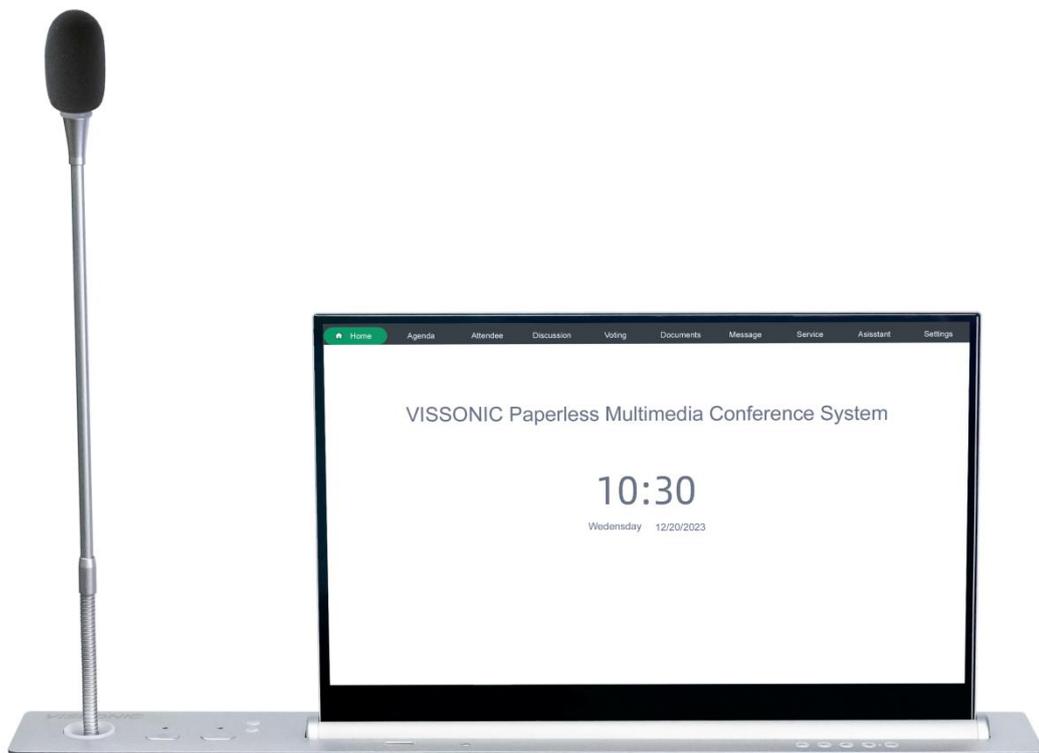




Paperless Conference System Retractable Screen User Manual

V1.0



VISSONIC ELECTRONICS LIMITED

The meaning of symbols

■ Safety instructions

For your safe and correct use of devices, we use a lot of symbols on the devices and in the manuals, demonstrating the risk of body hurt or possible damage to property for the user or others. Indications and their meanings are as follow. Please make sure to correctly understand these instructions before reading the manual.

	<p>This is A level product, which may cause radio interference in the living environment. In this case, users may need to take the feasible measures to get around the interference.</p>
	<p>Remind users that the dangerous voltage without insulation occurring within the equipment may cause people suffer from shock.</p>
	<p>CE certification means that the product has reached the directive safety requirements defined by the European Union. Users can be assured about the use of it.</p>
	<p>SGS certification means that the product has reached the quality inspection standards proposed by the world's largest SGS.</p>
	<p>This product passed the ISO9001 international quality certification (certification body: TUV Rheinland, Germany).</p>
	<p>Warning: in order to avoid electrical shock, do not open the machine cover, nor is the useless part allowed to be placed in the box. Please contact the qualified service personnel.</p>

■ General information instructions

	<p>It lists the factors leading to the unsuccessful operation or set and the relevant information to pay attention.</p>
---	---

Important note



Warning

In order to ensure the reliable performance of the equipment and the safety of the user, please observe the following matters during the process of installation, use and maintenance:

The matters needing attention of installation

- ◆ Connect to AC power only after completing all connections (including the power adapter). Once the product is connected to AC power, avoid frequent disconnection of components or devices, as it may cause electrical surges and damage the product.
- ◆ Do not forcefully insert the plug into its socket. If you encounter excessive resistance, ensure that the plug is inserted into the socket in the correct orientation.

Usage Environment

- ◆ To extend the lifespan of the device, it is recommended to operate it within the following environmental conditions: Temperature: 0° C to 40° C, Humidity: 30% to 90% RH.
- ◆ Design holes in the desk according to the specifications or instructions provided by the manufacturer. Incorrectly placed holes may hinder the device's heat dissipation, leading to damage. Leave sufficient space around the product for ventilation. Do not place the product in any enclosed space that restricts airflow around the product. Avoid placing any objects on or blocking the product's ventilation holes.

Power Supply

- ◆ Use the provided power adapter or an approved equivalent. Check voltage compatibility by comparing labels. Using unauthorized adapters may damage the product, voiding the warranty.
- ◆ Sudden power outages may damage the product. Please avoid connecting the product to power outlets that may experience accidental disconnection. During normal operation, do not attempt to hard reset the product by holding down the power button.
- ◆ When shutting down the product, please ensure to perform a complete shutdown procedure (via the user interface or gently pressing the power button).
- ◆ In lightning-prone areas, install surge protectors for electronic devices. During lightning storms, use devices correctly and unplug AC power plugs until the storm passes, then reconnect power.
- ◆ Please ensure not to interrupt power supply during software updates for the product.
- ◆ Do not spill water or other liquids on the device. If this happens, immediately disconnect the device's power.

Battery

- ◆ The product includes a built-in button cell battery, replaceable only by the manufacturer or authorized service center. Contact them for service. Incorrect battery replacement poses explosion risks; do not attempt on your own.

Preface

This manual mainly describes the use, performance parameters and troubleshooting of VISSONIC paperless retractable screen system - including retractable screen paperless configuration, functionalities and connection.

If the technical parameters and system usage in this manual are changed, the manufacturer will update the version of the manual. Please use the latest user manual.

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Version	Update	Date
1.0	Release	2024.6.21

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1. System overview

1.1. System features

The NETLINK G2 series is a paperless multimedia conference system that replaces traditional paper with display screens. It utilizes network technology to connect information from each seat, promoting information sharing and interactive meetings. Designed for flexibility, practicality, efficiency, and energy conservation, it features functions like flexible pre-meeting scheduling, in-meeting guidance, and post-meeting summary exports, facilitating efficient and eco-friendly meetings.

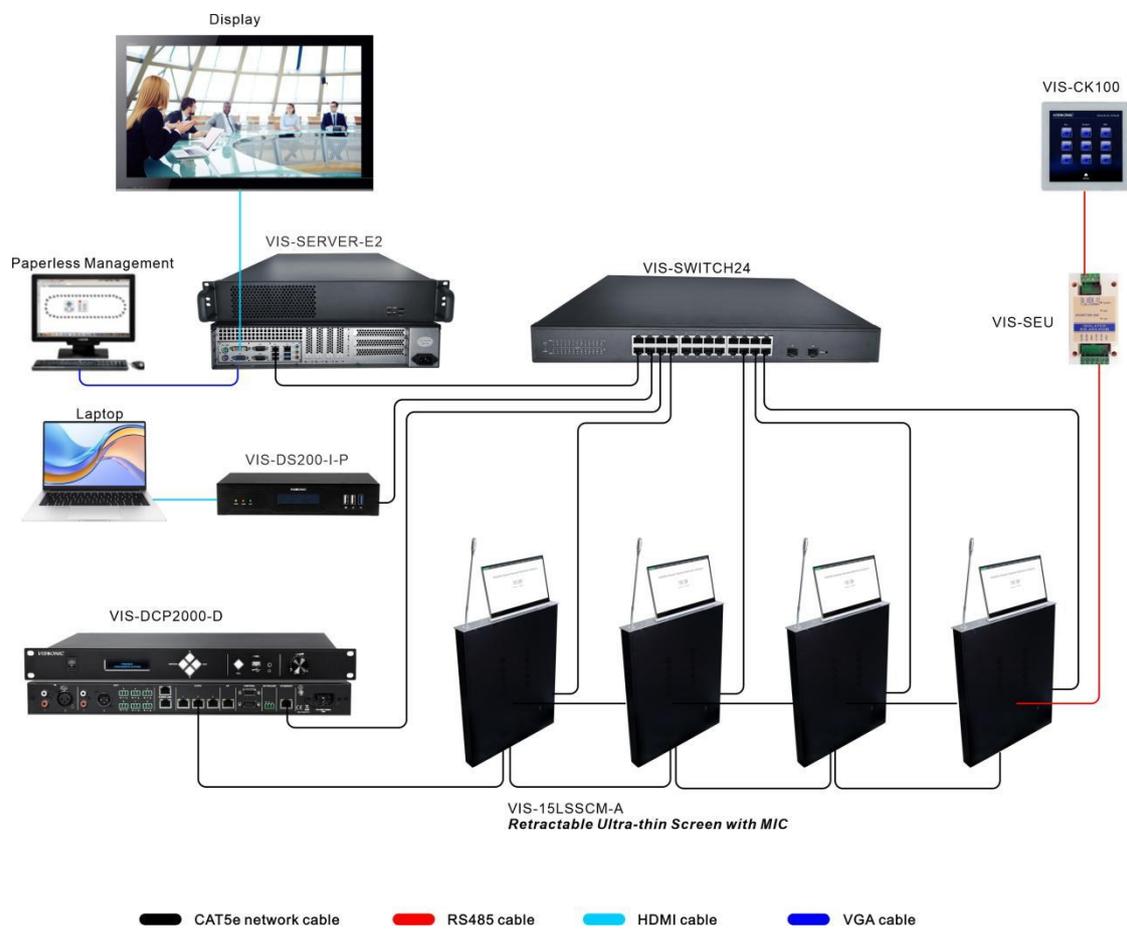


Figure 1.1 Paperless Lifting Screen System

1.2. System composition

Components of the lifting screen system:

- ✓ Paperless Server VIS-SERVER-E2/E2S
- ✓ Full Digital Network DCP Conference Processor VIS-DCP2000-D/W
- ✓ Core Network Switch VIS-SWITCH24/48
- ✓ Height-Adjustable Touch Screen VIS-15/17/18/21LSSC
- ✓ Height-Adjustable Touch Screen with Name plate VIS-15/17/18/21LDSC
- ✓ Height-Adjustable Touch Screen with Lifting MIC VIS-15/17/18/21LSSCM
- ✓ Height-Adjustable Touch Screen with Name plate and lifting MIC VIS-15/17/18/21LDSCM
- ✓ Height-Adjustable Touch Screen VIS-15/17/18/21LSSC-A
- ✓ Height-Adjustable Touch Screen with Name plate VIS-15/17/18/21LDSC-A
- ✓ Height-Adjustable Touch Screen with Lifting MIC VIS-15/17/18/21LSSCM-A
- ✓ Height-Adjustable Touch Screen with Name plate and lifting MIC VIS-15/17/18/21LDSCM-A
- ✓ VIS-CLIENT100 Client
- ✓ RS485 signal enhancement extension unit VIS-SEU
- ✓ Touch panel VIS-CK100
- ✓ Distributed Encoder VIS-DS200-I-P

2. Paperless conference system

2.1. Paperless Server VIS-SERVER-E2/E2S

2.1.1. Features and interfaces

The controller for a paperless multimedia conference system is equipped with server software for this purpose. It offers a GUI based on a B/S (Browser/Server) architecture via the network.

This system can manage multiple paperless multimedia conference rooms simultaneously and provides features such as conference room reservation management, conference device management, personnel information upload, conference theme setting, role permission management, conference data upload, and post-conference data archiving.



Figure 2.1.1.1 VIS-SERVER-E2 front and rear panels

Front panel:

No./Name	Description
1. Power/Restart button	Power on/off and restart the controller.
2. USB Slot	To insert USB disk and other devices.

Rear panel:

Interface	Introduction
3. PS/2	Connect keyboard and mouse.
4,5. DVI and VGA	Video transmission interfaces.
6. RS232	Used for data transmission control, monitoring data acquisition,

	communication device and embedded system.
7,9. Dual network ports	Used for data Communication, connectivity, protocol Support, remote Management
8. 2 USB 2.0 ports, 2 USB 3.0 ports	Used for data storage or connecting to external devices.
9. Audio input/output interface	1 audio input/out interface,1 mic input interface for various types of audios.
10. Power inlet	Connect the controller to the main power supply with a power cable. 100-240V AC.



Figure 2.1.1.2 VIS-SERVER-E2S front and rear panels

Front panel:

No./Name	Description
1. Power button	Power on or off the controller.
2. USB Slot	To insert USB disk.
3. Restart Button	To restart controller.

Rear panel:

Interface	Introduction
4. Power inlet	Connect the controller to the main power supply with a power cable. 110-240V AC. Power Switch controls on/off.
5,6. PS/2 and USB interface	Connect external devices such as mouse and keyboard.
7. DVI/VGA/HDMI interface	Three video transmission interfaces.
8,12,13. RS232	Used for data transmission control, monitoring data acquisition, communication device and embedded system.
9. Dual network ports	Used for data Communication, connectivity, protocol Support, remote Management
10. 4 USB 3.0 ports	Used for data storage or connecting to external devices.
11. Audio input/output	1 audio input/out interface,1 mic input interface for various types of

interface	audios.
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2.1.2. Installation

The server can be installed inside a standard 19-inch rack with standard mounting screw holes.

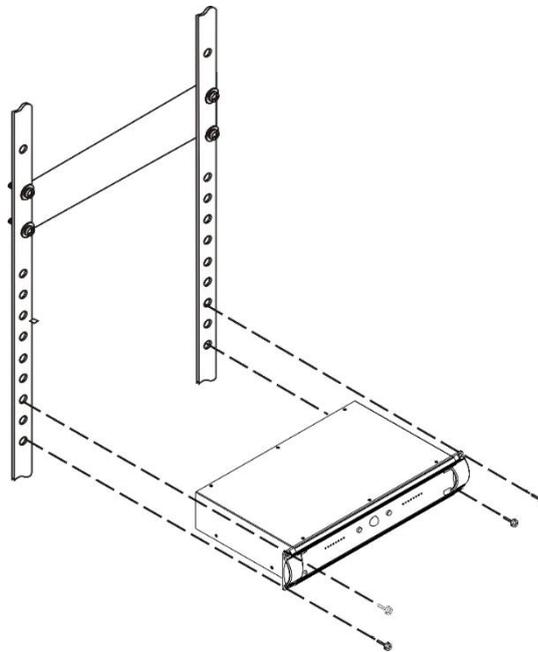


Figure 2.1.2 Mounting the server

2.1.3. Connection

2.1.3.1. Connecting the power supply

Use the attached power cable to connect the conference controller to an external power socket.

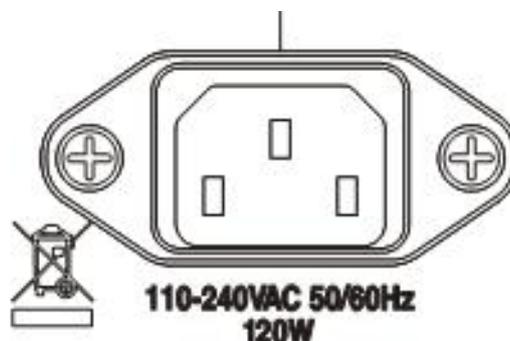


Figure 2.1.3.1 Power interface of the server

Warning: The controller power supply needs to be well grounded to avoid accidents that endanger personal safety.

2.1.3.2. Connecting the switch

Configure the left network port of the dual network card settings server as the interface connected to the switch using CAT5e cable. This setup integrates the lift screen conference system.

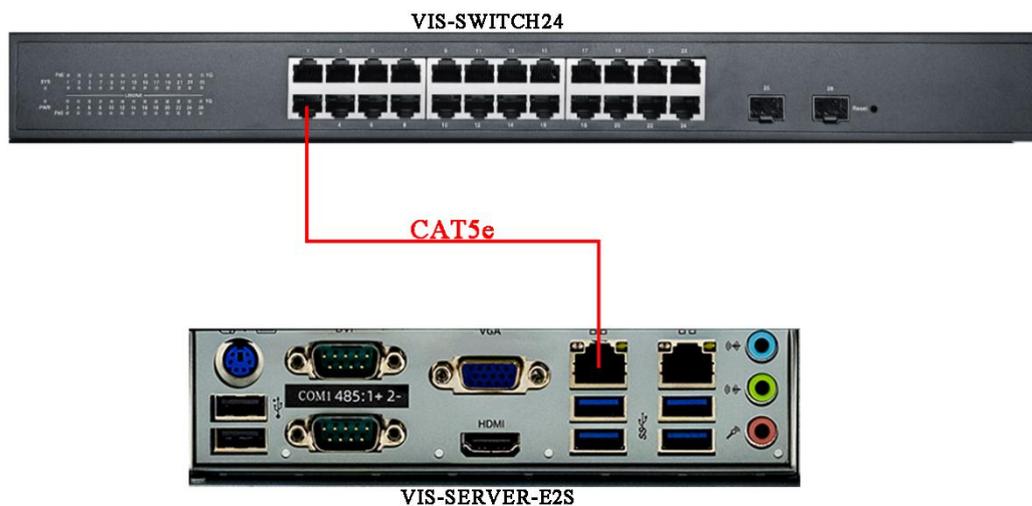


Figure 2.1.3.2 Server connect to switch

2.2. VIS-DCP2000-D/W conference controller

2.2.1. Features and interfaces

VIS-DCP2000-D/W is a conference controller that supports wired Ethernet connection. This controller controls all connected MIC of lifting screen.

Configure whole conference system with the buttons on the front panel of the conference controller in the system.

