

User Guide **Practical** **Training** **Recording &** **Broadcasting** **System**



www.weonex.com

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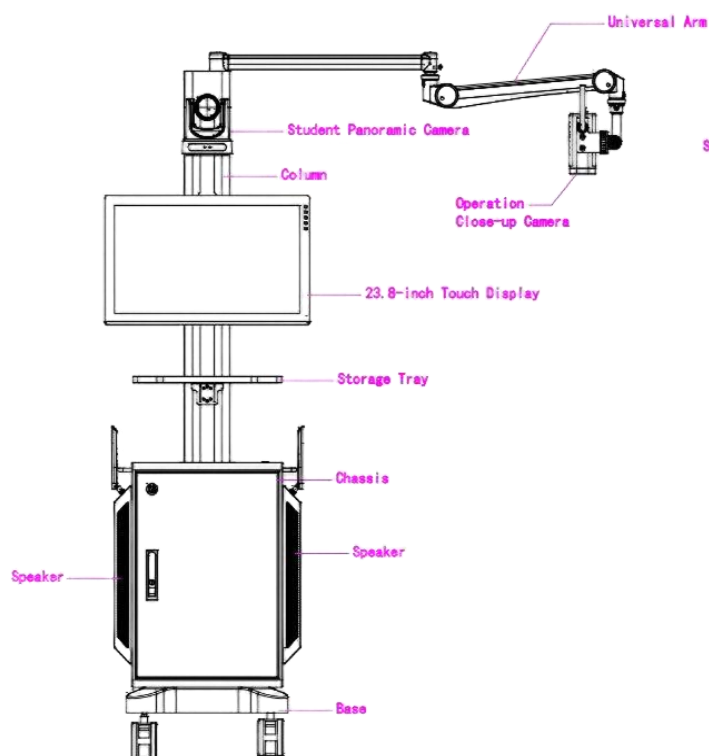
I . Homepage and Login

1.1 Overview

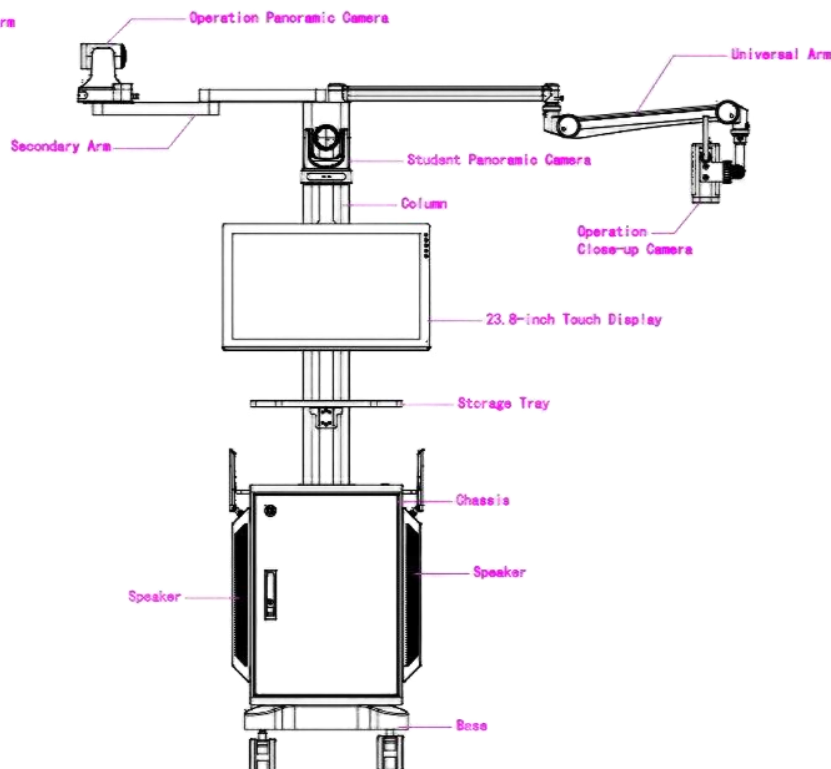
Mobile Practical Training Recording & Broadcasting Cart is available in two configurations: Single-Arm(WX-MCP101) and Dual-Arm(WX-MCP102).

Both models are equipped with the same software system.

Model: WX-MCP101



Model: WX-MCP102



Universal Arm

Featuring a three-section design, the universal arm is fixed to the top of the training cart's main body. The first section allows horizontal movement, while the second enables vertical adjustment. A camera can be securely mounted at the front end of the arm assembly. With full mobility in both horizontal and vertical directions, the



arm facilitates camera positioning for capturing shots from various angles and positions.

Secondary Arm

Featuring a two-section design, the secondary arm is fixed to the top of the training cart's main body. A camera is securely mounted at the front end of the arm, and the entire assembly offers horizontal mobility to capture shots from various positions and angles.

Central Column

Constructed from high-strength aluminum profile, the central column features a scratch-resistant powder-coated finish. T-slots are integrated on both the front and rear sides, with concealed cable routing holes pre-installed to facilitate the mounting of accessories such as camera brackets, display stands, and storage trays.

Storage Tray

The storage tray is capable of supporting a certain weight of items. Equipped with a built-in push-pull handle, it allows for easy maneuvering of the training cart.

Storage Cabinet

Featuring an extra-large capacity design with overall dimensions of 430x620x410mm(W*H*D).

- (1) A power status window is integrated on the top of the cabinet, displaying key parameters such as remaining battery power, estimated operating time, and output power.
- (2) A power switch button is located on the cabinet top: a short press shows the remaining battery level; a long press (3 seconds) powers on the entire device, and another long press (3 seconds) shuts it down.
- (3) Concealed speaker enclosures are built into both sides of the cabinet, housing a pair of 20W speakers. Combined with the integrated power amplifier and wireless microphone, it enables real-time sound amplification.
- (4) Equipped with a removable battery design for easy replacement, enhancing the overall battery life.
- (5) The bottom of the cabinet adopts a four-corner welded structure with overall dimensions of 460x460mm(L*W). It is fitted with four medical-grade silent casters, each equipped with a foot brake.

1.2 Homepage

Homepage. It displays information such as *behavior analysis, permanent courses,*



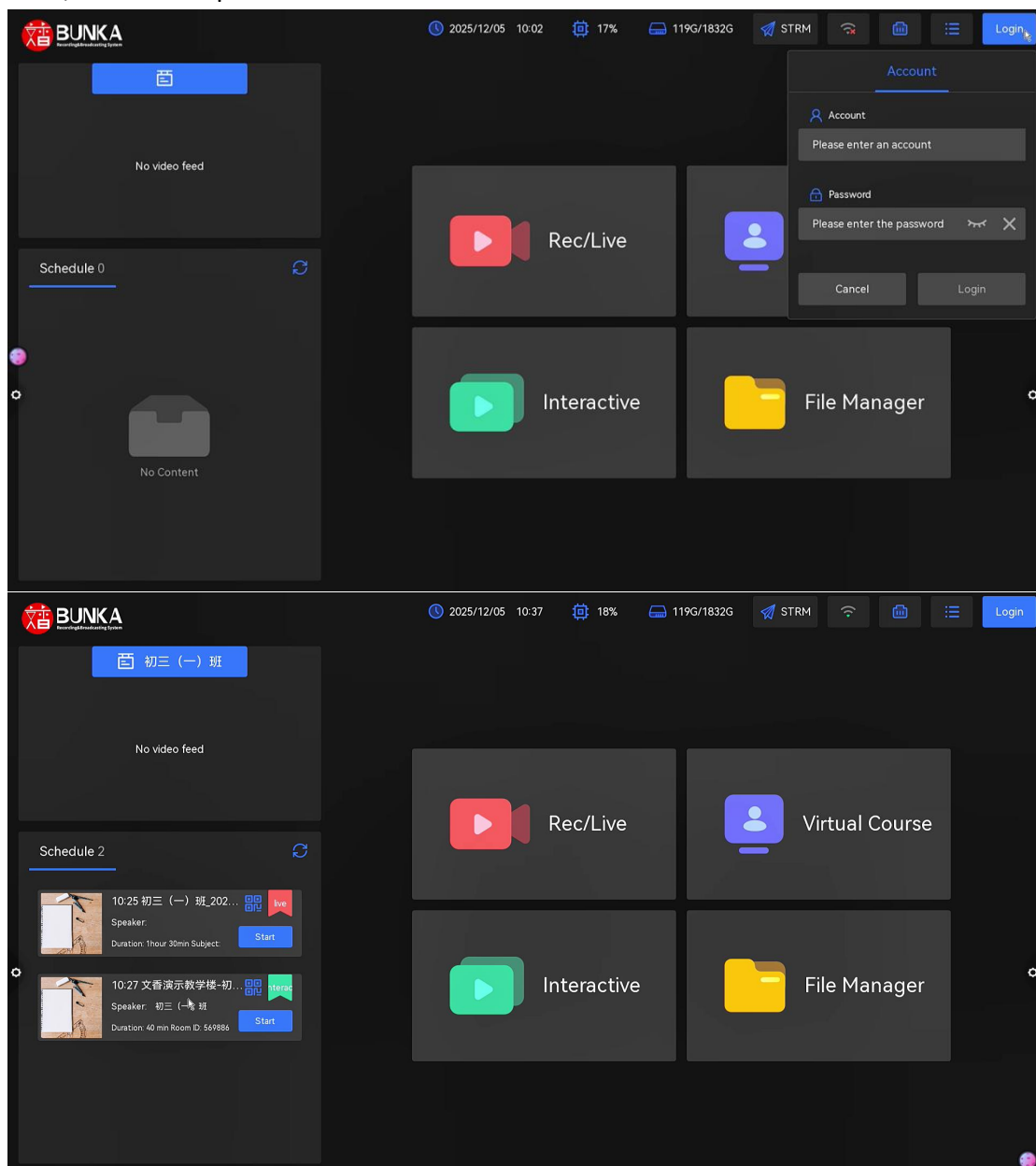
schedule, recording/live stream, virtual course, remote interaction, file manager.

Tap **[Login]** in the top-right corner to enter account and password. Access **Settings, Detection, Reboot and shutdown** via the **More** menu.

Permanent Courses. It shows the permanent courses stored on the local device and those shared by other connected devices.

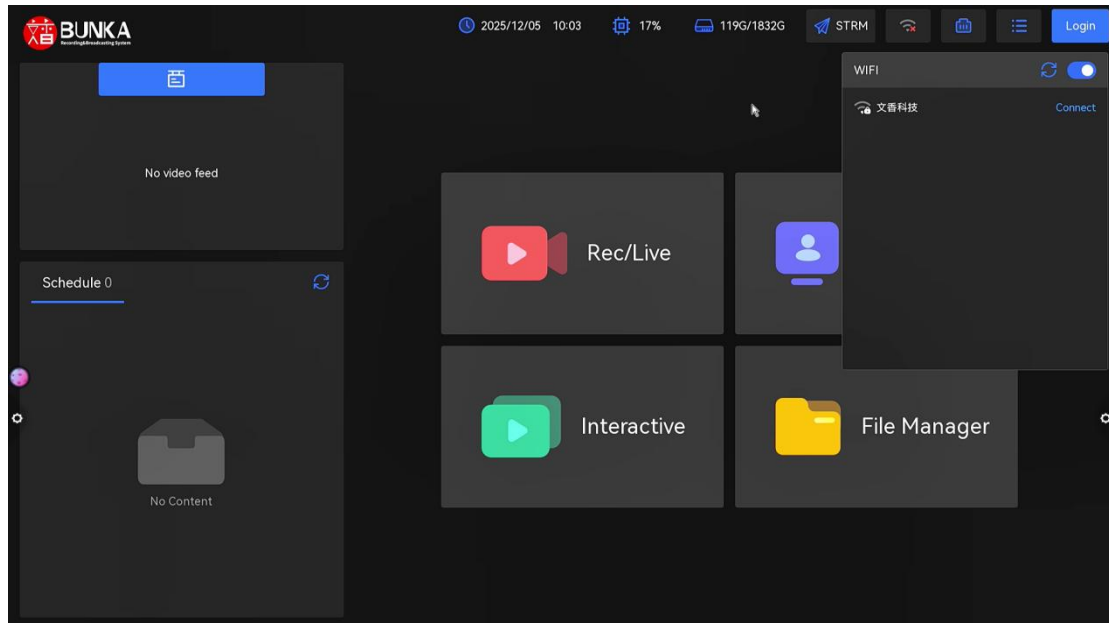
Schedule. It displays information about scheduled activities created on the local device, such as live-streaming, virtual courses, and interaction. Also tap **[Join Class]** to enter the activity page directly.

Behaviour Analysis. It provides real-time statistics on participant count, hand raises, and standing instances, along with waveform charts for engagement rate, activity level, and head-up rate.



1.3 WiFi

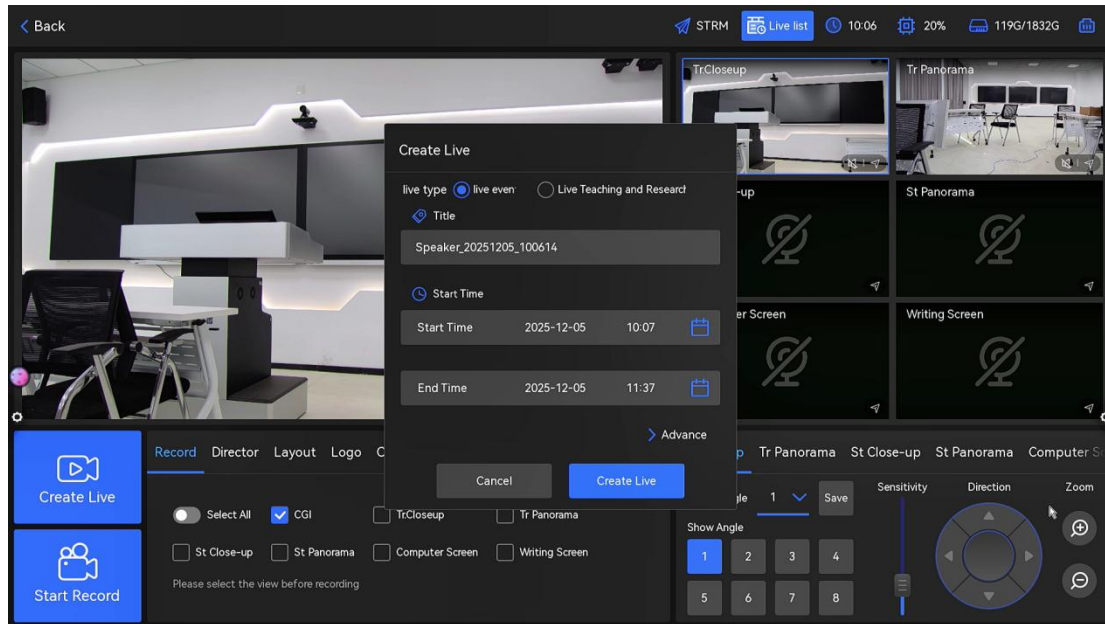
Tap the **WiFi** icon at the top to connect to or disconnect from a WiFi network.



II. Live Stream/Recording

2.1 Create a Live Stream

Tap **[Rec/Live]** to enter the live-streaming page. It displays 1 combined output feed and 6 video sources feed. Simply drag any of the 6 video sources to the combined feed to switch between them in real time.



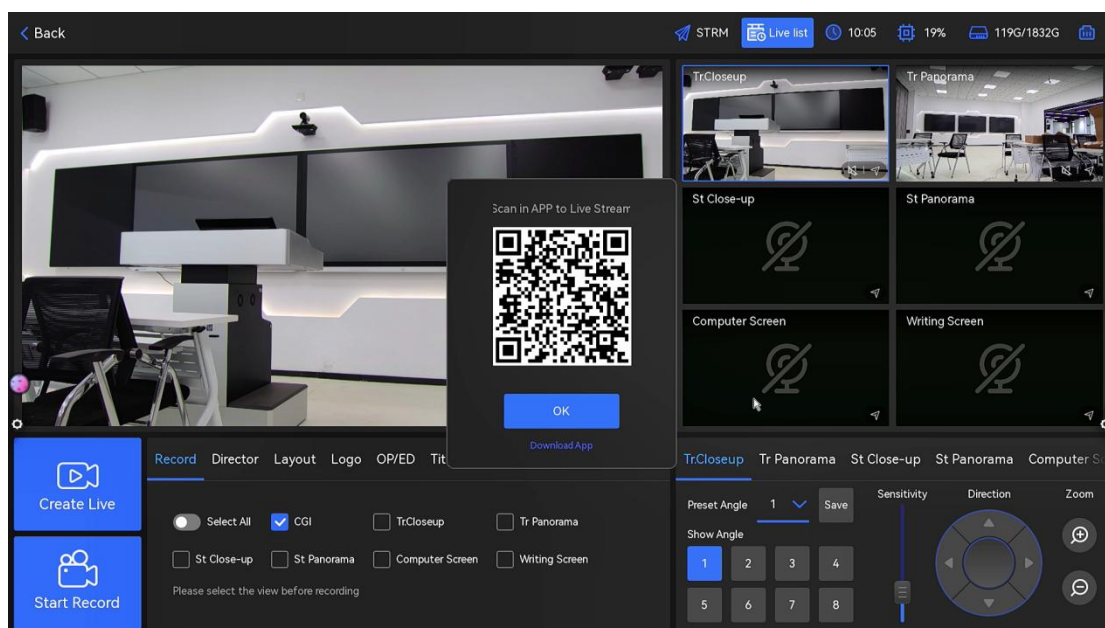
Start a Live Stream. After creating a live stream, tap the **[Create Live]** button displayed in the bottom-left corner, or access the same option from the live stream list at the top-right corner.

End a Live Stream. Once the live stream starts, tap the **[End Live]** button in the bottom-left corner to stop it.

Starting Recording. Tap **[Start Record]** to initiate automatic recording.

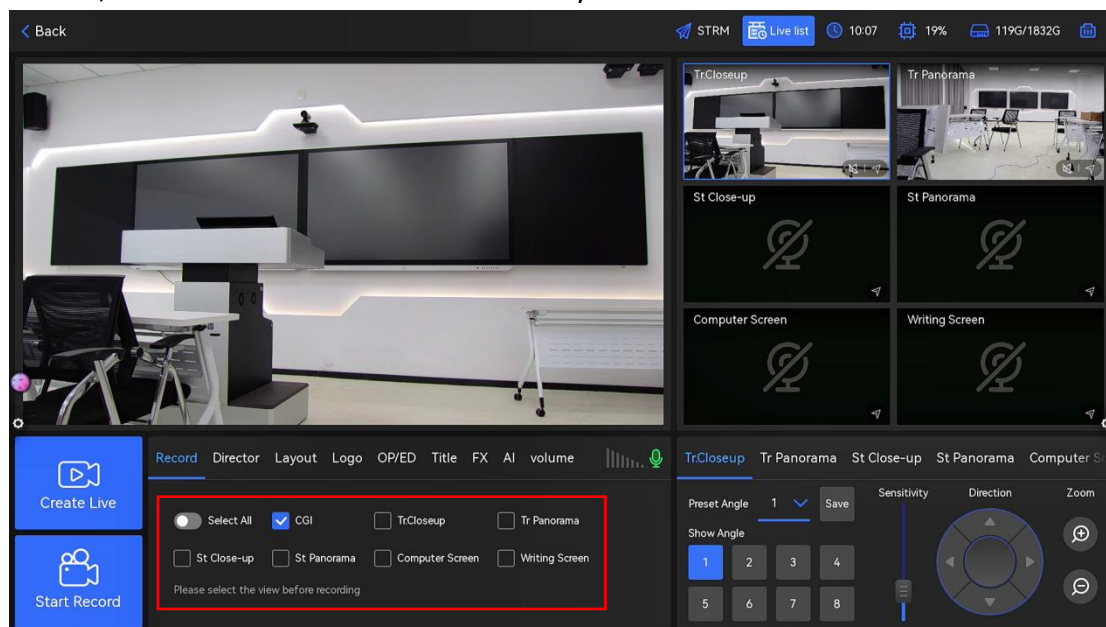
Ending Recording. Once recording starts, tap the **[Stop Recording]** button to end the recording—recorded file will be automatically saved in the File Manger on the homepage.

Sharing a Live Stream. Tap **[Share Live Stream]** at the top, then scan the QR code to view the live stream.



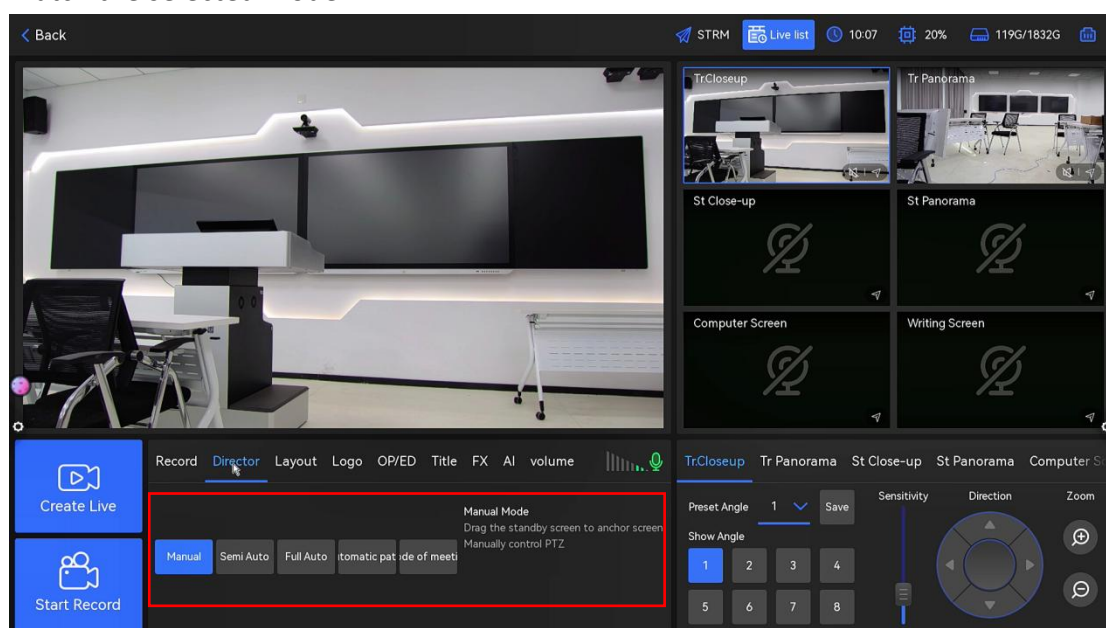
2.2 Recording Settings

Tap **[Record]** to access the stream selection interface—select the desired video stream, and it will be recorded automatically.



2.3 Director Settings

Tap **[Director]** to select from four modes: Manual, Semi-Auto, Full Auto, and Automatic patrol. The PTZ control panel on the right will update dynamically to match the selected mode.



