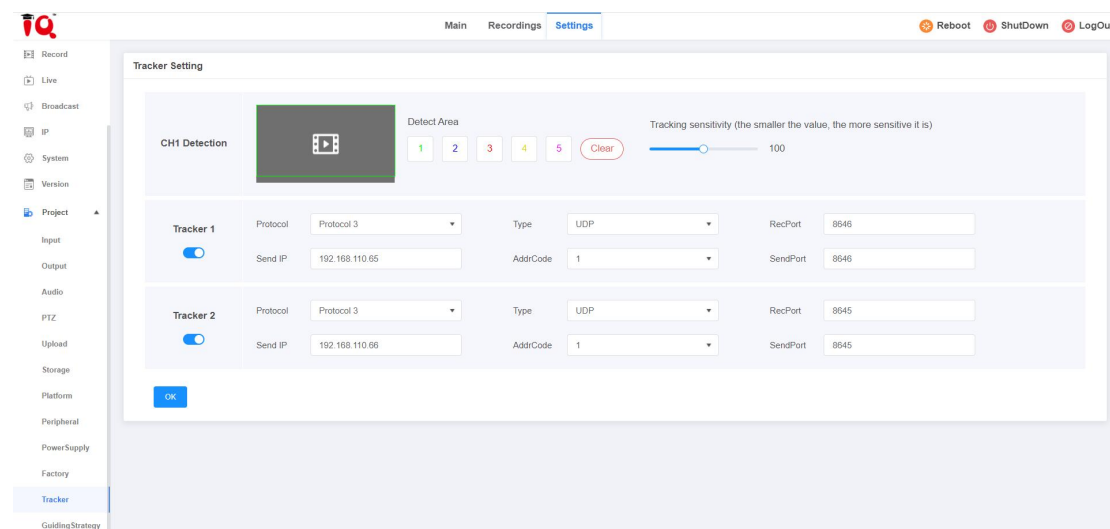
- **Normal startup:** Press the power button for 3 seconds to boot up;
- **Power on:** Automatically start the video station when the power is turned on;
- **Scheduled startup:** supports setting two sets of scheduled startup time;
- **Scheduled shutdown:** supports setting two sets of scheduled shutdown time;

2.4.10. Factory Settings



- **Export:** Backs up all current configurations on the LCS810.
- **Import:** Imports backup files when the LCS810 operates abnormally.

2.4.11. Tracking Settings



- **Computer screen detection:** Computer screen detection area setting, supports setting up to 5 areas;
- **Clear:** Click the detection area, click Clear to delete the detection area and set it again;
- **Computer 2 screen detection:** Computer screen detection area setting, supports setting up to 5 areas;

- **Clear:** Click the detection area, click Clear to delete the detection area and set it again;

- **Teacher tracking:**

Protocol ---Set the tracking camera protocol type;

Type---Set the network type for tracking camera communication;

RecPort---Set the sending port of the tracking camera;

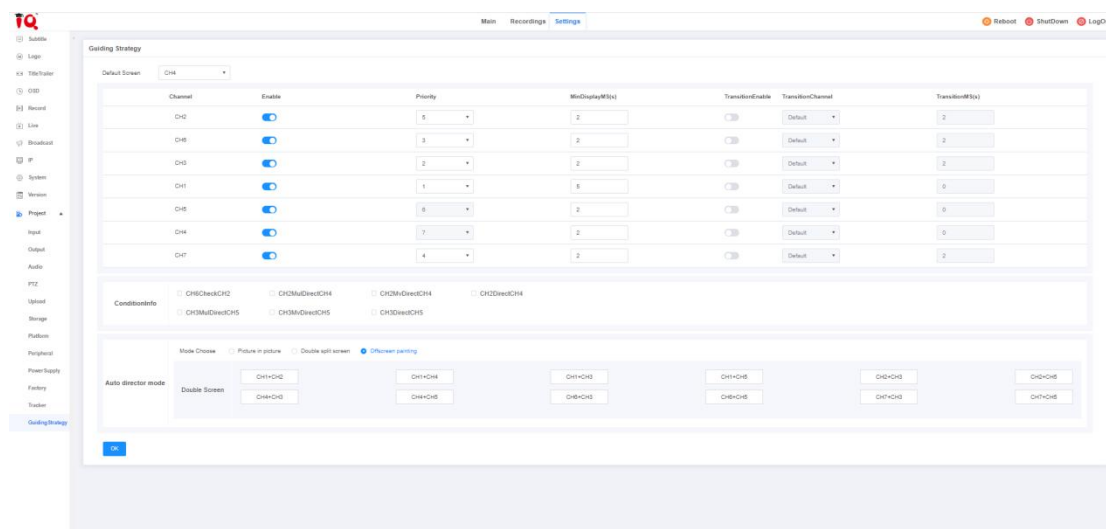
Send IP---Set the IP address of the tracking camera;

Address code-----Set the address code of the tracking camera;

Send Port---Set the receiving port of the tracking camera;

- **Student tracking:** same with teacher;
- **Blackboard tracking:** same with teacher tracking.

2.4.12. Directing Strategy



- **Default screen setting:** When there is no trigger target, the LCS810 returns to the default channel screen displayed;
- **Whether to participate in switching:** If the corresponding channel screen is turned on, the automatic director switching can be performed; if it is not turned on, the automatic director switching cannot be performed;
- **Automatic switching level:** The priority level of automatic screen

switching. The smaller the number, the higher the priority level.



NOTE

If a higher-level channel is being triggered, the lower-level channel will not switch even if it is triggered.

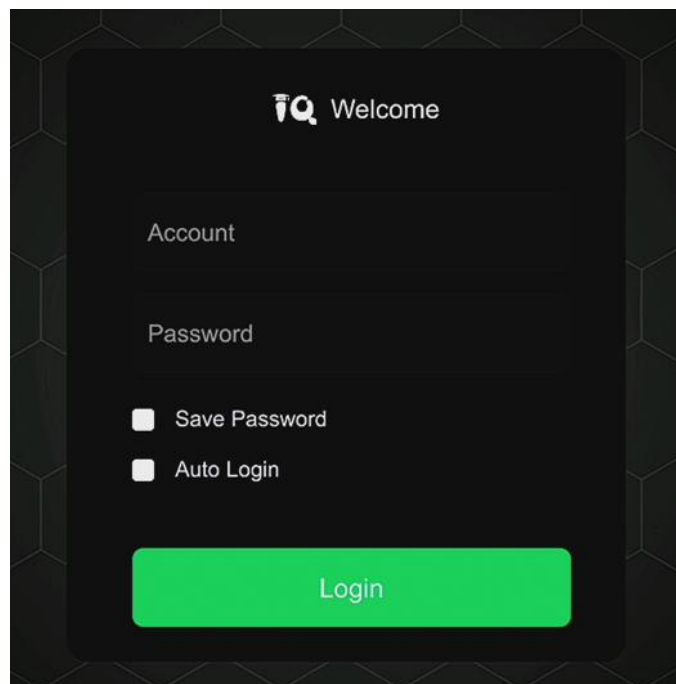
- **Dwell time:** The default dwell time when switching channels;
(For example, the default value of the computer channel is 5, which means that when the computer channel is triggered, it will be displayed for at least 5 seconds. It can also be customized as needed.)
- **Screen transition:** whether to enable the screen transition function of this channel;
- **Picture selection:** When enabling transition, set the transition picture;
- **Transition time:** When enabling transition, set the transition time;

3. Local Director Interface

3.1. Requirements

Directly operate on LCS810's touch screen.

3.2. Interface and Function Introduction

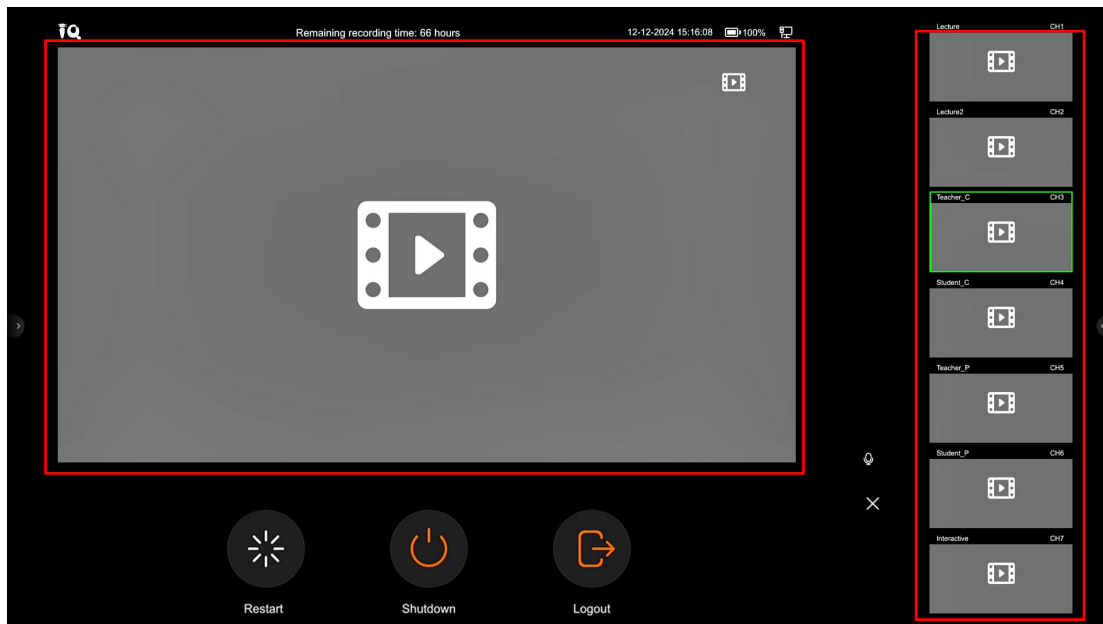


The login interface is as shown above, account: admin, password: admin.