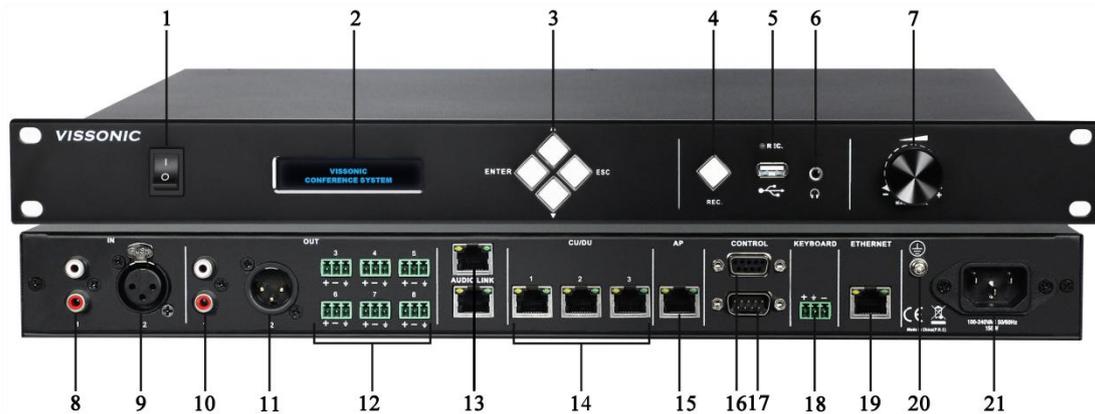


Figure 2.2.1 VIS-DCP2000-D/W front and rear panels

Front panel:

No./Name	Description
1. Power Switch	Power on or off the controller.
2. Display	Show the current status or the result of operation, menu list etc.
3. Operate Buttons	4-direction buttons for menu operation, confirm and exit.
4. Audio Recording	Press to start/stop recording the audio of whole conference content.
5. USB Slot	To insert USB disk (Up to 32G, FAT32) for recording, with status light indicator which is flashing during the recording.
6. Headphone Socket	Headphone connection.
7. Knob	Control volume level of the system.

Rear panel:

Interface	Introduction
8. Audio Inputs (IN 1)	RCA audio input from external audio sources like MP3.
9. Audio Inputs (IN 2)	XLR audio input from external audio sources like Microphone and remote audio input.  To use the AEC echo cancellation function of the controller, the audio output of the video terminal must be connected to the IN2 input port.
10. Audio Outputs (OUT 1)	RCA audio output to external audio devices like PA system, loudspeakers etc. and can be set as zone 1 output.
11. Audio Outputs (OUT 2)	XLR audio output to external audio devices like Mixer, PA system etc. and can be set as zone 2 output.
12. Audio Outputs (OUT 3, OUT 4, OUT 5, OUT 6, OUT 7, OUT 8)	Phoenix audio output. OUT3 and OUT4 can be set respectively as zone 3 and zone4 output. OUT4 also can be set as echo cancellation remote audio output. OUT5, OUT6, OUT7, OUT8 is corresponding to the interpretation CH1, CH2, CH3, CH4.  OUT4 is used as audio output of the controller to the remote

	terminal when the AEC acoustic echo cancellation function is used.
13. Audio Link	Used for data transmission, and communication protocols.
14. CU/DU	It is used to connect chairman unit, delegate unit, interpreter unit or POE speaker. Hand in hand loop connection can be made between port 1 and port 2 or between port 2 and port 3.
15. AP (Only available for VIS-DCP2000-W)	Connect to 5GHz Professional Conference Access Point VIS-AP4C.
16. Control	Female DP9 connector is used to connect with camera auto-tracking controller.
17. Control	Male DP9 connector is used to connect with the camera chains or third-party central controller.
18. Keyboard	Connect to the camera control keyboard.
19. Ethernet	Connect to PC or switch for the software control.
20. Ground jumper	Connect the controller to the ground.
21. Power inlet	Connect the controller to the main power supply with a power cable. 100-240V AC.

2.2.2. Installation

The conference controller can be installed in a standard 19-inch cabinet. On both sides of the front panel are standard screw holes for mounting the conference controller in the cabinet. The installation diagram is as follows.

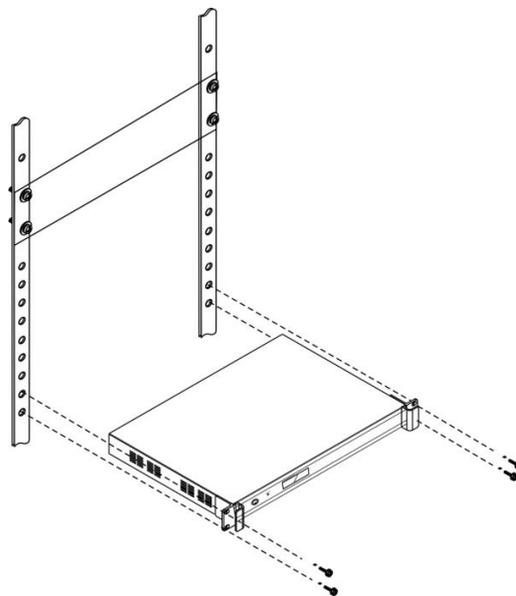


Figure 2.2.2 Mounting the conference controller

2.2.3. Connection

2.2.3.1. Connecting the power supply

Use the attached power cable to connect the conference controller to an external power socket.

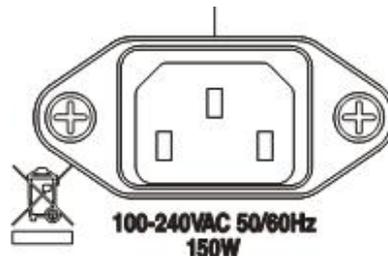


Figure 2.2.3.1 Power interface of the conference controller

Warning: The controller power supply needs to be well grounded to avoid accidents that endanger personal safety.

2.2.3.2. Connecting to lifting screen MIC

The CU/DU port of the controller via CAT5e cable is connected to the microphone control port at the bottom of the lifting screen to control the microphone's on/off switch. Each lift screen unit is then connected in series via Cat5e cables.

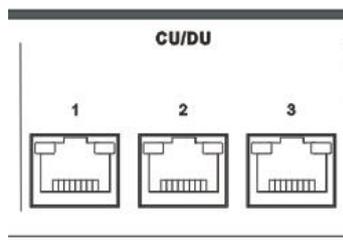


Figure 2.2.3.2 CU/DU conference unit ports

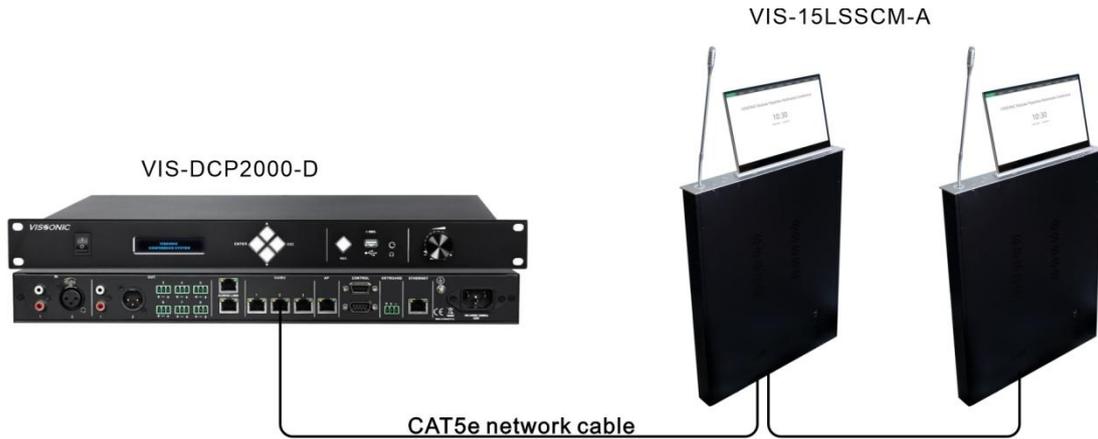


Figure 2.2.3.3 Conference controller connects lifting screen MIC

2.3. Core Network Switch VIS-SWITCH24/48

2.3.1. Features and interfaces

The switch acts as an intermediary device connecting the server, conference controller, and lifting screen units, enabling information exchange.

This Core Network Switch is a crucial component designed to enhance the efficiency and functionality of your paperless system. With its advanced features and capabilities, this switch provides seamless power and data transmission to connected devices, simplifying installation and management.



Figure 2.3.1.1 VIS-SWITCH24 front and rear panels

No./Name	Description
1. Ethernet interface	24 network interfaces are used to connect to different devices

2. 1000M SFP	2 Gigabit Ethernet ports
3.Reset	Reset the switch.
4.Power interface	Connect the power supply and switch

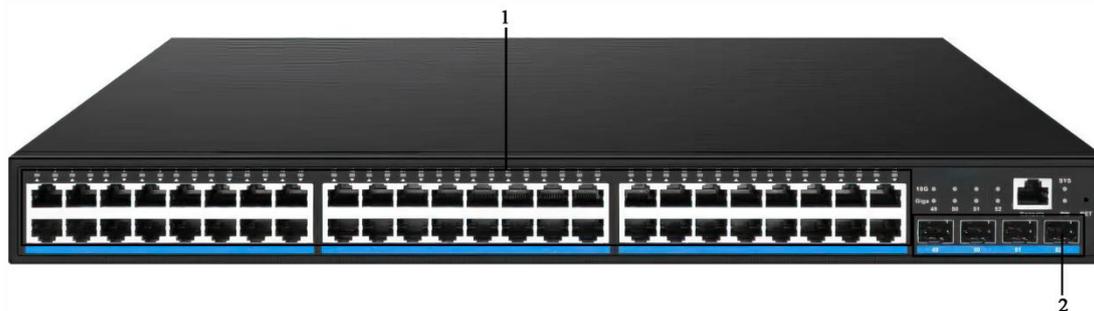


Figure 2.3.1.2 VIS-SWITCH48 front panel

No./Name	Description
1. Ethernet interface	48 network interfaces are used to connect to different devices
2. 1000M SFP	4 Gigabit Ethernet ports

2.3.2. Installation

The switch can be installed in a standard 19-inch cabinet. The installation diagram is as follows.

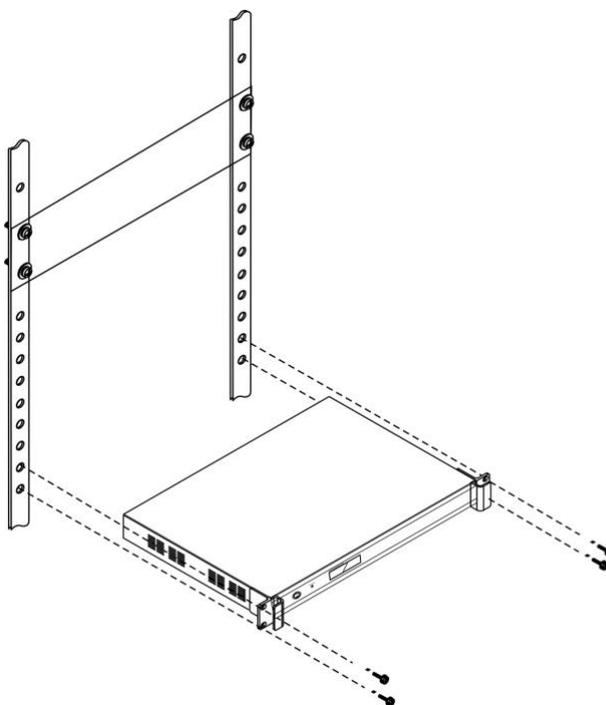


Figure 2.3.2 Installation of switch

2.4. Paperless lifting screen units

This product leverages advanced intelligent technology to deliver an HD touch display, smart lifting, automatic elevation, and intelligent control within a sleek, integrated aluminum design. It offers features such as automation, theft prevention, dust protection, and desktop beautification. Its versatility makes it suitable for various environments, including conferences, command centers, offices, hotels, classrooms, and studios.

2.4.1. VIS-15/17/18/21 LSSC, VIS-15/17/18/21 LSSC-A

Retractable ultra-thin HD Screen: **VIS-15/17/18/21 LSSC**,

Retractable ultra-thin HD Screen with integrated PC: **VIS-15/17/18/21 LSSC-A**



Panel description:



Figure 2.4.1.1 Top panel of lifting screen

Top Panel			
1	USB interface	5	Screen: Tilt backward
2	PC: On/Off	6	Screen: Tilt forward
3	Screen: Raise	7	Screen: Stop
4	Screen: Retract		

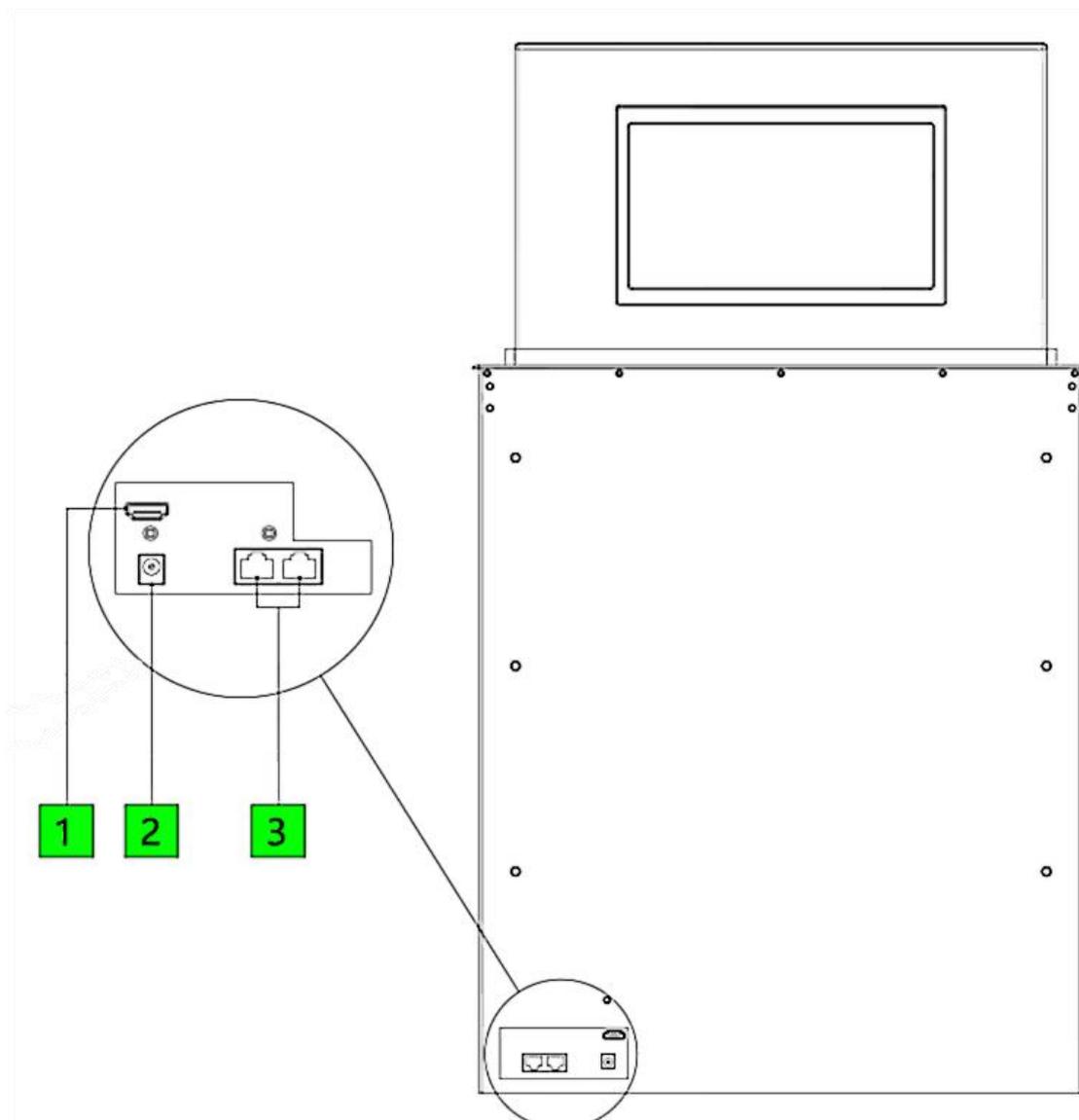


Figure 2.4.1.2 Lower panel interface of lifting screen

Device Interface Description			
1	HDMI-2 Signal Input	3	RS485/RS232 Control Port
2	DC-12V Power Input		

2.4.2. VIS-15/17/18/21 LDSC, VIS-15/17/18/21 LDSC-A

Retractable ultra-thin HD Screen with Nameplate: VIS-15/17/18/21 LDSC,
 Retractable ultra-thin HD Screen with Nameplate and integrated PC: VIS-15/17/18/21 LDSC-A



Panel description:



Figure 2.4.2.1 Top panel of lifting screen

Top Panel			
1	USB interface	5	Screen: Tilt backward
2	PC: On/Off	6	Screen: Tilt forward
3	Screen: Raise	7	Screen: Stop
4	Screen: Retract		

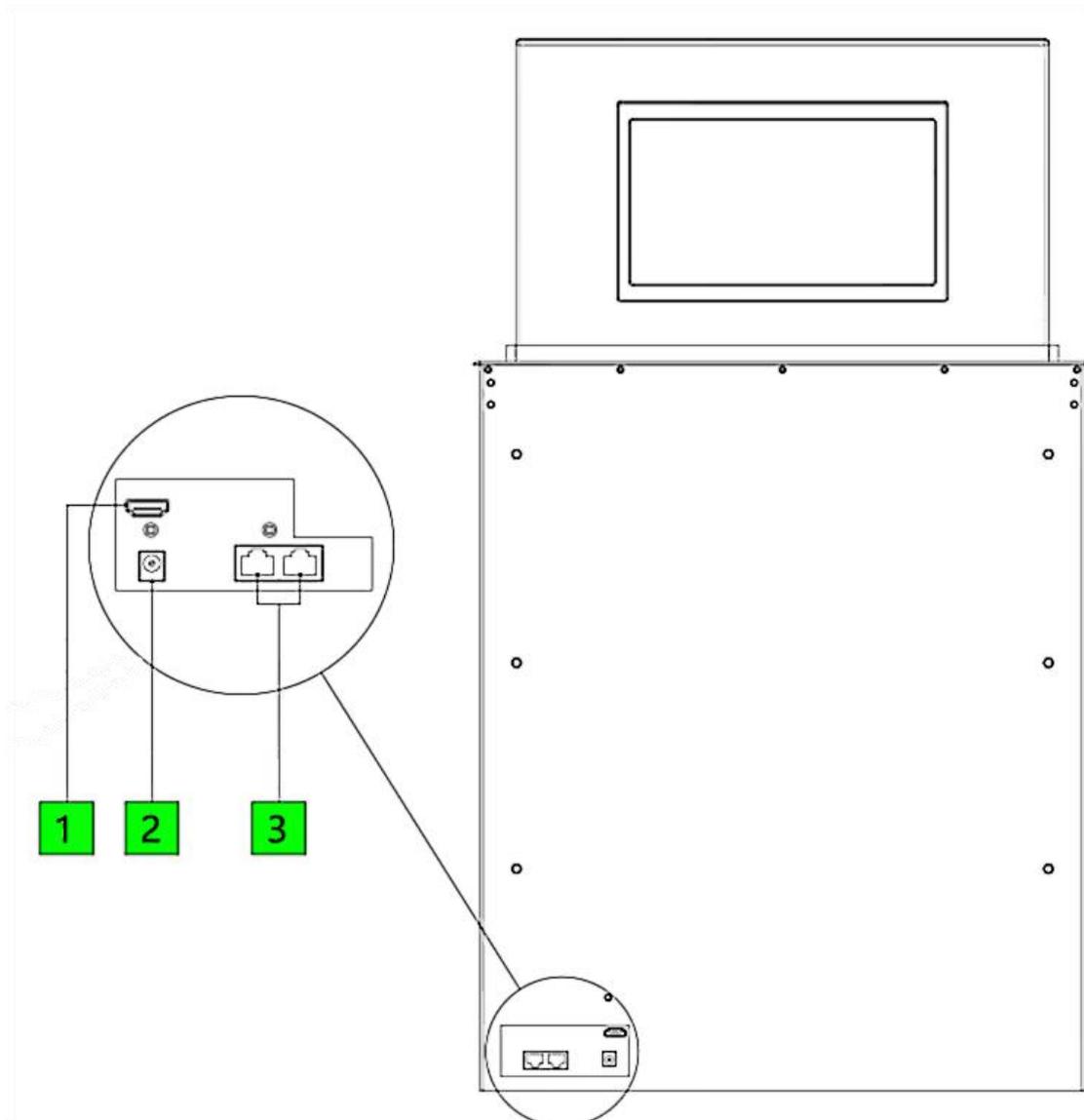


Figure 2.4.2.2 Lower panel interface of lifting screen

Device Interface Description			
1	HDMI-2 Signal Input	3	RS485/RS232 Control Port
2	DC-12V Power Input		