Manual. Manually adjust the camera's shooting angle and the playback frame—only the Manual mode supports the preset position function.

Semi-Auto. When enabled, the camera actively detects and tracks human subjects. Camera adjustments are disabled, but users can switch between playback feeds.

Full Auto. When enabled, the camera actively detects and tracks human subjects—manual camera adjustments are locked, and you cannot select the output feed for display.

Automatic patrol. When enabled, the camera actively detects and tracks human subjects—manual camera adjustments are locked, and playback feeds will automatically cycle through without manual switching.

Meeting Mode. Requires a connection to a conference host. Preset positions can be configured in the system settings.

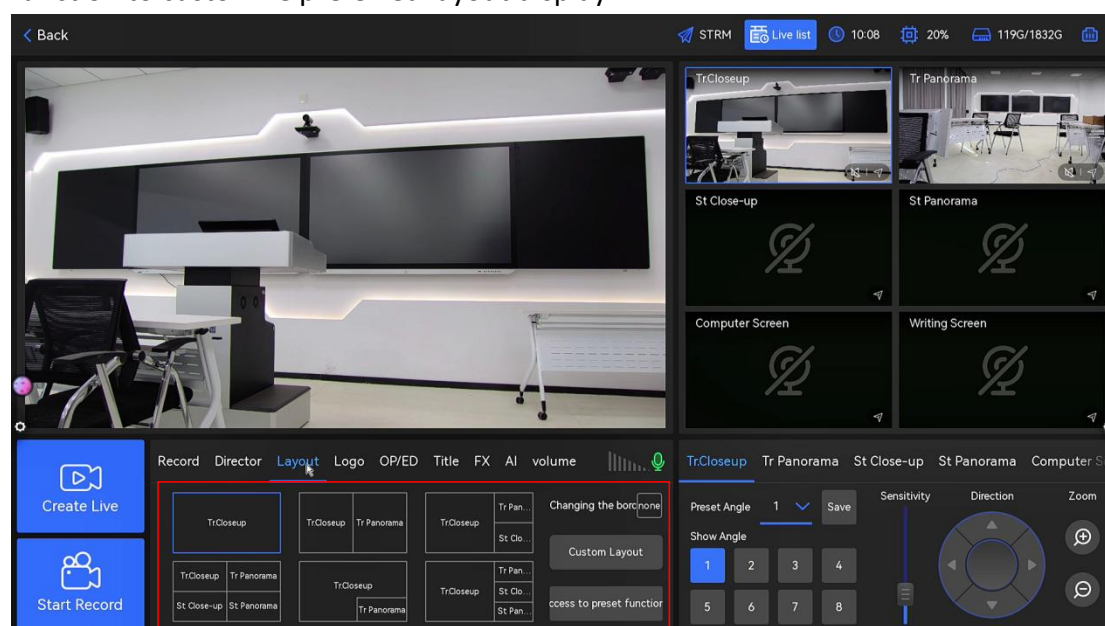
Preset Position Instructions

(1) Saving Presets. Select a number from 1 to 8, manually adjust the camera angle, and tap Save once adjustments are complete. Repeat this process to set up to eight preset positions.

(2) Using Presets. Tap a preset number— the camera will automatically pan to the corresponding preset angle.

2.4 Layout

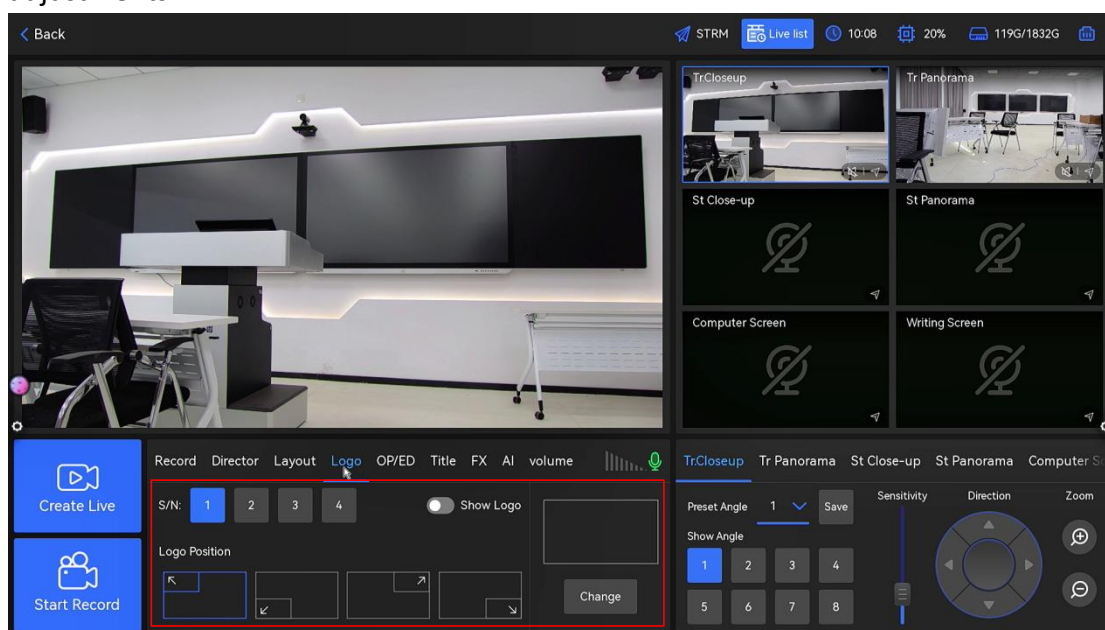
Tap **[Layout]** to switch between 6 combined layout options. Access the Preset function to customize preferred layout display.



2.5 LOGO

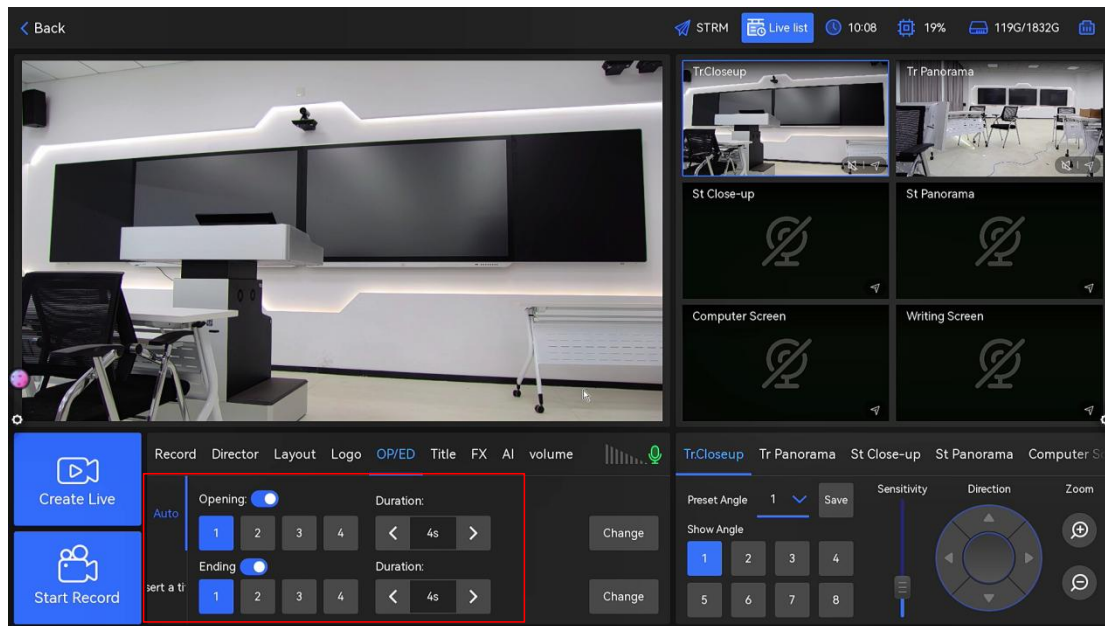
Uploading images via a USB drive, tap Logo > **[Change]** to upload desired image. Enable **Show Logo** toggle—the logo will auto-overlay on the combined feed, and users can drag it manually to adjust position and size.

The system supports up to 4 concurrent station logos (each can be unique). Users can either customize their positions or use the 4 preset default positions for quick adjustments.



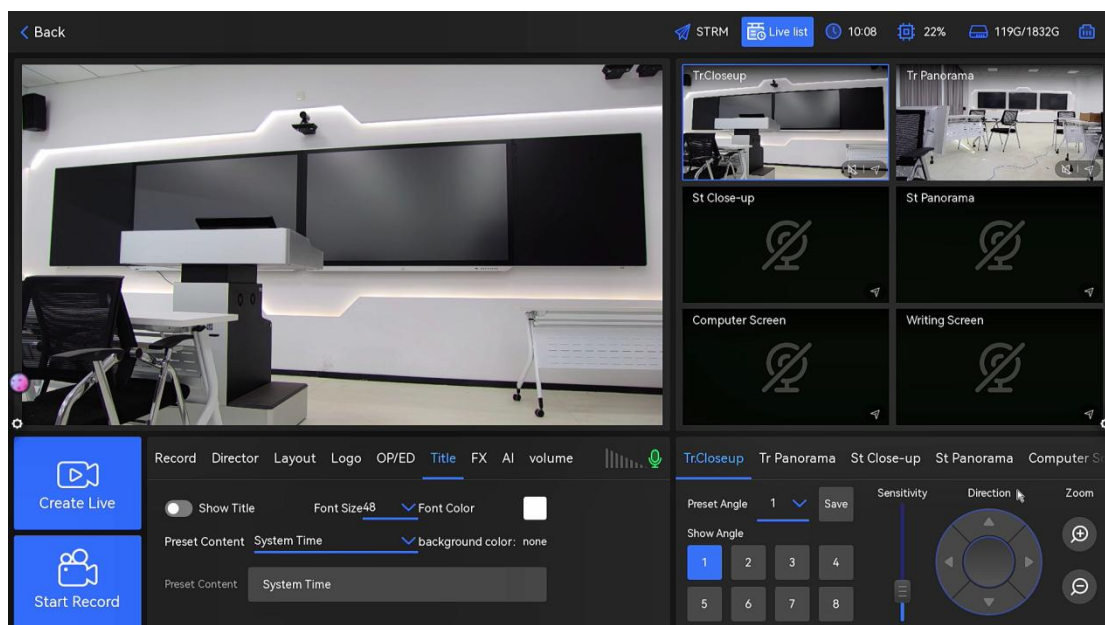
2.6 Opening&Closing Credits

After uploading images via a USB drive, tap **[OP/ED]** > **[Change]** to upload files. Set the duration and enable/disable the feature—once recording starts, the opening and closing credits will be automatically inserted for the specified length of time.



Tap **[OP/ED]** > **[Insert]** > **[Change]** to upload your image. Once recording starts, tap **[Insert]** at any point to automatically insert the image—tap **[Stop Insert]** to end the insertion.

2.7 Titles



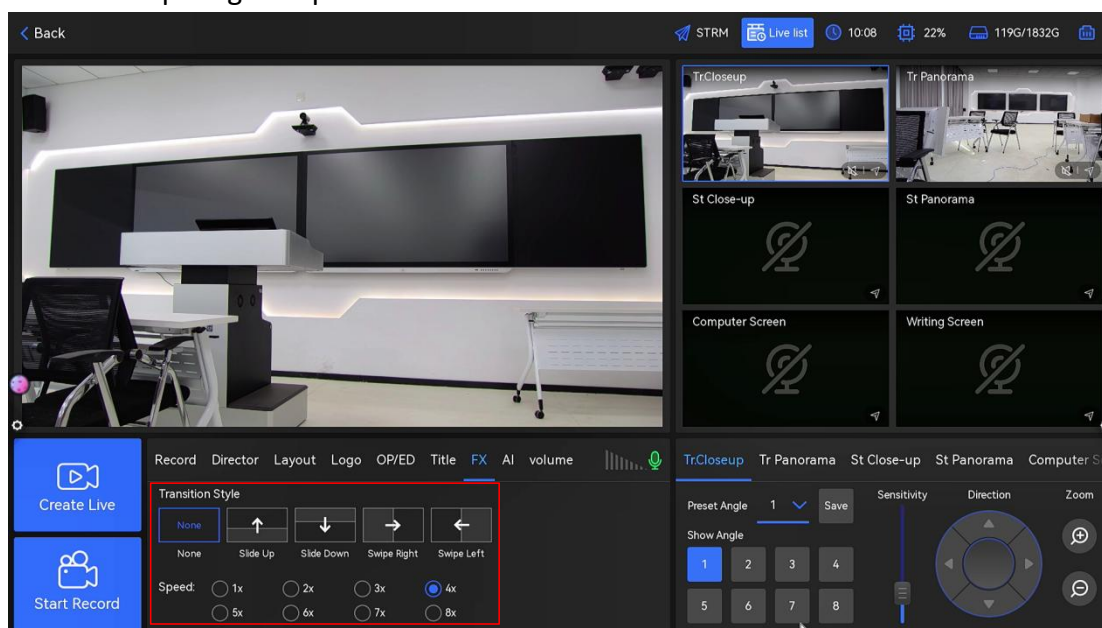
Enabling Title. Tap **[Title]** and enable the feature—the subtitles will be displayed on the combined feed immediately.

Editing titles. Switch from preset content to the Custom option, then tap the edit button to input desired text. Enable subtitles to display text on the combined feed. Users can also adjust the font size and color.

2.8 Effects

Effect Switching. Tap **[FX]** to enable or switch the function. After selecting an effect, drag any of the 6 video sources from the right to the combined feed on the left—the selected effect will be applied automatically.

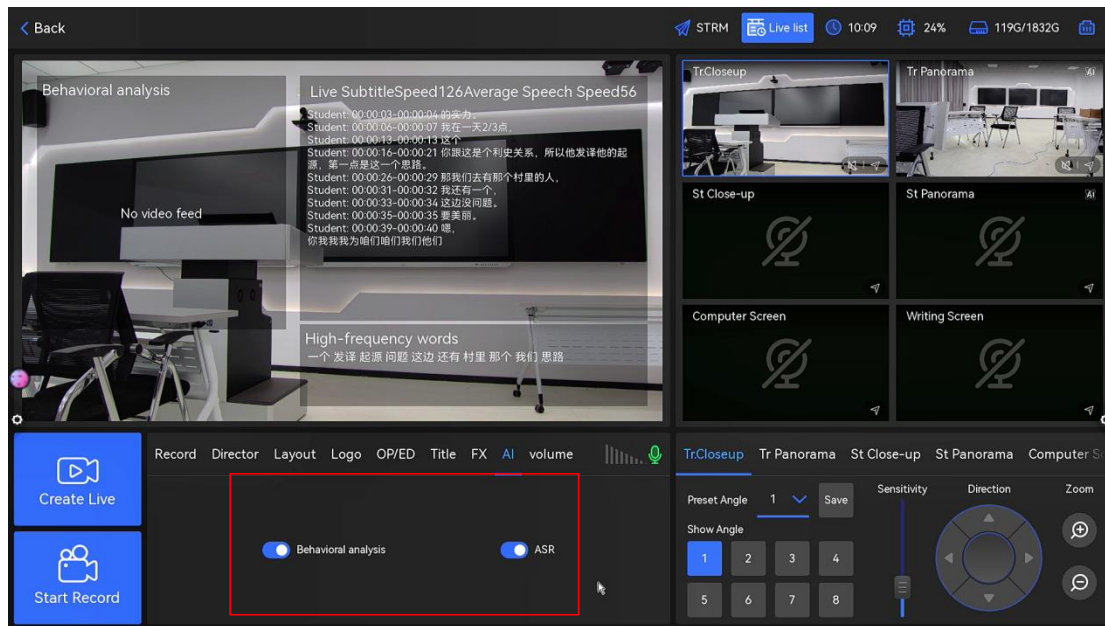
Speed Switching. Speed options range from 1x to 8x, with transition speed increasing as the multiplier goes up.



2.9 AI

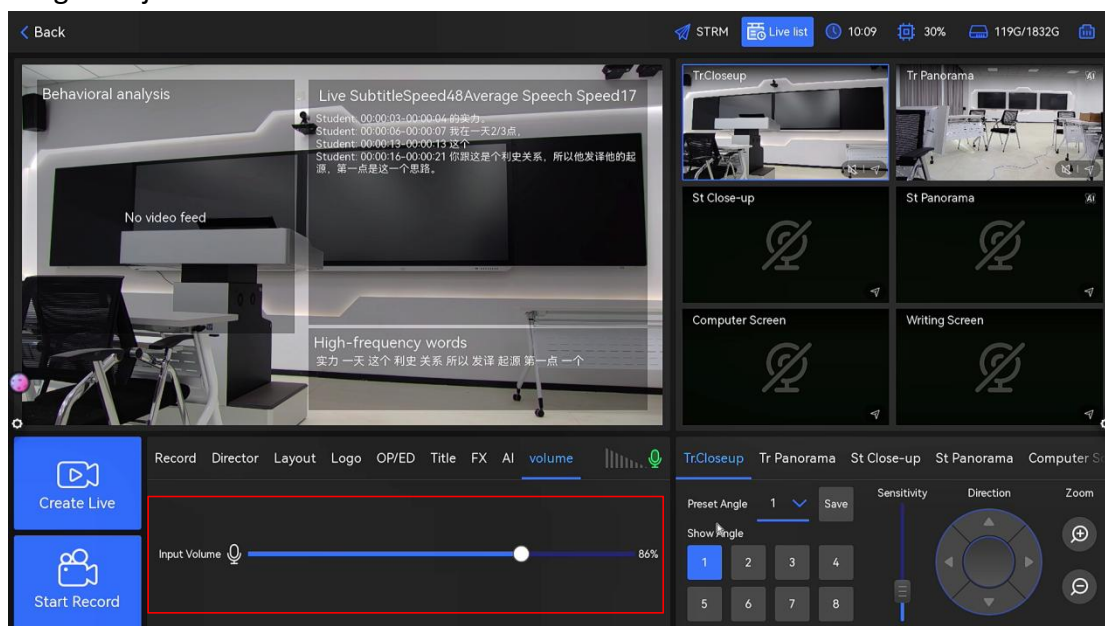
Behavior Analysis. Tap **[AI]** and enable **Behavioral Analysis**. The combined feed displays behavior analysis data, including real-time statistics on key metrics like head count, hand raising, and standing, as well as other behavioral indicators. It also presents wave charts for participation rate, activity level, and head-up rate.

Real-Time Subtitles. Tap **[AI]** and enable **ASR**—the module will be displayed on the combined feed. It converts audio captured by the microphone into subtitles in real time and synchronously extracts high-frequency keywords.



2.10 Volume

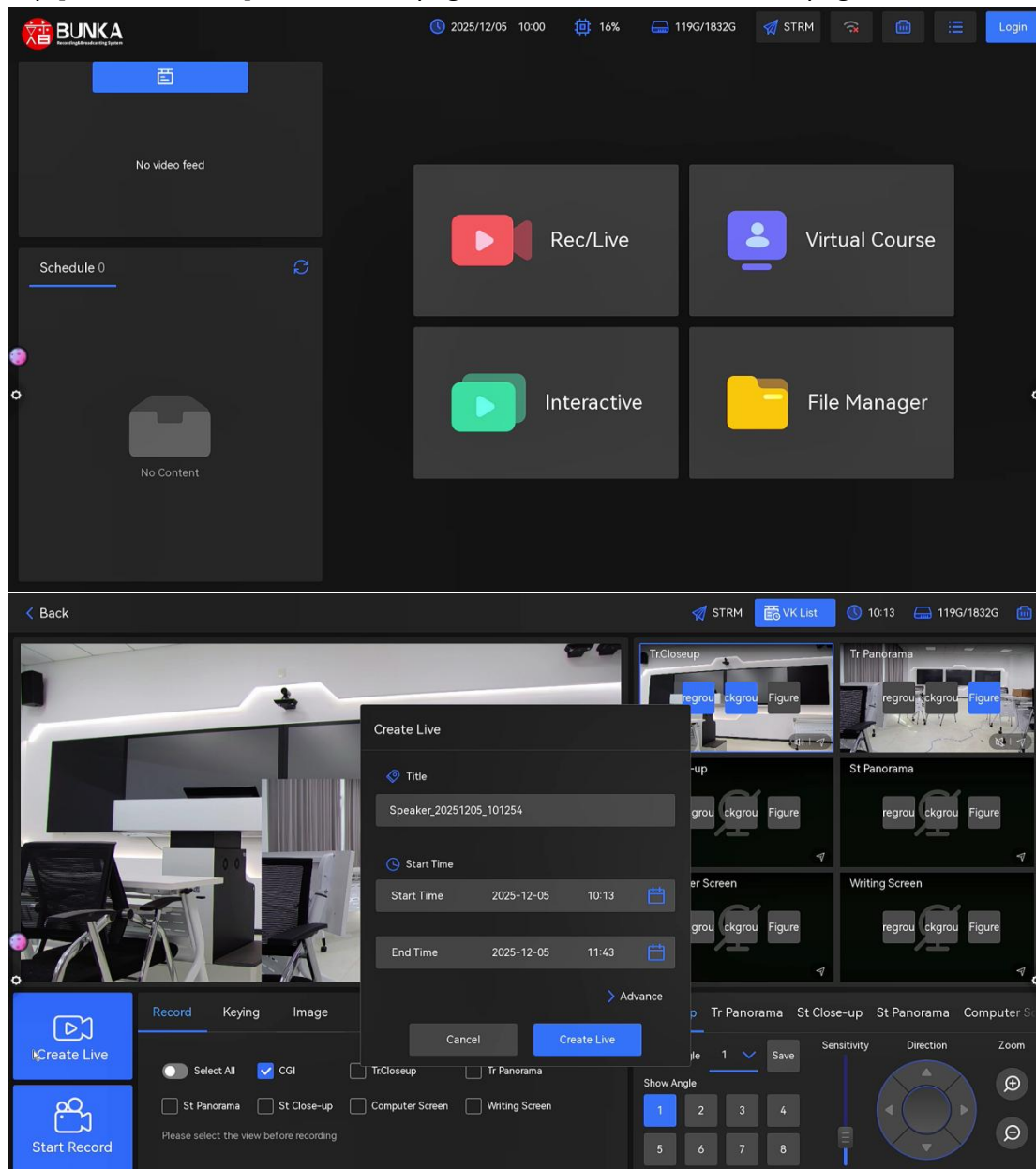
Drag to adjust the volume.



III. Virtual Courses

3.1 Create a Live Stream

Tap [Virtual Course] on the homepage to enter the virtual course page.



Create a Live Stream. Tap [Create Live] , modify the relevant details, then tap [Create Live] again to complete the setup.