Save Password---No need to enter password next time you start the video station.

Automatic Login--- Automatically enter the local interface next time you start the video station.

3.2.1. Primary Movie Screen

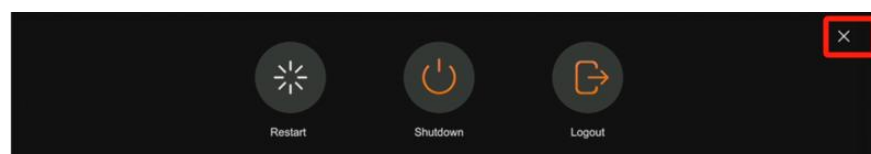


The largest screen in the Director Interface is the LCS810 Movie Screen, which is also the live broadcast screen. The LCS810 movie screen is the recorded video screen.

The 7 small video preview windows on the side of the main screen are the standby screens. The 7 backup video screens are Computer, Computer 2, Teacher Close-up, Student Close-up, Teacher Panorama, Student Panorama and interaction. You can manually double-click any channel video to switch to the primary screen as the recording and live broadcast screen.

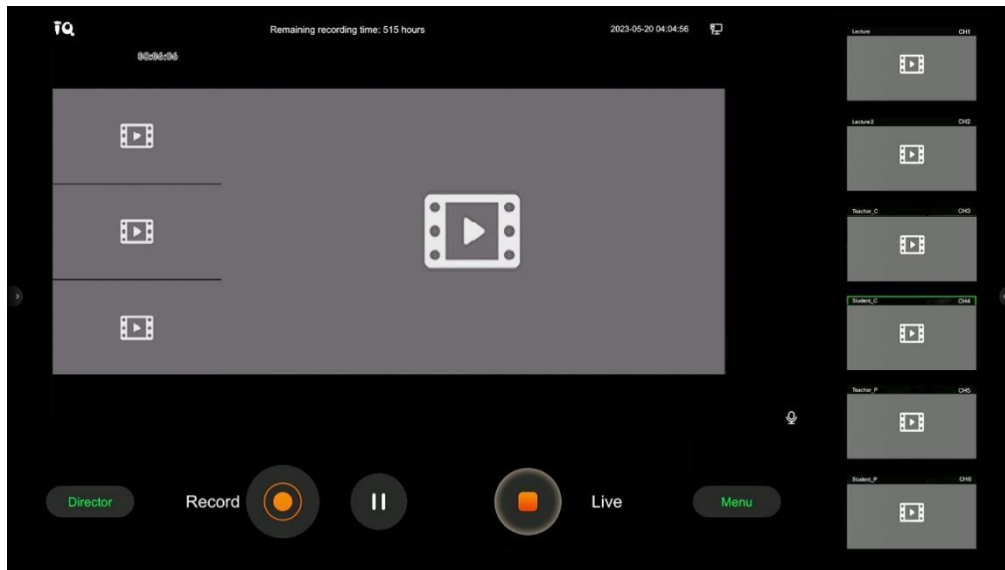
NOTE


The number of standby screens will vary depending on the actual software type of the LCS810.





Click the "x" as shown in the picture above to enter the director interface.


3.2.2. Director Interface

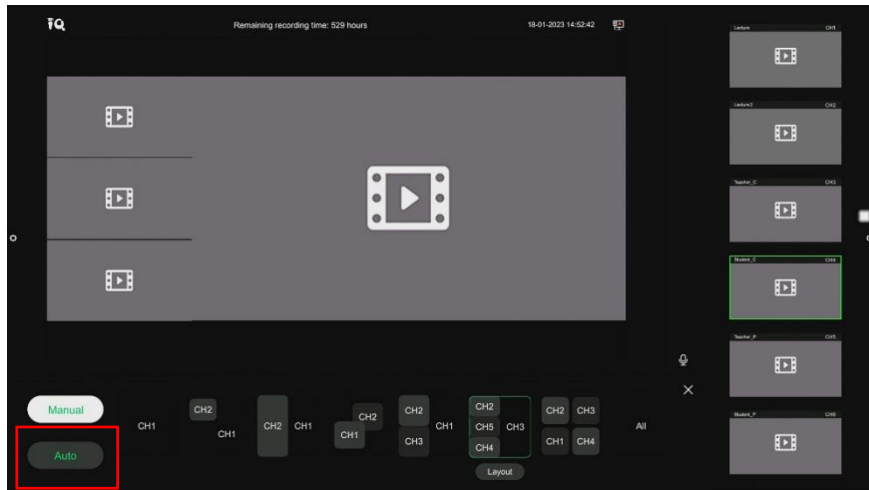


: Recording start/stop button; click this button to start recording, click it again to stop recording

: Pause/resume button for recording; click this button to pause recording, click it again to continue recording

: Start/stop button for live broadcast; click this button to start live broadcast, click it again to stop live broadcast

: Click to enter the director layout interface, as shown below. You can choose between automatic and manual modes; in automatic mode, the standby screen automatically switches to the main movie screen, and in manual mode, you need to double-click the standby screen to switch to the main movie screen.

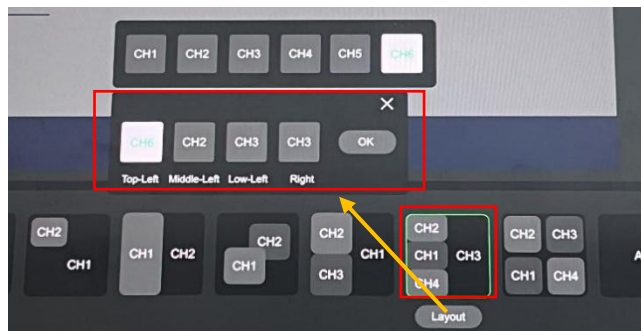


: Buttons for setting screen layout in manual mode; they represent single screen, dual screen PIP, dual screen dual split screen, triple screen, quad screen, and all screens.

NOTE

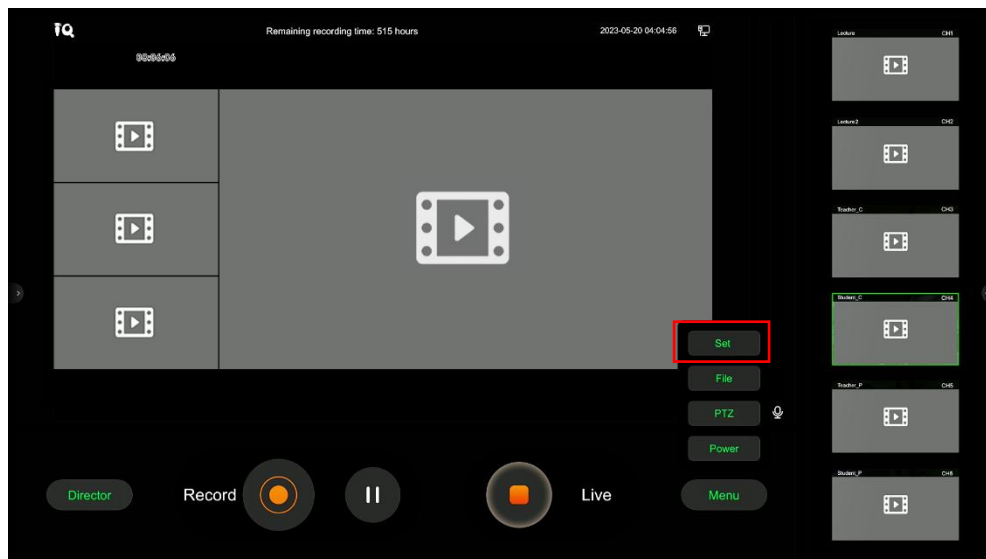
The screen layout setting can be switched only when in Manual mode.

The following uses four screens as an example to illustrate how to set the screens:

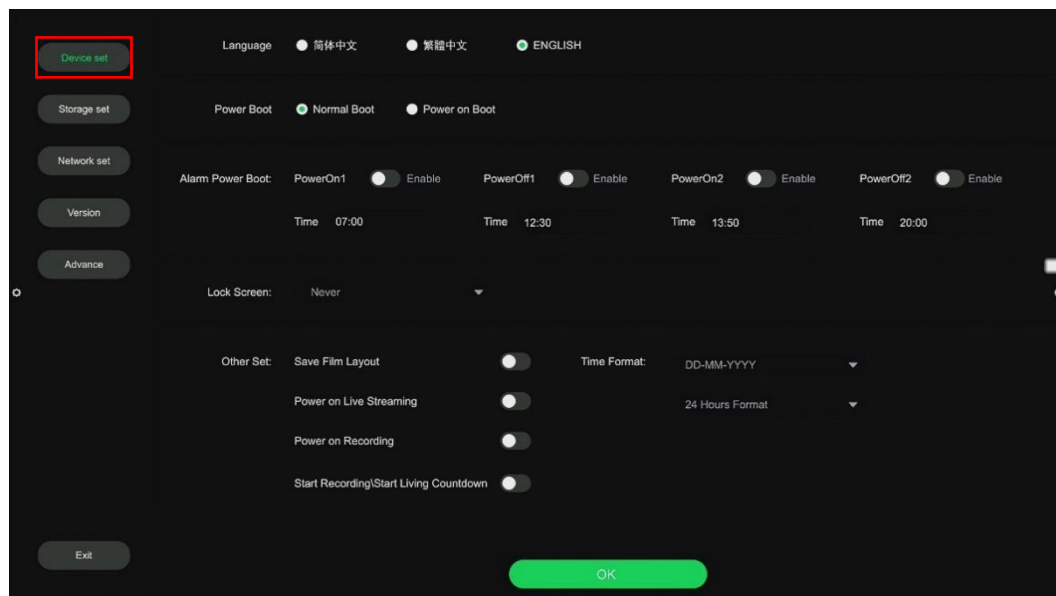


Select the four-screen display mode, click "Layout", and a pop-up window will appear with the video channel arrangement of the four screens. Click one of the video channels, and a pop-up window will appear with all six video channels (video sources). Select the video source required for the screen position, for example, "CH6" . After all settings are completed, click "OK" .