2.4.3. VIS-15/17/18/21 LSSCM, VIS-15/17/18/21 LSSCM-A

Retractable Ultra-thin Screen with MIC: VIS-15/17/18/21 LSSCM,

Retractable Ultra-thin Screen with MIC and integrated PC: VIS-15/17/18/21 LSSCM-A



Panel description:

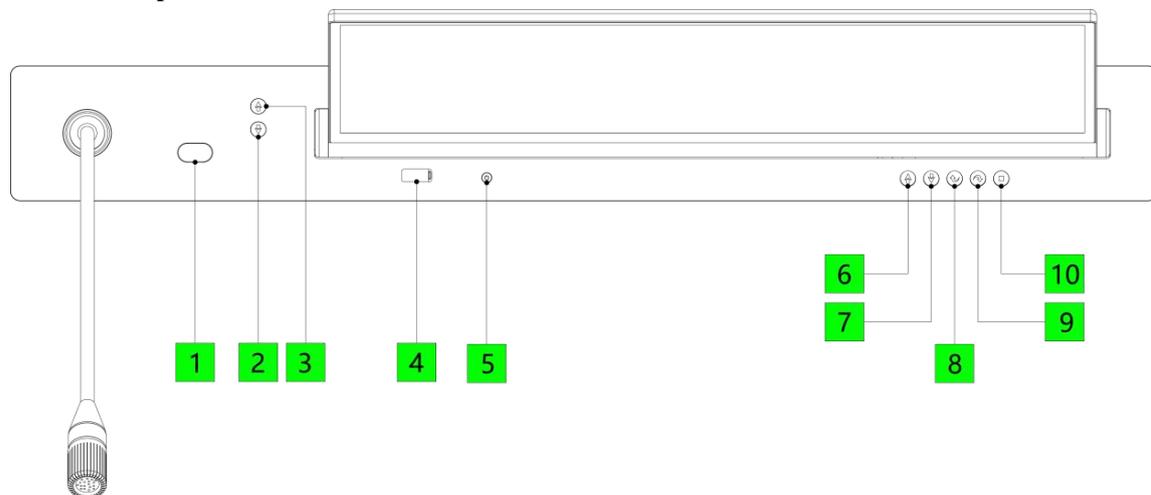


Figure 2.4.3.1 Top panel of lifting screen with MIC

Device Panel (with microphone)			
1	Conference microphone: On/Off	6	Screen: Raise
2	Conference microphone: Retract	7	Screen: Lower
3	Conference microphone: Raise	8	Screen: Tilt backward
4	USB interface	9	Screen: Tilt forward
5	PC: On/Off	10	Screen: Stop

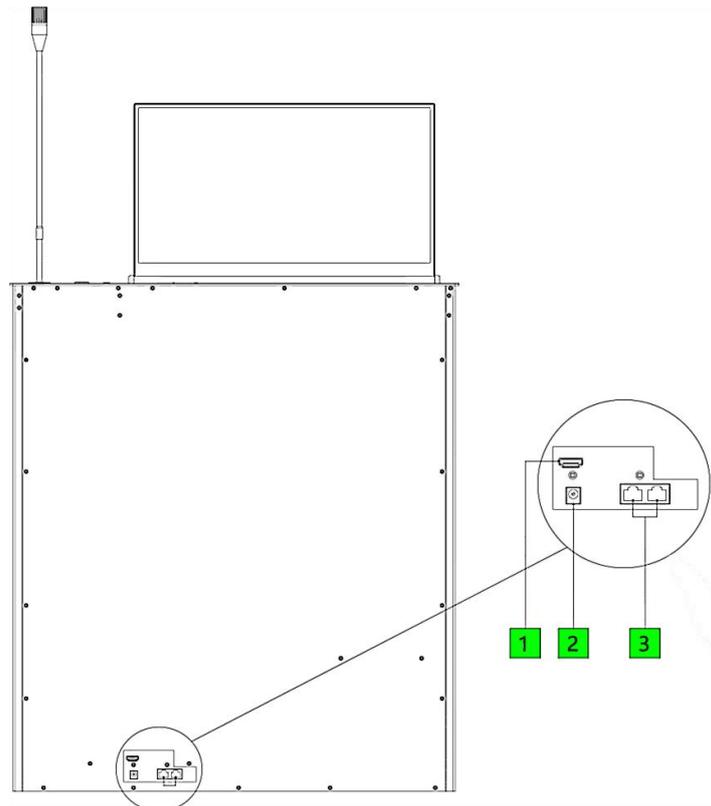


Figure 2.4.3.2 Lower panel interface of lifting screen

Device Interface Description			
1	HDMI-2 Signal Input	3	RS485/RS232 Control Port
2	DC-12V Power Input		

Conference MIC Interface:

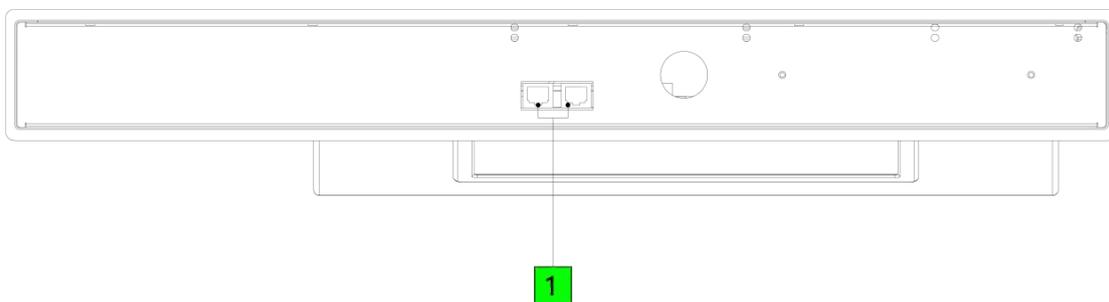


Figure 2.4.1.7 Bottom MIC interface of lifting screen

Conference MIC Interface Description			
1	Conference MIC Input/Output		

2.4.4. VIS-15/17/18/21 LDSCM, VIS-15/17/18/21 LDSCM-A

Retractable Ultra-thin Screen with MIC and Nameplate: **VIS-15/17/18/21 LDSCM**,
 Retractable Ultra-thin Screen with MIC and Nameplate and integrated PC:
VIS-15/17/18/21 LDSCM-A



Panel description:

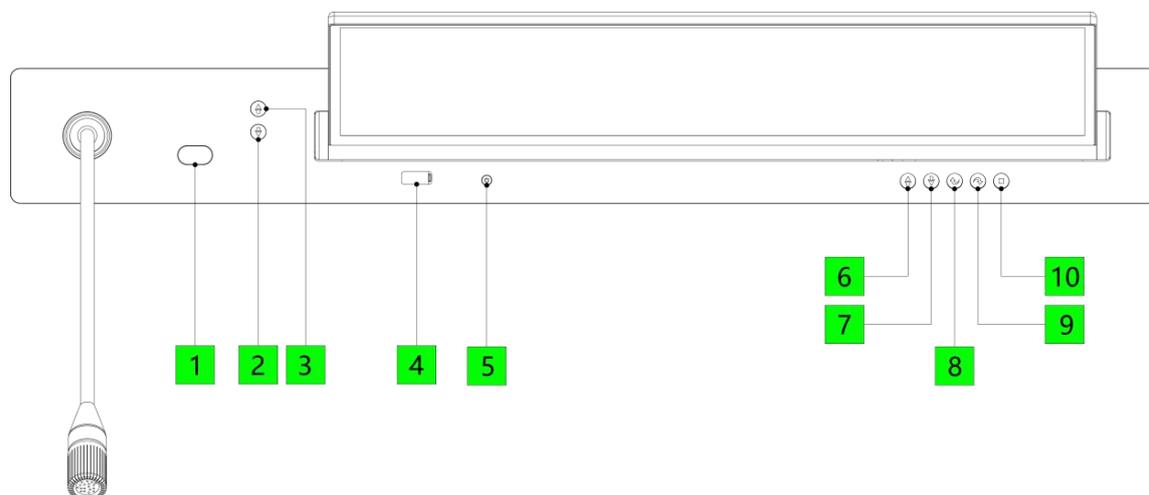


Figure 2.4.4.1 Top panel of lifting screen with MIC

Device Panel (with microphone)			
1	Conference microphone: On/Off	6	Screen: Raise
2	Conference microphone: Retract	7	Screen: Lower
3	Conference microphone: Raise	8	Screen: Tilt backward

4	USB interface	9	Screen: Tilt forward
5	PC: On/Off	10	Screen: Stop

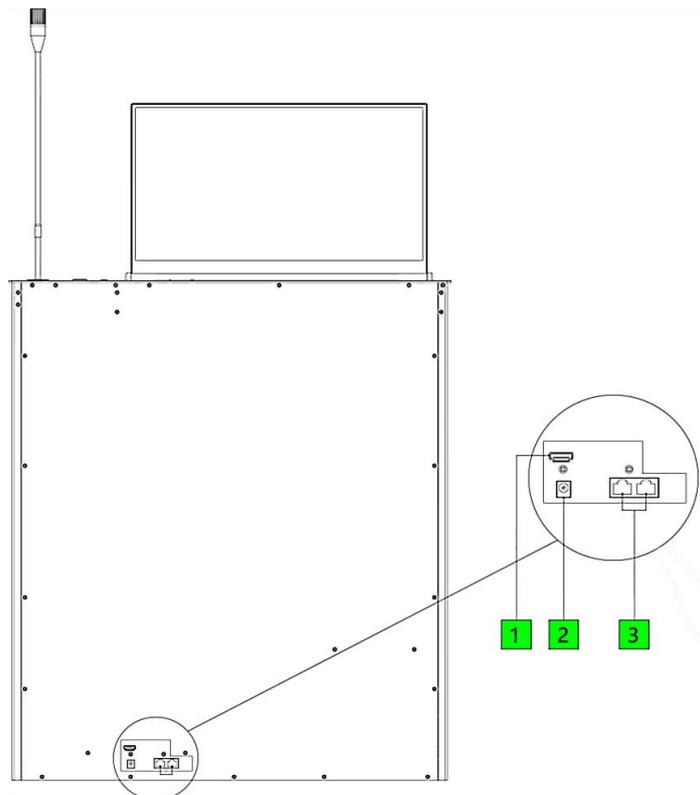


Figure 2.4.4.2 Lower panel interface of lifting screen

Device Interface Description			
1	HDMI-2 Signal Input	3	RS485/RS232 Control Port
2	DC-12V Power Input		

Conference MIC Interface:

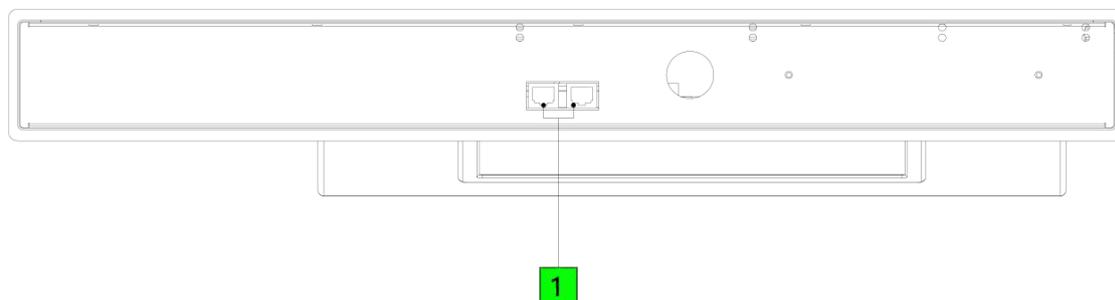


Figure 2.4.4.3 Bottom MIC interface of lifting screen

Conference MIC Interface Description			
1	Conference MIC Input/Output		

2.4.5. Integrated PC Interface

Built-in integrated PC mode includes:

Height-Adjustable Touch Screen **VIS-15/17/18/21LSSC-A**

Height-Adjustable Touch Screen with Name plate **VIS-15/17/18/21LDSC-A**

Height-Adjustable Touch Screen with Lifting MIC **VIS-15/17/18/21LSSCM-A**

Height-Adjustable Touch Screen with Name plate and lifting MIC **VIS-15/17/18/21LDSCM-A**