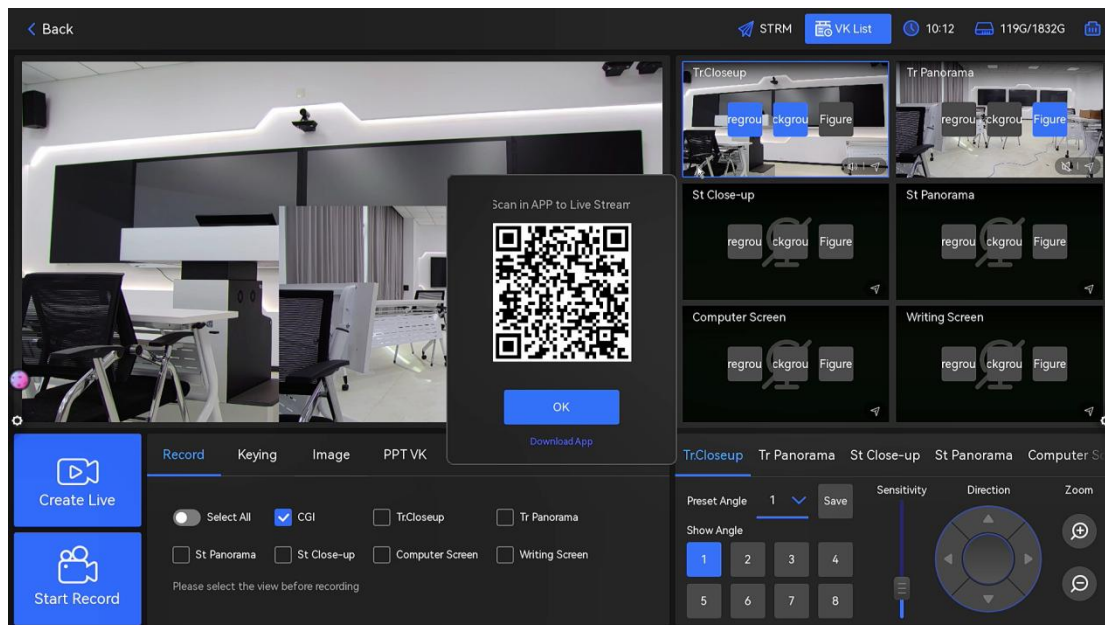
Start a Live Stream. After creating a live stream, tap the [Start Live Stream] button displayed in the bottom-left corner, or access the same option from the live stream list at the top-right corner.

End a Live Stream. Once the live stream starts, tap the [End Live Stream] button in the bottom-left corner to stop it.

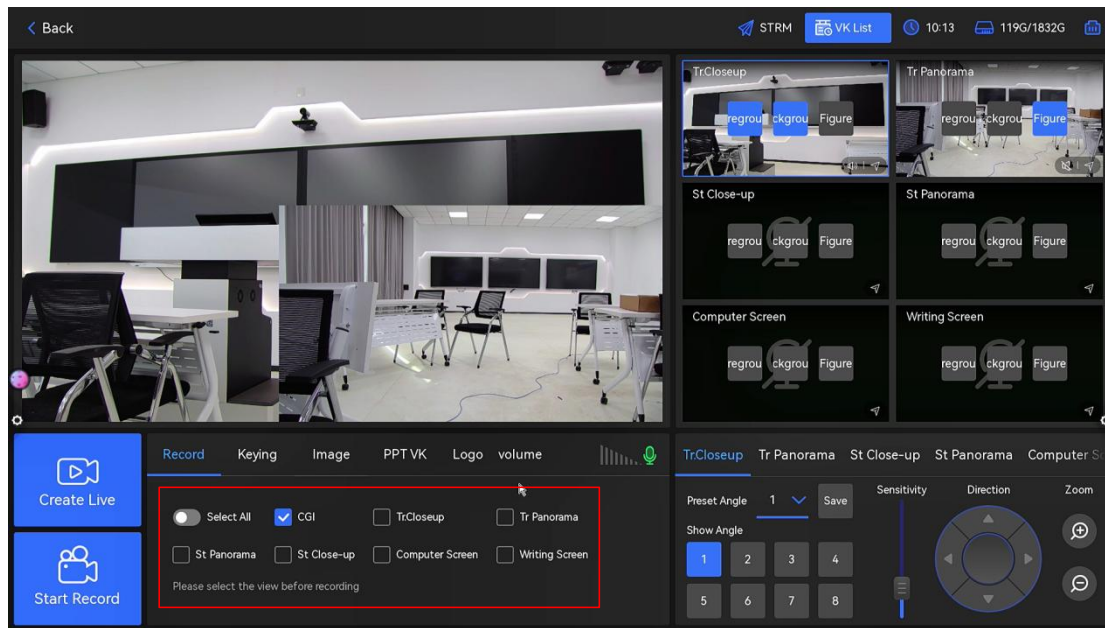
Starting Recording. Tap [Start Record] to initiate automatic recording.

Ending Recording. Once recording starts, tap the [Stop Recording] button to end the recording—recorded file will be automatically saved in the File Manger on the homepage.

Sharing a Live Stream. Tap [Live Share] at the top, then scan the QR code to view the live stream.

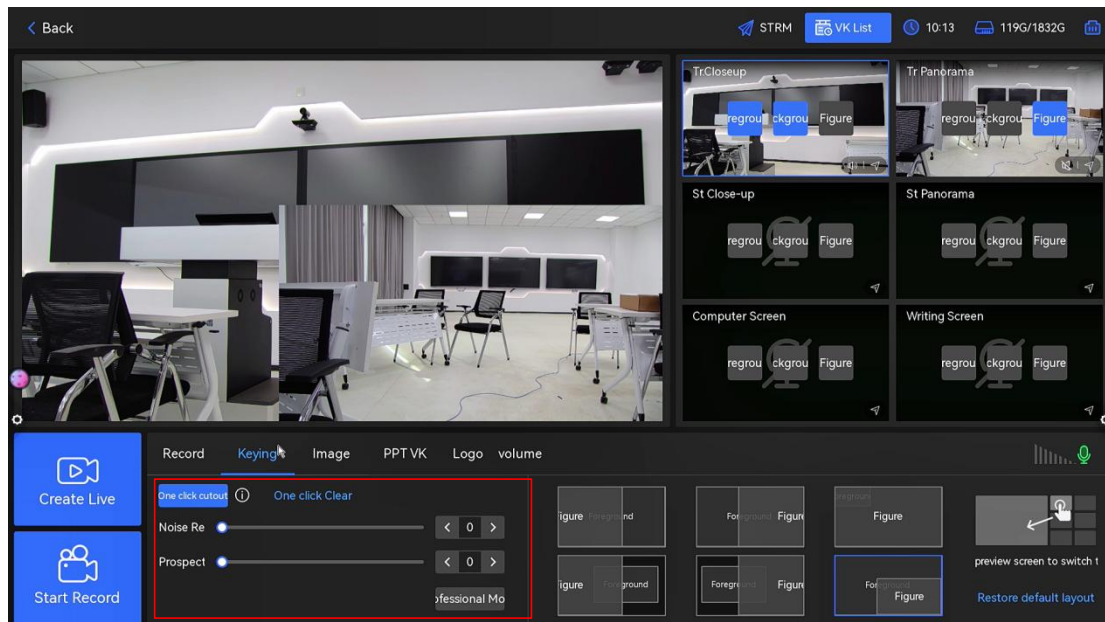


3.2 Recording Settings

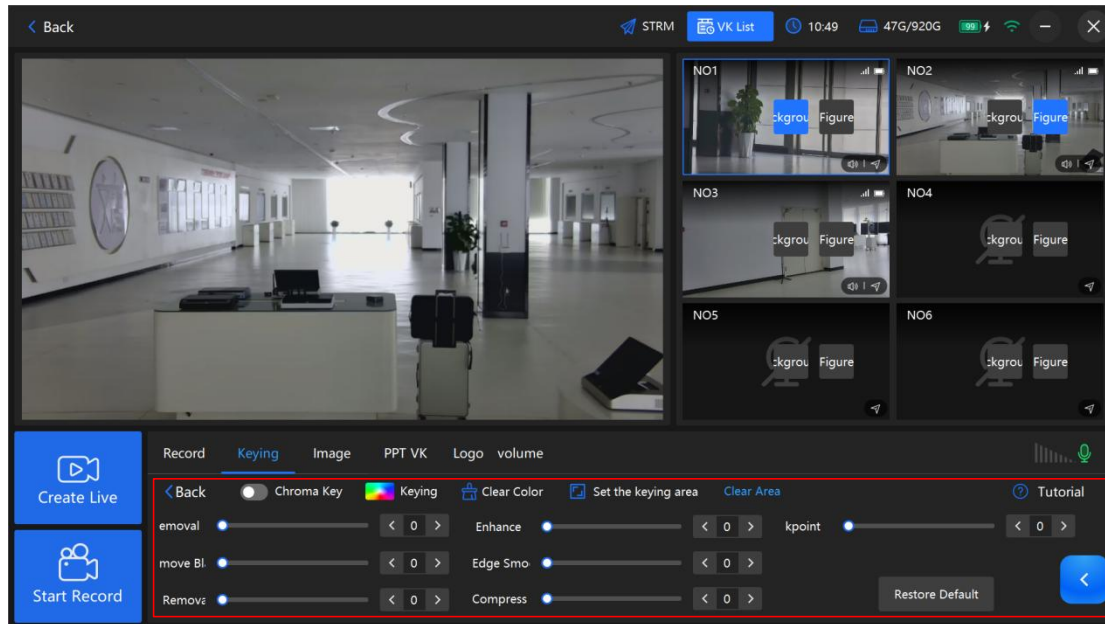


Tap **[Record]** to access the stream selection interface—select the desired video stream, and it will be recorded automatically.

3.3 Keying Settings



Tap **[Keying]** to access the main interface: one click cutout, noise removal, prospect, and professional mode.



Profession Mode:

Chroma Key. Enable **[Chroma Key]** to show the extracted subject area.

Keying. For portraits with a solid color background, tap **[Keying]**, select the corresponding solid background color, and click **[Done]**—the solid background will be removed instantly.

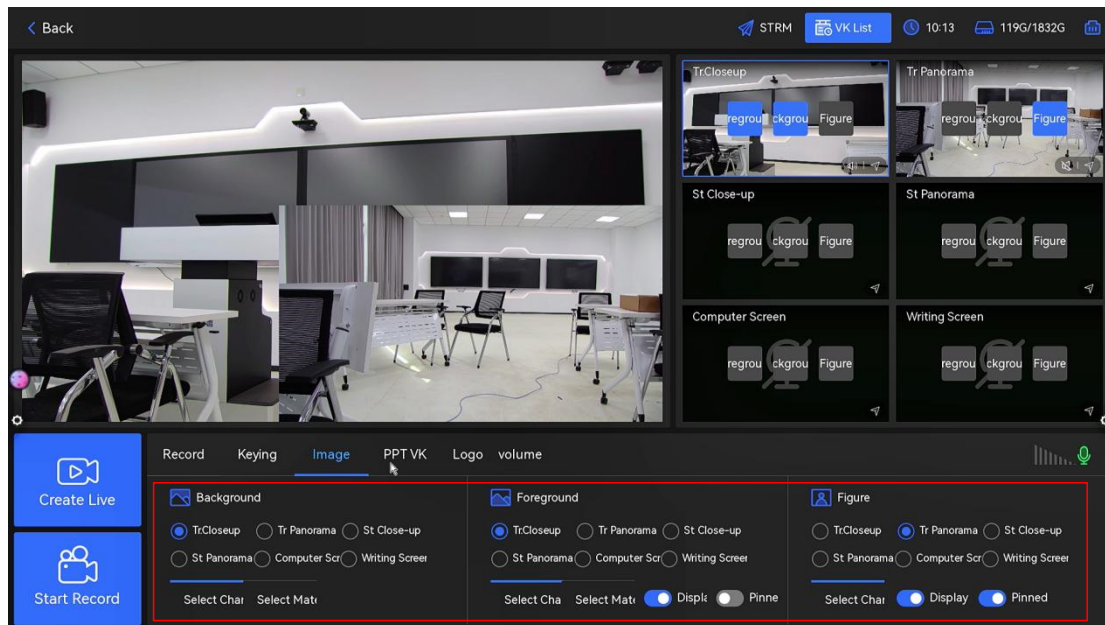
Clear Color. After keying is applied, tap **[Clear Color]** to restore the video source to its original state.

Regional Keying. Tap **[Set the keying area]** to adjust the keying area: manually drag the rectangle's four corners or draw a custom region with gestures. After selecting the area, tap **[Save Area]** > **[Keying]**, choose the color to remove, and click **[Done]** to finalize regional keying.

Clear Area. After selecting a saved region, tap **[Clear Area]** to delete it.

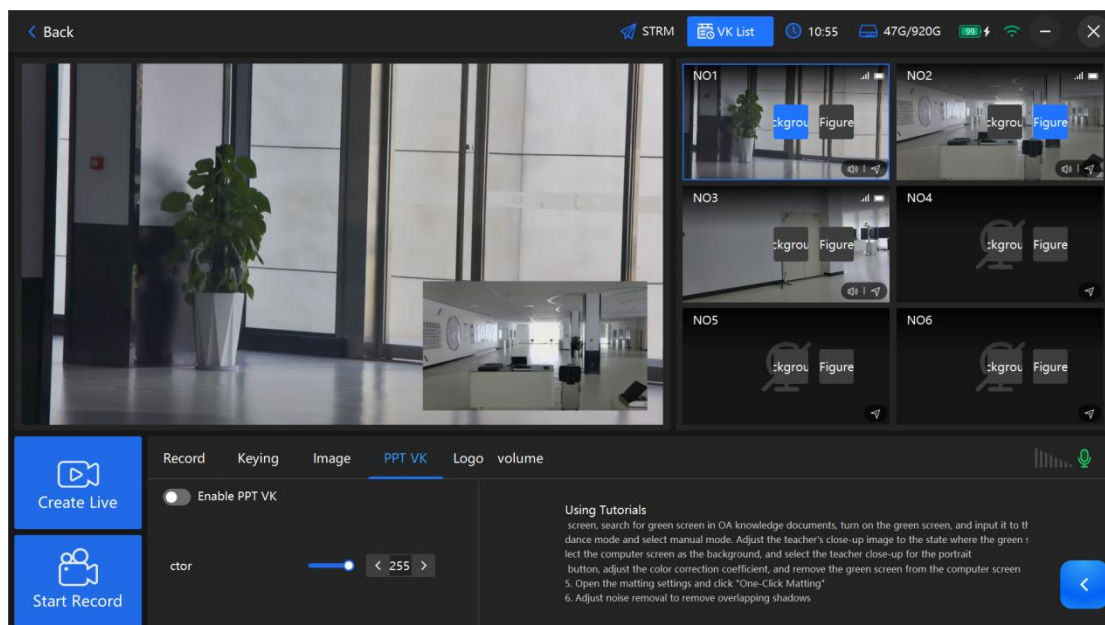
Additional Adjustments. Parameters for **Noise Removal**, **Remove Black**, **Overflow Removal**, **Prospect Enhance**, **Edge Smoothing**, **Saturation Compression** can be adjusted via slider control or the "<" "/" ">" buttons. Tap **[Restore Defaults]** to reset all parameters to their original values.

3.4 Image



Tap **[Image]** to view 6 preset layouts—manually switch between them to display the corresponding combined feed.

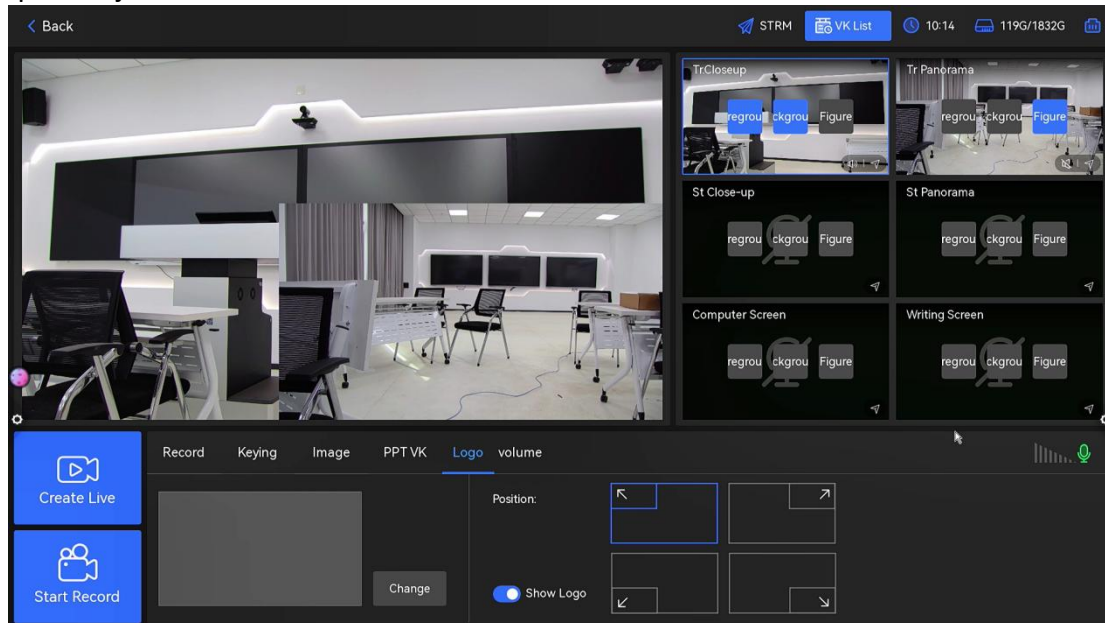
3.5 PPT VK



Click the **[Enable PPT VK]** button to one-click remove the background of the inserted PPT, ideal for micro-lecture creation.

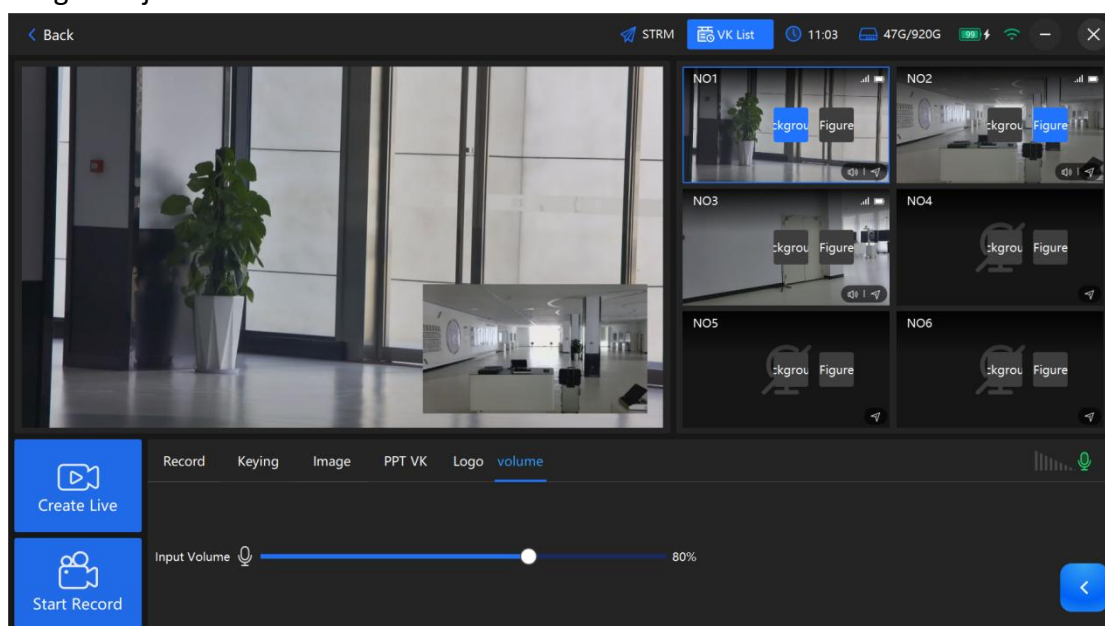
3.6 LOGO

Uploading images via a USB drive, tap Logo > **[Change]** to upload desired image. Enable **[Show Logo]** to display the logo on the combined feed. Users can manually drag the logo to reposition or resize it, or select from four preset logo positions for quick adjustment.



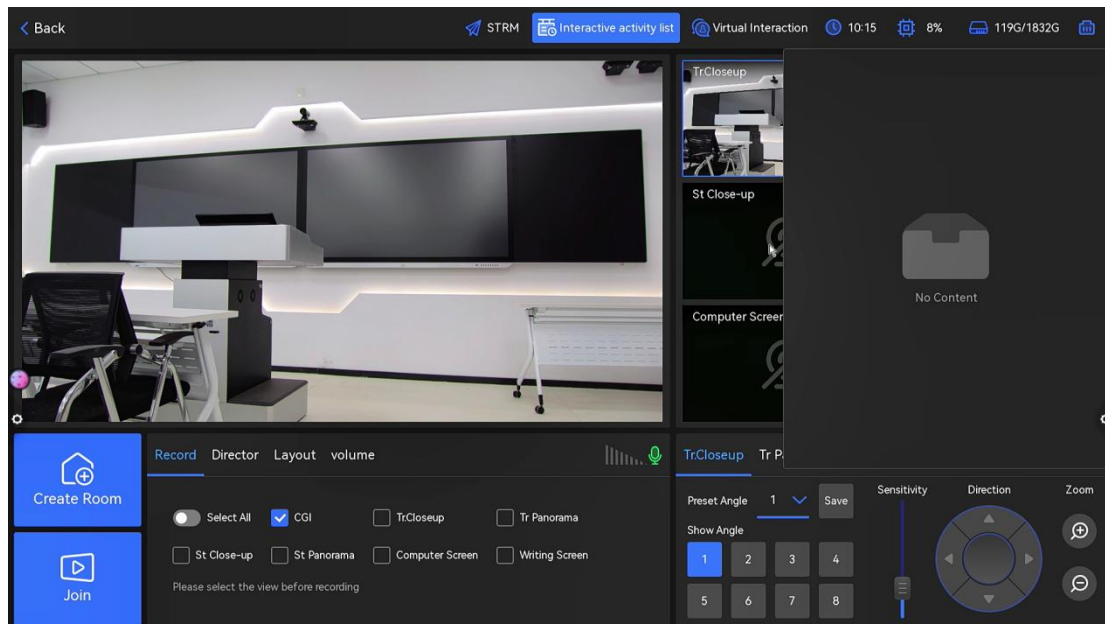
3.7 Volume

Drag to adjust the volume.