3.2.3. Settings Interface



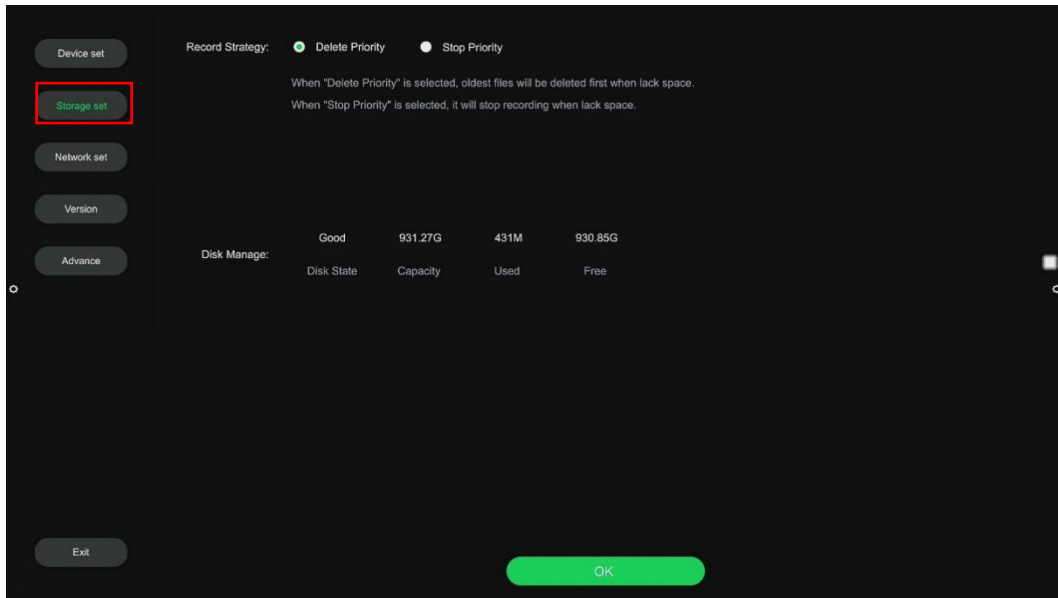
Click "Menu" and select "Set" to enter the setting interface, as shown in the figure below.



3.2.3.1. Device Set

You can select language, power-on settings (normal boot or power on boot), two sets of scheduled power-on and power-off settings, screen lock time, other settings (save the last director layout, automatically start live broadcast at power-on, automatically start recording at power-on,

countdown to start recording/start live broadcast), time format, etc.

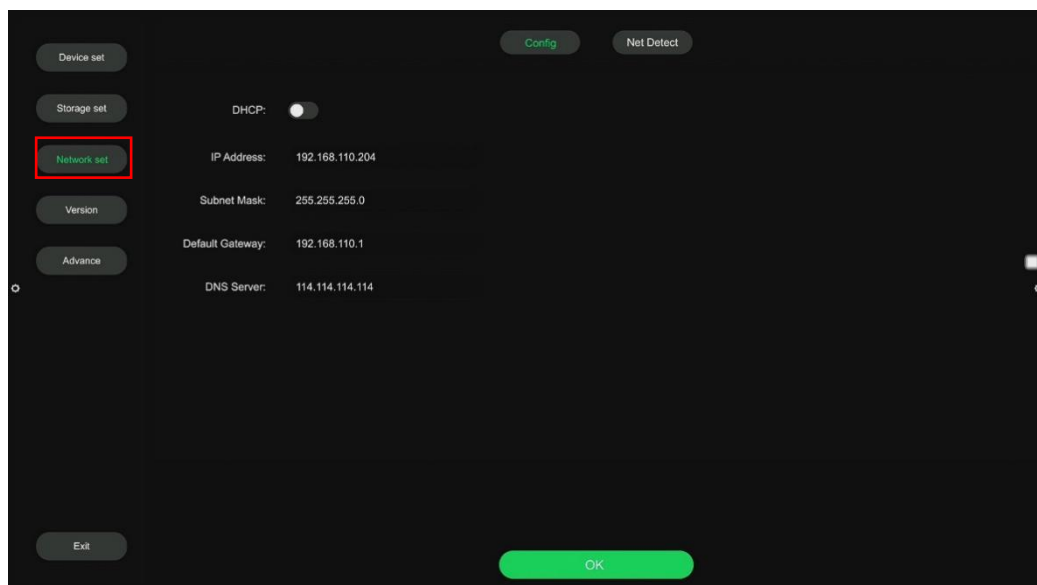


3.2.3.2. Storage Set

Delete priority: When the hard disk is full, the oldest files will be deleted and the recording will be repeated;

Stop priority: When the hard disk is full, the recording will stop;

Disk management: Display basic information of the hard disk or format the hard disk.



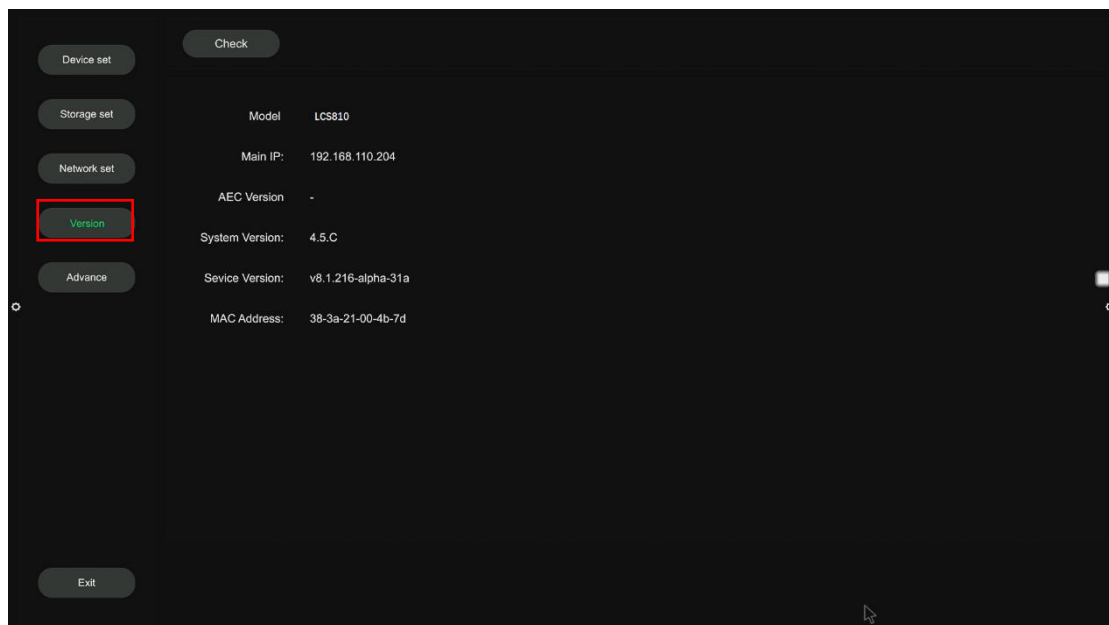
3.2.3.3. Network Set

This interface can be used to configure the LCS810's wired network and perform network detection.

Automatically obtain IP Address: After checking Enable, the LCS810 will automatically obtain IP Address, no manual setting is required.

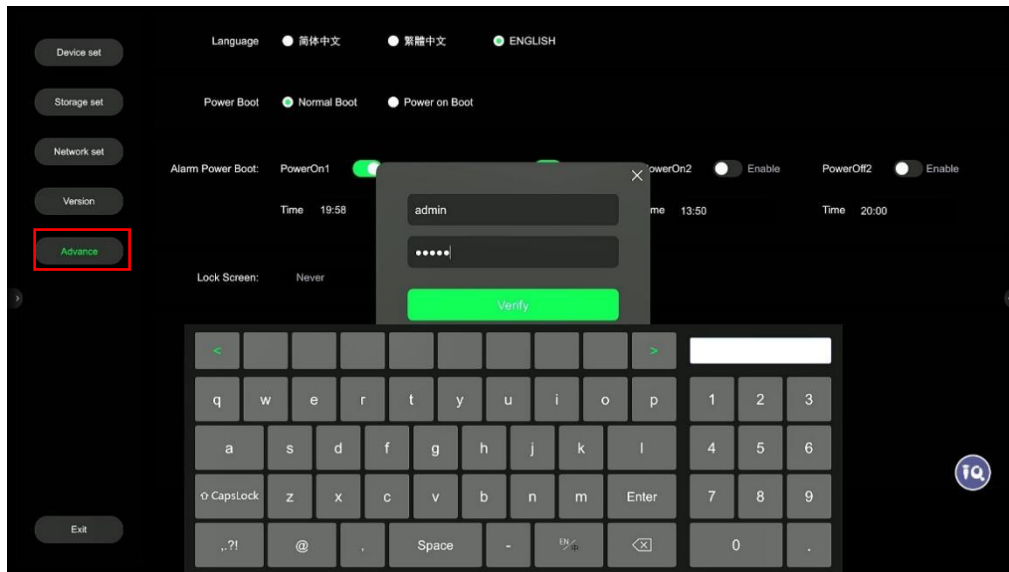
NOTE

The video station needs to be restarted for the network settings to take effect.