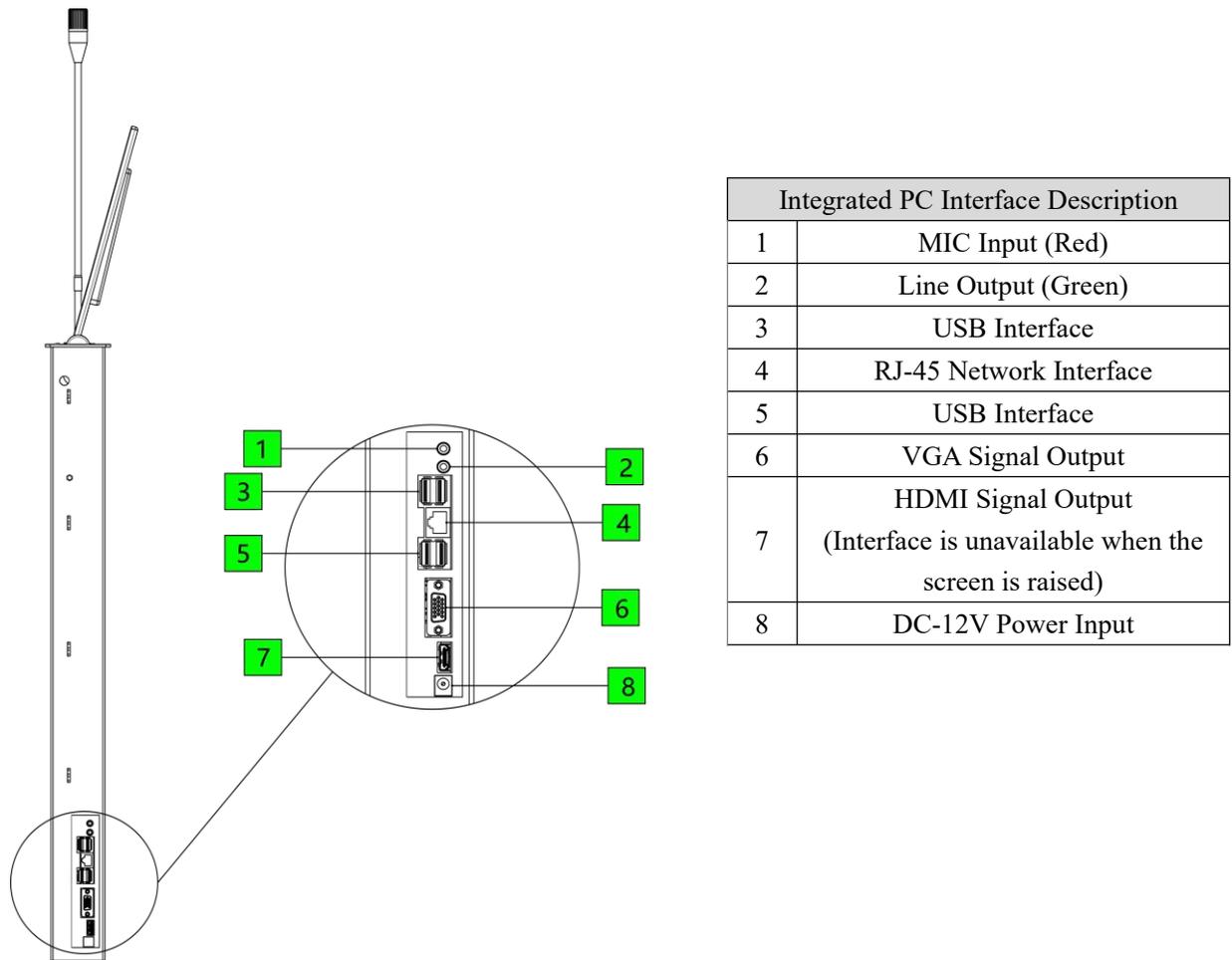


Figure 2.4.5 Side interface of the integrated PC

2.4.6. Installation

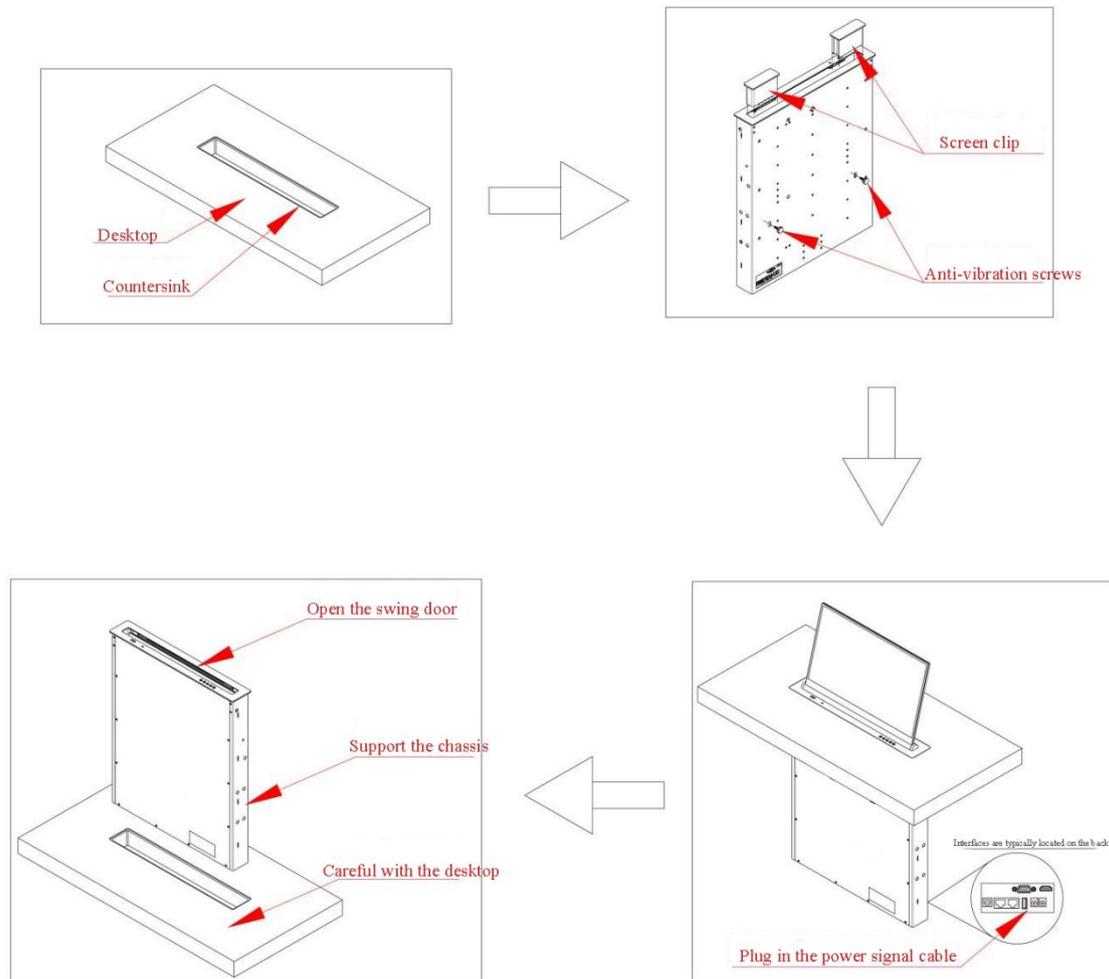
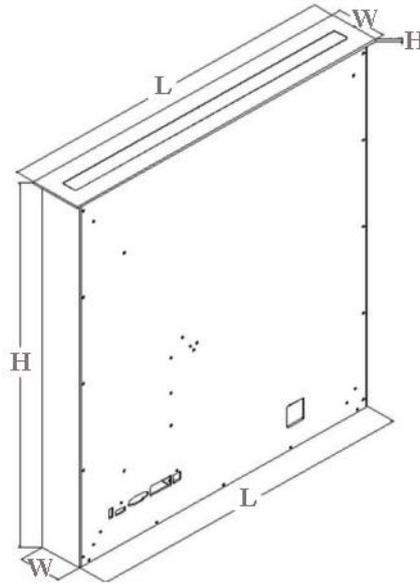


Figure 2.4.6 Installation of lifting screen

Notes

- Place the product on a stable surface or securely mount it on a desk.
- Connect the power adapter to the product's power port, then plug it into an AC100-240V, 50-60Hz power outlet.
- Always shut down the main unit properly before powering off.
- When moving the device, shut down the main unit, disconnect the power adapter, and unplug the power cord.

2.4.6.1. Installation dimension



Installation by Cutting Hole in Conference Table, the Lift Screen Dimensions are as Follows:

Model	VIS-LDSC/VIS-LSSC, VIS-LDSC-A/VIS-LSSC-A			
Category	15.6-inch Single Screen	17.3-inch Single Screen	18.5-inch Single Screen	21.5-inch Single Screen
Product dimensions	422*70*553mm	458*70*553mm	488*70*603mm	560*70*603mm
Product dimensions (-A)	422*70*683mm	458*70*683mm	488*70*683mm	560*70*723mm
Chassis size	412*58*550mm	448*58*550mm	478*58*600mm	550*58*600mm
Drill dimensions	415*60mm	450*60mm	480*60mm	567*60mm
Panel Sink Dimensions	430*70*3mm	476*70*3mm	510*70*3mm	582*70*3mm
Model	VIS-LDSCM/VIS-LSSCM, VIS-LDSCM-A/VIS-LSSCM-A			
Category	15.6-inch Single Screen	17.3-inch Single Screen	18.4-inch Single Screen	21.5-inch Single Screen
Product dimensions	555*70*683mm	555*70*683mm	593*70*683mm	675*70*723mm
Product dimensions (-A)	555*70*683mm	555*70*683mm	593*70*683mm	675*70*723mm
Chassis size	545*58*680mm	545*58*680mm	583*60*680mm	665*60*720mm
Drill dimensions	547*60mm	582*60mm	595*62mm	667*62mm
Panel Sink Dimensions	430*70*3mm	476*70*3mm	510*70*3mm	582*70*3mm

2.4.7. Connection

2.4.7.1. Connecting to power supply

Power:

Connect the lifting unit to an external power outlet using the provided power cable.

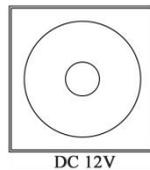


Figure 2.4.7.1 Power interface of integrated PC

2.4.7.2. Connecting to switch

1. Lifting screen with integrated PC

The lifting screen is connected to the switch via the RJ45 port on the side of the integrated PC. Multiple lifting screen devices can be interconnected and controlled through a switch, enabling seamless communication and complete functionality.

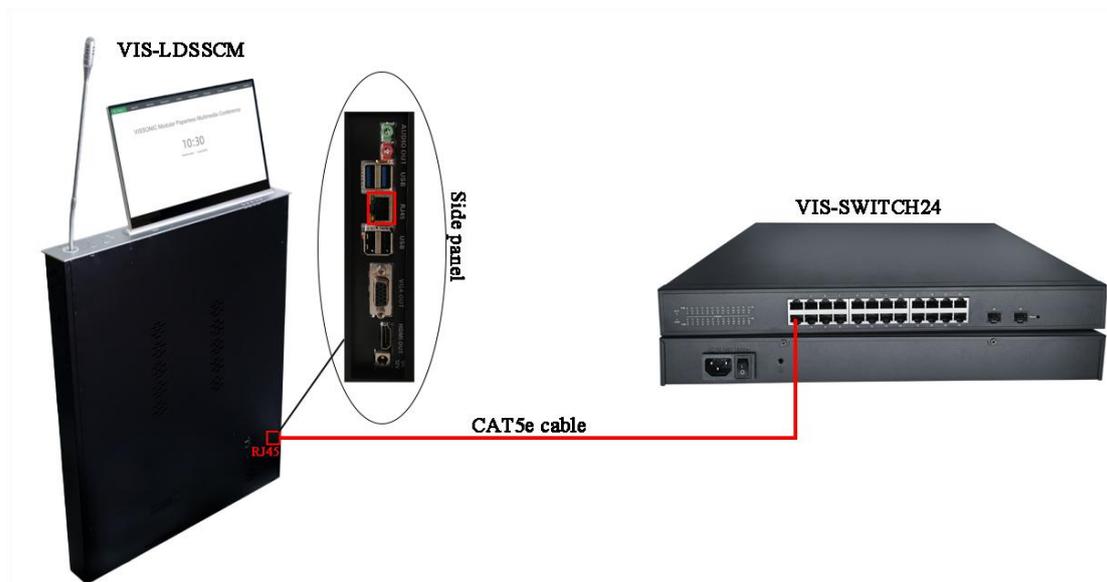


Figure 2.4.7.2.1 Connection between VIS-SWITCH24 and lifting screen

2. External client VIS-CLIENT100

VIS-CLIENT100 Client as the external client of lifting screen connects to the switch, controls of lifting screen power on/off and data transmission.

And the paperless multimedia conference system client software allows users to log in and access

various functions based on their roles. Permissions include: sign-in, agenda access, viewing topics and documents, topic voting, speaker camera tracking, speaking order list, on-demand live video, document approval and saving, file uploading, information communication, service application, viewing announcements, synchronous screen, following synchronous screen, conference projection, temporary permission management, and electronic nameplates.



Figure 2.4.7.2.2VIS-CLIENT100 CLIENT front and rear panel

Front panel:

No./Name	Description
1. USB interface	Quick switch connection port
2.USB 2.0	Used as a connection for external devices like U disk.
3.Power button	Control the client power on/off

Rear panel:

No./Name	Description
2. Power supply	12 V DC Max.65W. The power adapter is used to provide power (110V–220V AC,12 V/4 A DC output)
3, 4.VGA and HDMI	Connect video signals
5.USB 2.0 interface	Used for data communication and connection
6.Network interface	Used for data Communication, connectivity, protocol Support, remote Management
7.USB 3.0 interface	Connect external keyboard, mouse, storage devices, etc.
8.Audio input/out	Send and receive audio signals.

Connection

(1) Connecting to lifting screen

The model for connecting the Client to the lifting screen: **VIS-15/17/18/21 LSSC, VIS-15/17/18/21 LDSC, VIS-15/17/18/21 LSSCM, VIS-15/17/18/21 LDSCM**

According to the connection shown in the following figure, use the external client to achieve the switch of lifting screen.

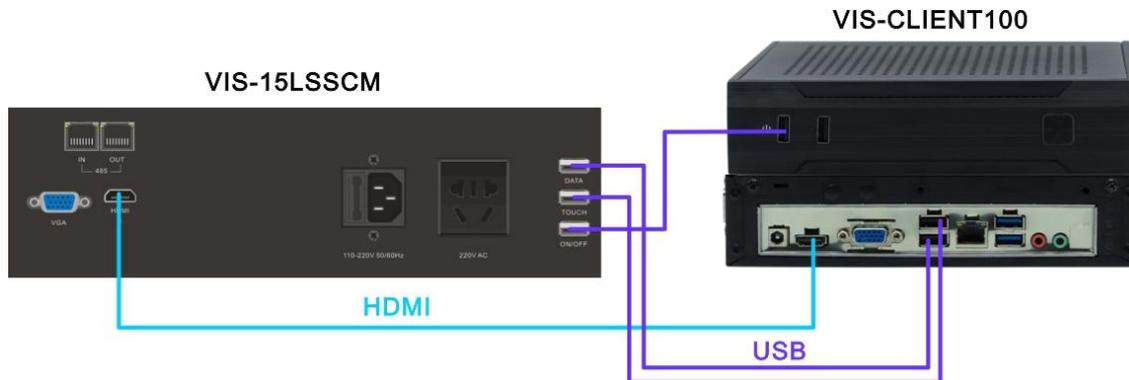


Figure 2.4.7.2.3 Connection of CLIENT controlling lifting screen power on/off

(2) Connecting to switch

The external client is connected to the switch via an Ethernet cable to achieve information interconnection.

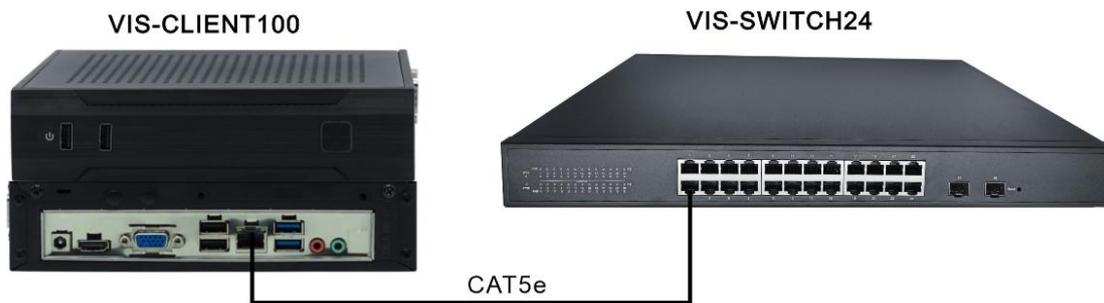


Figure 2.4.7.2.4 VIS-CLIENT100 CLIENT connects to switch

2.5. RS485 signal enhancement extension unit VIS-SEU

2.5.1. Features and interfaces

RS485 signal enhancement unit amplifies input signals to higher voltage or current levels to meet various device requirements. It uses electronic components and circuit design to increase the input signal by a specific factor. Key features include high gain, low distortion, wide bandwidth, low noise, and adjustable gain.

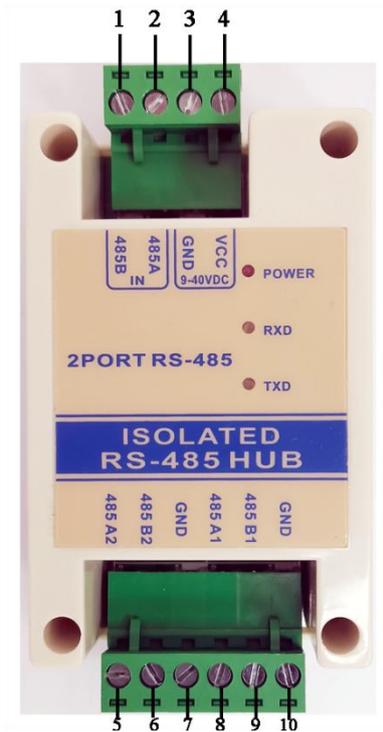


Figure 2.5.1 RS485 signal enhancement extension unit panel

No./Name	Description
1,2.RS485B, RS485A	The terminals of two communication lines, typically labeled as A and B.
3,4. Power interface	Power supply, VCC represents “+”, GND represents “-”,9-40V DC
5,6.RS485A2,RS485B2	The second group connects to the lifting screen unit or other devices.
7.GND	Ground connection port.
8,9.RS485A1,RS485B1	The first group connects to the lifting screen unit or other devices.

2.5.2. Connection

2.5.2.1. Connecting to power supply

Connect the signal enhancement extension unit to a 9-40V DC power adapter, ensuring the correct polarity.

2.5.2.2. Connecting to lifting screen unit

Cut off one end of the RJ45 connector, the Ethernet cable, then separate and leave out the twisted pair wires “7” and “8”, corresponding to white-brown and brown, connecting to RS485A1, B1 or A2, B2.

Connect the other end of the crystal head to the RS485 port in the lower left corner of the lifting screen to control the rise and fall of the lifting screen.

Note: A1/B1 and A2/B2 are two separate groups and should not be cross-connected.

The lift screen units are cascaded using network cables through the RS485/RS232 port.

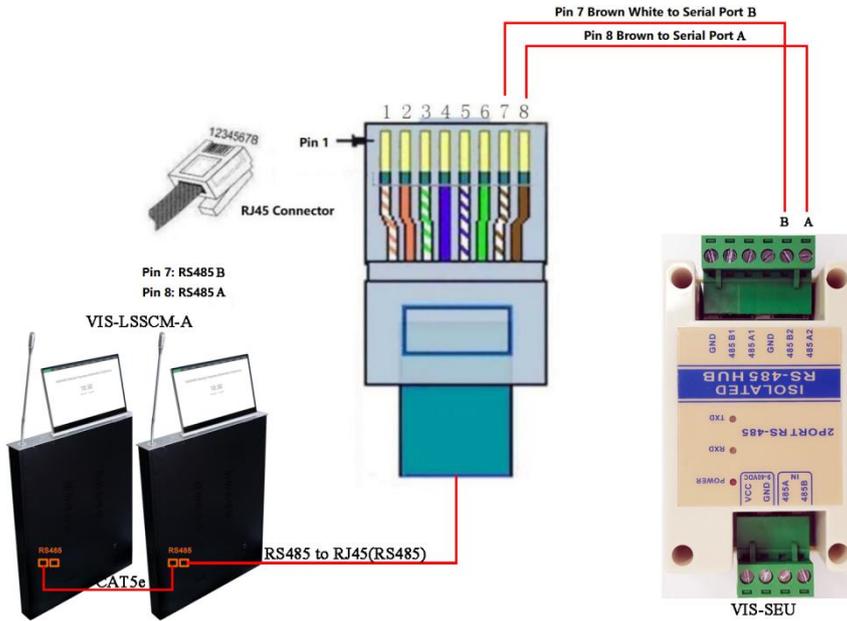


Figure 2.5.2.2 Connect to lifting screen unit

2.5.3. Screen Lift Control via RS485/RS232

2.5.3.1. Interface details

Cable “7” ”8“removed from the network cable corresponds to the RS485/RS232 protocol at the interface.