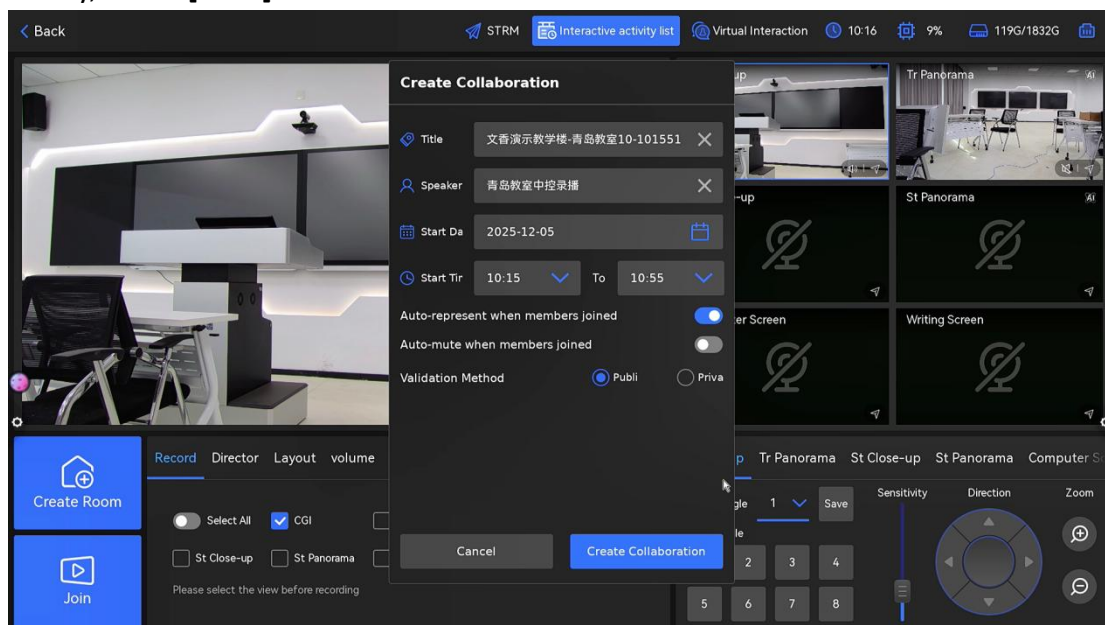


IV. Remote Interaction

4.1 Create an Interaction

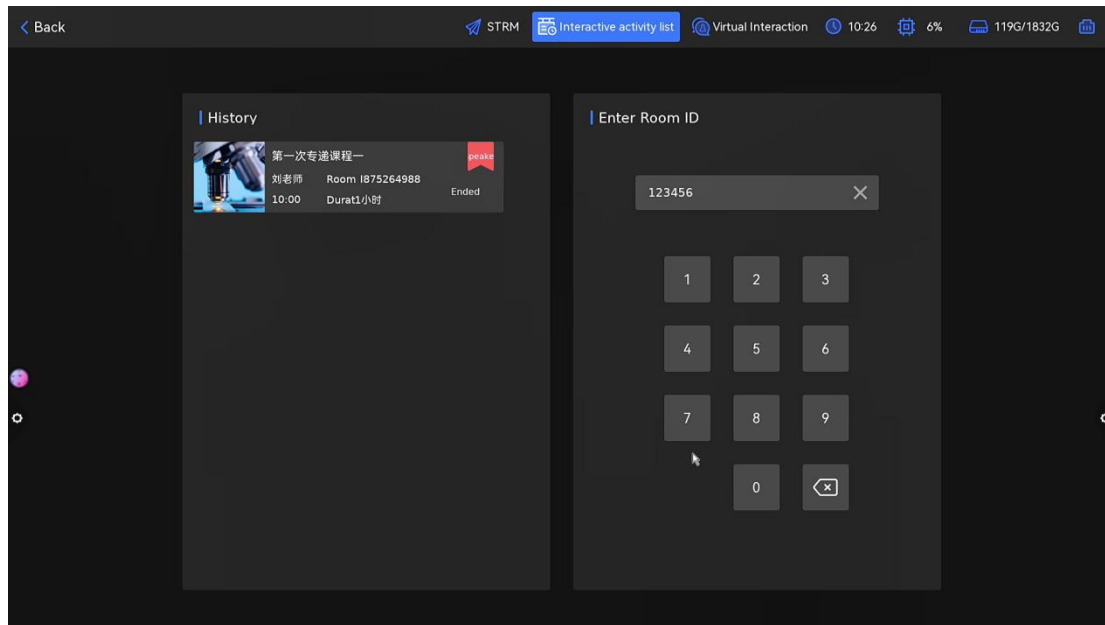


Tap **[Interactive]** on the homepage to enter its main page. Tap **[Create Room]**, fill in the required details, and then tap **[Create Collaboration]** to finalize the room setup. Finally, select **[Start]** to enter the room.



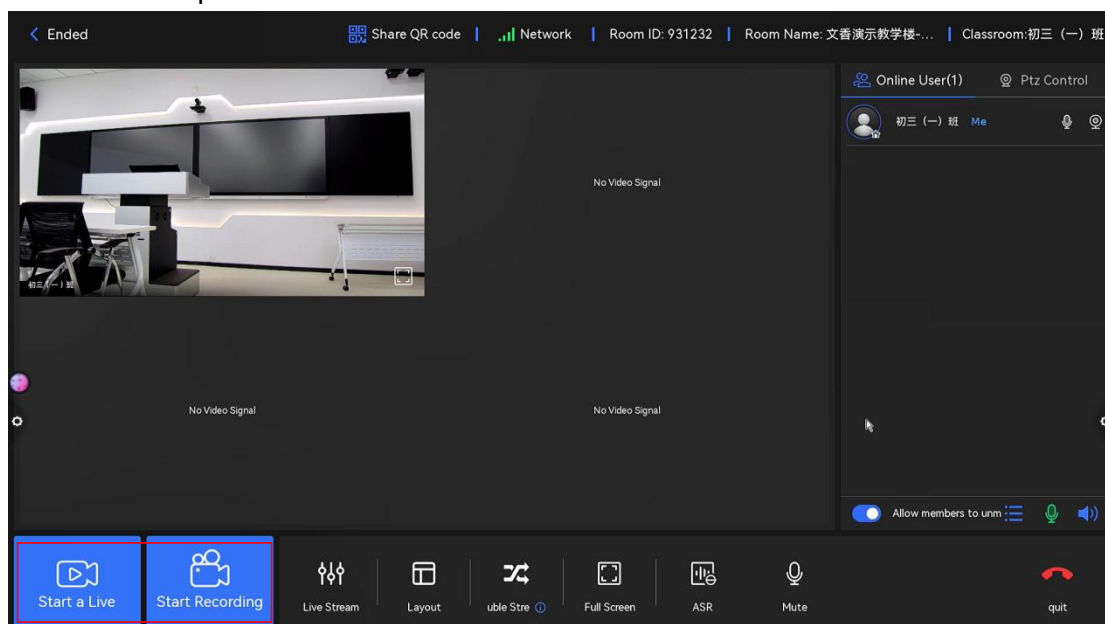
4.2 Join Interaction

Tap **[Join]** to enter the Remote Interaction main page. Enter the room ID to search for the corresponding room, then tap **[Join]** to enter.



4.3 Interactive Live Stream

Interactive Live Stream. Once in the room, tap **[Start a Live]** to launch it. Scan the QR code on the top to share the interactive room.

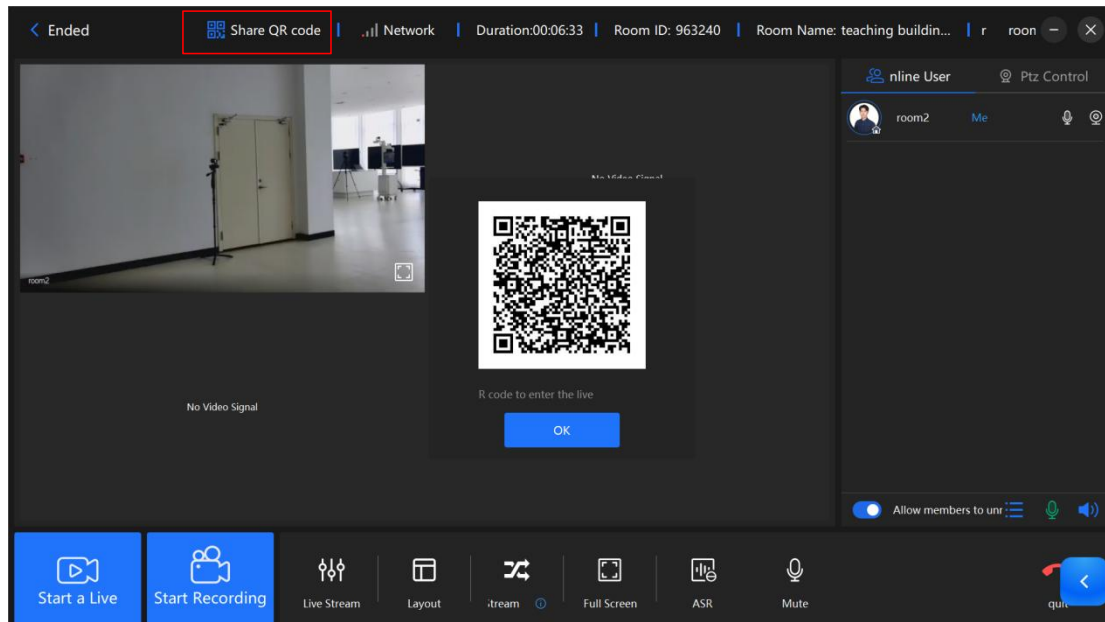


Start Recording. Tap **[Start Recording]** to begin video capture.

End Live Stream. Tap **[End Live Stream]** to stop the live stream.

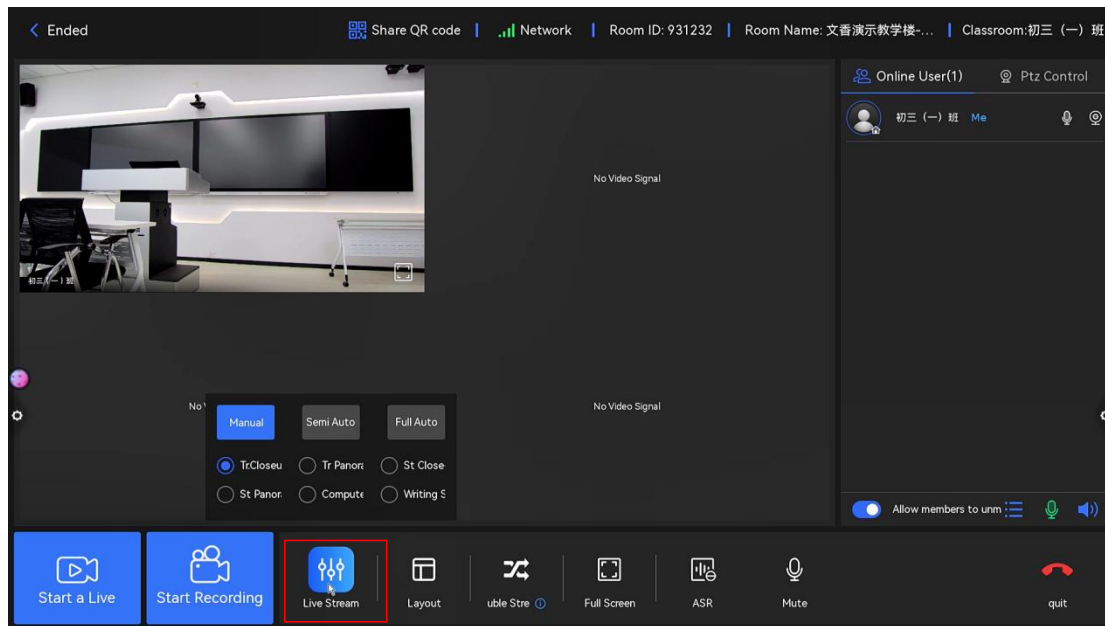
Stop Recording. Tap **[Stop Recording]**—the recorded file will be saved in the Files section on the homepage.

Page Navigation. Swipe to navigate pages when content exceeds a single screen.



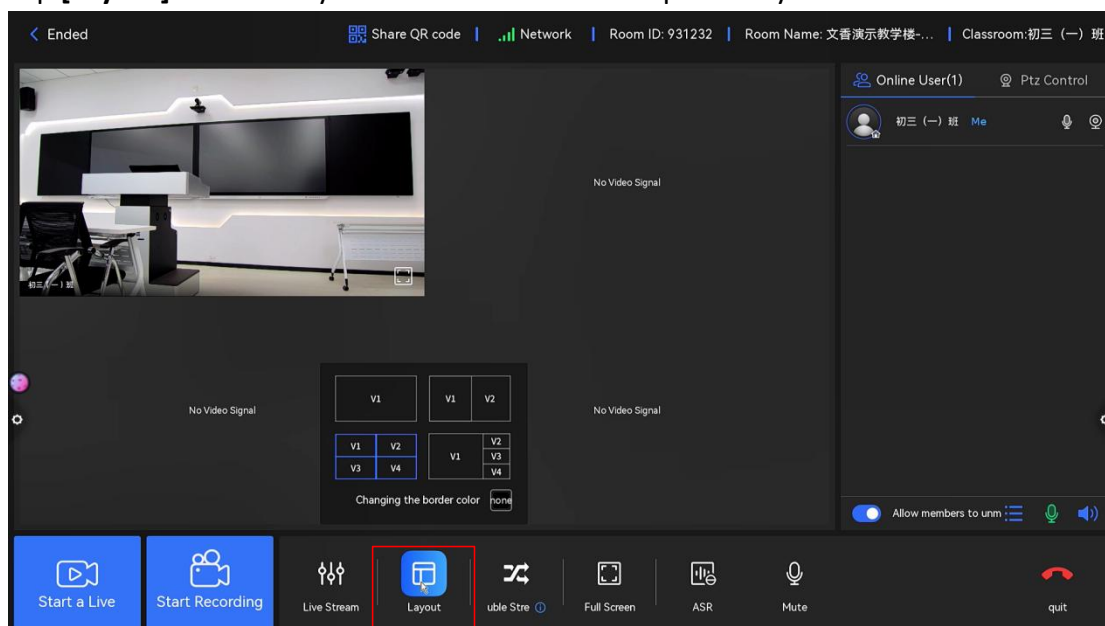
4.4 Recording Settings

Tap **[Live Stream]** to manually switch between three modes: **Manual**, **Semi-Auto**, and **Fully Auto**. Video sources can also be switched manually.



4.5 Layout Settings

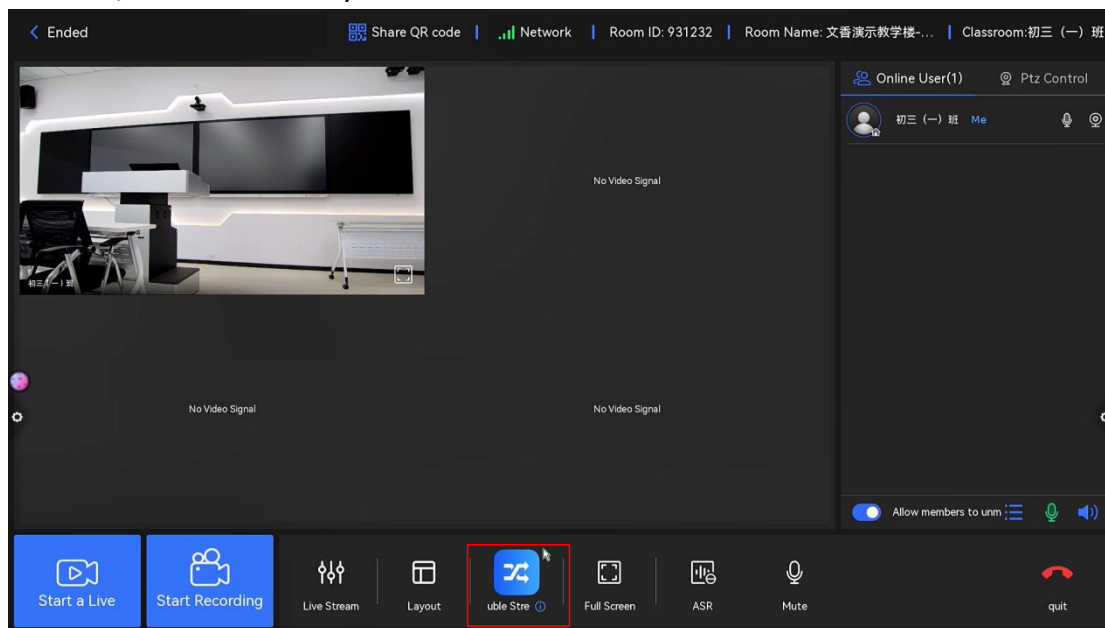
Tap **[Layout]** to manually switch between the four preset layouts.



4.6 Dual Stream

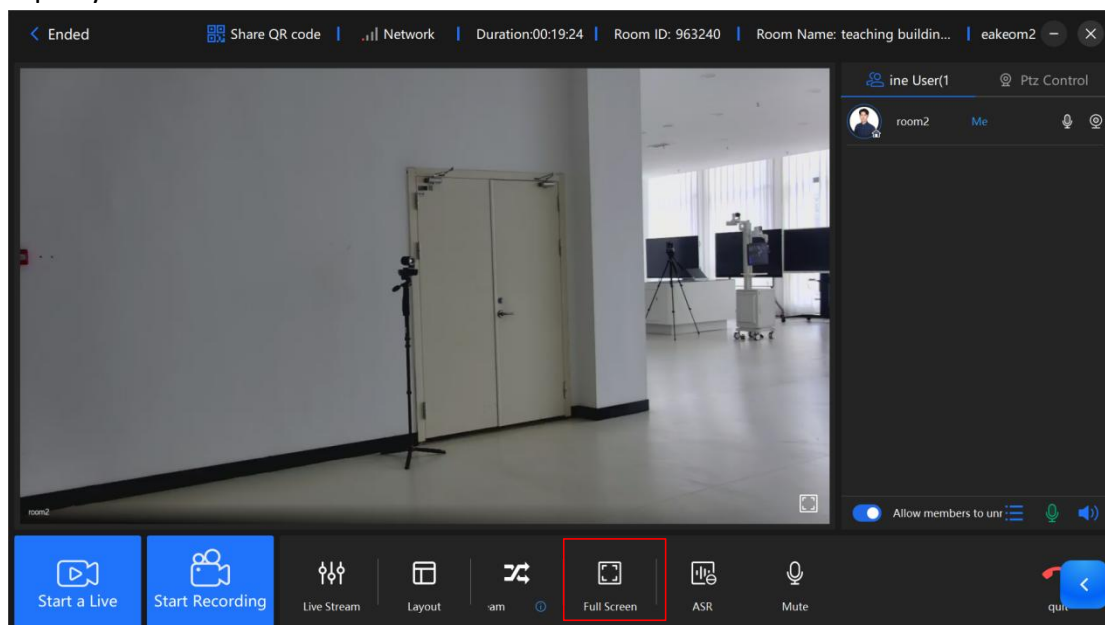
Enable **[Double Stream]** to allow participants joining the room to view both the host's shared computer desktop and video source feed. When **[Double Stream]** is

disabled, listeners will only see the host's video source feed.



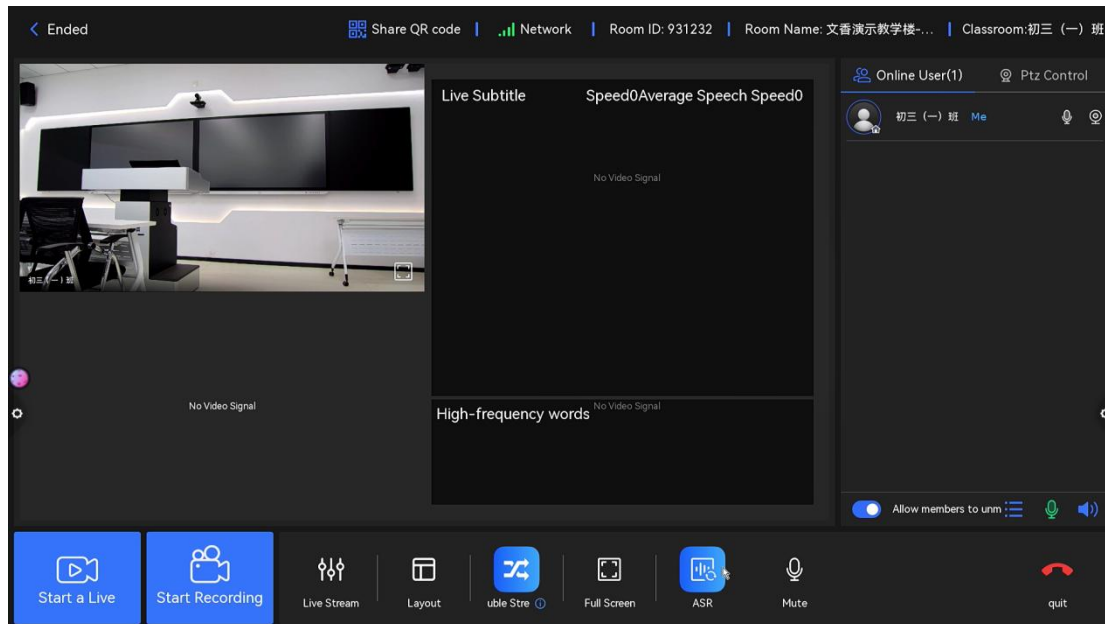
4.7 Full Screen

Enable **[Full Screen]** to display the combined feed in full-screen mode. And simply tap anywhere on the screen to exit the mode while in full-screen view.

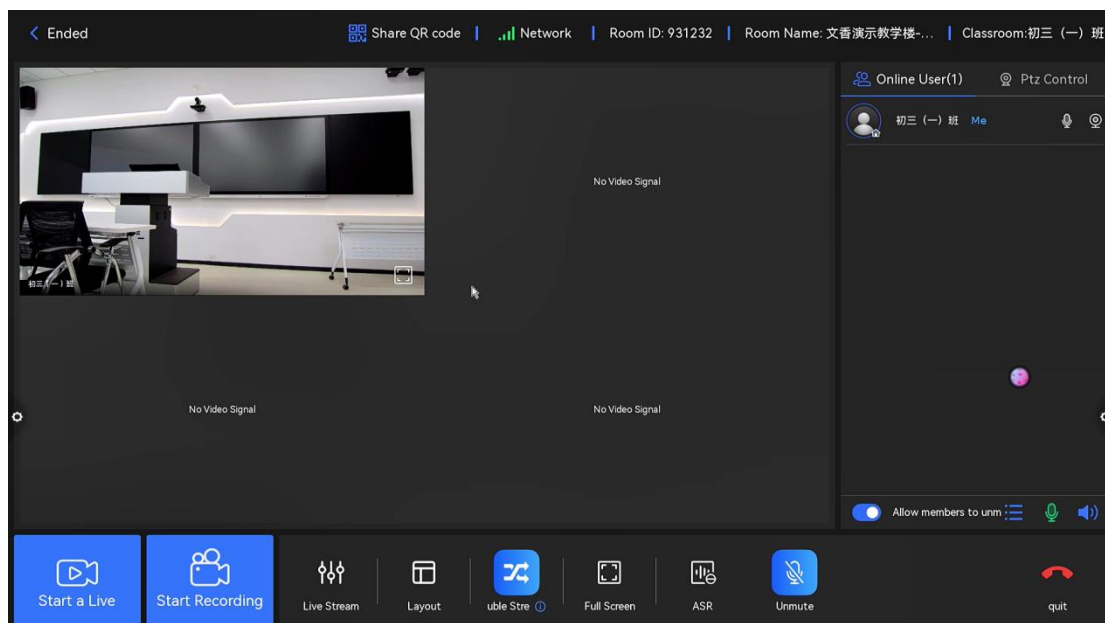


4.8 Voice Recognition

Enable **[ASR]** to convert all audio captured in the room into text. Real-time subtitles will be displayed, and high-frequency keywords will be automatically extracted and shown. Disable **[ASR]** to stop audio-to-text conversion.