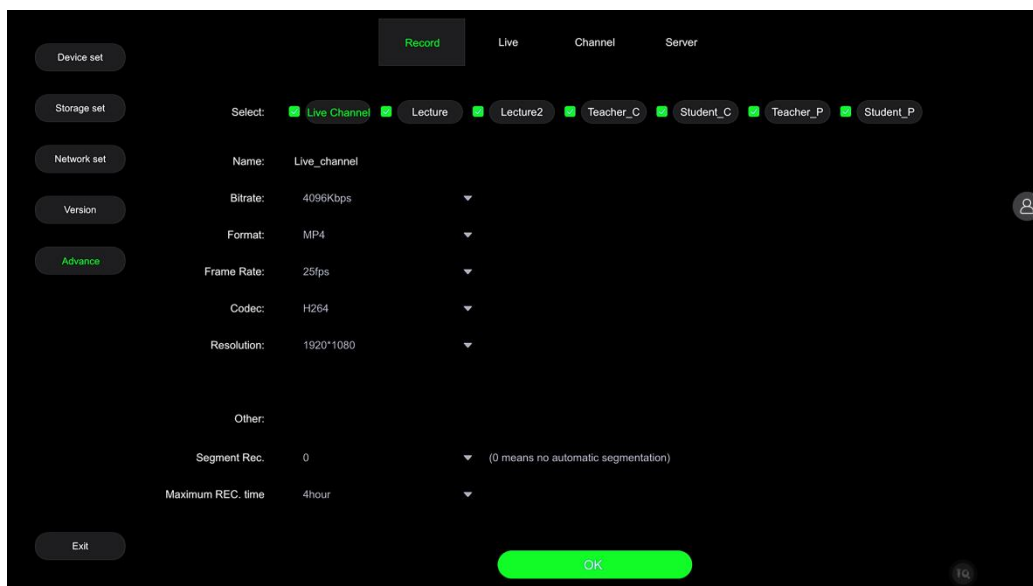
3.2.3.4. Version

You can view the recording and LCS810 version information, video station IP address, MAC address and other information.



3.2.3.5. Advance

Click Advance, and a pop-up window will appear asking you to enter your account and password. Account: admin, password: admin.

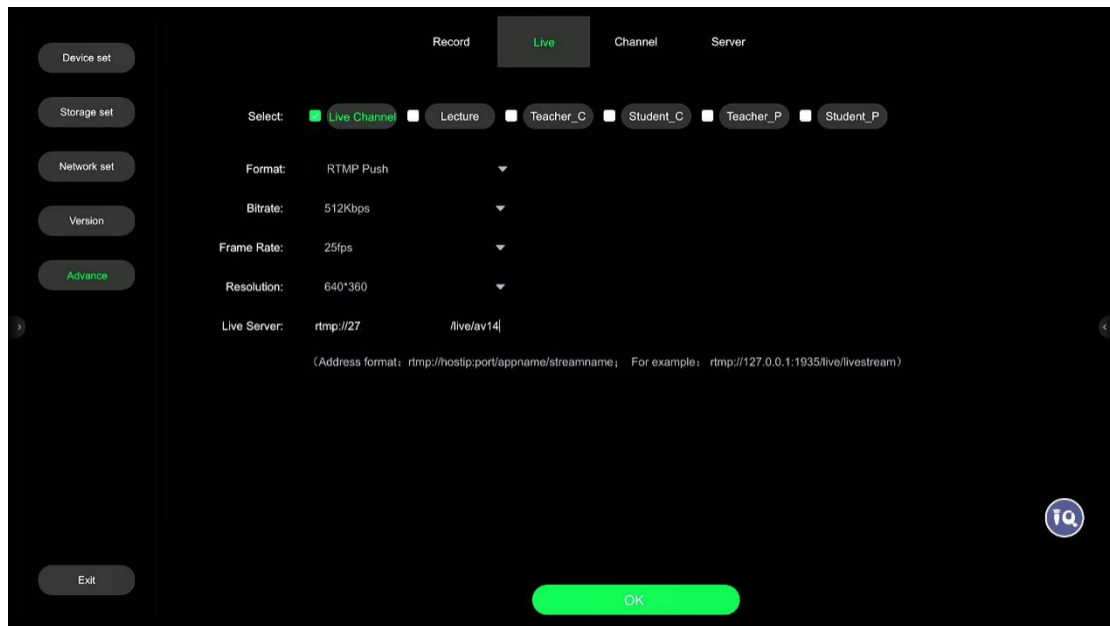


3.2.3.5.1. Record

This interface can be used to set the movie channel and all standby channels. Check the channel to determine whether it is to be recorded, and set parameters such as file name, encoding method, resolution,

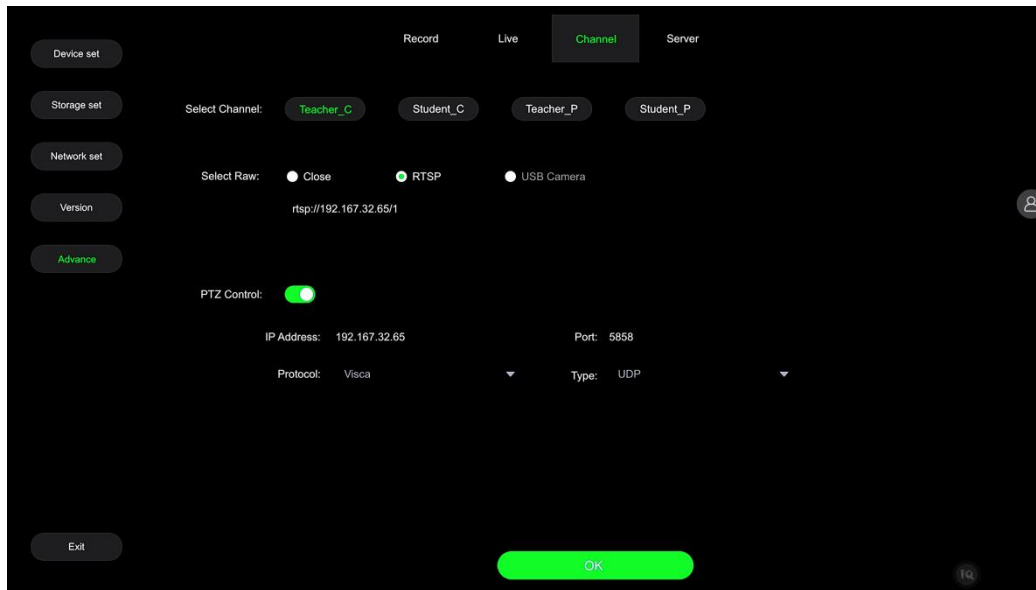


automatic segmentation time, single recording duration, etc. for each channel. After setting, click "OK" to finish.



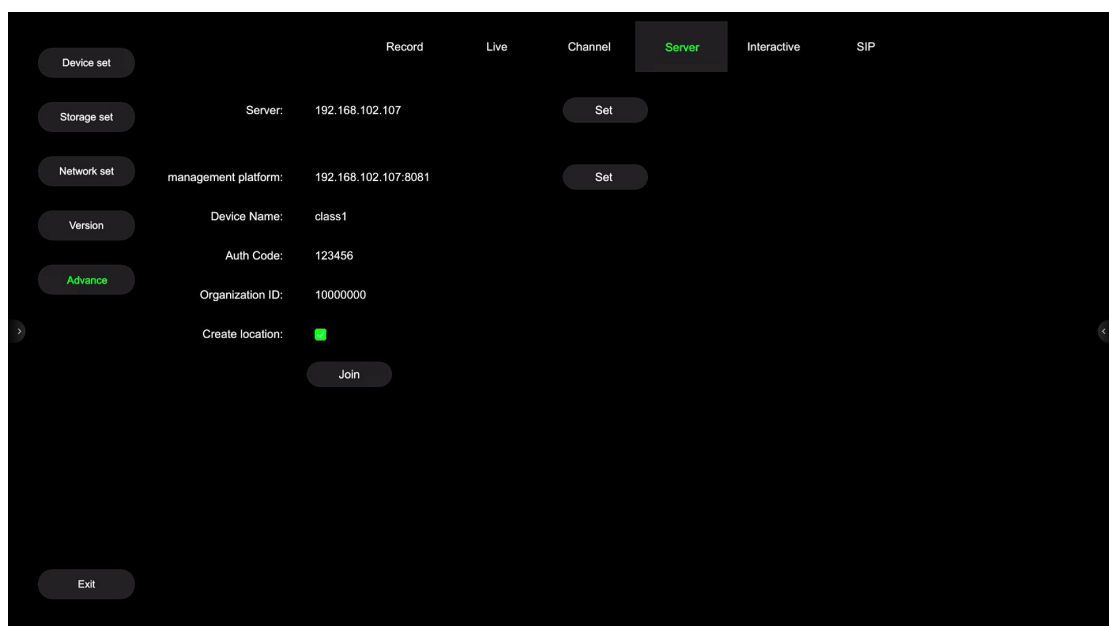
3.2.3.5.2. Live

This interface can be used to set live broadcast parameters for movie channels and all standby channels, including selecting the video channel to start live broadcast, the format, bit rate, resolution of live broadcast transmission, configuring the live broadcast server address and other parameters.