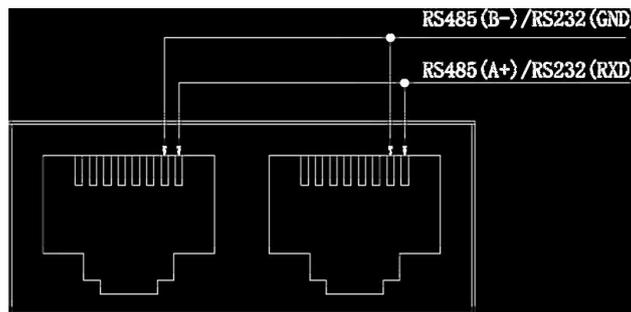


Figure 2.5.3.1 Interface of RS485/RS232

2.5.3.2. Interface Protocol

Baud rate: 2400, Data bits: 8, Parity: None, Stop bits: 1

Functions	Definition	HEX instructions
-----------	------------	------------------

Control Screen	Raise	FF/EE/EE/EE/DD
	Pause	FF/EE/EE/EE/CC
	Retract	FF/EE/EE/EE/EE
	Display PC Signal	FF/EE/EE/EE/60
	Display HDMI Signal	FF/EE/EE/EE/61
Control MIC	Raise	FF/EE/EE/EE/D1
	Pause	FF/EE/EE/EE/C1
	Retract	FF/EE/EE/EE/E1
Simultaneous Control of Screen and Mic	Raise	FF/EE/EE/EE/D2
	Pause	FF/EE/EE/EE/C2
	Retract	FF/EE/EE/EE/E2



Notes

To ensure proper RS485/RS232 communication control:

- If unable to control the lifter, swap the two control lines
- Keep wiring loop resistance below 20Ω
- Avoid running wires alongside strong sources of interference

2.6. Control panel VIS-CK100

2.6.1. Features and interfaces

The control panel is the control terminal of the paperless lifting screen. The 9 buttons correspond to controlling the master control, screen, and microphone with options for up, down, and pause. The user can set the button function on the PC client software interface. At present, up to four panels are supported in series, that is, up to 32 sets of shortcut operation buttons can be customized. Aluminum alloy panel with standard 86 boxes, clean appearance and texture, simple and convenient assembly

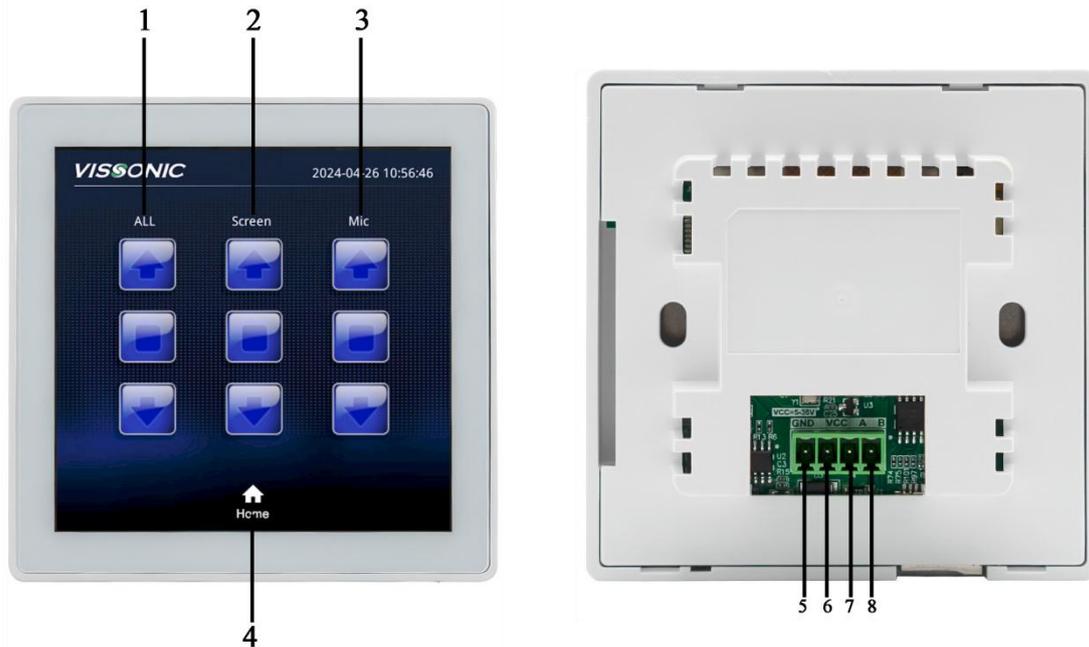


Figure 2.6.1 VIS-CK100 front and rear panel

Front panel:

No./Name	Description
1.All control	Control screen and microphone overall lift and pause.
2.Screen control	Control screen lift and pause.
3.Mic control	Control Mic lift and pause.
4.Home button	Back to home interface

Rear panel:

No./Name	Description
5,6. Power interface	Power supply, VCC represents “+”, GND represents “-”,5-36V
7,8. RS485A, RS485B	The terminals of two communication lines, typically labeled as A and B

2.6.2. Connection

2.6.2.1. Connect to power supply

Connect the signal enhancement extension unit to a 5-36V DC power adapter, ensuring the correct polarity.

2.6.2.2. Connect to RS485 signal enhancement extension unit VIS-SEU

Extract any two wires from the RS485 connection cable, the other end is also connected using the

corresponding cable, connects one end to the panel and then connects them on the RS485 signal enhancement extension unit, confirms the correct connection: A to A and B to B.

Connect the two devices separately to the power adapter to power on.

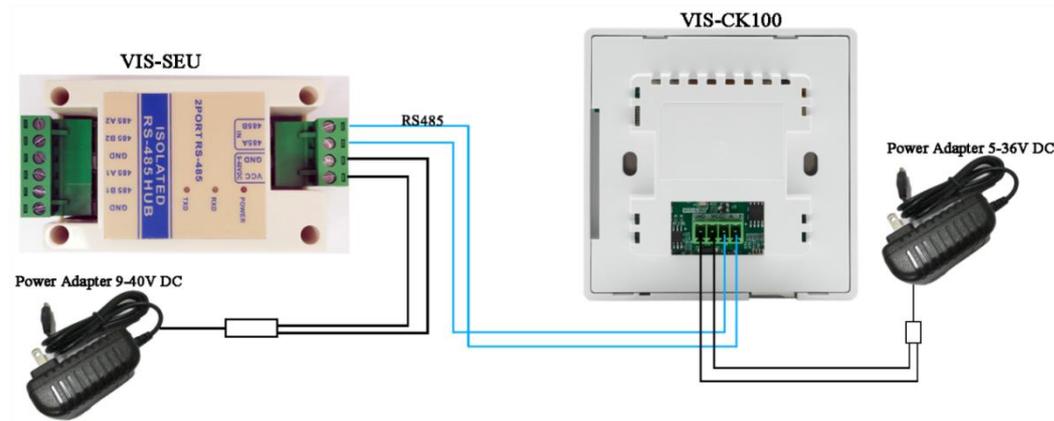


Figure 2.6.2.2 Connect to signal enhancement extension unit

2.7. Distributed Encoder VIS-DS200-I-P

2.7.1. Features and interfaces

The distributed encoder for paperless multimedia conference system is mainly used for inputting audio and video signals to a paperless multimedia conference system or outputting video signals from a paperless multimedia conference system to distributed systems.

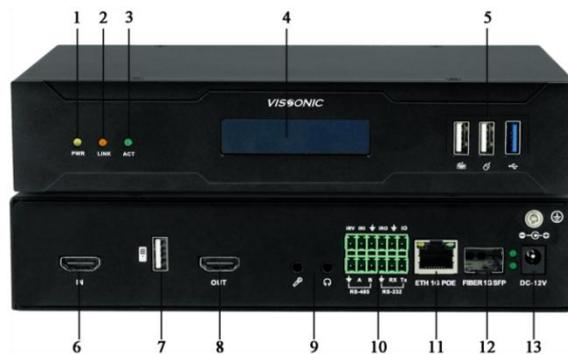


Figure2.7.1 VIS-DS200-I-P front and rear panel

Front panel:

No./Name	Description
1,2,3. Indicator light	respectively correspond: 1. Power indicator light 2. Connection indicator light 3. Signal indicator light
4.LED screen display	LED screen displays the operation
5.USB2.0, 1USB3.0	Connect to keyboard or mouse and U Disk and other storage devices

Rear panel:

No./Name	Description
6.HDMI interface	HDMI input, supports maximum resolution of 2K
7.1*USB2.0	Connect to keyboard or mouse and other devices
8.HDMI interface	HDMI output, supports maximum resolution of 2K
9.Audio interface	3.5mm stereo audio input/output
10.Serial transmission interface	1 RS-485, 1 RS-232; Infrared: 1 IR IN, 1 IR OUT; I/O: 1 I/O port
11.Ethernet port	1 RJ45, 10/100/1000Base-T, supports POE
12.Fiber port	1 SFP optical port
13.Power supply	DC 12V

2.7.2. Connection

The connection of a VIS-DS200-I-P with switch and external video and audio sources, external video sources are connected for image transmission via the HDMI input on the encoder. The encoder's network port is then connected to a switch to display images on the lift screen.



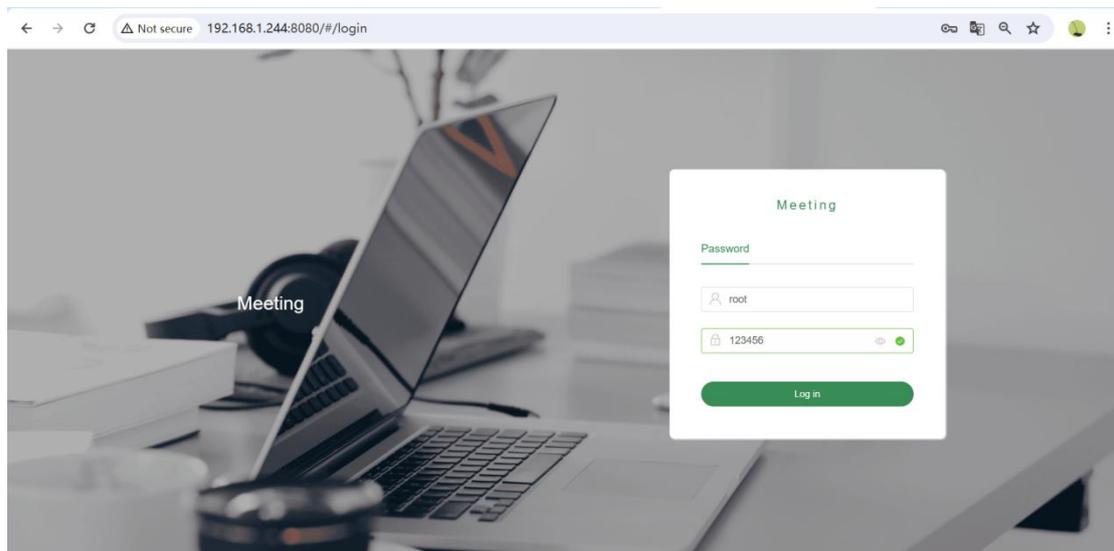
Figure 2.7.2 External video source access to switch via VIS-DS200-I-P

3. Configuration of Paperless System

3.1. Configuration of Conference System Server

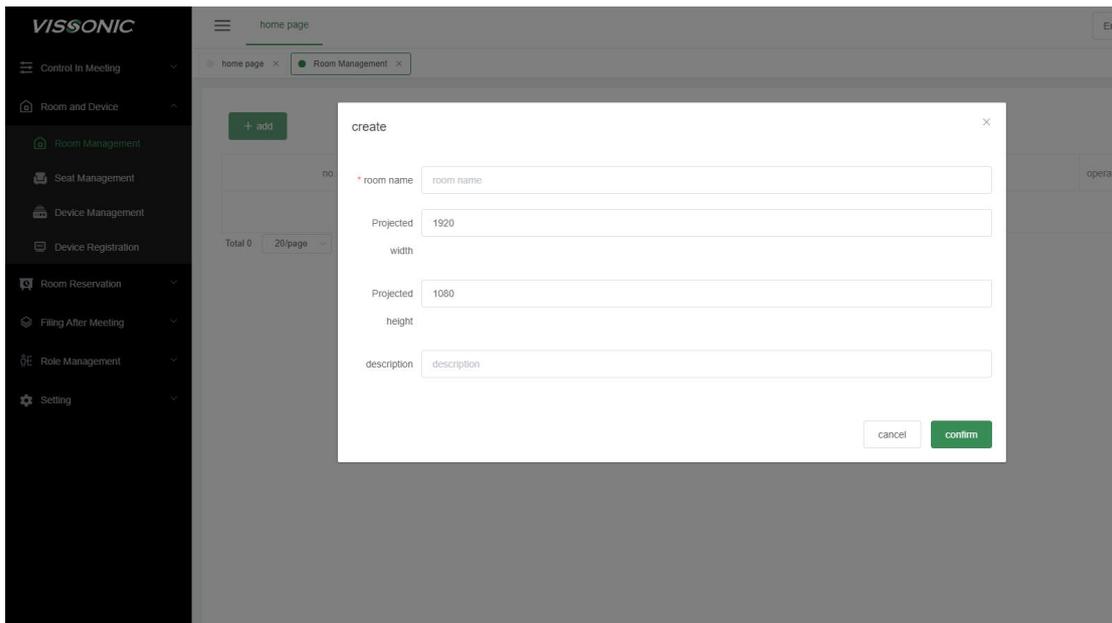
3.1.1. Accessing the Web-Based Administration Panel

To access the login page, open Google Chrome on another device within the server or local network and enter the address 192.168.1.244:8080. Use the default username "root" and password "123456" to log in.



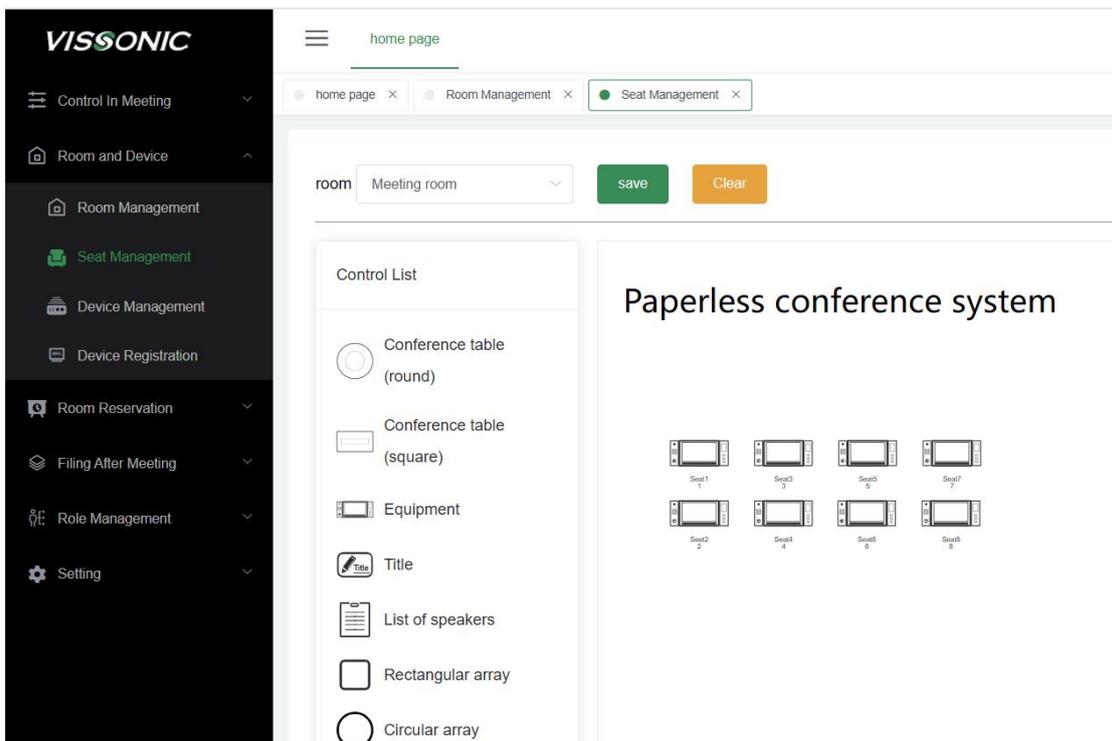
3.1.2. Meeting Room Layout

Select [Room and Device] and click [Room Management] to add a new meeting room. In the popup, enter the [Room Name] (required) and optionally the [Projection Width] and [Projection Height] then click [Confirm].



3.1.3. Seating arrangement

Select [Room and Device] and click [Seat Management] select a room, and then drag the icons in the list on the left to the canvas on the right, such as, equipment(unit), speaker lists, title and other functions.



Right-click on the unit device to edit, remove and rotate.



Edit the seat name of the unit and enter the unit ID. **Please note: The unit ID must be bound to the corresponding seat name. (If the lift screen does not have a microphone, the unit ID can be set to 0)**

For example: Name: Seat1, Unit ID: 1

In the client with ID 1, the seat name bound in the upper right corner must be "Seat1".

seat detail
×

no.

name

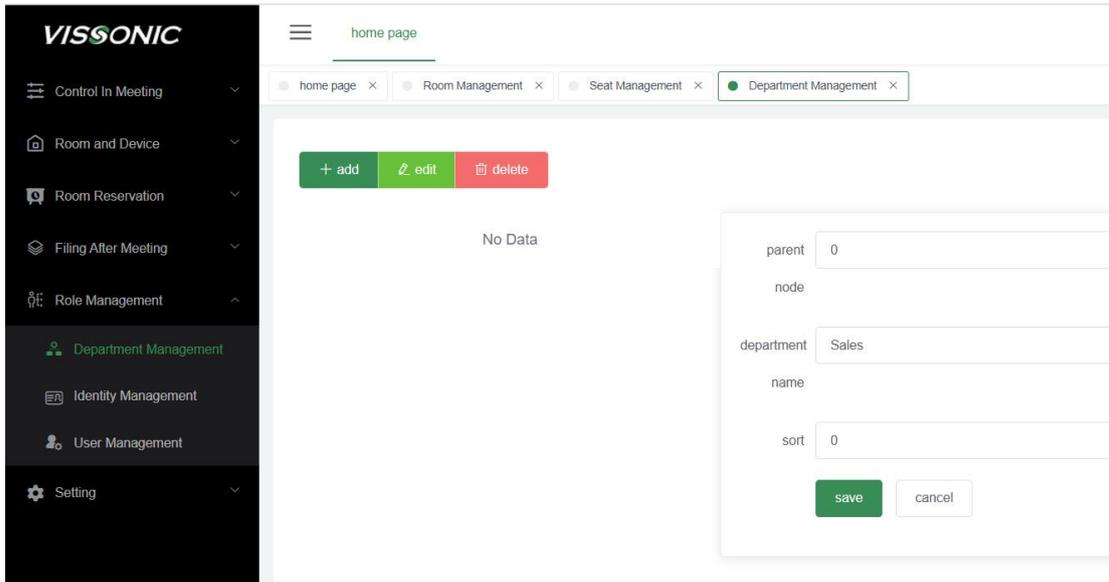
unit ID (optional)

voting rights enable disable

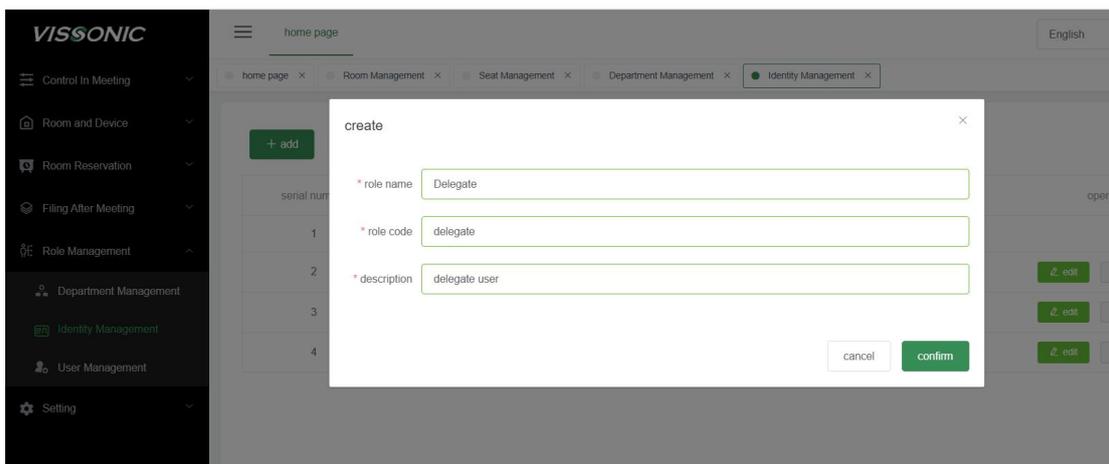
cancel login close open

3.1.4. Default User

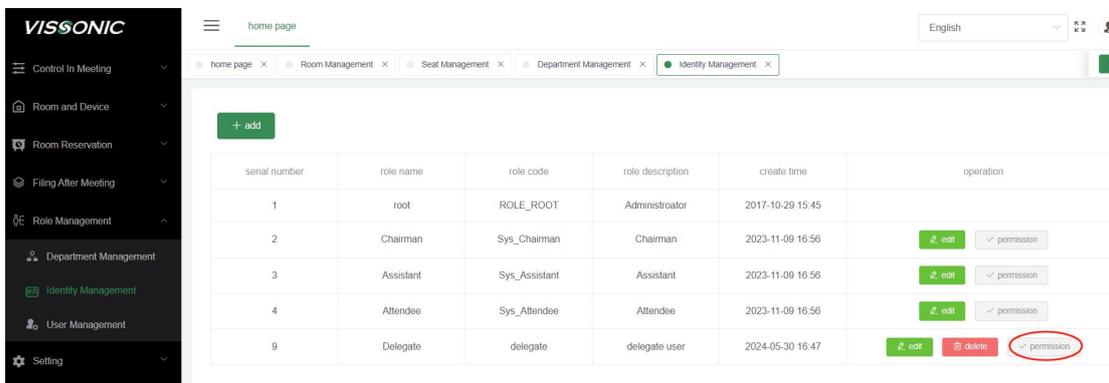
Step 1: Select [Role Management] and [Department Management], click on [Add], enter the department name, and click [Save].