4.9 One-click Mute

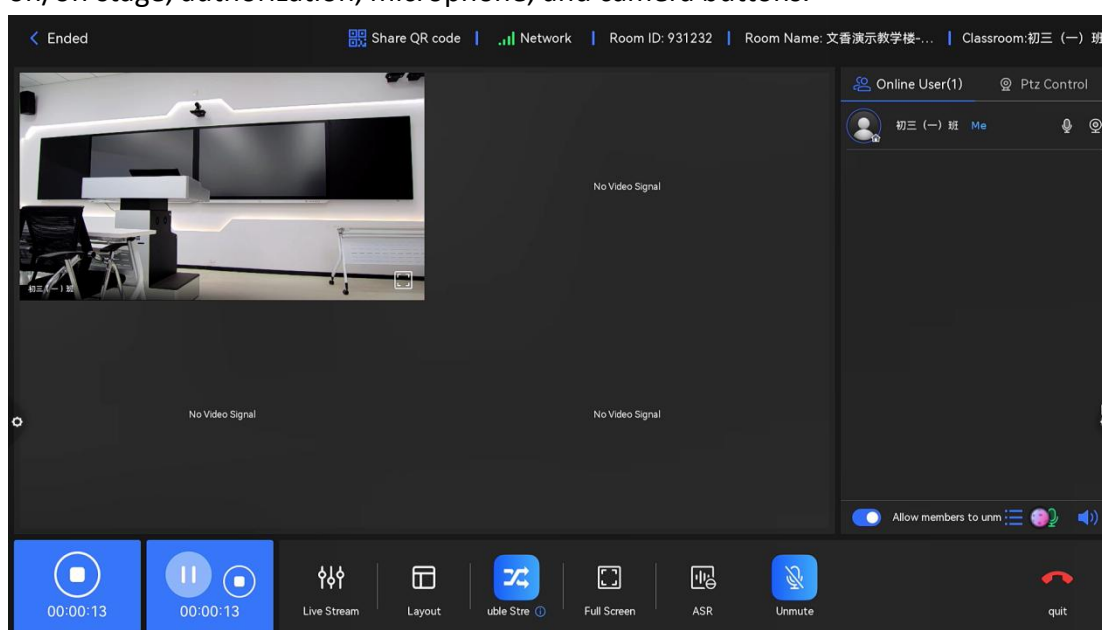


Enable **[Mute]** to mute all participants in the room. When disabled, participants' microphones will automatically restore their previous state.

Self-Unmute Permission. Enable [Allow members to Unmute] and participants can unmute themselves after the host mutes them. Disable it and participants can't unmute without the host's permission.

4.10 Online User

All room participants are displayed in the right-side list. The host's microphone and camera controls are located in the first row, while other participants have access to on/off stage, authorization, microphone, and camera buttons.



Remove Participant. Tap the **[Menu]** next to an online participant in the right-side list. Tap **[Remove]** next to the participant, then confirm removal. Tap "V" to switch back to the microphone control panel.

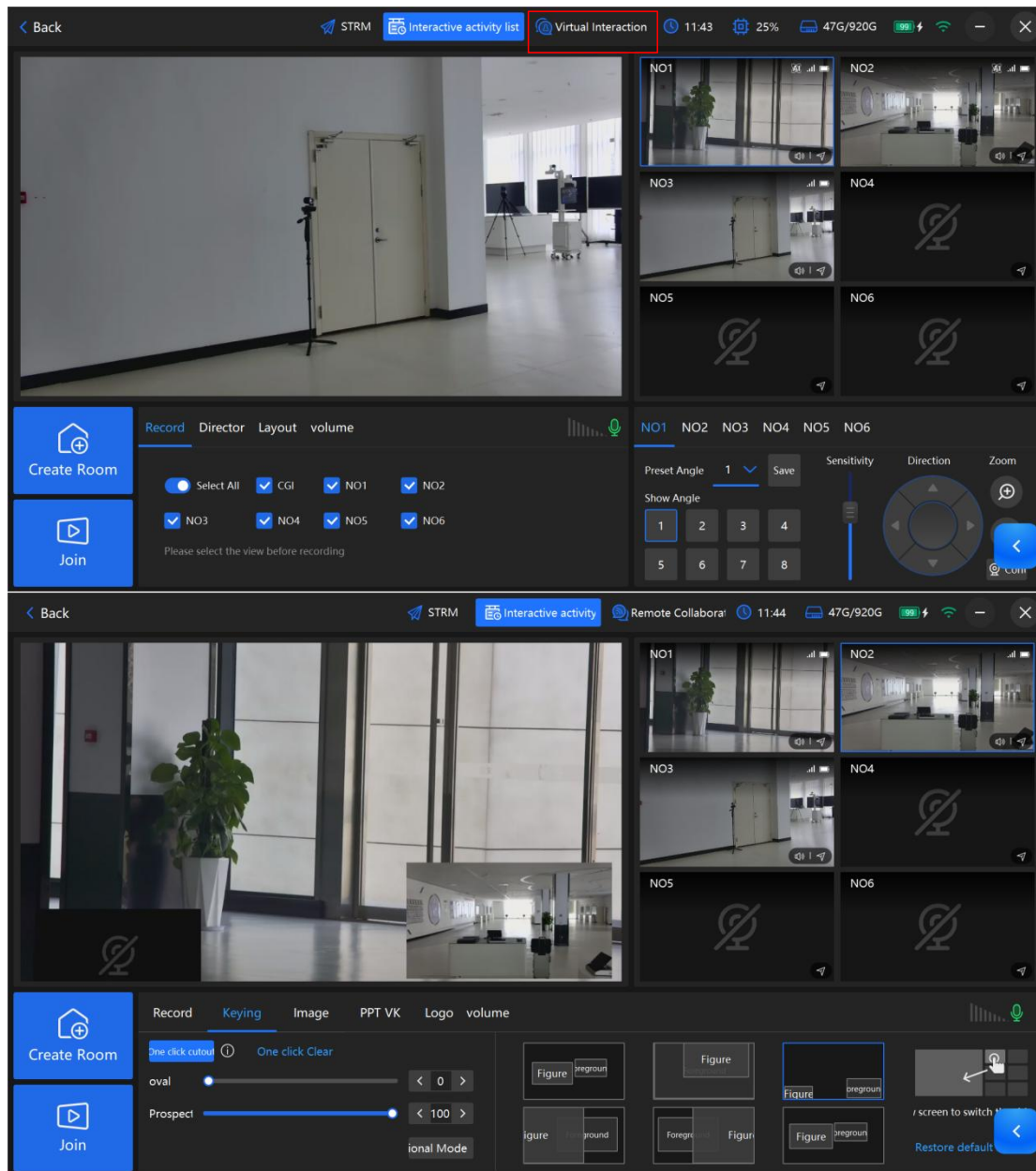
4.11 Virtual Interaction

Tap the **[Virtual Interaction]** at the top to access the dedicated interface. Core functionalities—including room creation, joining, and in-room operations—follow the same logic as standard interactions.

For detailed guidance, refer to Sections 4.1–4.10.

Keying, video compositing, and logo overlay are identical to those in Micro lectures. **See Sections 3.2–3.7 for specifics.**

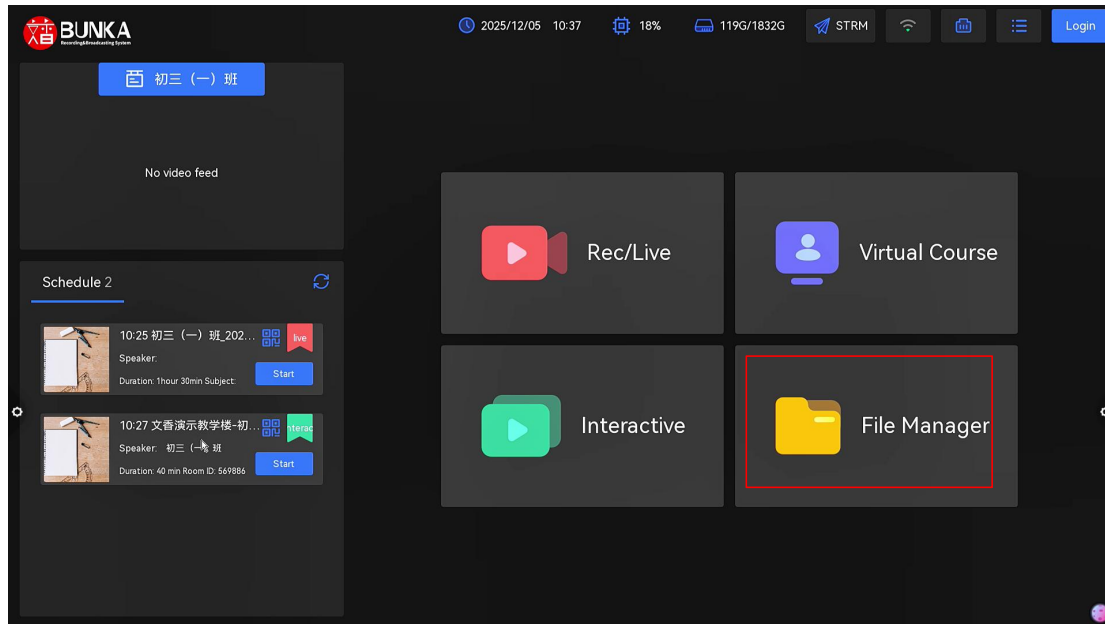
Once keying is enabled, join a room to engage with the virtual keying effect applied.



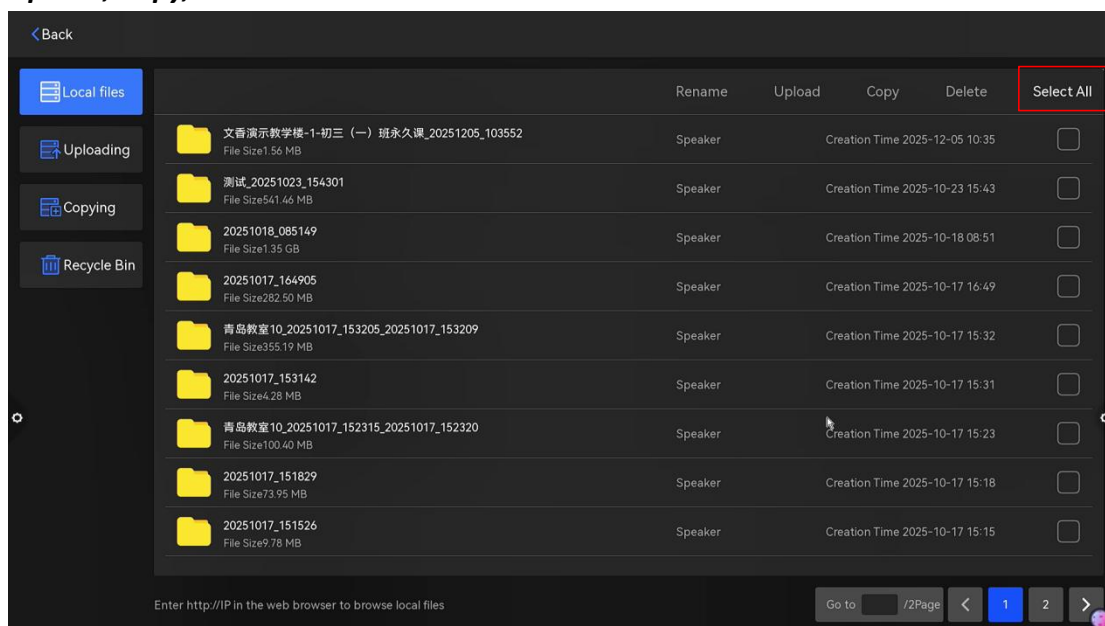
V. Files

Tap **[File Manager]** on the homepage to access the File Management page.

Tap **[Back]** in the top-left corner to return to the homepage.

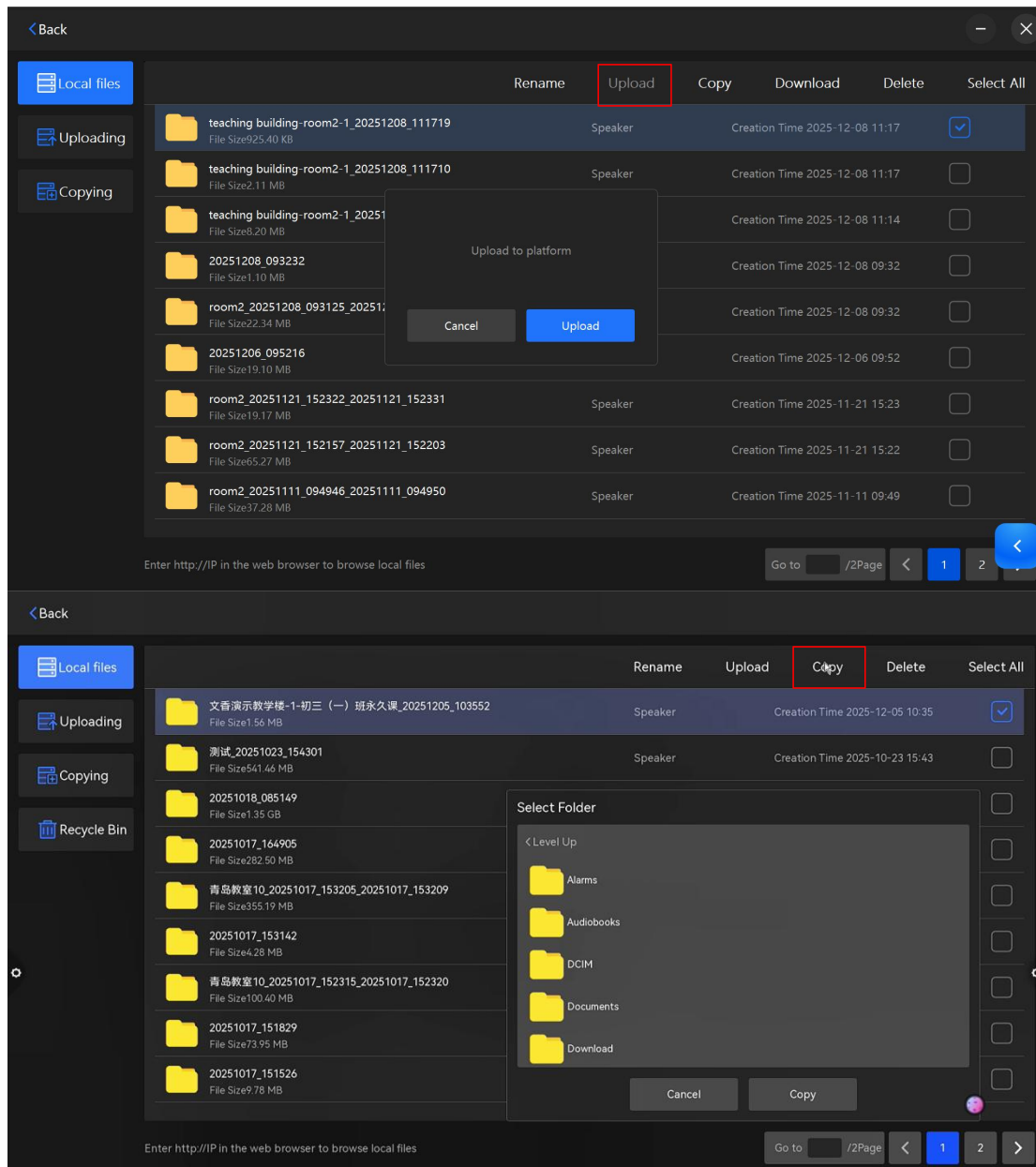


Select All. Tap **[Select All]** to select all folders, supporting batch operations such as **Upload, Copy, and Delete.**



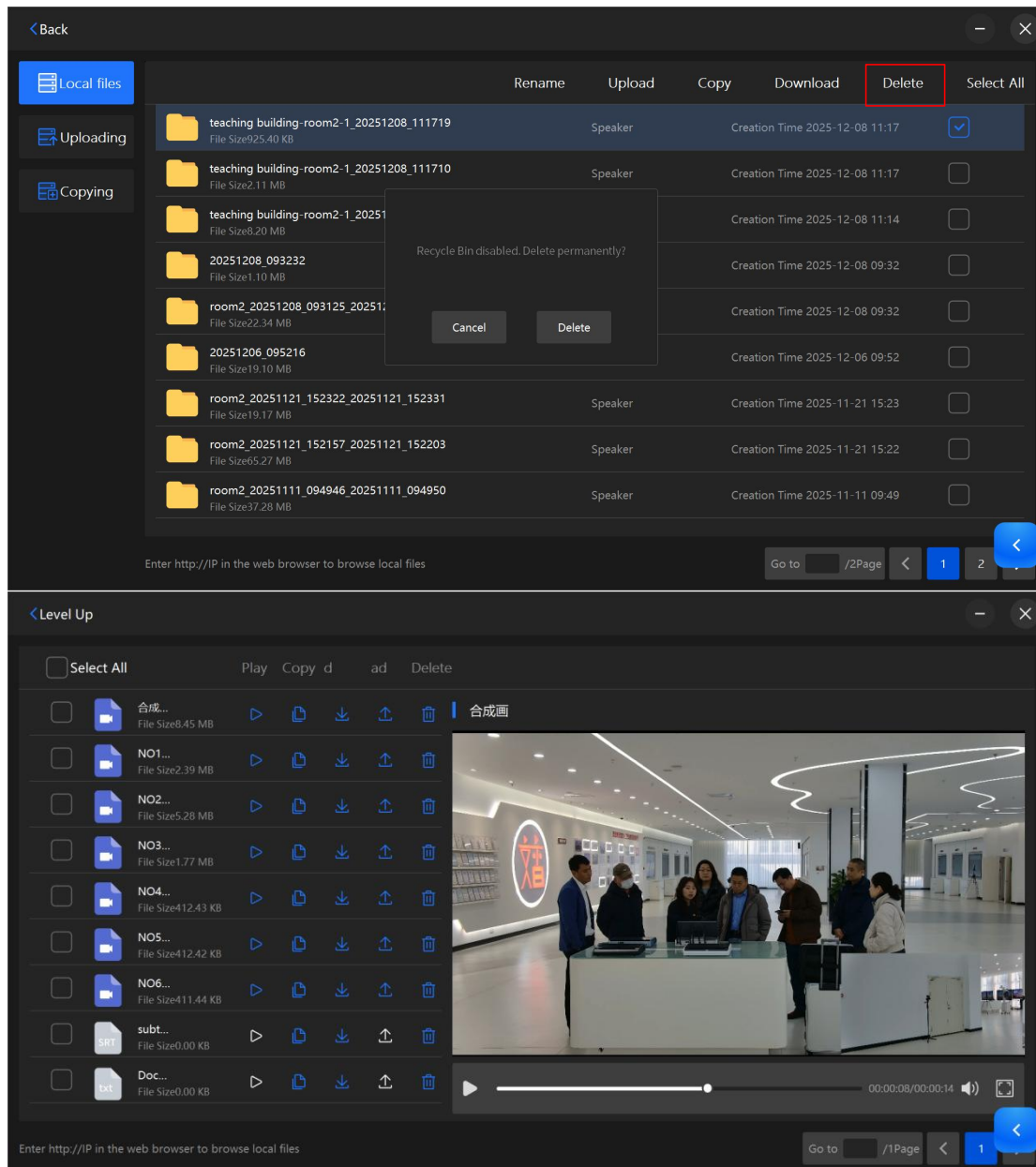
Upload. After logging in, check target folders/files and tap **[Upload]** to be redirected to the Uploading list. Recorded files save to the platform for later viewing.

Copy. Insert a USB drive, select the target files/folders, and tap **[Copy]**. Click **[Upload]** in the USB drive popup to navigate to the **Copying** list-files will copy from the recording device to the USB drive.



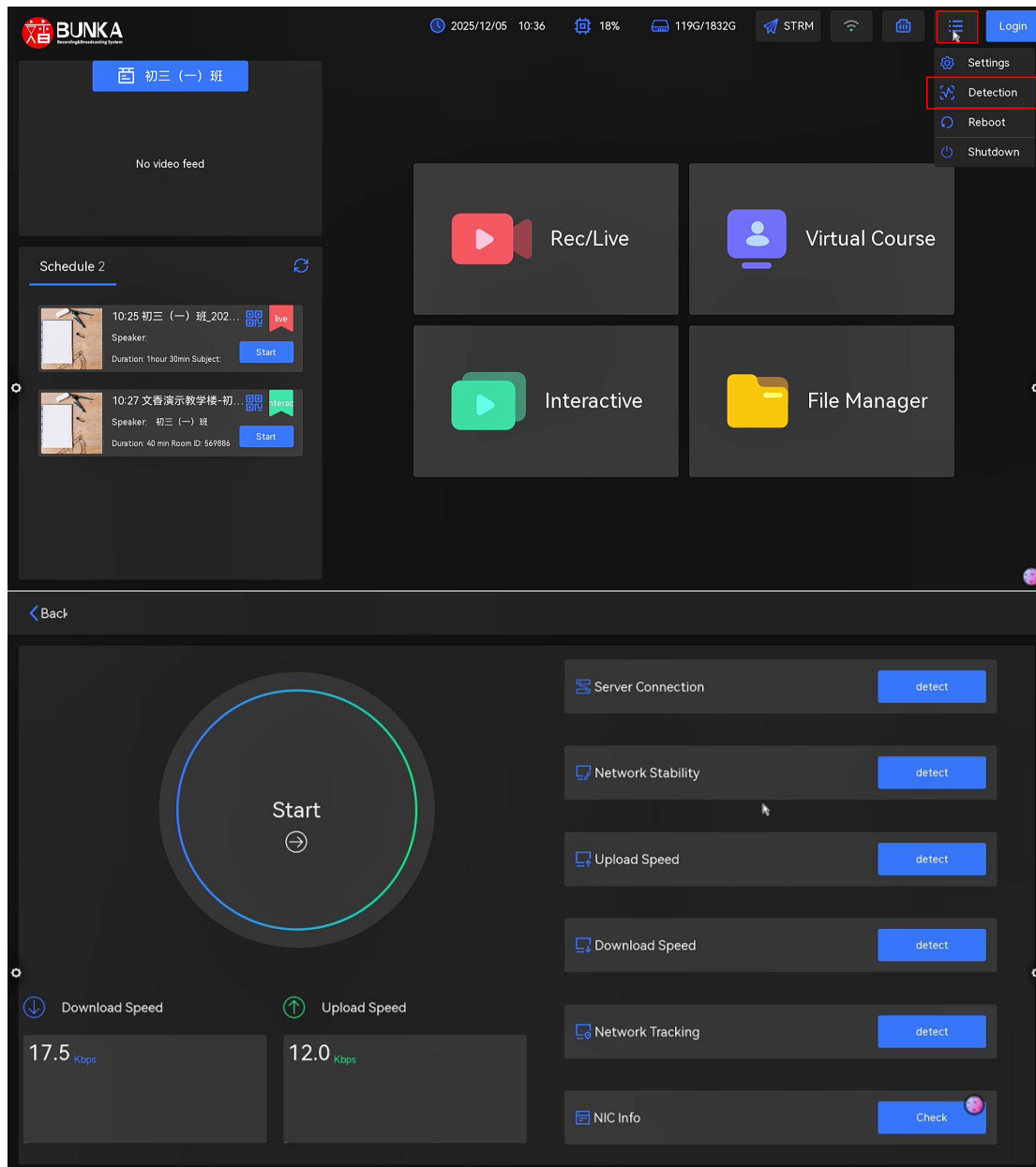
Delete. Select files/folders and tap **[Delete]**. Tap **[Confirm]** to delete them.