3.2.3.5.3. Channel

Select the video source for the camera video channel. Each channel can be set to close the video source, RTSP stream source, USB camera source. For RTSP stream of IP camera, you can set the stream address. PTZ camera can set PTZ control parameters, etc.

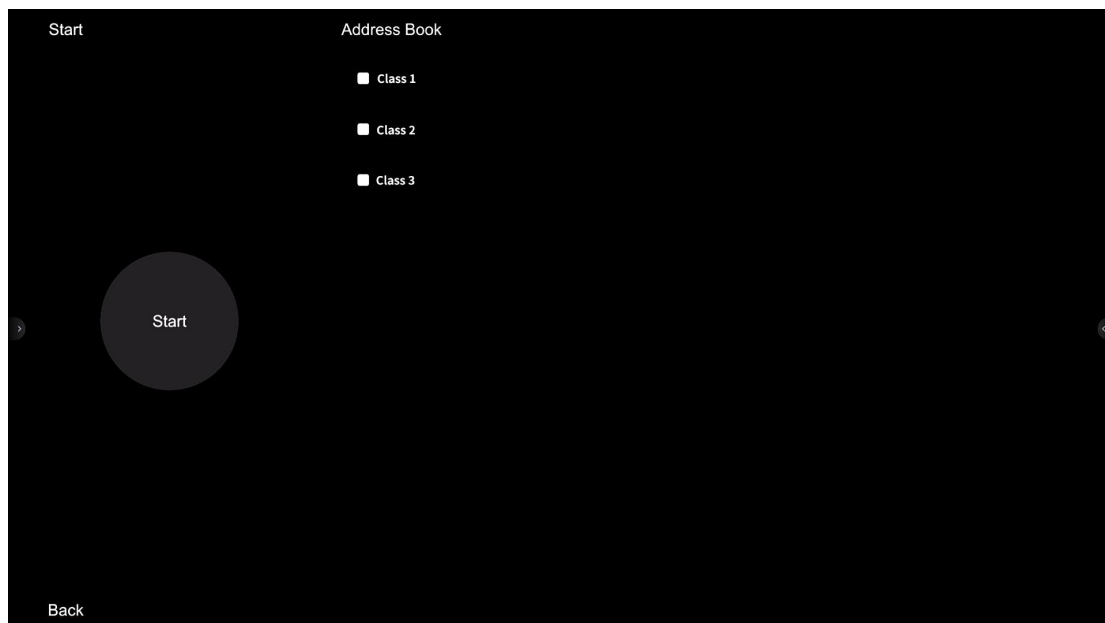


3.2.3.5.4. Server

Enter the IP address of the host LCS810 in the Server Address field. set it as the server, and click Set to confirm. **(The content of this document is based on how to use the LCS810 to achieve an interactive classroom within 10 parties in the local area network without setting up additional interactive server equipment).**

NOTE

In a LAN environment, the participants can fill in the IP address of the host LCS810 with port number 8081 in the management platform, such as: **192.168.3.98:8081**, click Set to confirm; you can modify the Device Name, and keep other settings as default, and click Join. Then the host can directly check the names of the participant device in the address book of the classroom startup interface to start the interactive classroom. As shown in the figure below.





3.2.3.5.5. Interactive

If you are the host LCS810, set the Creator parameters. The host can set the default output screen for the participants. When the participant uses dual screens, default output1 corresponds to HDMI OUT2 of the participant LCS810 (which can be switched to follow the host LCS810 screen) and default output2 corresponds to HDMI OUT1 of the participant LCS810.

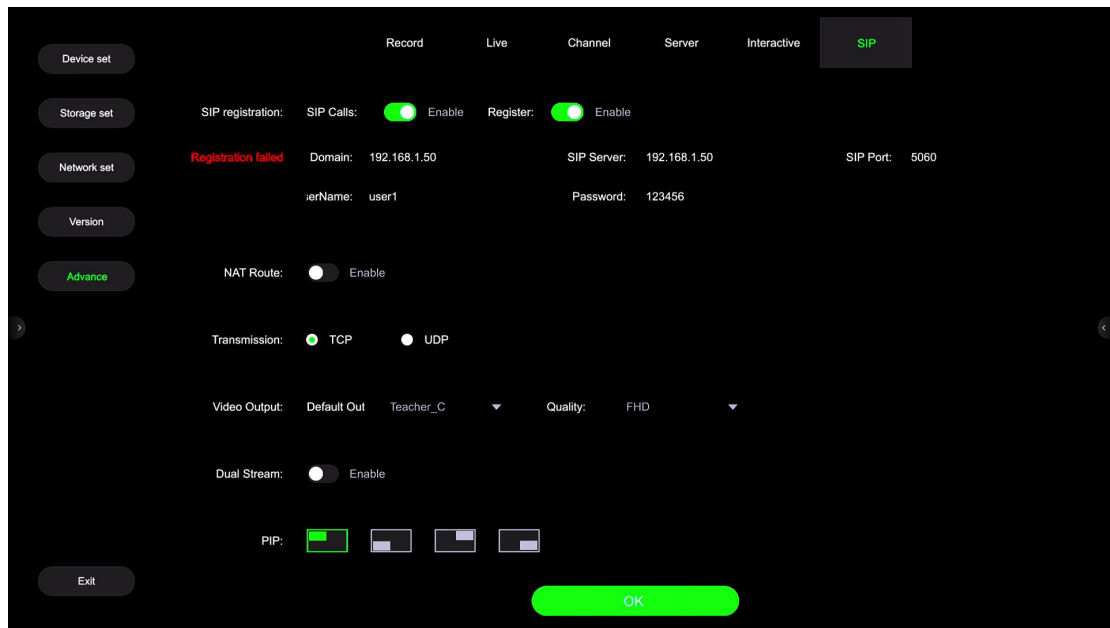
The host can set the maximum number of split screens to display interactive images: 4-Split screen or 9-Split screen: If you need to display in pages, you can set the automatic page turning time interval.

The host can set the number of microphones that are enabled at the same time on the participant side, whether the speaker's speech is displayed in full screen, and whether to display the local video screen.



NOTE

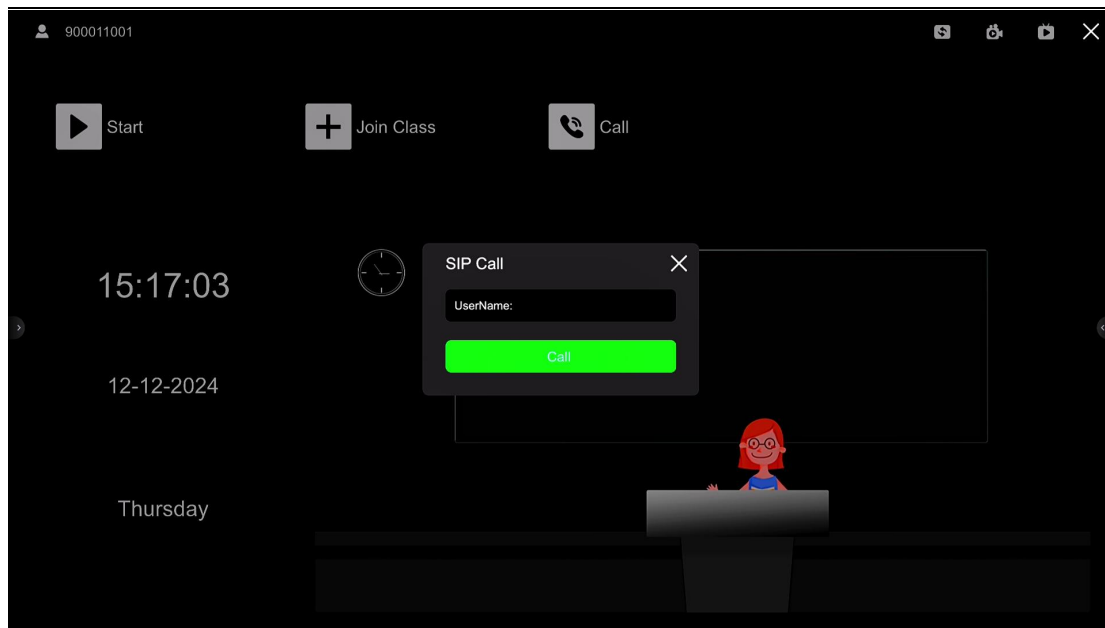
If your LCS810 is as a participant, set the Joiner parameters. The participant can set the default output screen and whether to display the local video screen.



3.2.3.5.6. SIP

This interface can set SIP interactive functions, including SIP server, transmission protocol, screen mode and other parameters.