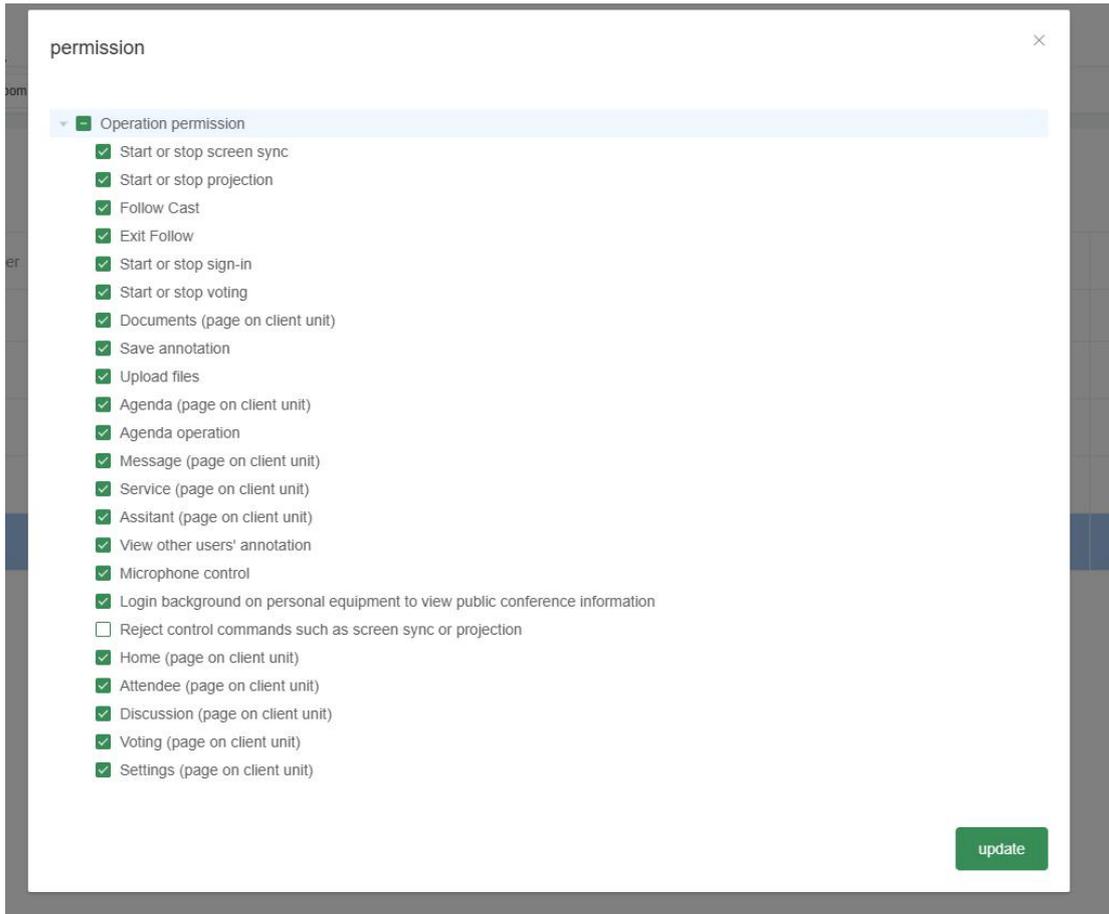
Step 2: Open [Role Management], click on [Identity Management], then click on [Add] to add a new identity.



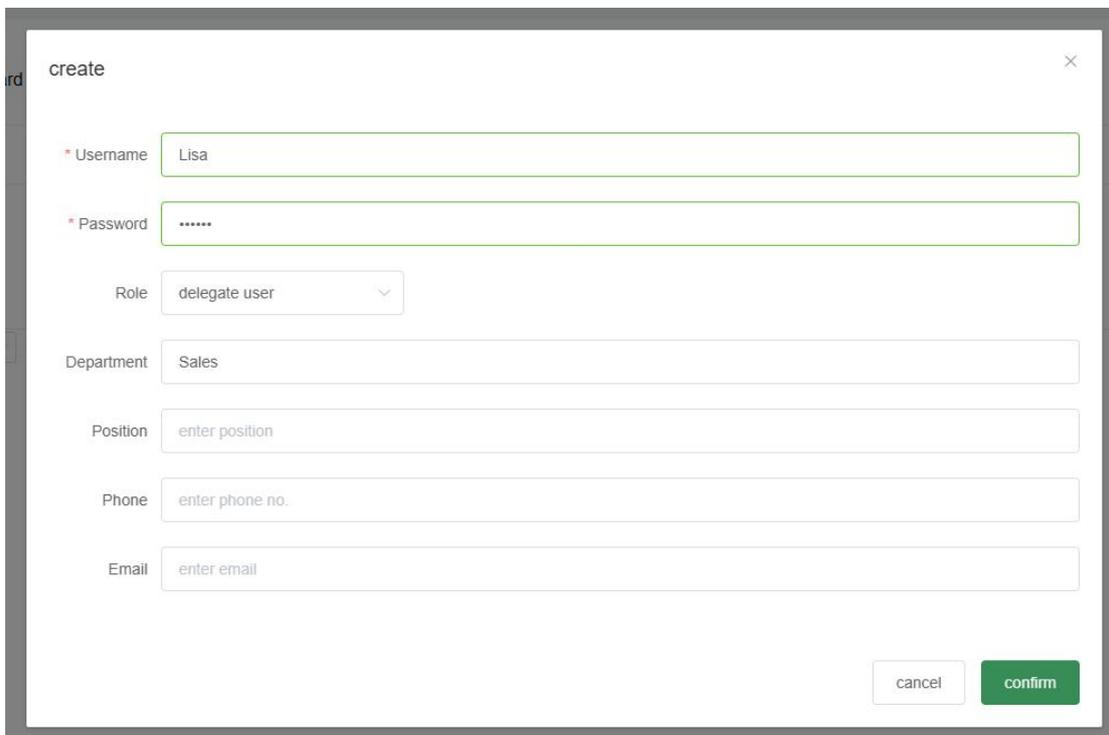
Step 3: Click on the permissions of the role to assign permissions.



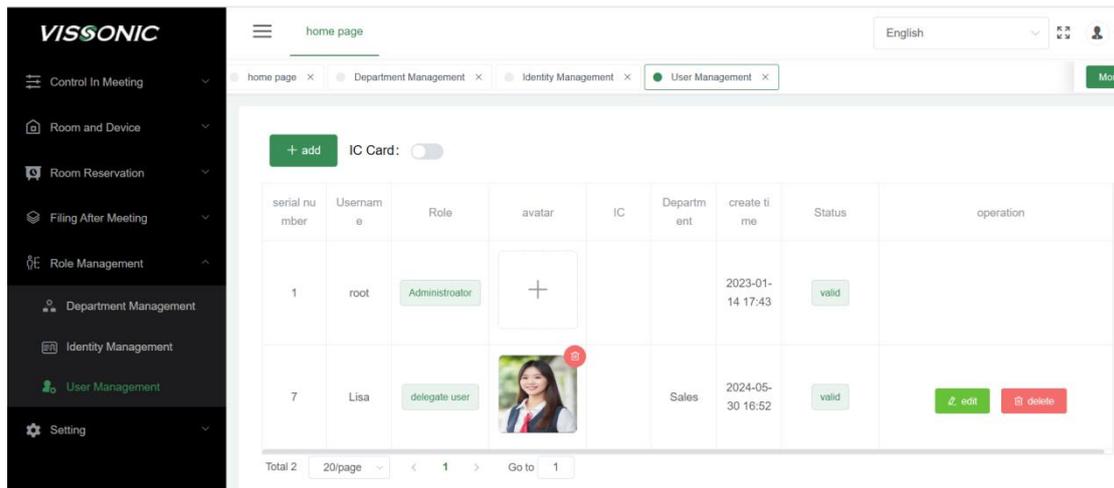
Step 4: Check the required functions and click update.



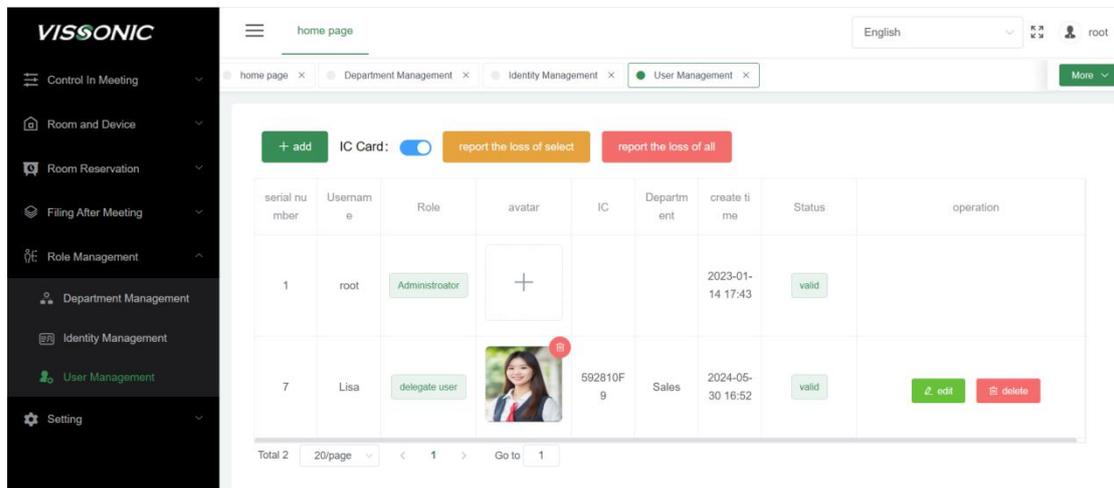
Step 5: Click [User Management], click on [Add], enter user information, and click [OK]. For example: Create users named Lisa.



Step 6: Click “+” to upload a user picture. (Optional)



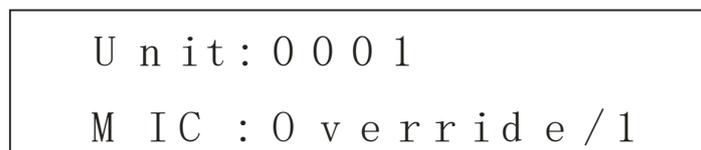
Step 7: Connect the IC card reader to the USB port of the server and turn on the IC card switch. Select the user, then put the IC card on the reader to read it and enter the IC card information of the corresponding user. Finally, turn off the IC card switch. (Optional)



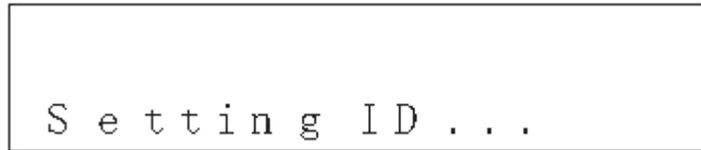
3.1.5. Set Unit ID

Step 1: After correctly connecting the lift screen, conference controller, server, and switch, power on to start the Unit ID setting process.

Step 2: When the LCD of the conference controller is operating on the main screen, follow the diagram below:



Step 3: Long-press the "ESC" key on the conference controller's front panel for about 2 seconds to enter ID editing mode. The LCD screen will display the ID setting status.



Step 4: Press the MIC button on the left side of the lift screen microphone to assign an ID number (starting from 1) to each lift screen microphone in sequence.

Step 5: Press all units, then long-press the "ESC" key on the conference controller for about 2 seconds. When the LCD screen returns to the main display, the ID setting is complete. Please remember the ID of each lifting screen microphone.

Note: Unit IDs must be unique to avoid issues like simultaneous activation, microphone noise, or lack of audio output. If issues arise, reset the unit IDs.

3.1.6. Add a meeting

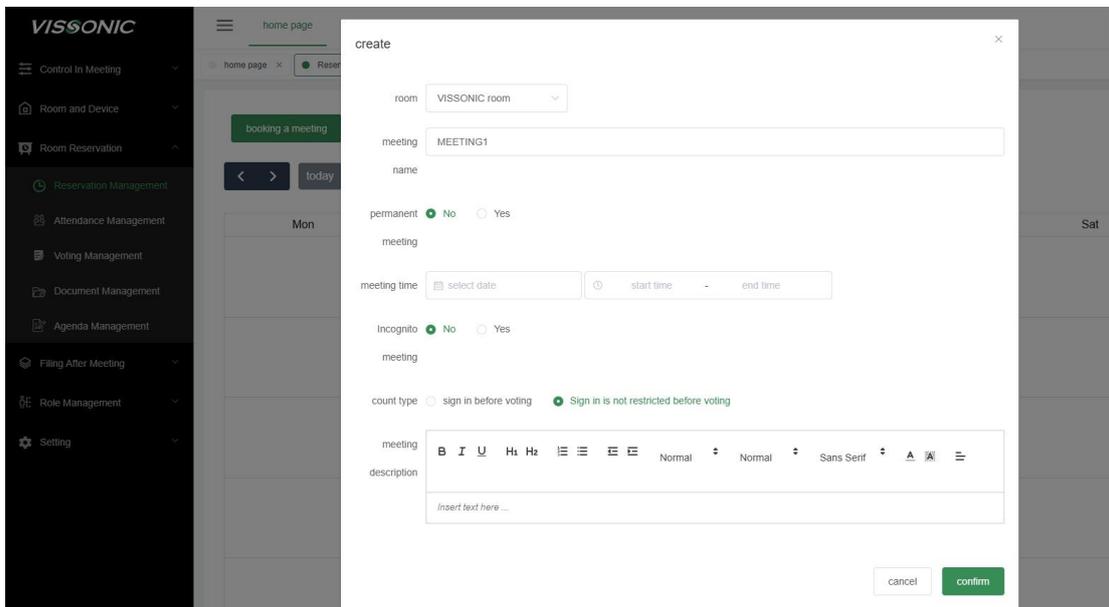
Step 1: In [Room Reservation], click [Reservation Management], then click [booking a meeting]. Select the [Meeting Room] and enter the [Meeting Name].

[Permanent Meeting]: If chosen, no need to set [Meeting Time], if not, set the [Meeting Time]

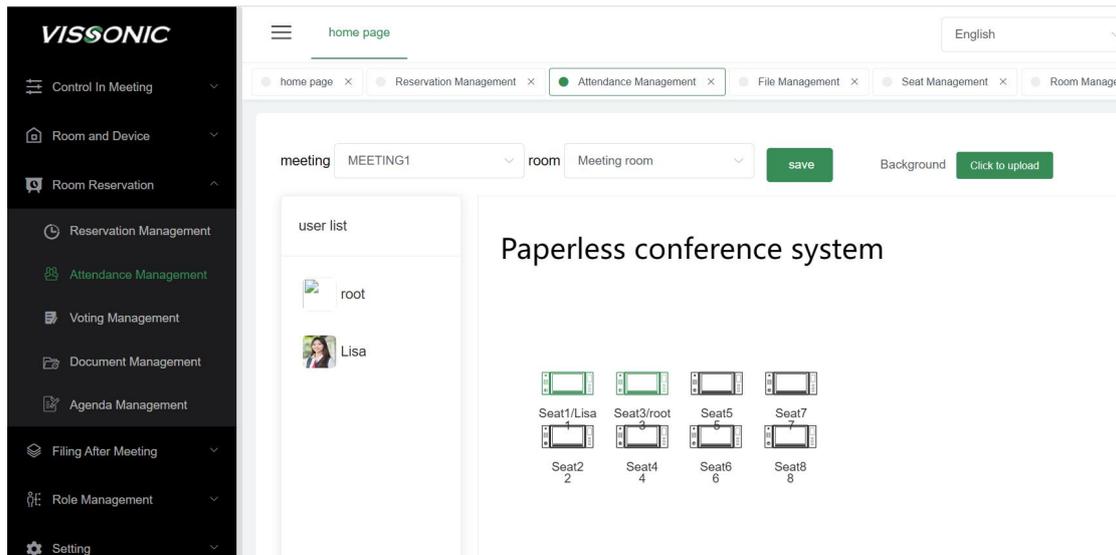
[Incognito Meeting]: Select "Yes" to automatically delete meeting information and files after the meeting. Select "No" to save the post-meeting documents and view them in the "Filing After Meeting" menu.

[Count Type]: For voting and sign-in.

[Meeting Description]: Optional theme and description.

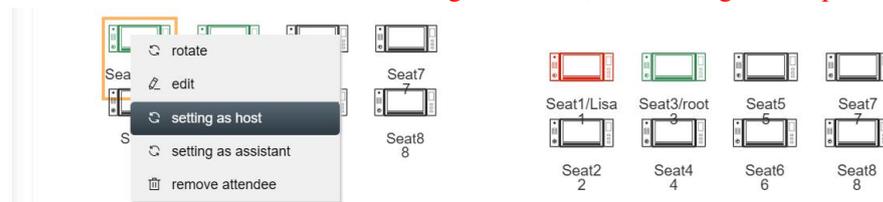


Step 2: Click [Seat Management] and select a meeting. Select a user in the user list and drag him to the designated seat for seat arrangement. The seat turns green, which means that the user of the green seat can log in to the client.