Play. Tap a folder to open the video playback page, then select a recorded video to launch automatic preview. Users can adjust the progress bar, volume, and full-screen mode, or use actions like **Upload, Copy, and Delete** for individual videos.



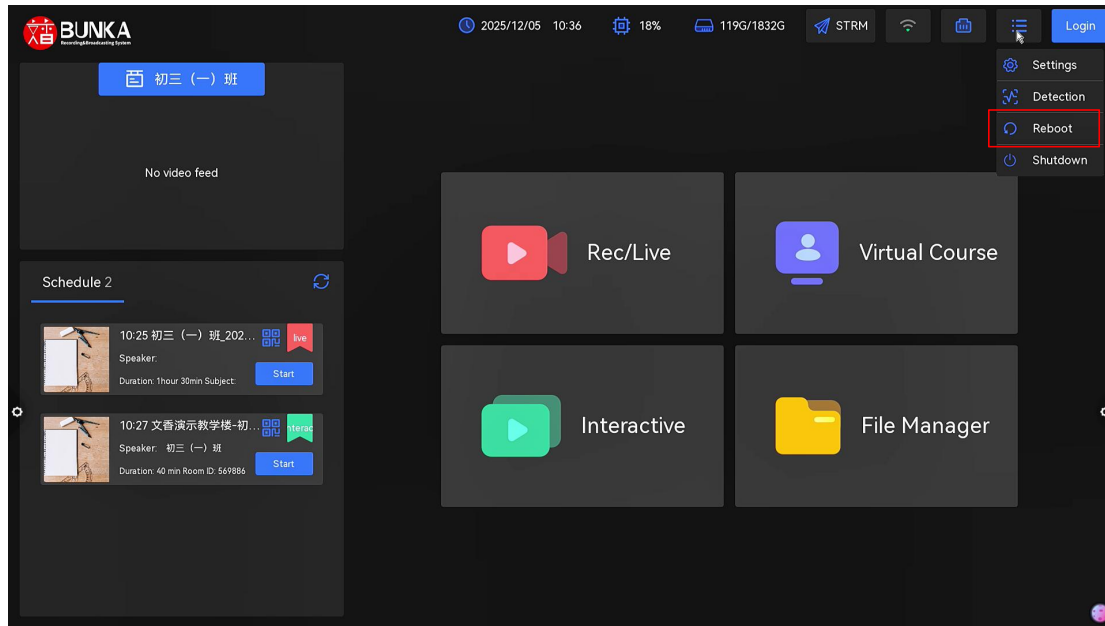
VI. Network Detection

Tap **[More]** on the homepage, select **[Detection]** to enter the test page, then tap **[Start]** and network information will be automatically detected and analyzed.



VII. Reboot

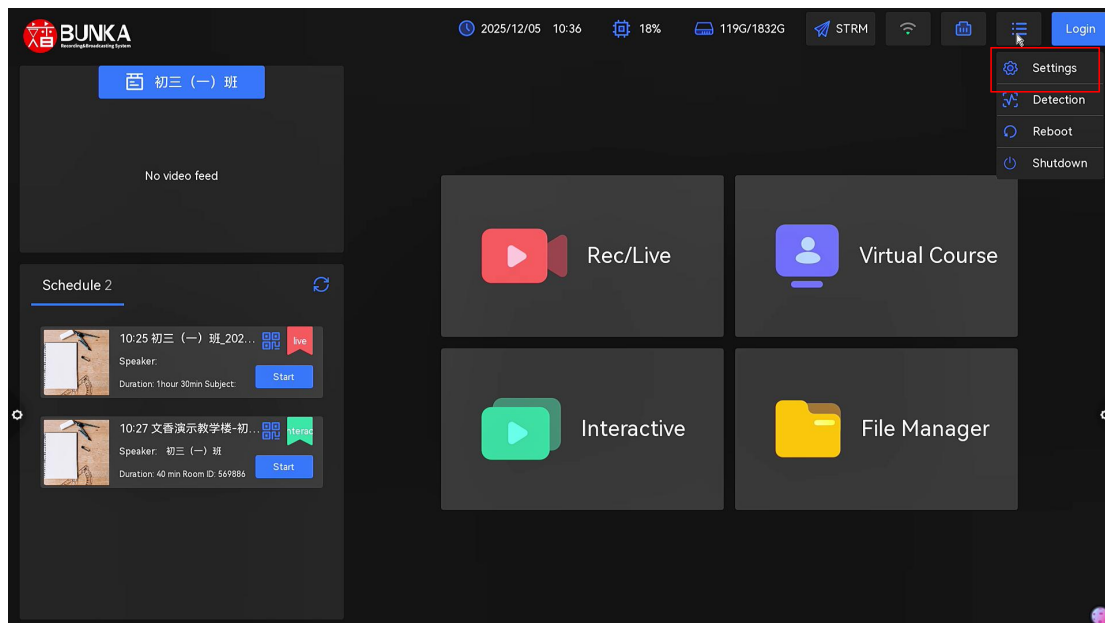
Tap **[Reboot]** to restart the system.



VIII. Settings

8.1 Basic Settings

Tap **[More]** on the homepage, then select **[Settings]** to access the settings page. The interface is organized into three sections: **Basic Settings**, **Recording Settings**, and **Advanced Settings**.



Language. Tap it to switch between different languages.

Font Scrolling. Whether to enable font scrolling

System Time Zone. Tap it to switch between different time zones.

System Time. Tap it to calibrate the time.

Modify. Tap it to customize the time.

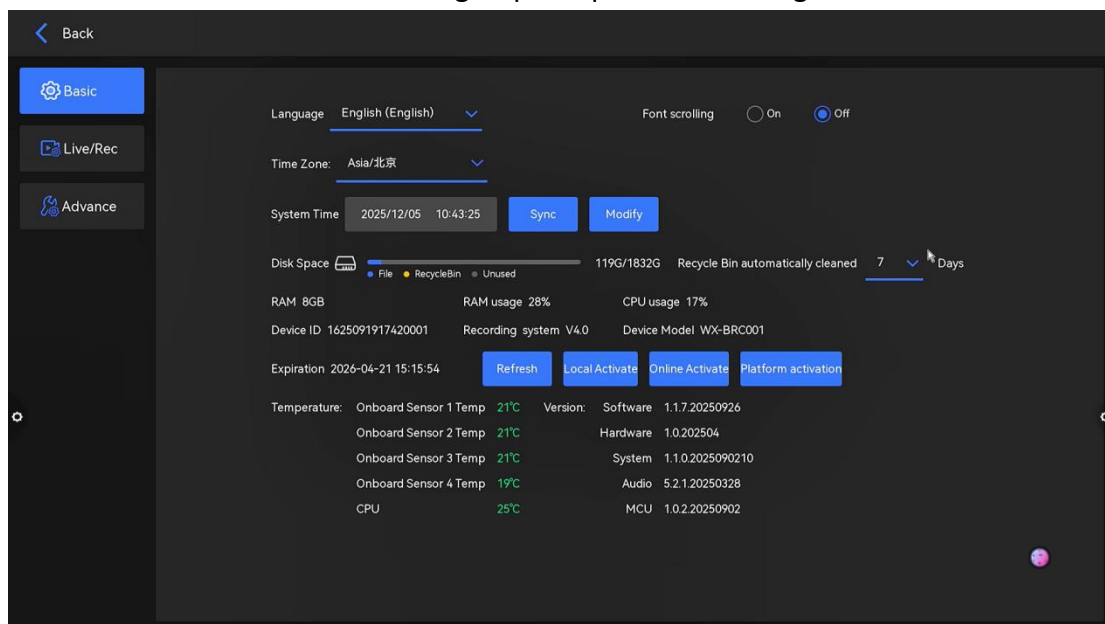
Disk Space. View used disk space and automatically clean up videos by selecting a specific number of days.

Refresh. Tap it to refresh the current device status.

Local Activate. Update the device's expiration date using a USB drive.

Online Activate. Update the device's expiration date online after connecting to the internet.

Platform Activation. Live streaming requires platform binding.



8.2 Live Stream/Recording Settings

File Duration. After setting the recording duration, the device will automatically start loop recording or stop when the specified time is reached.

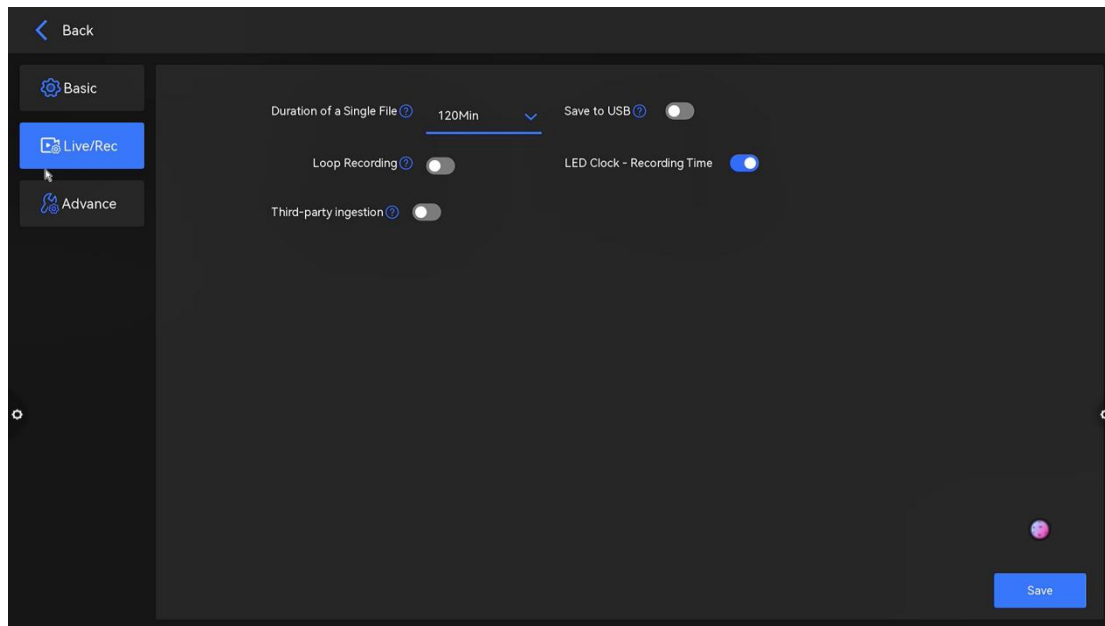
Loop Recording. Enables loop recording or stops recording based on the set file duration; adjustable manually.

Save to USB Drive. Insert a USB drive and enable this feature to save recorded files simultaneously to both the recording device and the USB drive.

Public Network Live Streaming. Adjust the resolution of the live stream.

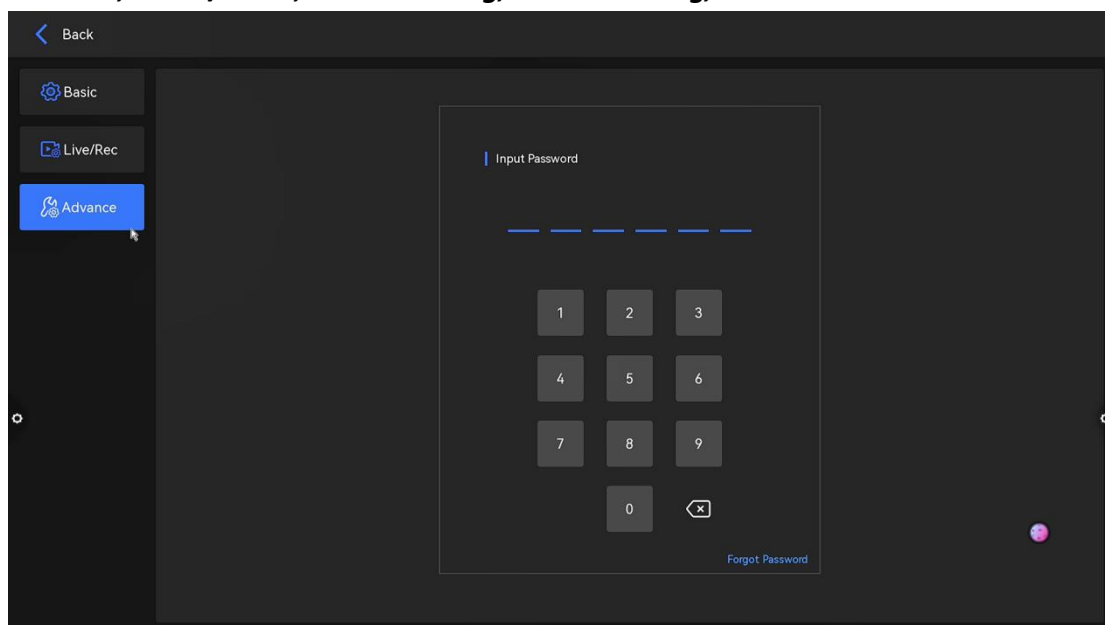
Third-Party Ingestion. Push the video feed to third-party platforms for live events.

Save. After modifying, tap **[Save]** to store the configuration.



8.3 Advanced Settings

Tap **[Advance]** and enter the password to access it. Users can modify settings for *network, audio/video, live streaming, device binding, and more.*



8.3.1 Network

The **network** is set to obtain an IP address automatically by default. Users can view details such as the **subnet mask, IP address, gateway, and DNS**. **External LAN** refers to the WAN port. **Internal POE** denotes the LAN port. **WiFi** indicates the wireless connection information of the device.

Once External LAN is switched to manual IP configuration, users can manually modify and adjust details such as the subnet mask, IP address, gateway, and DNS.

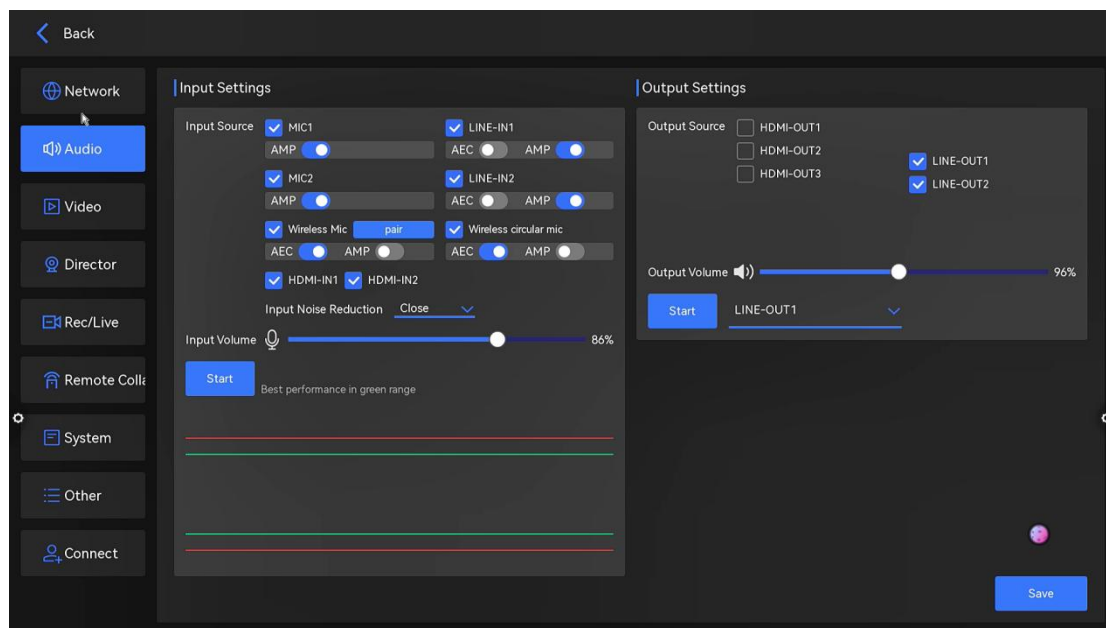
Save. After updating the network settings, tap [Save] for the changes to take effect.

The screenshot displays the Network configuration screen with a sidebar menu on the left containing options: Network (selected), Audio, Video, Director, Rec/Live, Remote Coll, System, Other, and Connect. The main content area is divided into three panels:

- External Net LAN:** Set to **Manual**. Fields include:
 - IP Add: 10 . 250 . 251 . 113
 - Subnet Mask: 255 . 255 . 255 . 0
 - Gateway: 10 . 250 . 251 . 1
 - DNS: 114 . 114 . 114 . 114
 - Hardware Add: 52:19:77:D0:8F:D6
 - IPv6 link: (empty)
 - IPv6 Public Network Add: (empty)
- Intranet POE:** Set to **Manual**. Fields include:
 - IP Add: 3 . 1 . 1 . 3
 - Subnet Mask: 255 . 255 . 255 . 0
 - Hardware Add: E2:D0:12:E7:2C:FF
- WiFi:** Set to **Automatic**. Fields include:
 - IP Add: 192 . 168 . 2 . 132
 - Subnet Mask: 255 . 255 . 255 . 0
 - Gateway: 192 . 168 . 2 . 1
 - DNS: 192 . 168 . 2 . 1
 - Hardware Add: FC:23:CD:90:32:4D
 - IPv6 link: (empty)
 - IPv6 Public Network Add: e23:cfff:fe90:324d%wlan0

A blue **Save** button is positioned at the bottom right of the screen.

8.3.2 Audio



Audio Settings includes two modules: Input and Output.

Input Source. It offers several selectable options: MIC1, MIC2, LINE-IN1, LINE-IN2, Wireless Mic, HDMI-IN1, HDMI-IN2, Wireless circular mic. Select the corresponding input channel to route audio to the recording system.

Input Volume. Drag to adjust the input volume level.

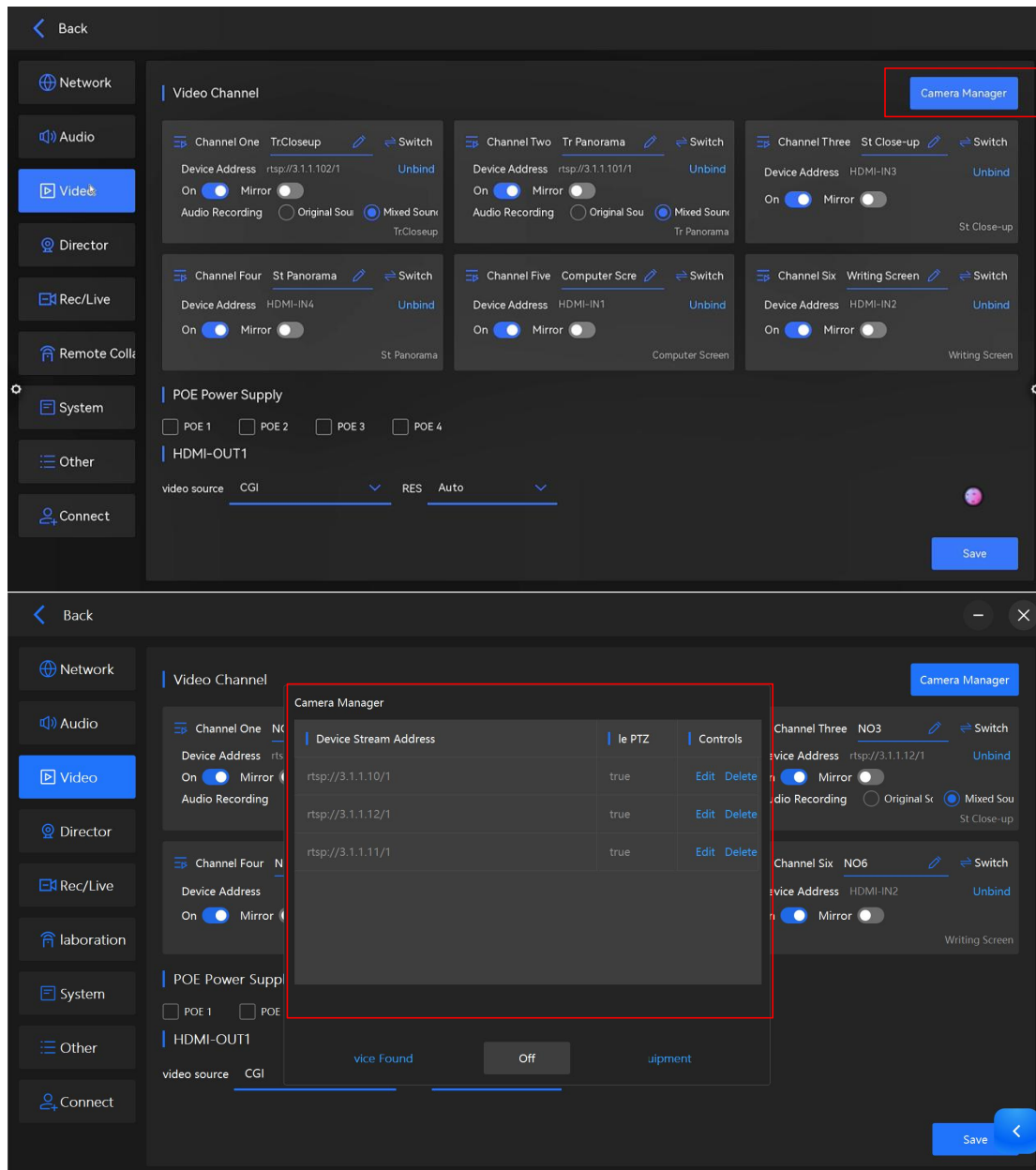
Start. Monitor the waveform of the current input audio.