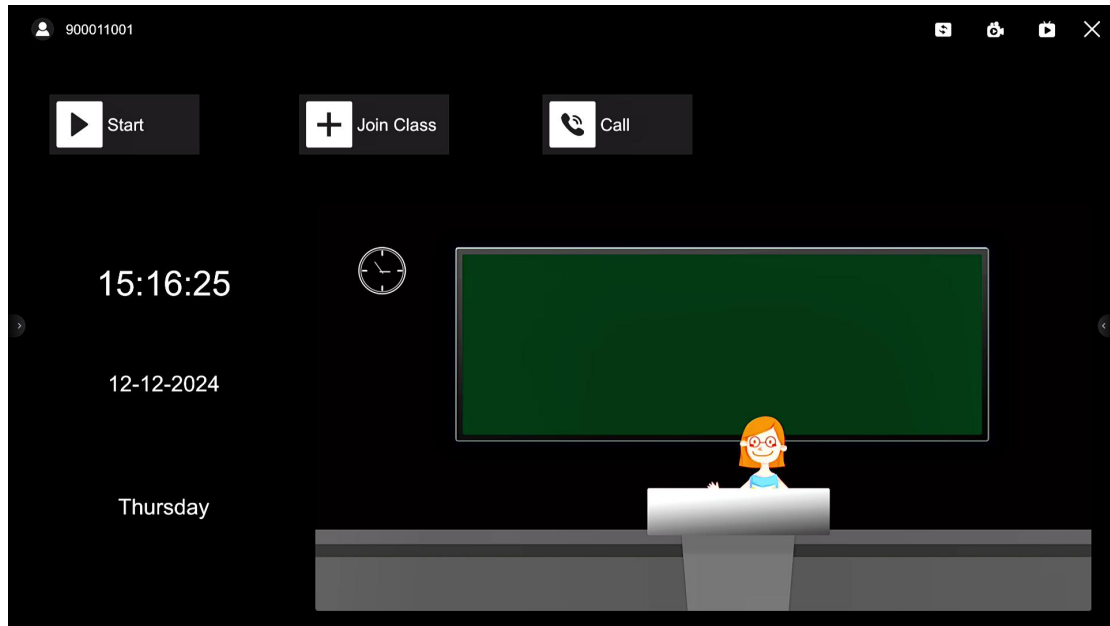
In a LAN environment, if a SIP server is not configured, keep the current factory default settings unchanged, and users can directly call each other to open the interactive classroom through the IP addresses of other LCS810s on the LAN. As shown in the figure below.






3.2.4. Use of interactive features



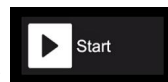
On the main interface of the LCS810, click "Interactive" to enter the interactive classroom page, as shown in the figure below.

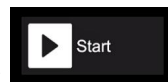


Click the small icon in the upper right corner  , you can enter the loopback test. The loopback test is mainly to detect whether the sound collection and sound playback functions of the LCS810 are normal; if you can see the local image and hear the local microphone sound, the test is normal.

There are two other small icons in the upper right corner  and  , which are the buttons for starting recording and starting live broadcast respectively. Pressing these two buttons will start the course video recording and live broadcast while the interactive classroom is opened.

3.2.4.1. Start interactive classroom



The speaker can click  Enter the interface shown in the figure below. If the address book page shows the currently available accounts, you can select the user as the participants, and then click the "Start" button in the figure to directly start the interactive classroom.



NOTE

The address book account information prompts are as follows:

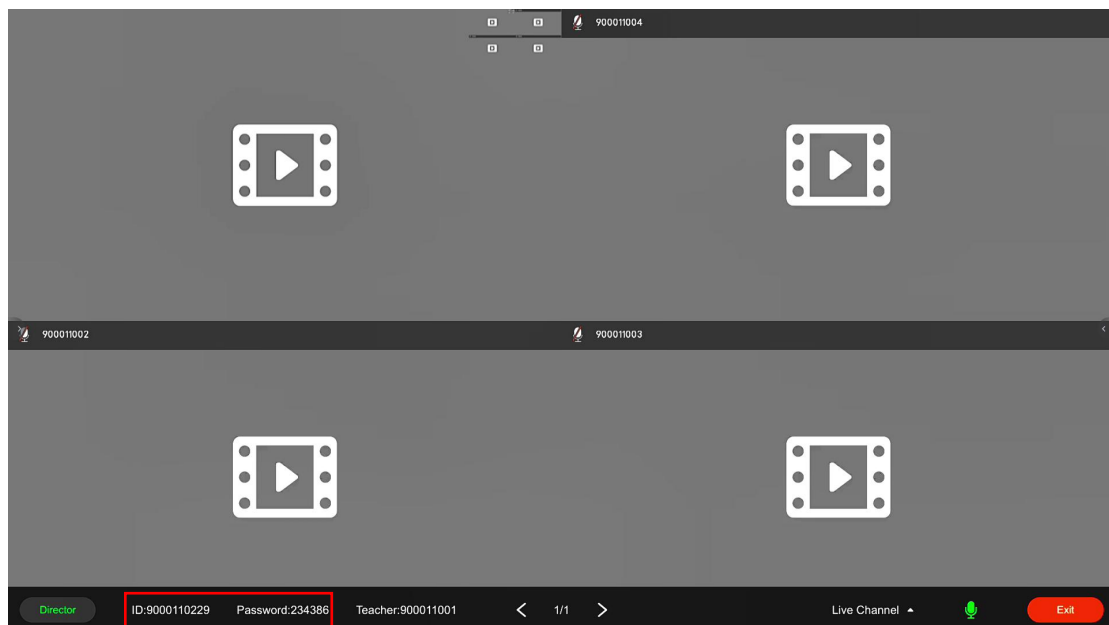
The account is displayed in green, which means it is online and can be

called and interacted with normally.

The account is displayed in red, indicating that the line is busy and in interaction.

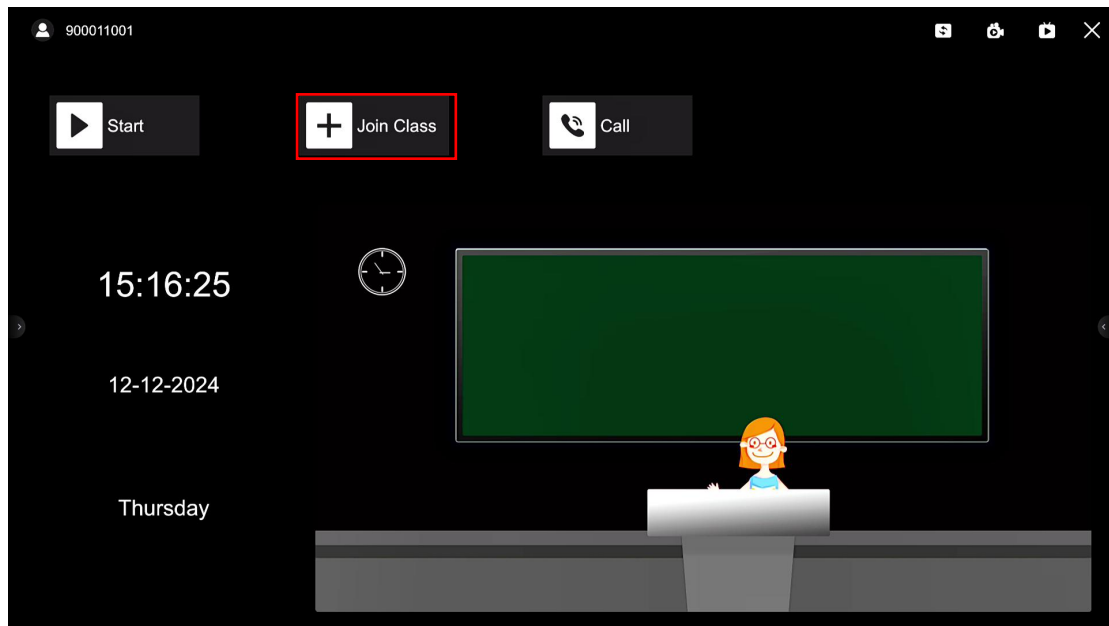
The account is gray, which means that the interaction cannot be started when the account is offline.

If there are no available users on the address book page, just click "Start" to enter the following page.



Provide the class ID and password shown in the above picture to the participant, and let him join the class through the following steps. The class ID can be issued to multiple participants. Without setting up a server, it can support classroom interaction within 10 parties in a LAN environment; if a server is set up, it can support up to 108 parties to interact.

3.2.4.2. Join the interactive class



Participants can click "Join Class" to enter the interactive classroom, as shown in the following figure.

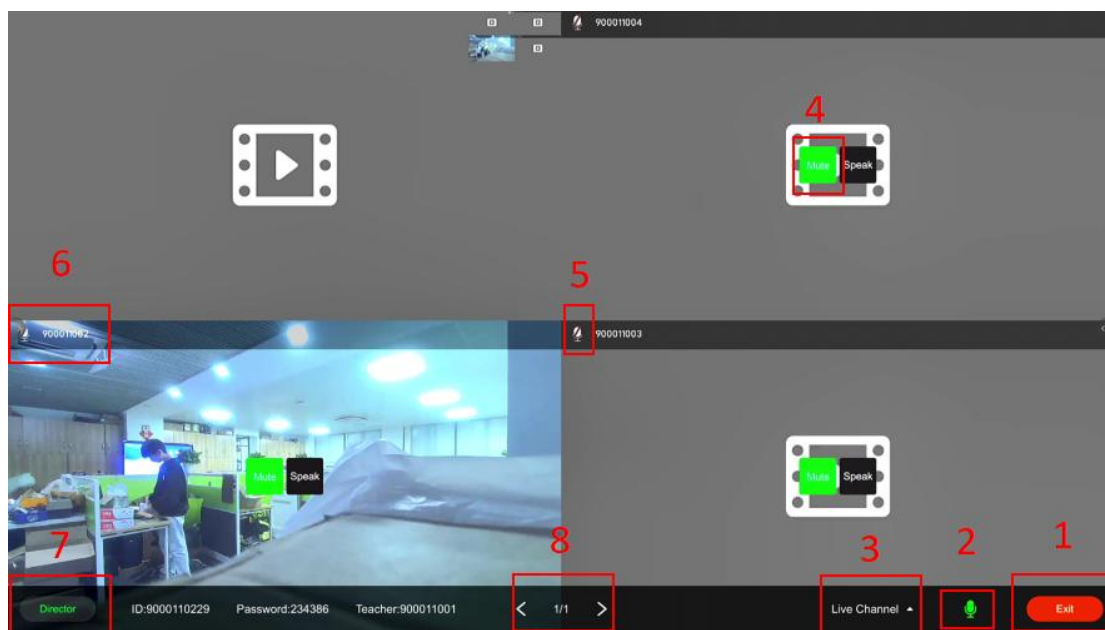


Fill in the information provided by the host in the ID and password above, click "join class" to start the interactive class.