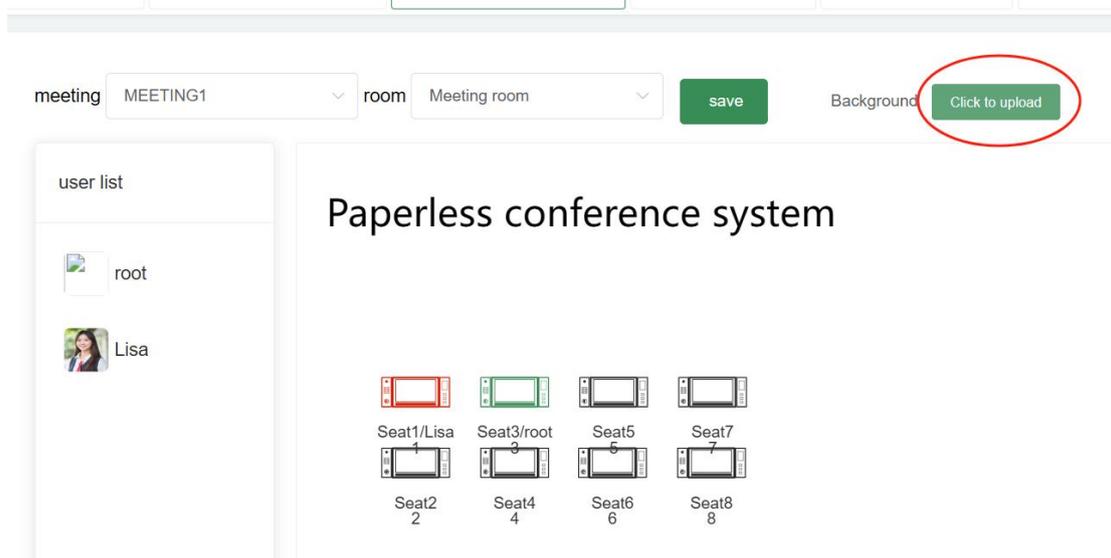


Right-click the seat to add permissions, set the host. The red seat is for the host. And click [save].

It's essential to add a host to the meeting; otherwise, the meeting cannot proceed normally.

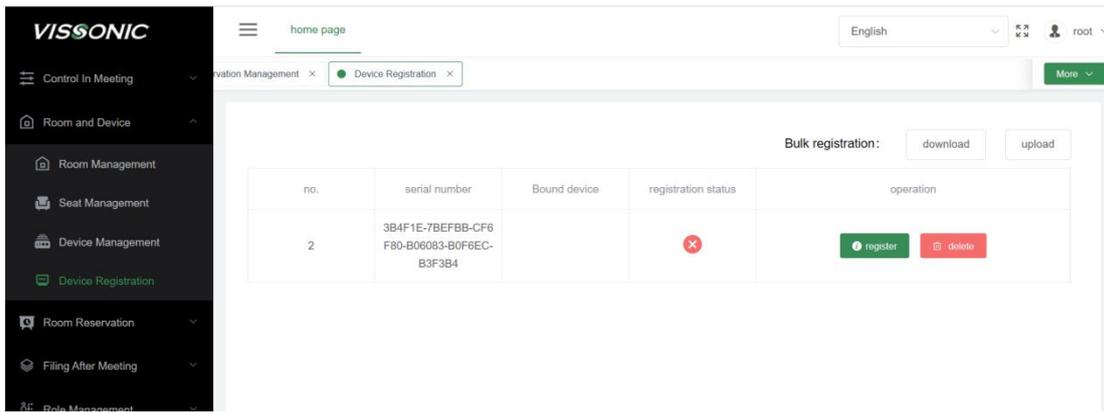


Click “Click to upload” to upload image background.

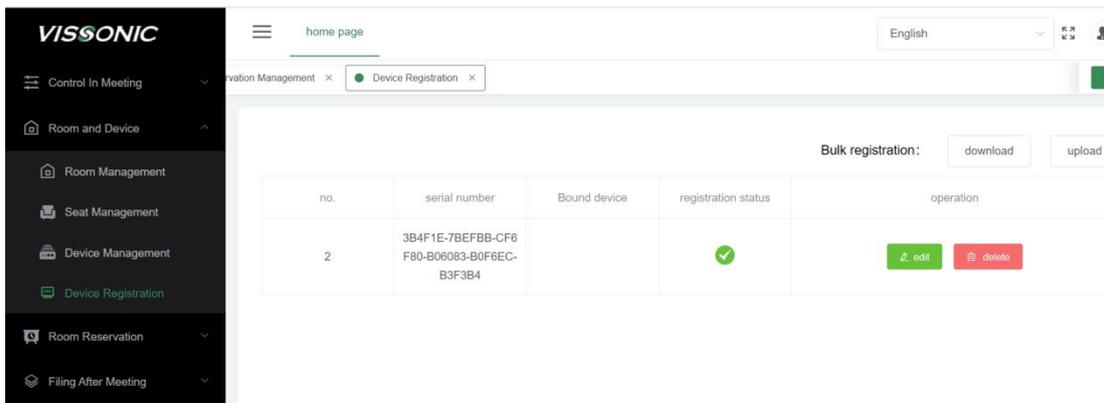


3.1.7. Register device serial number

Step 1: Open [Device Registration] under [Room and Device] on the backend server to view detected client serial numbers. If none are found, try restarting the device, server, or refreshing the webpage. (The following is the unregistered status)



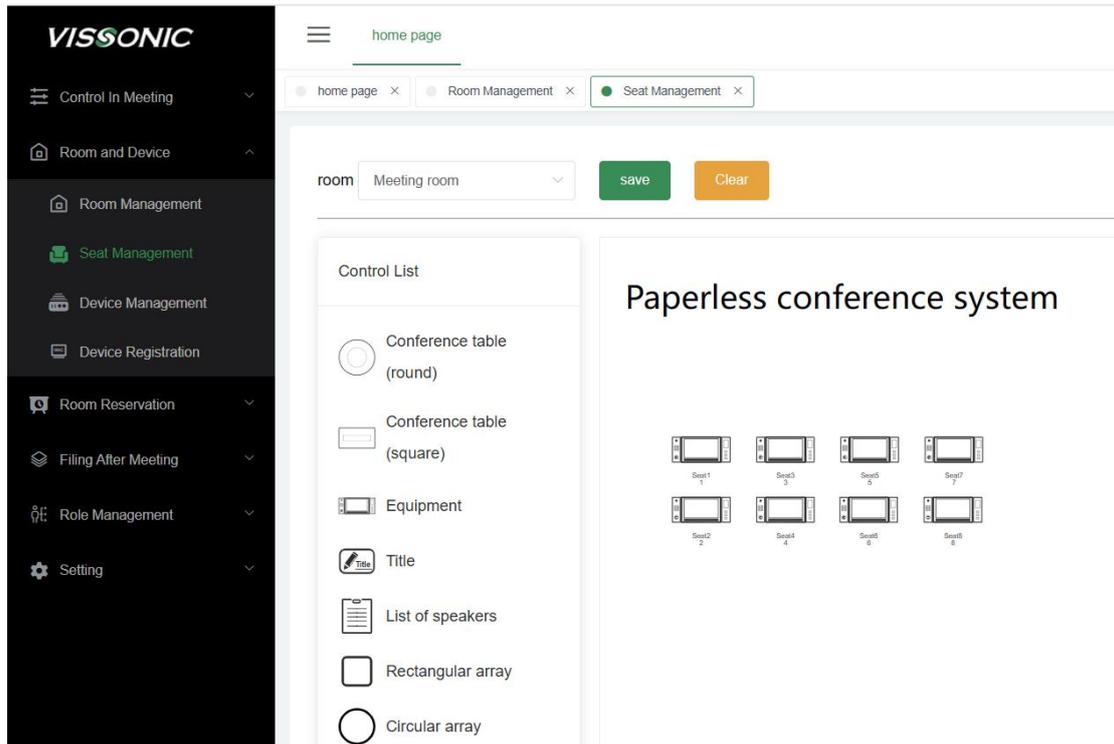
Step 2: Click [download] at the top right to download the serial number. Send the file to the manufacturer for registration. After getting the registration file, click "upload" to import the registration file. The registered status is green. **Usually, it will be registered before leaving the factory, so this step may not be needed.**



3.1.8. Bind device seat name and unit ID

Method 1: Binding on the lift screen client

Step 1: Select [Room and Device] and click [Seat Management] on the web page. Check out the seat name and unit ID set here.



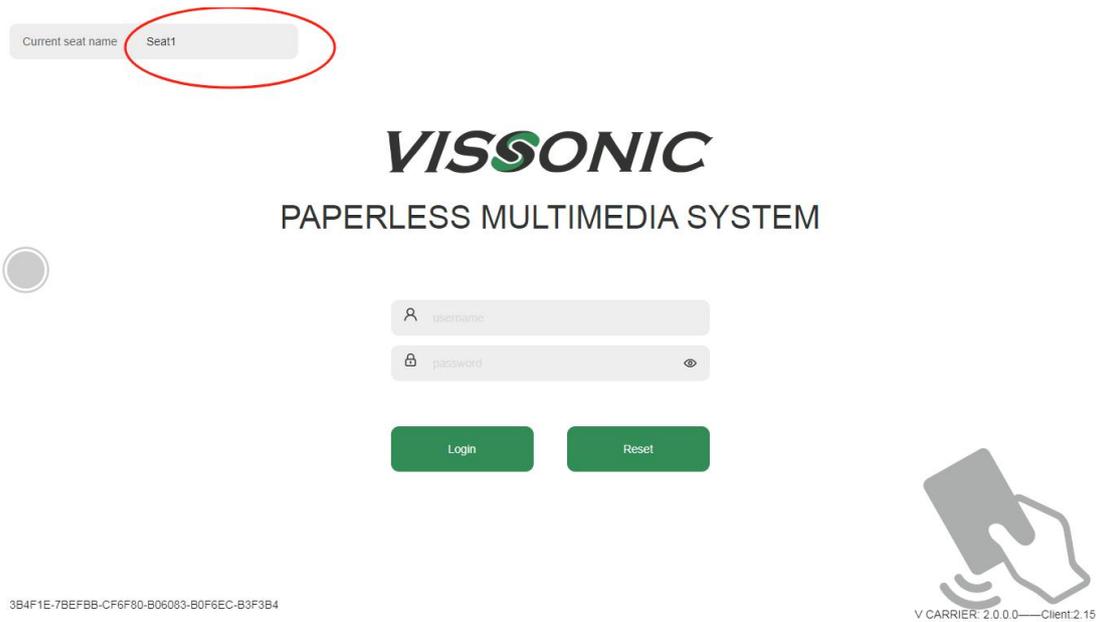
Step 2: Go to the client. Click the "VISSONIC" logo on the left screen login page, the seat name binding will appear in the upper left corner, and the unique serial number of this device will appear in the lower left corner.



Step 3: According to the ID set in 4.1.5, for example, the microphone ID of this device is 1. The seat name that this device needs to be bound to must be "Seat1". Corresponds to the seat name and unit ID in the [Seat Management] menu on the backend web page. Click on the "Current seat name" in the upper left corner. Slide the seat name in the middle, select "Seat1", and then click "Bind" on the right.

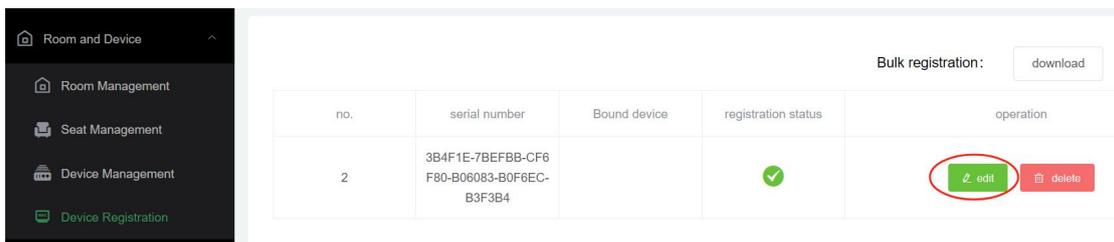


You can see that the device is bound to the seat name "Seat1". Click the "VISSONIC" logo again to hide the seat name and serial number. Once seating is assigned, users can log in on the client side.

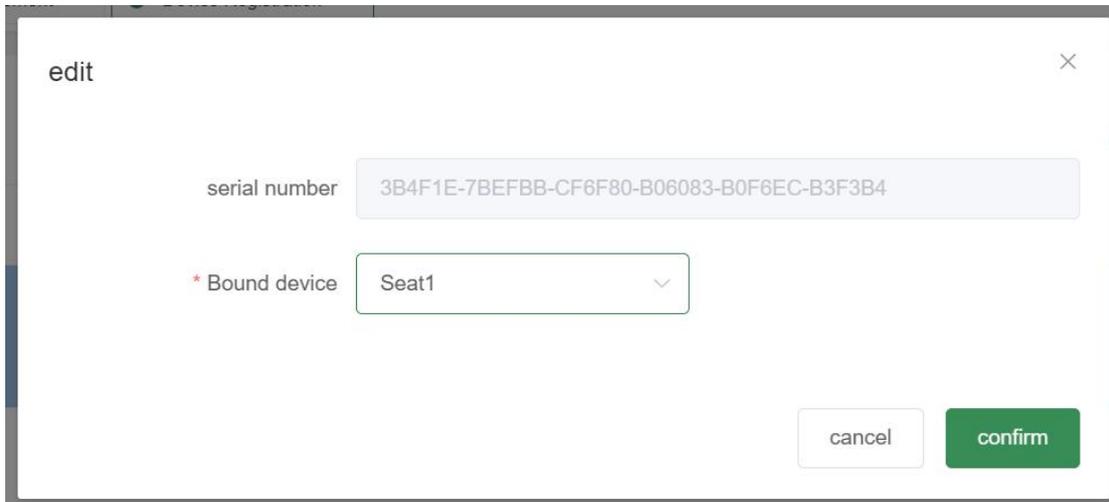


Method 2: Binding in the web page

Step 1: Open [Device Registration] under [Room and Device]. Click [Edit] next to the serial number to bind the device.



Step 2: Find the corresponding serial number on the lift screen, confirm the ID of this device, and bind the corresponding seat name. For example, if the ID of this unit is 1, need to bind "Seat1"

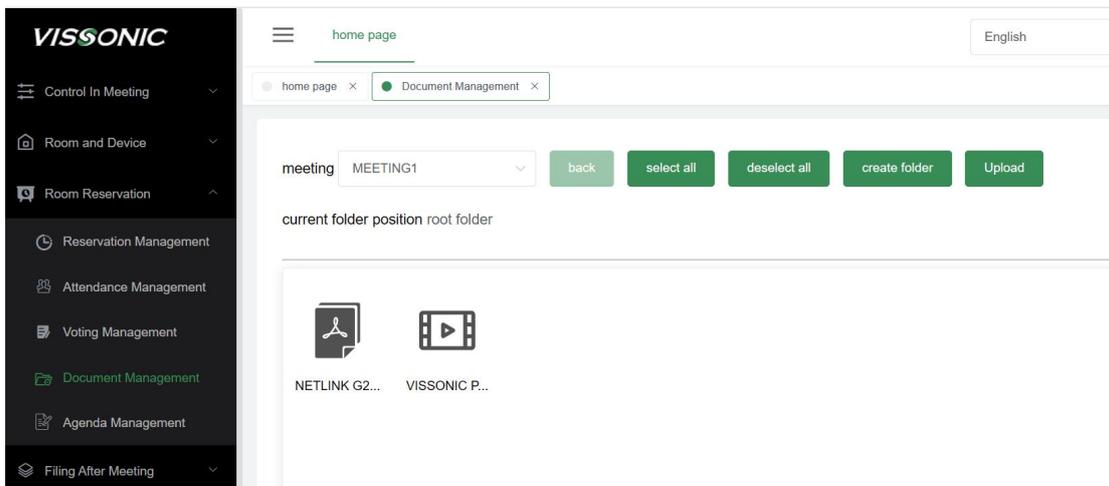


The device with this serial number has been bound to "Seat1". Once seating is assigned, users can log in on the client side.

no.	serial number	Bound device	registration status	operation
2	3B4F1E-7BEFBB-CF6F80-B06083-B0F6EC-B3F3B4	Seat1	✓	edit delete

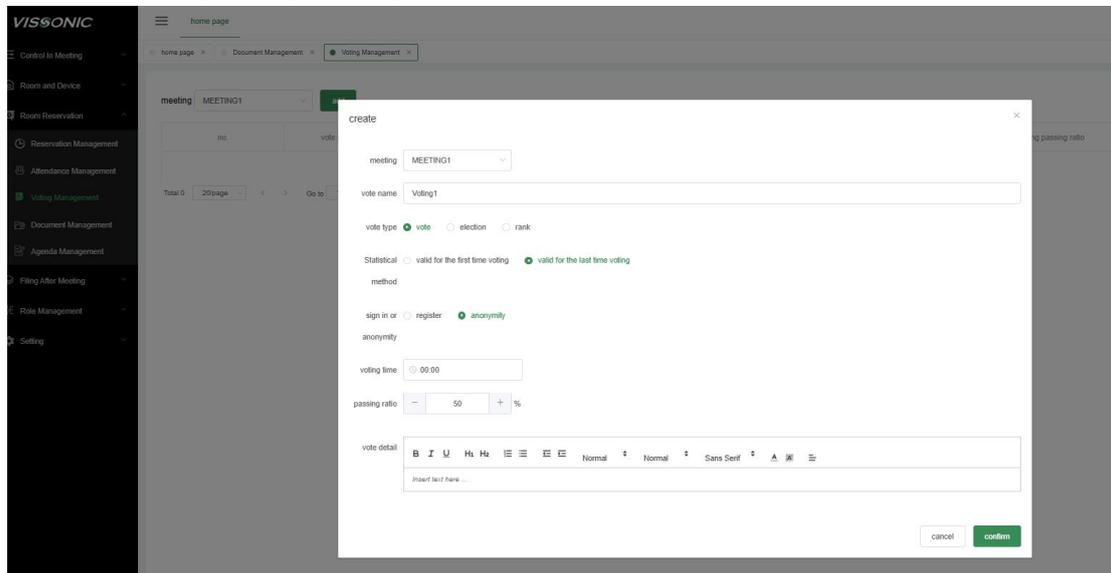
3.1.9. Add meeting files

Open [Room Reservation] and [Document Management], Select a meeting, click [Upload], choose the file you want to upload and click [Open]. **All uploaded files, except videos, will automatically convert to PDF format.**

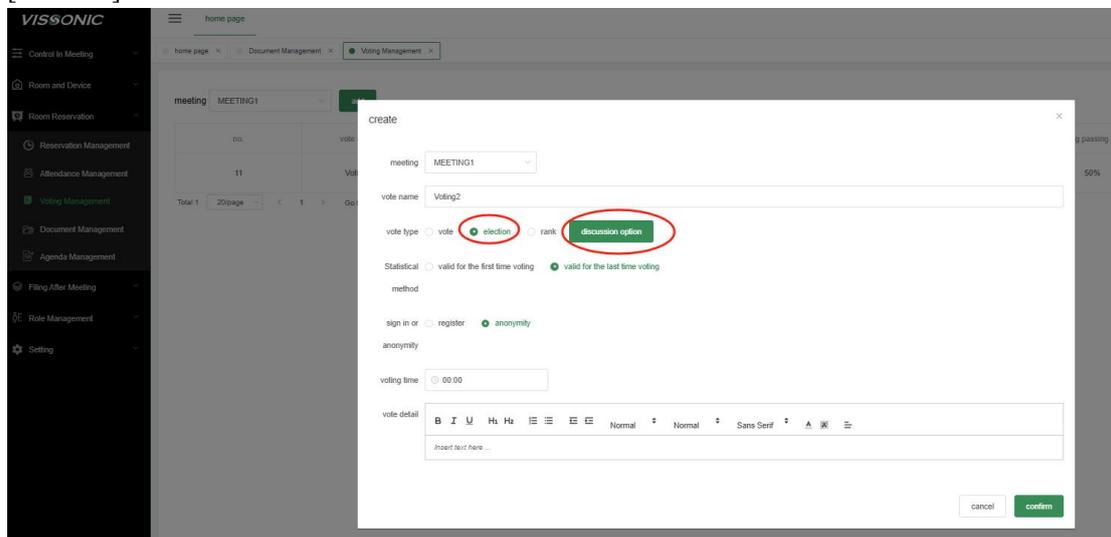


3.1.10. Meeting voting topics

Open [Room Reservation] and [Voting Management]. Select a meeting, click [Add], enter the voting name, select voting type, statistical type, sign in or anonymous, voting time, pass ratio and details, and finally click [Confirm].