Output Source. Select the desired output source to set it as the audio output device.

Output Volume. Drag to adjust the volume level.

Start. Monitor the waveform of the output audio.

8.3.3 Video

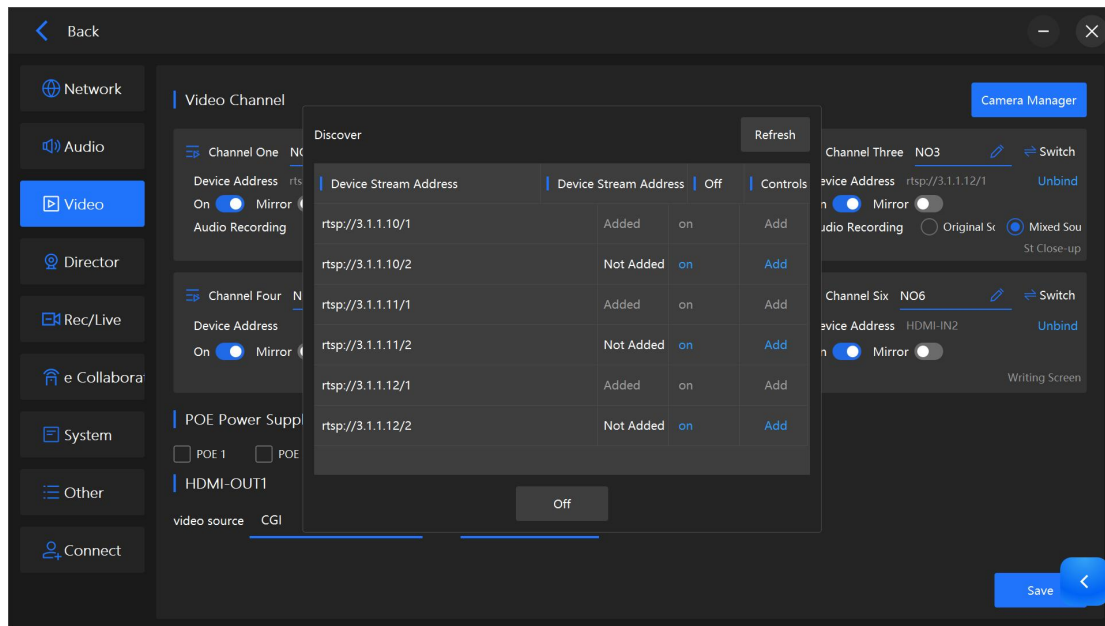


Camera Manager. Tap [Camera Manager] to Add&Discover Device.

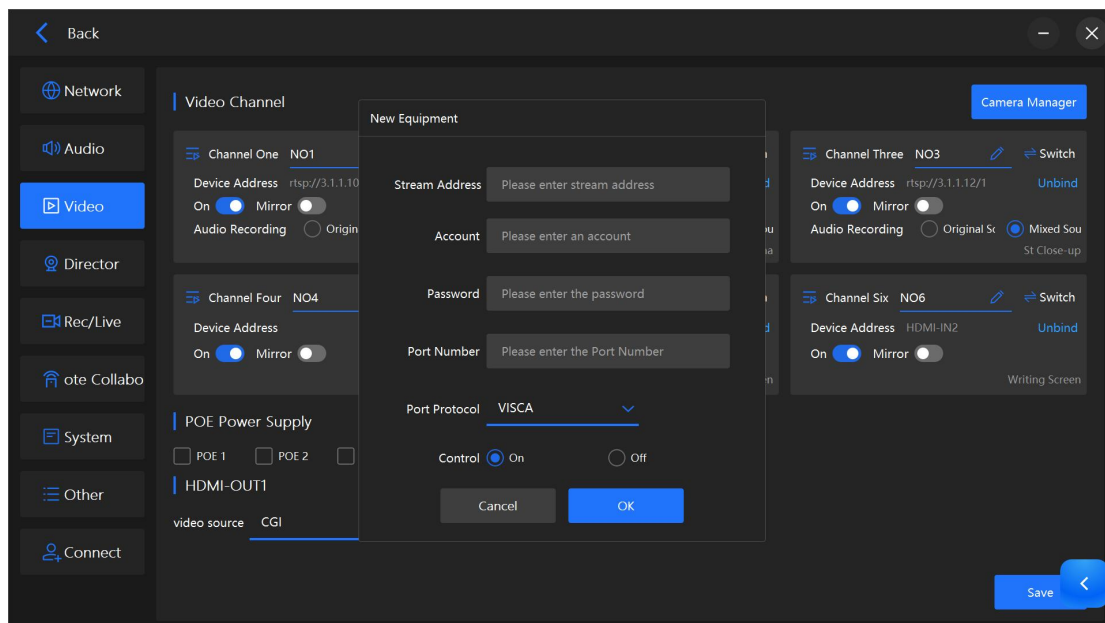
POE Power Supply. Check to enable POE power supply, and the LAN port power supply will take effect.

Video Channel Control. Each channel can be enabled/disabled independently.

Discover New Devices. Tap [Device Found] to automatically detect devices on the local area network (LAN) and display corresponding IP addresses. Tap [Add] to add the detected devices to the camera list. Users can also tap [Refresh] to update the discovery list.



Add New Device. Tap **[Equipment]** to display a popup window, where users can enter information such as stream address, username, password, port, and protocol. Users can also control the device's activation and deactivation.

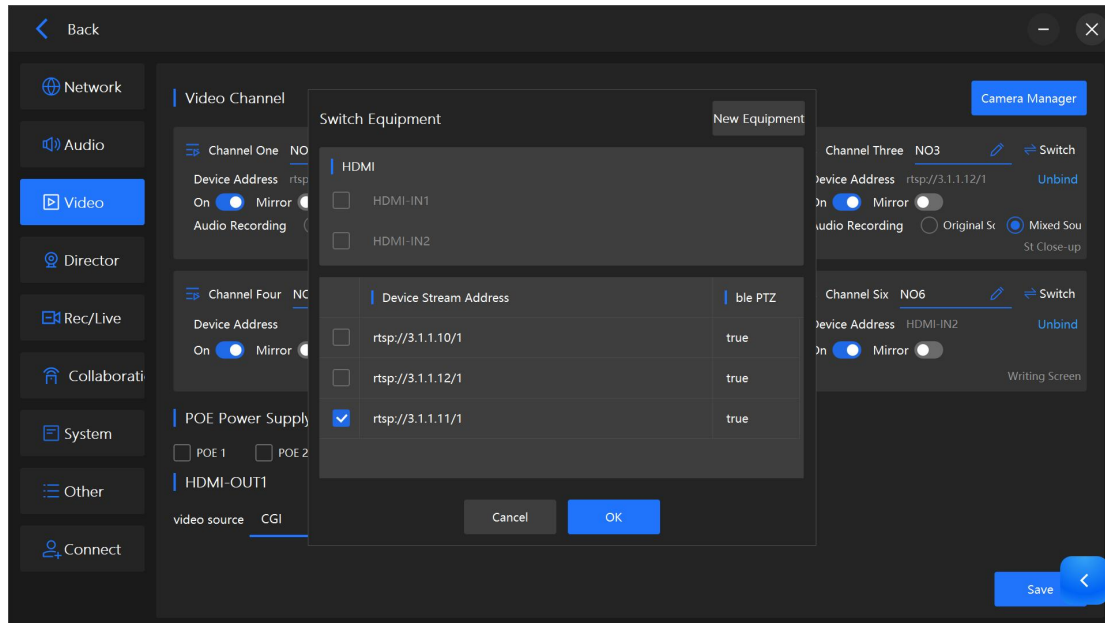


Initialization Function. When adding cameras via the **[Devices Found]** feature, first check if the IP addresses of the detected cameras are on the same subnet as the Internal POE IP.

Cameras can be added and used directly under the same subnet. If not, initialize each camera's IP address. Tap **[Initialize]** to trigger automatic restart; once restarted, tap **[Refresh]** and add the initialized IP to start using the camera.

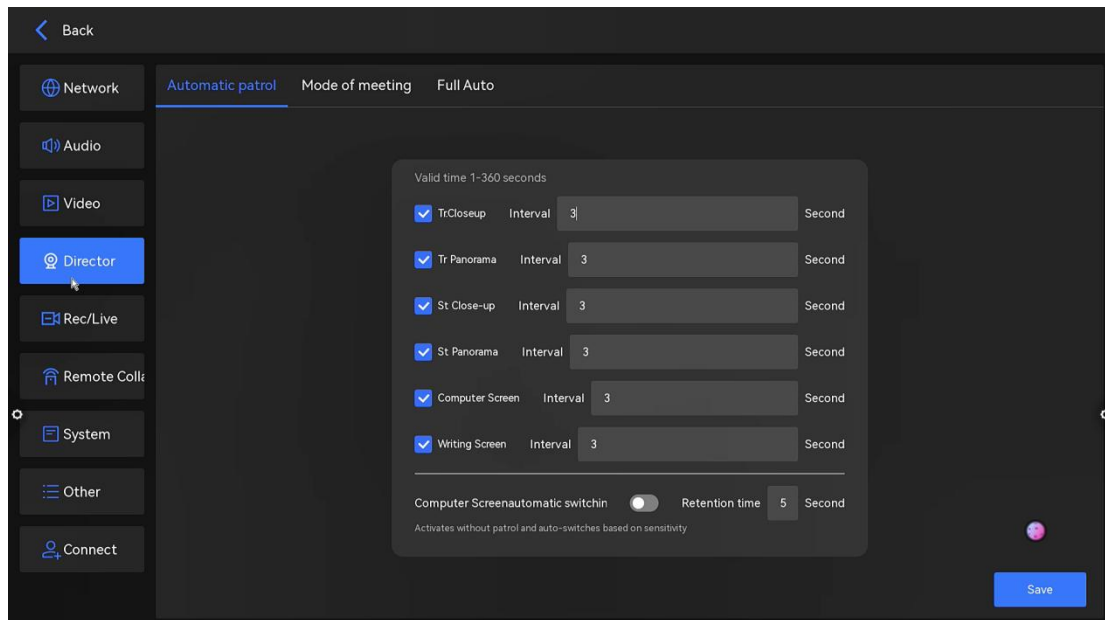
Channel Switching. Tap the **[Switch]** button of the channel to display the device list.

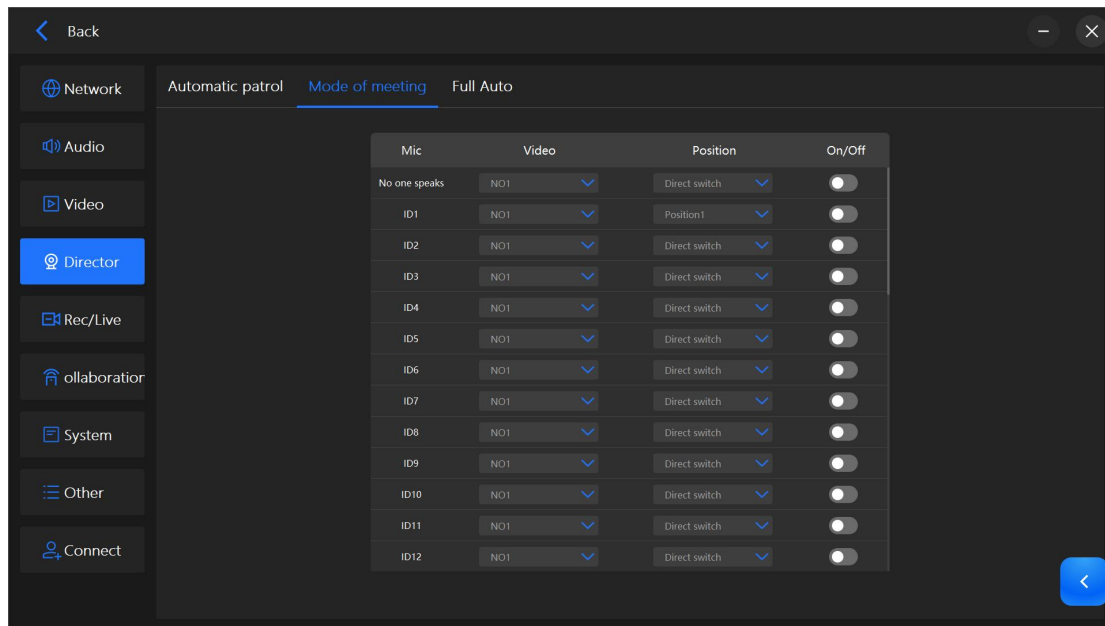
Select either HDMI or Stream Address, then tap **[Save]** to complete the device switch.



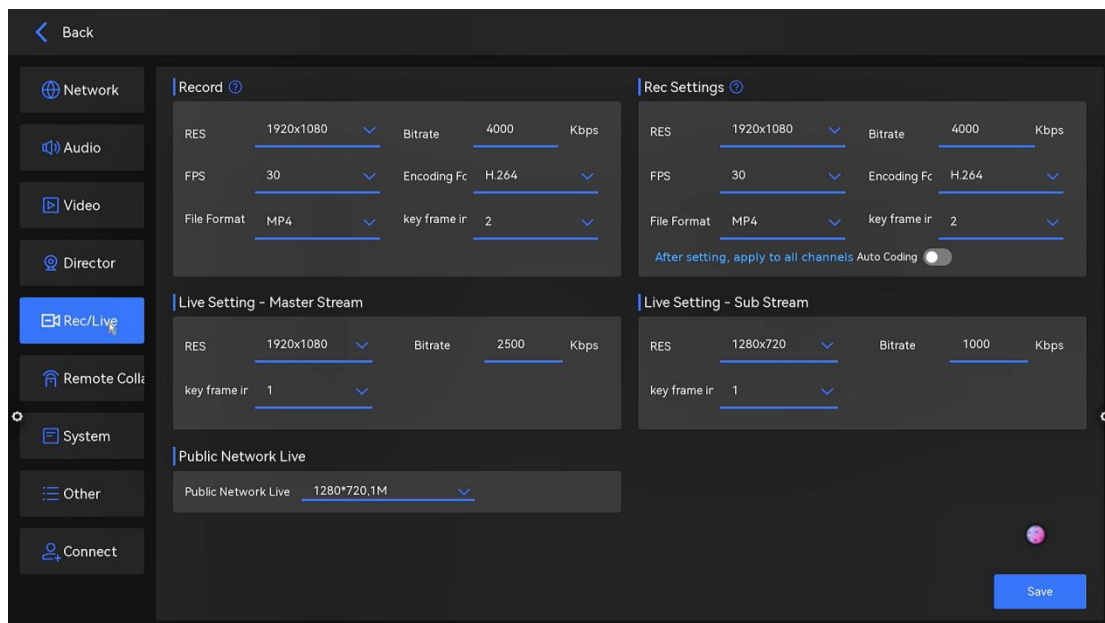
8.3.4 Director

Three director sessions: **Auto-patrol**, **Mode of Meeting**, and **Full Auto**. The patrol interval and composite screen retention time can be set here.





8.4.5 Recording/Live Streaming



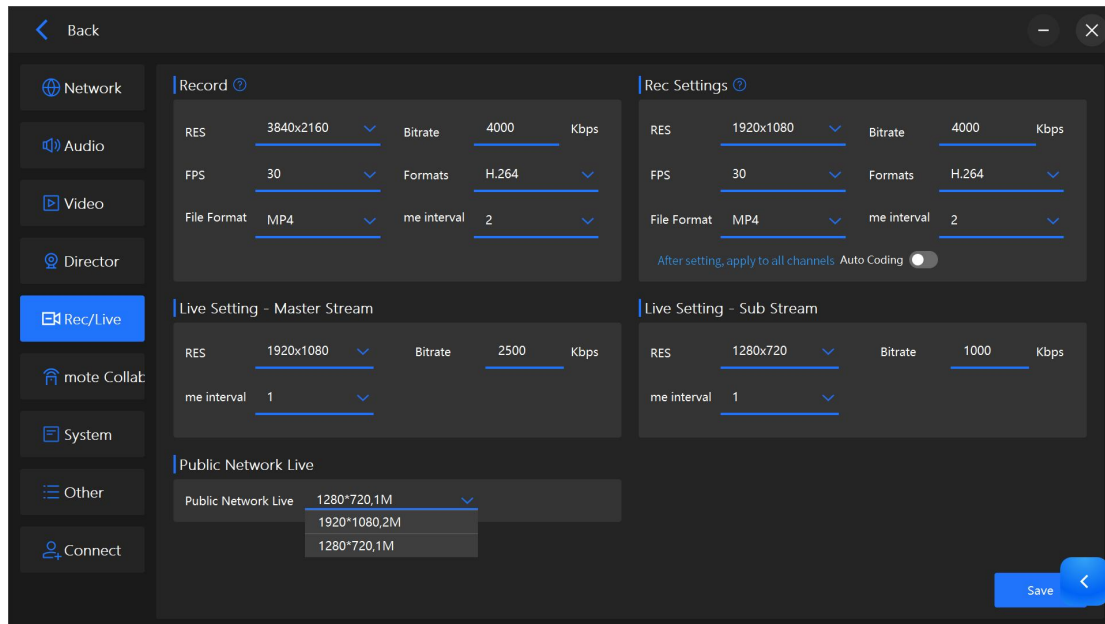
Record. Parameters such as recording resolution, bitrate, FPS, encoding format, file format, and recording GOP are adjustable. Changes take effect immediately after tapping **[Save]**.

Rec Settings. Resource Recording. For the recording parameter configuration of 6-channel video sources, adjustments to recording resolution, bitrate, frame rate, encoding format, file format, recording GOP, etc., are supported. Changes take effect upon tapping **[Save]**.

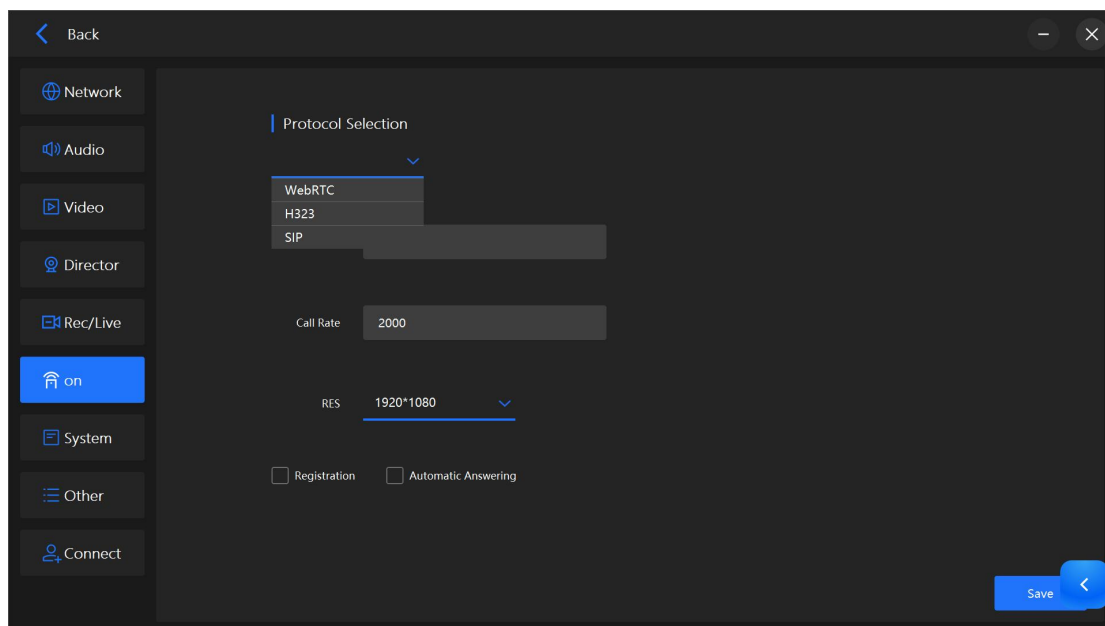
Live Streaming-Master Stream. Corresponding to the ultra-high-definition (UHD) stream, it supports switching parameters such as resolution, bitrate, and live GOP.

Live Streaming-Sub Stream. Corresponding to the standard-definition (SD) stream, it supports switching parameters such as resolution, bitrate, and live GOP.

Public Network Live. Two options for public live streaming.



8.3.6 Remote Collaboration



Remote Collaboration supports switching between three protocols: **WebRTC**, **H.323**, and **SIP**.

WebRTC Protocol. No need to install plugins or clients. Achieve low-latency real-time
www.weonex.com

interaction directly via web browsers or devices. Changes take effect upon tapping [Save].

H323 Protocol. Supports adjustments to the *listening port, call rate, and resolution*, as well as enabling registration and auto-answer functions.

The screenshot shows the 'Protocol Selection' screen for H323. The left sidebar contains menu items: Network, Audio, Video, Director, Rec/Live, te Collabora (highlighted), System, Other, and Connect. The main area is titled 'Protocol Selection' with a dropdown menu set to 'H323'. Below this, there are input fields for 'Listening Port' (1720), 'Call Rate' (2000), and 'RES' (1920*1080). At the bottom, there are two checkboxes: 'Registration' and 'Automatic Answering', both of which are unchecked. A blue 'Save' button is located at the bottom right.

SIP Protocol. Supports adjustments to the *name, server port, bitrate, resolution*, and *transmission protocol*, as well as enabling registration and auto-answer functions. For SIP registration settings, parameters such as the proxy server, username, authentication name, and password are configurable.

The screenshot shows the 'Protocol Selection' screen for SIP. The left sidebar is the same as the H323 screen, with 'te Collabora' highlighted. The main area is titled 'Protocol Selection' with a dropdown menu set to 'SIP'. Below this, there are input fields for 'Display Name' (WX), 'Server Port' (5060), 'Bitrate' (2000), 'RES' (1920*1080), and 'Transmission Protocol' (UDP). At the bottom, there are two checkboxes: 'Registration' and 'Automatic Answering', both of which are unchecked. A blue 'Save' button is located at the bottom right.

8.3.7 System

Disk Format. Tap **[Format]**, confirm in the popup, and the disk files will be cleared.

Online Update. After binding to the public network platform, tap **[Online Update]** to retrieve version update information. If a new version is available, users can download and install it.