3.2.4.3. Specific examples of multi-party interaction

The following figure will explain in detail the 1-to-4 five-party interactive screen.

If the host is A and the participants are B, C, D, and E, after all four participants join the interaction, the screen that host A sees is as follows:



Description of 1-8 buttons:

1---Click to end the current interaction.

2---Click to mute the microphone of speaker A.

3---Click to set which image to send to the four participants.

4---Click to mute the microphone of this participant and the microphone icon in the upper left corner will show the mute status.

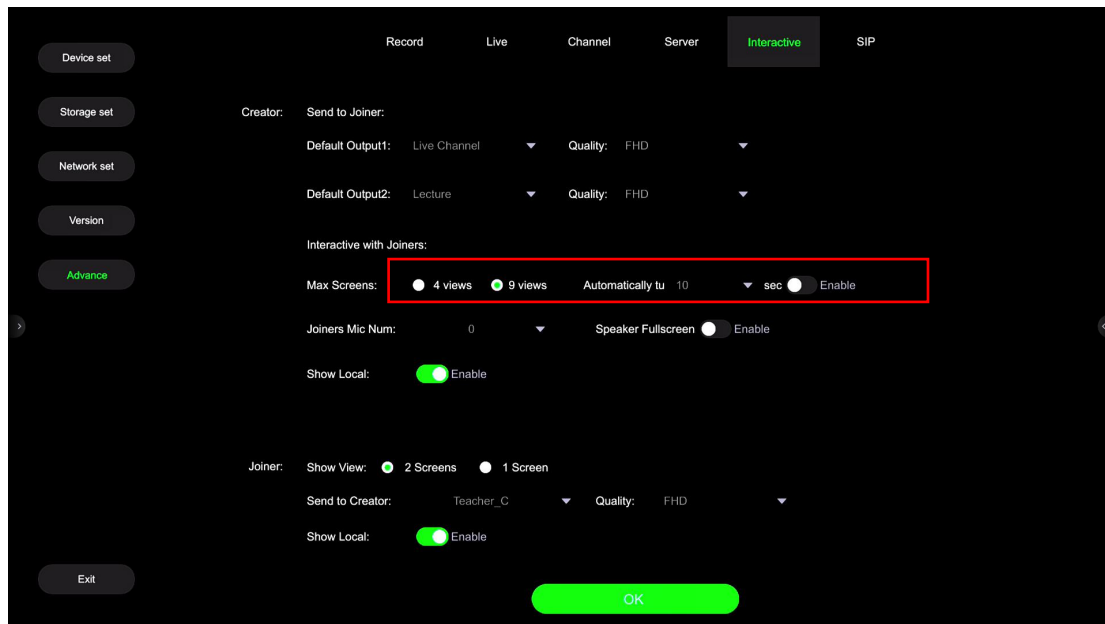
5---Click to allow this participant to speak and the microphone icon in the upper left corner will show the speaking status.

6---The name of the current participant can be displayed in the upper left corner of the video window.

7---Click to return to the recording and broadcasting director interface, and click Interaction to enter the interactive interface again.

8---Currently, a single interactive page can display up to 9 interactive images (a nine-square grid). If the number exceeds this, you need to turn the page to display;

The specific settings are as follows:



Screen display and sound description:

When host A does not allow any participant to speak, the screens of all parties display the following:

Host A can see the images of the four participants (BCDE) and hear the audio;

The four participants display the single screen of host A and can hear the audio;

NOTE

How many participants can the host hear depends on how many participant microphones are enabled by default on the host side.

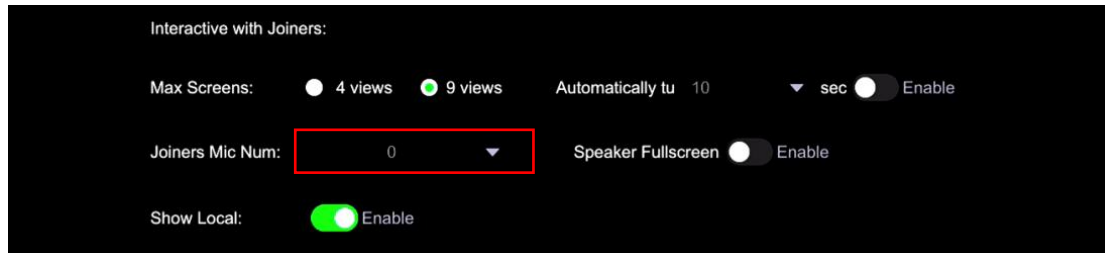
The method for setting the default number of microphones to be turned on is as follows:

A maximum of 4 can be opened at the same time, and the minimum is 0;

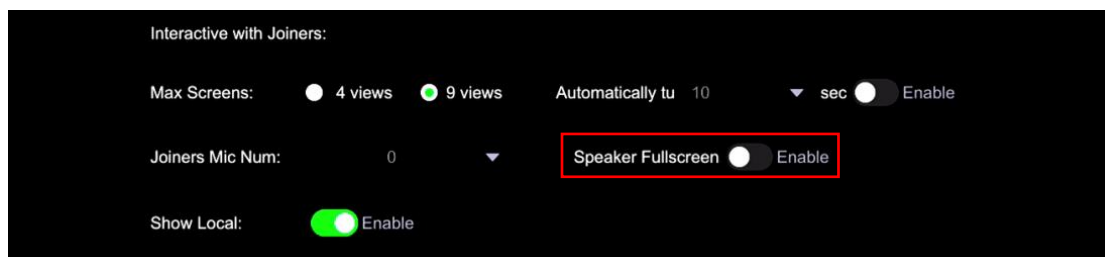
If the setting is 0, then after the interaction begins, the host will not hear



any of the participants unless they are allowed to speak;



When the host A lets one of the participants B speak, the screen display of each party will be as follows according to the host's screen settings for the speaker (as shown below) (if the host turns on 4 participant microphones by default, the other three need to be turned off, leaving only B to speak):



Case 1: The speaker's full screen is turned off on the host side:

Then

Host A sees the images of participant BCDE, the border of participant B is green, and he can hear B's voice.

Participant B sees the dual-screen images of host A and himself and can hear their voice;

The rest participants CDE who are not speaking all see the dual screens of A and B and can hear their voices;

Case 2: The speaker's full screen is turned on on the host side:

Then

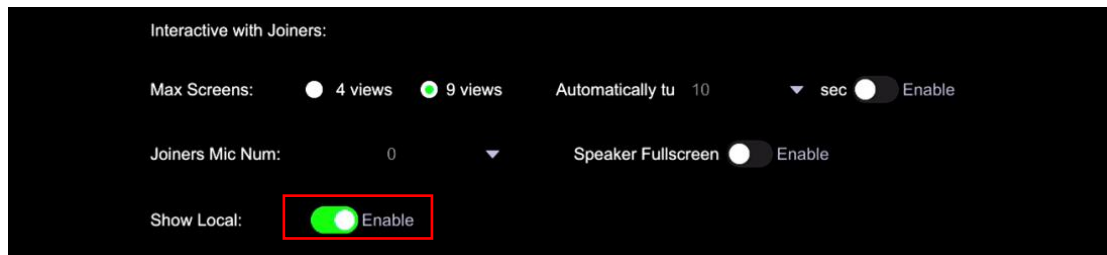
Host A sees the single large screen of participant B and can hear B's voice.

Participant B sees the dual-screen images of host A and himself and can hear their voice;

The rest participants CDE who are not speaking all see the dual screens of A and B and can hear their voices;

NOTE

If B is speaking and the host A wants to mute B, he needs to first turn off B's speech and then click B's mute button. Otherwise, the message "Mute failed" will be displayed.

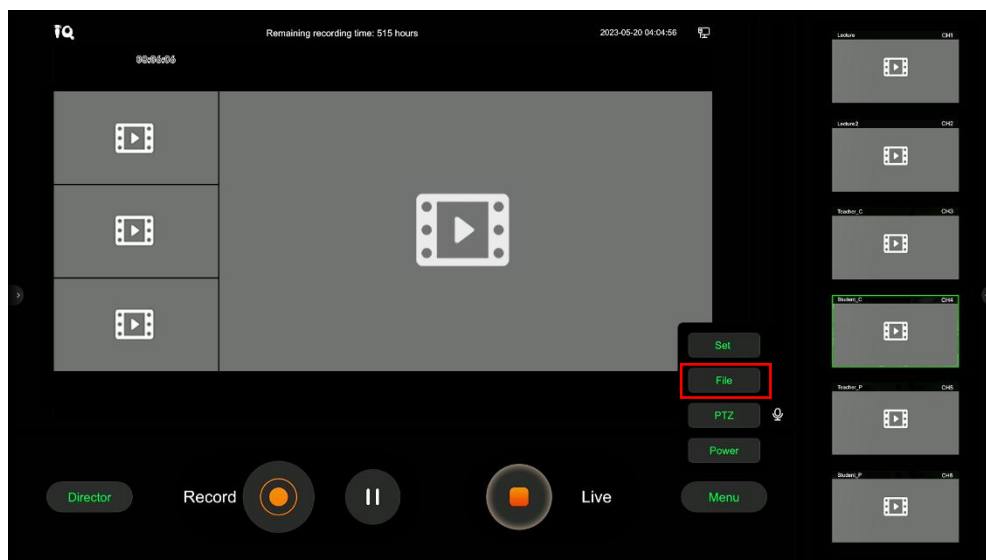


Display local video settings

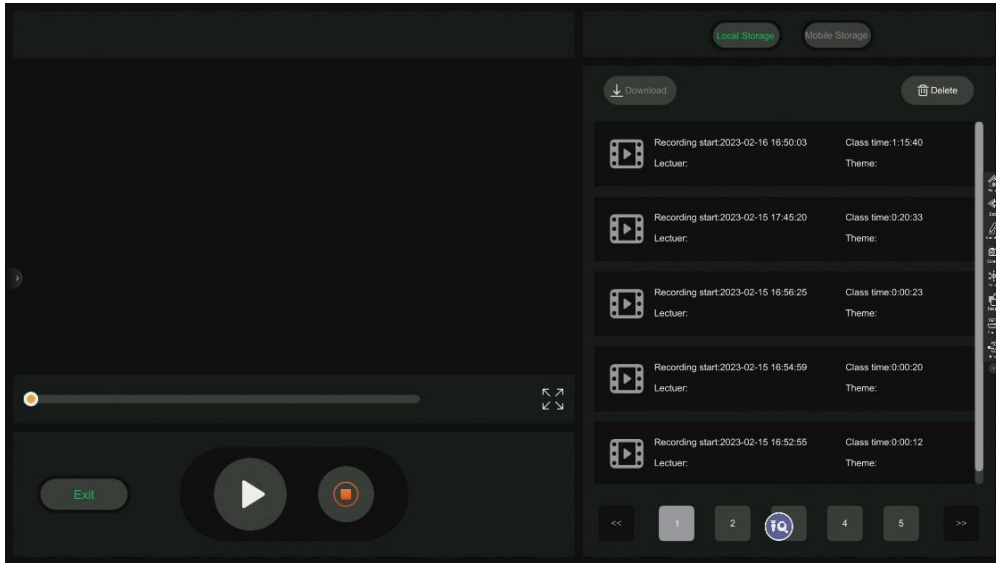
On: Display your own screen locally when interacting

Close: Do not display your own screen locally during interaction

3.2.5. File Management



Click "Menu" and select "File" to enter the file management interface, as shown in the figure below.

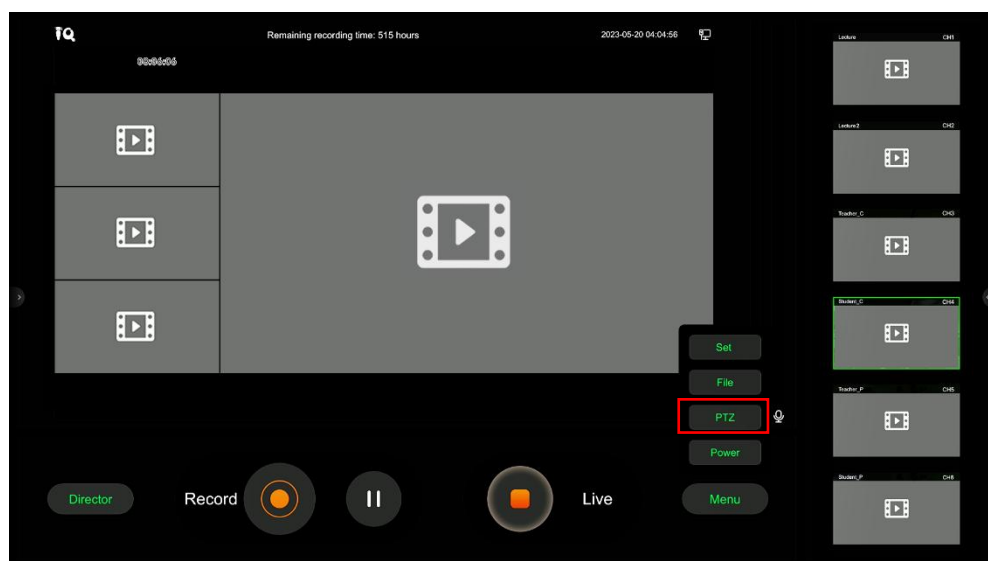


On this interface, you can play back/delete/copy the recorded files of the LCS810 to U disk. It supports full-screen video playback. If the display supports HDMI audio output, the sound will be output at the same time during playback. Otherwise the video station LINE-OUT needs to be connected to speakers.

NOTE

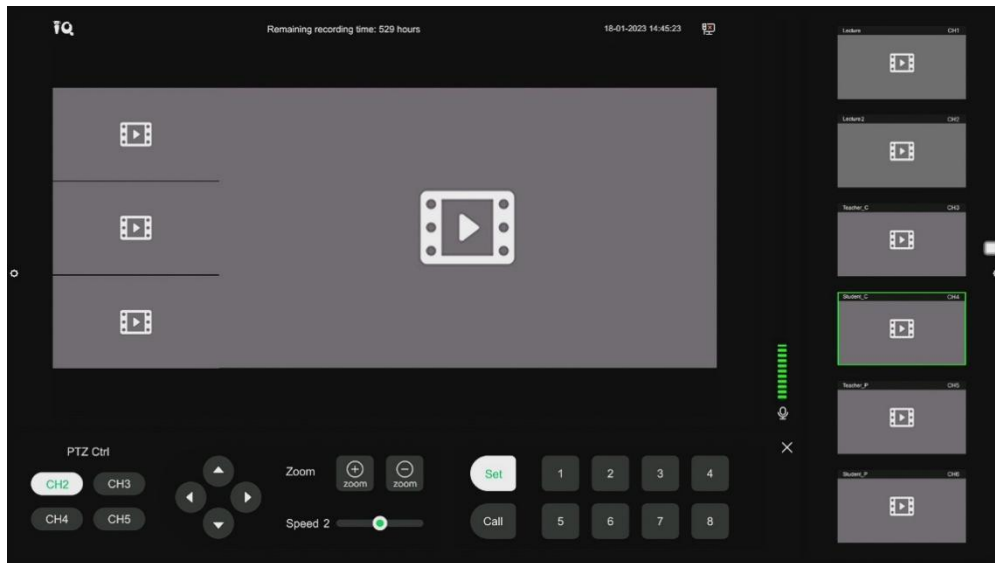
“Mobile Storage” will only be highlighted after the mobile storage hard disk is inserted. Select the file to be downloaded and click "Download".

3.2.6. PTZ Camera Control Interface



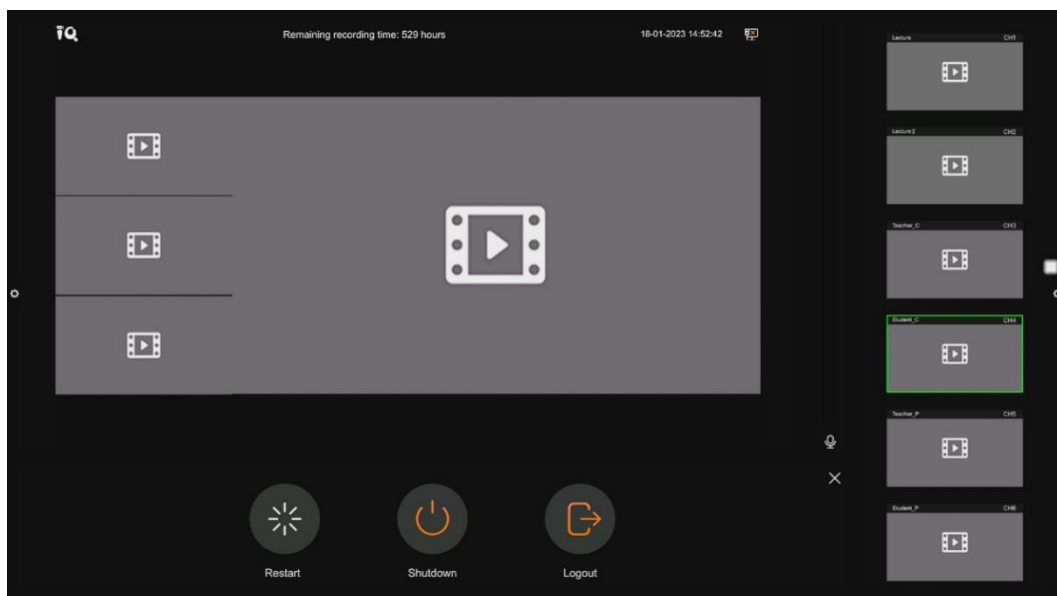
Click "Menu" and select "PTZ" to enter the PTZ camera control interface, as

shown below.



When the director mode is switched to "manual" mode, the director can set and activate preset positions for PTZ cameras of different channels through the PTZ Control area, as well as to perform operations such as zooming in and out.

3.2.7. Power Control Interface



On this interface, you can restart/shutdown/log out the LCS810. Log out will exit to the LCS810 login interface.



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