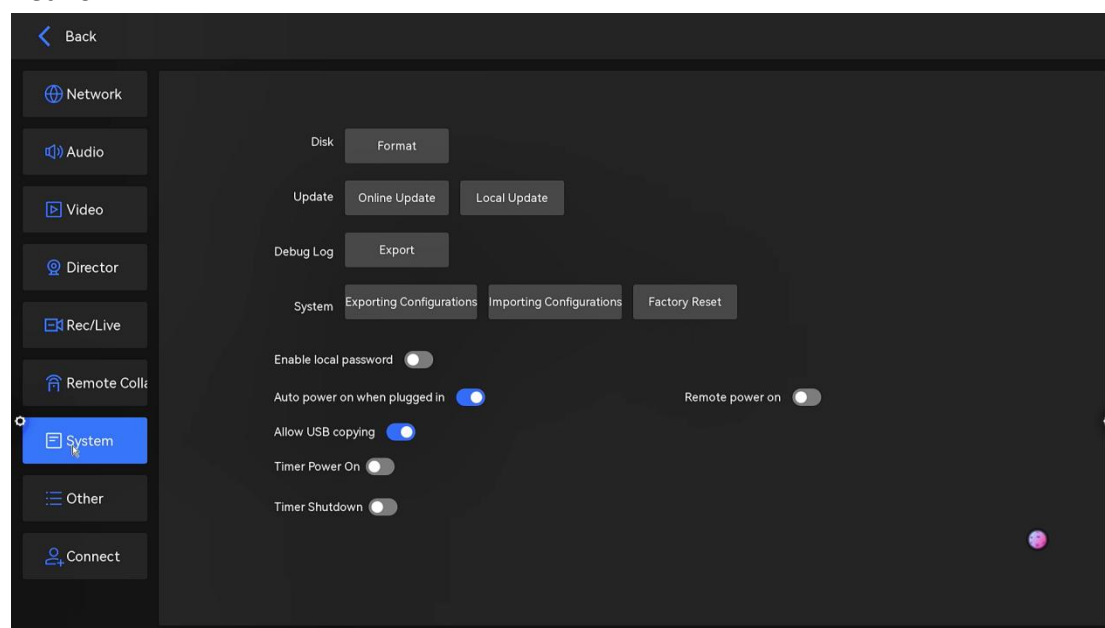
Local Update. Insert a USB drive with the latest firmware into the recording device and tap **[Local Update]**. Then the device will read the installation package and complete the local update.

Debug. After inserting a USB drive, tap **[Export]** to export the device's log information since the last startup.

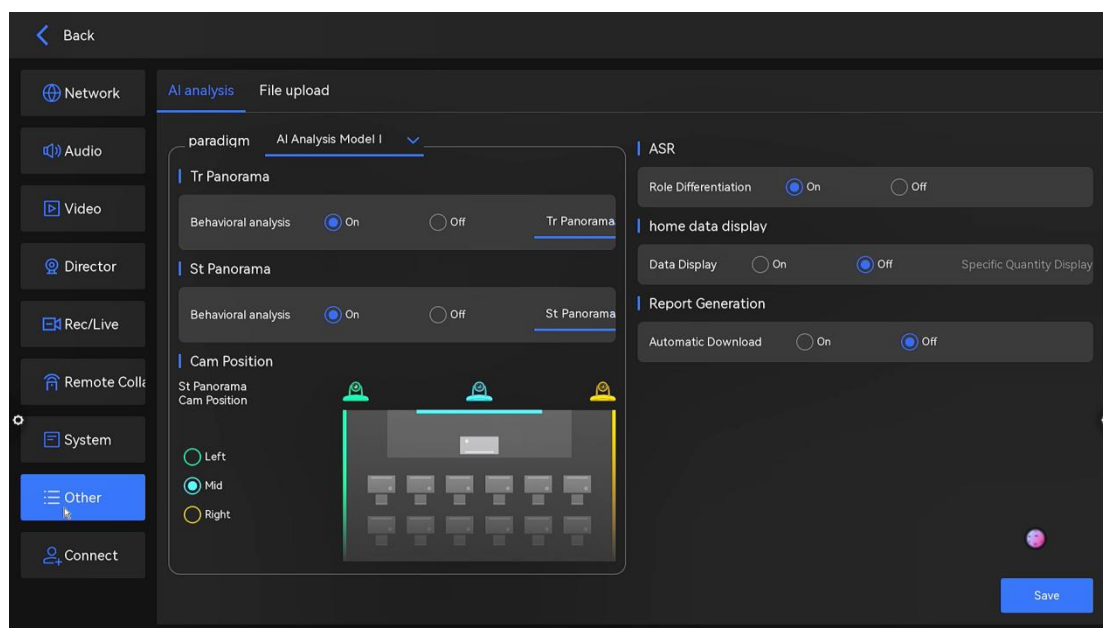
System. Tap **[Factory Reset]** to restore all system configurations to their factory default settings.

Power-on Auto Startup. When enabled, the device starts automatically upon power supply.

Remote Power-on. When enabled, the device can be started remotely via the network.



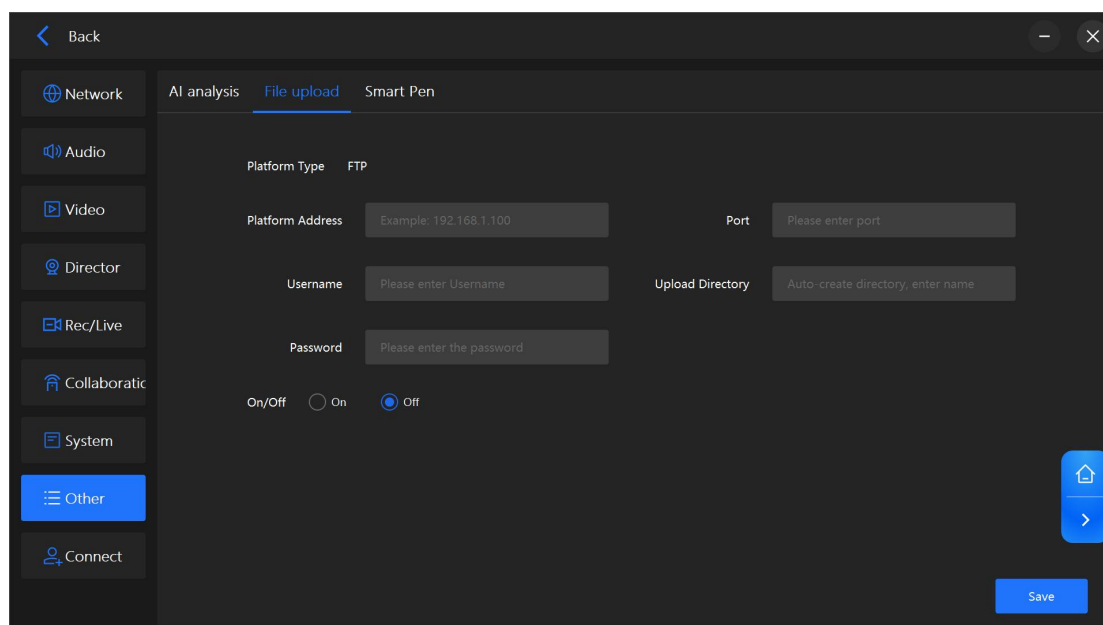
8.3.8 Other



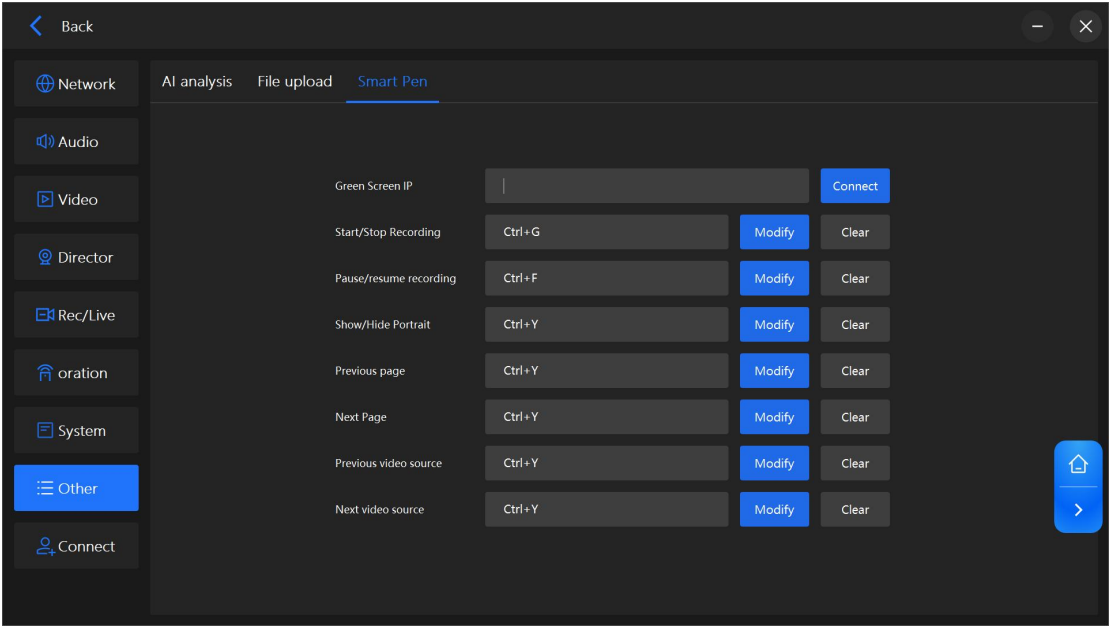
AI Analysis. It offers two modes: *Teacher Panorama* and *Student Panorama*.

Only Student Panorama analysis is displayed on the recording device, while Teacher Panorama analysis is shown on the platform.

When Behavior Analysis is disabled, the device stops analyzing the video feed.



File Upload. Supports FTP server. Enter and save server address, upload directory, username & password. Select files in File Management to transfer. Enable/disable FTP server manually. When disabled, files will be uploaded to the platform by default.



Smart Pen.

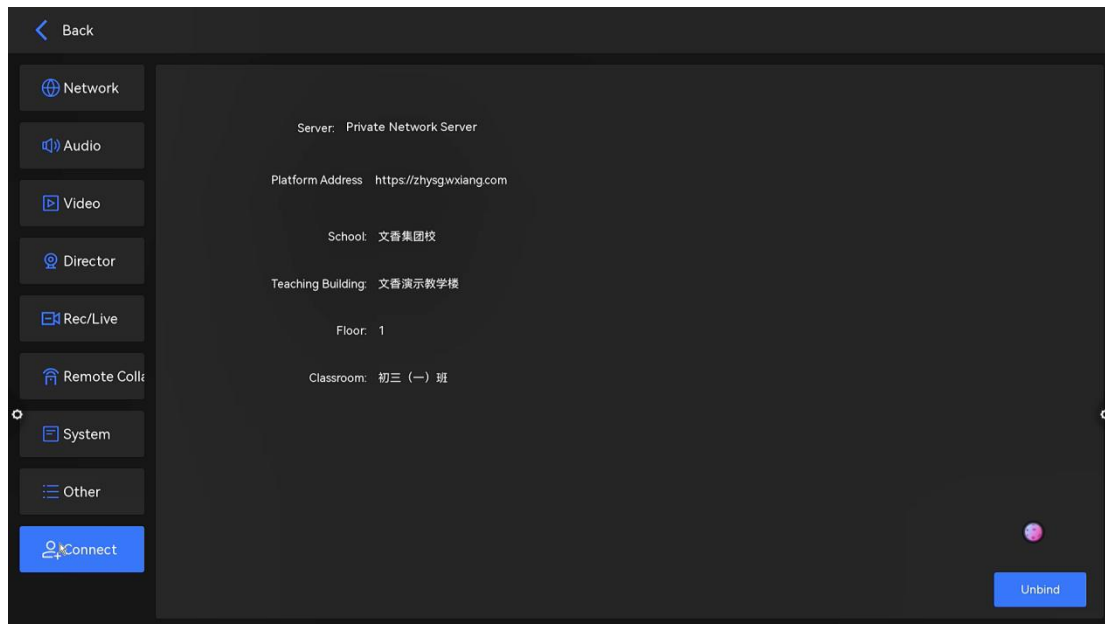
Green Screen IP. Enter the IP address of the computer with the green screen software installed.

Smart Pen Shortcuts. Supports custom shortcut keys. After setting, press the keys to trigger the function on the recording device.

Setup Steps. Tap [Clear] next to the key function, press the desired key on the smart pen, and tap [Confirm] once set up. Repeat this process for all keys in sequence—note that duplicate shortcut keys are not permitted—to start using the smart pen features.

8.3.9 Connect

Overseas Public Network Server default.



IX. Audio Interface

DMIC: Digital Microphone Interface.

USB 2.0: Array Microphone Receiver Interface.

Line INL/LNR: 6.35mm Stereo Audio Input Interface.

Line In: 3.5mm Audio Input Interface.

Line Out: 3.5mm Audio Output Interface.

X. Main Board Interface

(1) POE: Camera Power Supply & Data Transmission Interface

(2) LAN(Local Area Network): Recording host Network Interface

(3) Onboard Audio/Serial Ports-Line Out/In, RS232(Note: Use the right rear audio interfaces for audio connections.)

Line In: Onboard Audio In

Line Out: Onboard Audio Out

RS232: Serial Device Connection

(4) Recording Onboard Interfaces-HDMI in/HDMI out/Type-C/USB/Line Out/Line In

HDMI In: Audio/Video signals for recording. Smart Panels/Laptop compatible.

HDMI Out: Outputs recorded video. External monitor compatible.

HDMI Out1:Outputs composite video;

HDMI Out2: Outputs interactive video(composite video when no interaction)

HDMI Out3: Outputs the director interface.

Type-C: Audio/Video interface for third-party conferencing software.

USB: For local system upgrade, copy, and smart pen connection.

(5) Expanded USB

USB expansion interface.

XI. Wireless Microphone

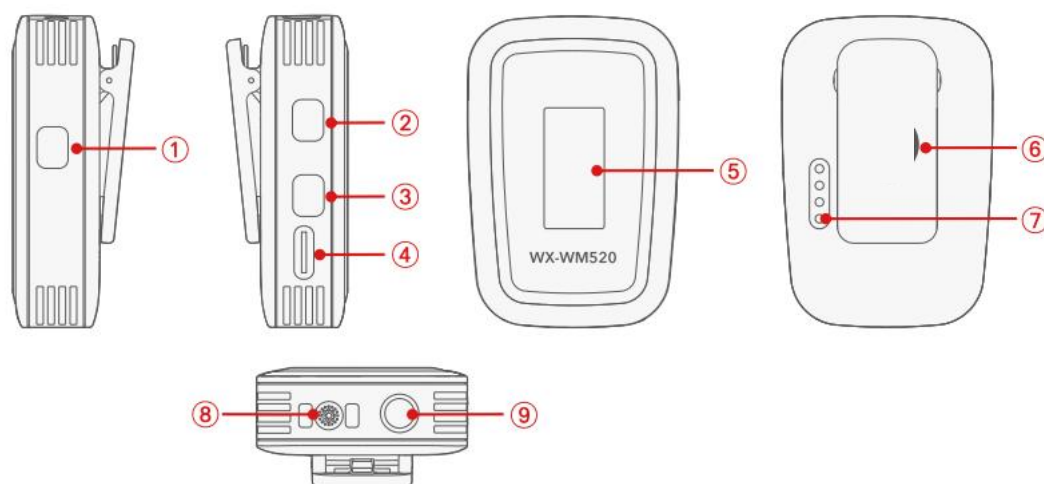
11.1 General Introduction

The wireless microphone delivers exceptional, broadcast-quality sound to smartphones, tablets, computers, DSLR, camcorders, recorders, and other audio/video recording devices. It features capabilities of low-latency and up to 100 metres of operating range. It is ideal for instrument recording, live streaming, vlogging, mobile journalism and more.

Built-in omnidirectional microphone, the transmitter is small and light enough to clip to shirts and clothing, or you can use it as a belt-pack transmitter with the included lavalier microphone. The included charging case allows you to charge the transmitter(s) anywhere and can be recharged or powered via the USB-C DC 5V port. The WX-WM520 system operates on the 2.4GHz spectrum and automatically hops to free channels to avoid static noise and audio dropouts.

11.2 Product Structure

Body-pack Transmitter with OLED Display and Microphone.



(1) Power/Mute button

Function	Operation
Power ON/OFF	Press and hold for 2 seconds
Mute ON/OFF	Press

(2) +/-SET button

Function	Operation
+	On home screen, short press to increase mic gain. On menu screen, short press to select different functions or values shown on the display
SET	On home screen, long press to enter the menu screen. On menu screen, long press to enter the displayed menu. Then, long press again to confirm your option.

(3) Button

Function	Operation
-	On home screen, short press to decrease mic gain. On menu screen, short press to select different functions or values shown on the display
BACK	On menu screen, long press to return to home screen.

(4) USB-C Charging Port: DC 5V

(5) OLED Display: Display menus, please refer to "OLED Display Introduction" for more details.

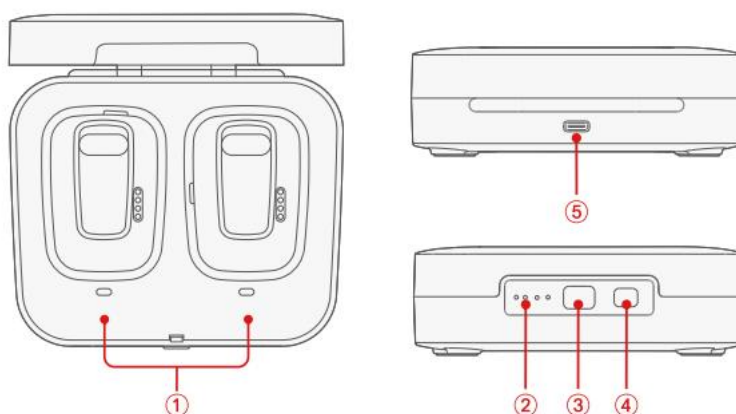
- (6) Belt Clip
- (7) Charging Contacts
- (8) Built-in Microphone
- (9) Mic/ Line Input Jack: It can be connected to the 3.5mm lavalier microphones, and other 3.5mm microphones or line-in devices.

11.3 Charging Case

(1) Transmitter Charging Indicator

Charging = Static red (Transmitter's battery level indicator flashes in cycle.)

Fully charged = Light off (Transmitter's battery level indicator is static and full.)



(2) Case Power Capacity Indicator

Indicator	Status
	Charging (Blinks blue light in cycle)
	Full charged
	Current battery level(75%)
	Low battery(25%)
	Battery runs out/ Case closed
	Charging Microphone(s) in the case(Blinks blue light for 1 minute)

(3) OPEN Button

(4) Case Battery Detection Button

Press the button, then the power capacity indicator of the charging case lights up, showing the current remaining battery. Note: Press the detection button as case closed, and its power capacity indicator will light on for 3 seconds then off.

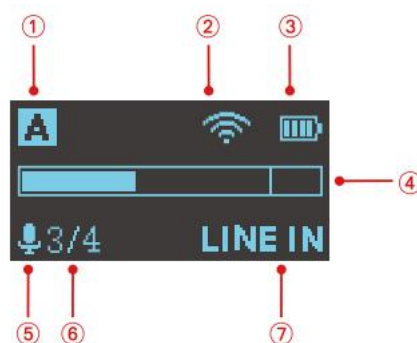
(5) USB-C Charging Port (Dc 5V)

Note: The transmitter will automatically turn on after opening the charging case and turn off after being placed in the case for 5 seconds or closing the case for 1 minute.

11.4 OLED Display Introduction

Home Screen

If no operation is performed within 20 seconds on menu screens, the display will automatically return to home screen.



(1) Channel Group Icon

 The channel A/B is successfully paired.

 The channel A/B is unpaired.

 Channel is unknown. (usually occurs when the transmitter restores default settings)

(2) RF Level Indicator

Indicates the current signal level.

 Signal is strong (Paired successfully)

 Signal is weak (Paired successfully)

 No signal (Disconnected)

(3) Battery Level Indicator

Displays the battery level. Please recharge the device immediately when the blank

indicator starts flashing

(4) Audio Input Level Meter

Displays the audio input level.

(5) Mute Indicator of Mic



Mute ON



Mute OFF

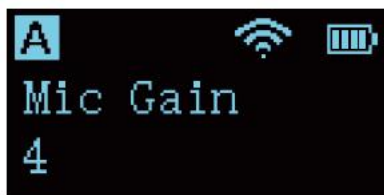
(6) Mic Gain

On home screen, press +/- button to adjust the volume of microphone. The setting is retained even after the power is turned off.

(7) Input Mode

Displays the what input mode of the TX transmitter is currently set to, either MIC IN or LINE IN.

Menus Introduction



Mic Gain: Adjust the microphone's input gain level

from 0 to 4. Default is "4".



Input Mode: The input mode can be selected to

Mic In or Line In. When the input mode is Mic In mode, the transmitter can be connected to the included lavalier microphone, or other microphones with a 3.5mm output. When the input mode is Line In mode, the receiver can be connected to line-level output devices. The system's default is "Mic In".



Set Mute Key: Enable or Disable mute key button

function. Default is "Enable".



Set Backlight: Set backlight to Always On or On for

10, 30, or 60 seconds. Default is "On".



Language Setting: English or Simplified Chinese)

are available. Default is English.



Restore Default Setting: Yes: restores default

settings No: exits restore default settings.



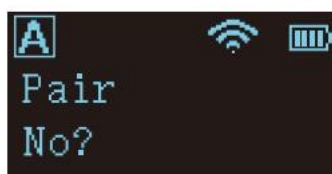
Pair Setting: For details of operation, please refer

to "Operation Guide".

11.5 Operation Guide

(1) Press and hold for 2 seconds to power on the transmitter(s), and follow below steps to make the transmitter(s) into pairing status:

- a. Press and hold the SET button to enter menu screen.
- b. Use the + or -button to display the Pair setting menu.



- c. Press and hold the SET button to select the menu.
- d. Select "Yes", press and hold the SET button to confirm, then the transmitter(s) will enter pairing status.

(2) Turn on your mobile machine for recording and broadcasting, please refer to the user manual comes with your machine.

(3) Pairing

Step1: Enter 0x55 0x01 0x02 to check the current status code of your machine.

Status Code	Indicator Status
0x55 0x02 0x03 0x01	Unpaired or paired unsuccessfully
0x55 0x02 0x03 0x03	Pairing
0x55 0x02 0x03 0x02	Paired successfully

Step2: If you get the code indicating unpaired or paired unsuccessfully:

- a. Enter 0x55 0x01 0x01 to send a pairing command to your machine.
- b. Follow Step1 to check the current status code of your machine.
- c. If you get the unpaired code again, please follow Step1 to send a pairing command to your machine again.
- d. Follow Step1 to check the current status code of your machine
- e. If you still get the unpaired code, please follow the above steps.

If you get the status code indicating pairing but there is no transmitter(s) to pair with, the machine will automatically exit pairing mode after 120 seconds. You can follow the above steps to pair it with the transmitter(s).