Note: If the voting type is election or rank, you need to click "discussion option", double-click the "option name" below, you can change or keep the default settings, close it, and finally click [Confirm].



discussion option ✕

Double-click the option to edit. Double-click the option again to exit editing.
drag to sort. Up to 5 options

option name modify

option name	operation
Candidate 1	✕ delete
Candidate 2	✕ delete
Candidate 3	✕ delete
Candidate 4	✕ delete
Candidate 5	✕ delete

3.1.11. Meeting agenda

Open [Room Reservation] and [Agenda Management]. Select a meeting, enter the agenda name. Choose the operation type (file or discussion), select the corresponding file or discussion (file or vote), enter the agenda description, and click [Add].

agenda ID	agenda name	operation	agenda description	edit
1	Video demo	VISSONIC Paperless Conference System Function Demo.mp4	Paperless system demo	✎ edit ✕ delete

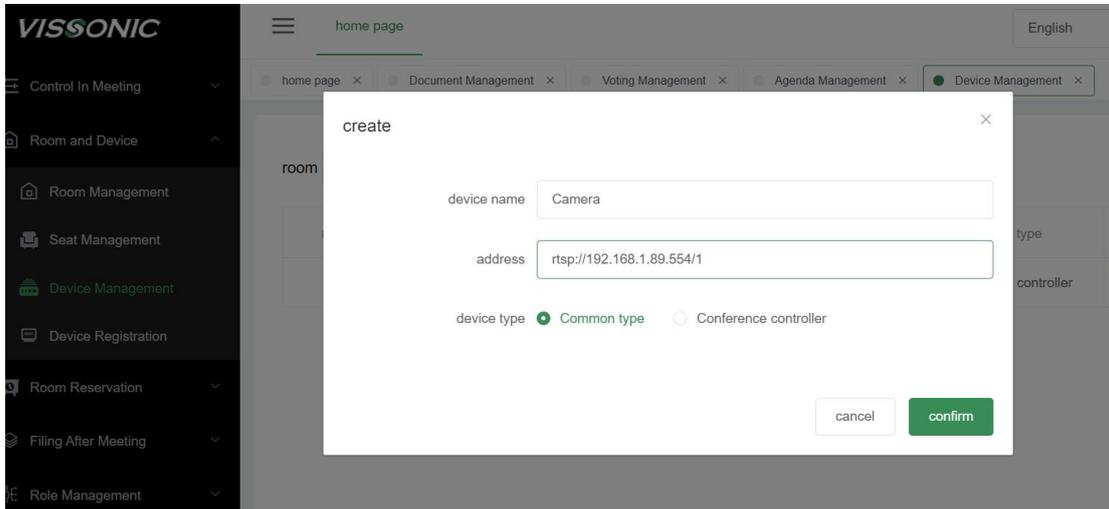
3.1.12. Add cameras/conference controller

Operators can open the backend server management in [Room and Device], then click [Device Management] and [Add]. Enter the custom name and RTSP protocol address of the video source.

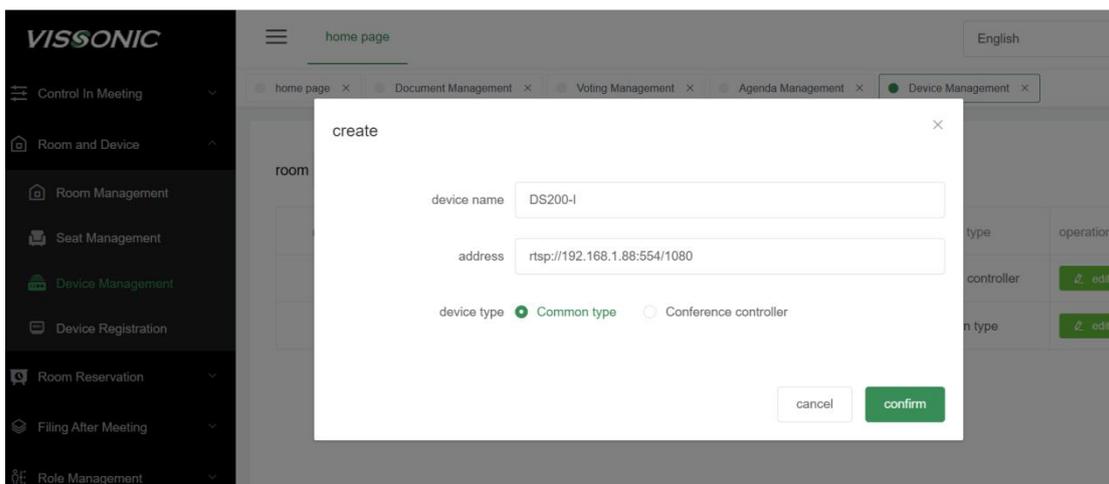
Note: The cameras, and other RTSP streaming devices connected to the switch need to be in the same network segment as the server, segment 1. You can then watch the video source in [Discussion] on the client.

Camera's RTSP address format: rtsp://IP:554/1. Device type: Common type.

For cameras from other brands, consult their manufacturer.

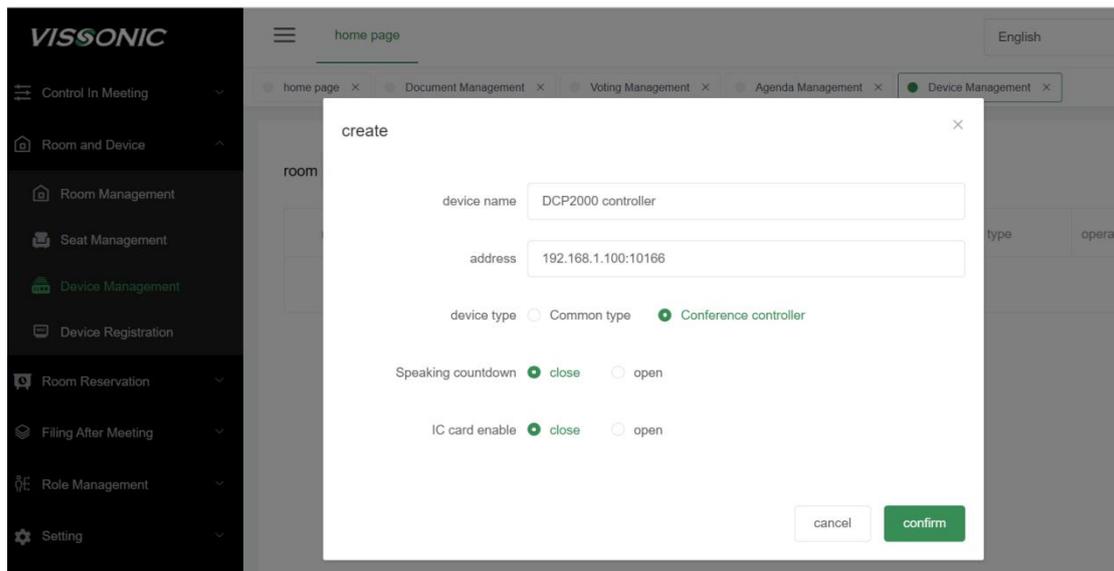


VIS-DS200-I-P Encoder format: rtsp://IP:554/1080. Device type: Common type



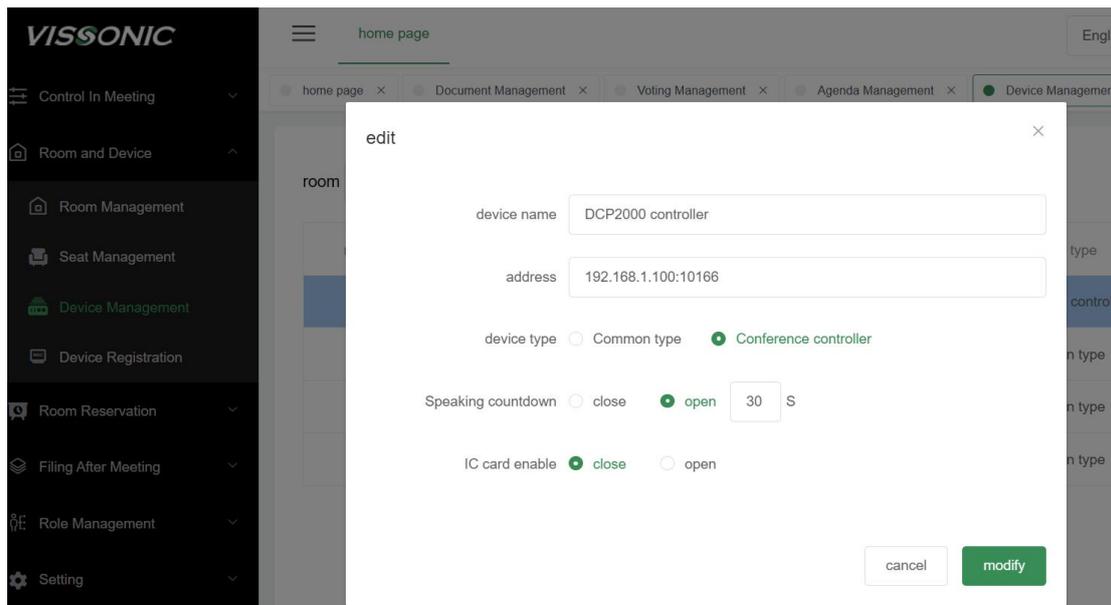
Add conference controller: Select the device type "Conference Controller", enter the conference controller name, which can be customized, and enter the IP address and port number of the conference controller. Note that the conference controller needs to be in the same LAN as the paperless server. To modify the conference controller IP address, please refer to the conference controller user manual. The address and port number input format are shown in the figure below:

VIS-DCP2000 conference controller format: IP:10166. Device type: Conference controller



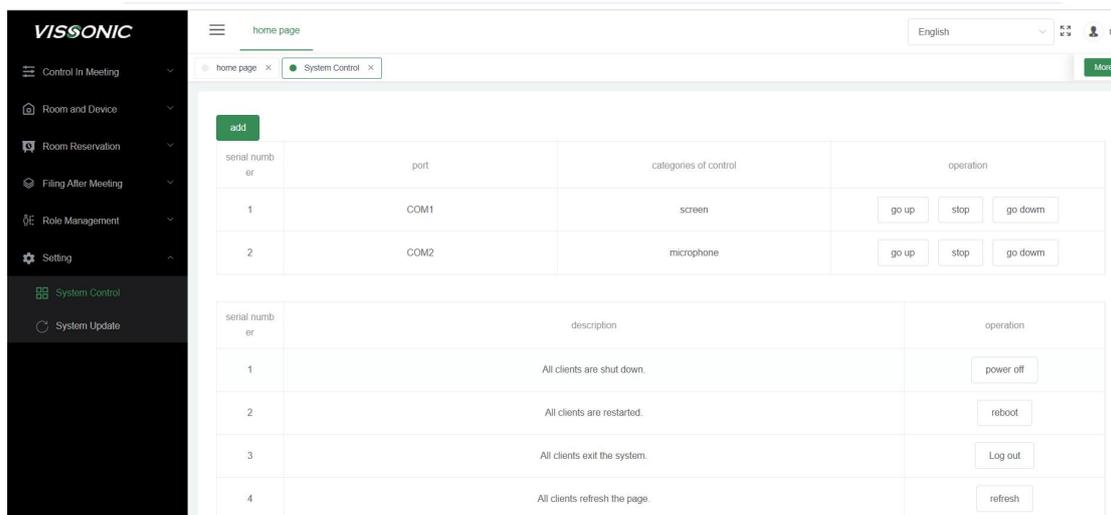
3.1.13. Speaking Countdown

To enable the speaking countdown, go to [Room and Device] [Device Management]. Add or edit a conference controller, enable the countdown, and set the time.



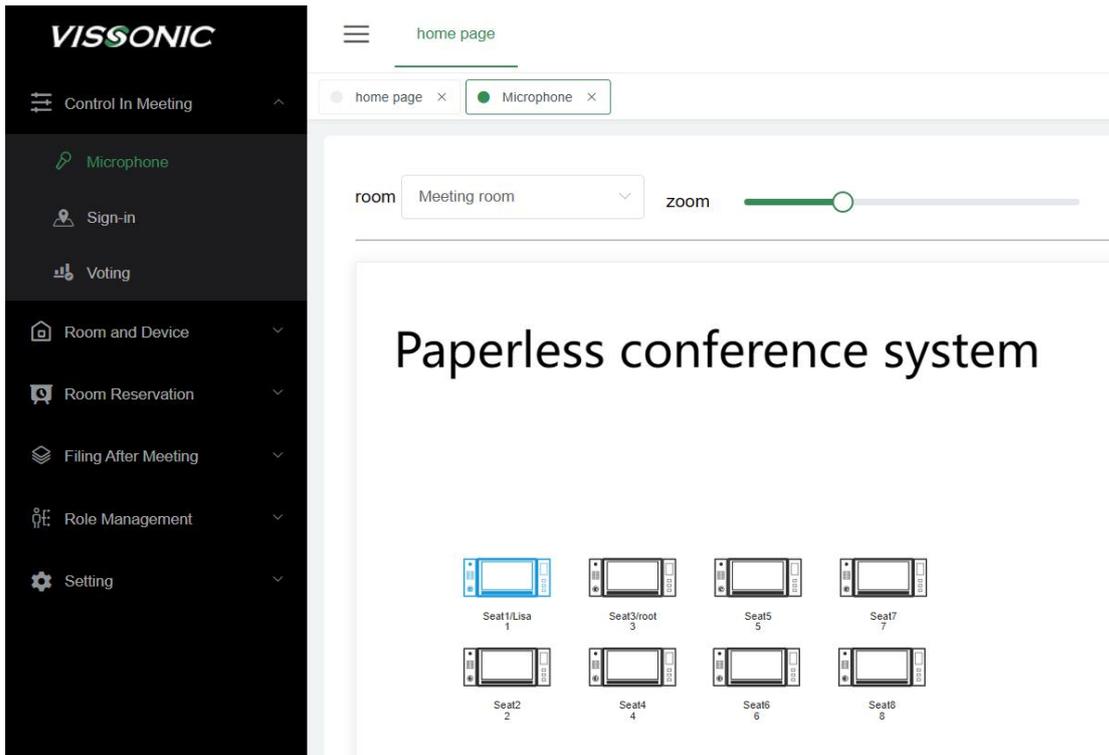
3.1.14. Control and Management

Backend control includes one-click power off, reboot, log out, and refresh. It also supports lift control with lift paperless terminals.

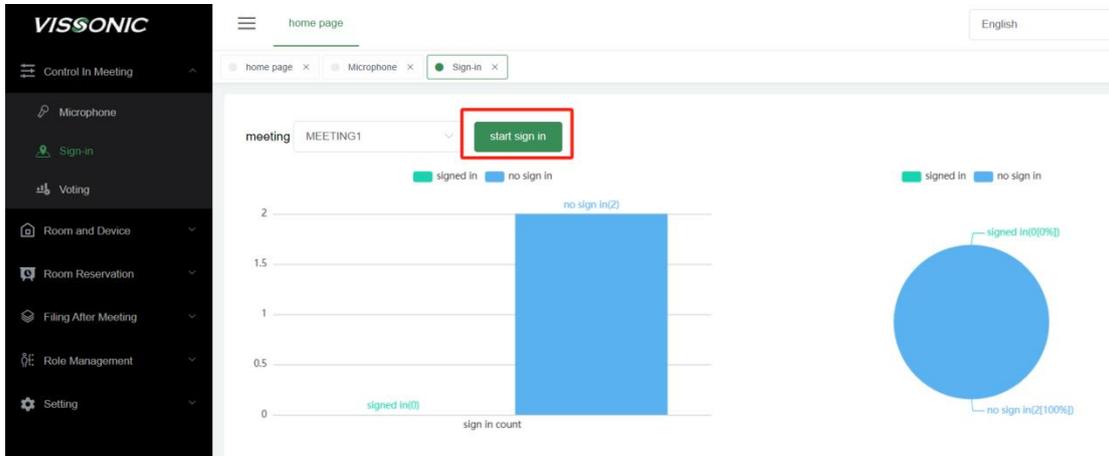


3.1.15. Control during the Meeting

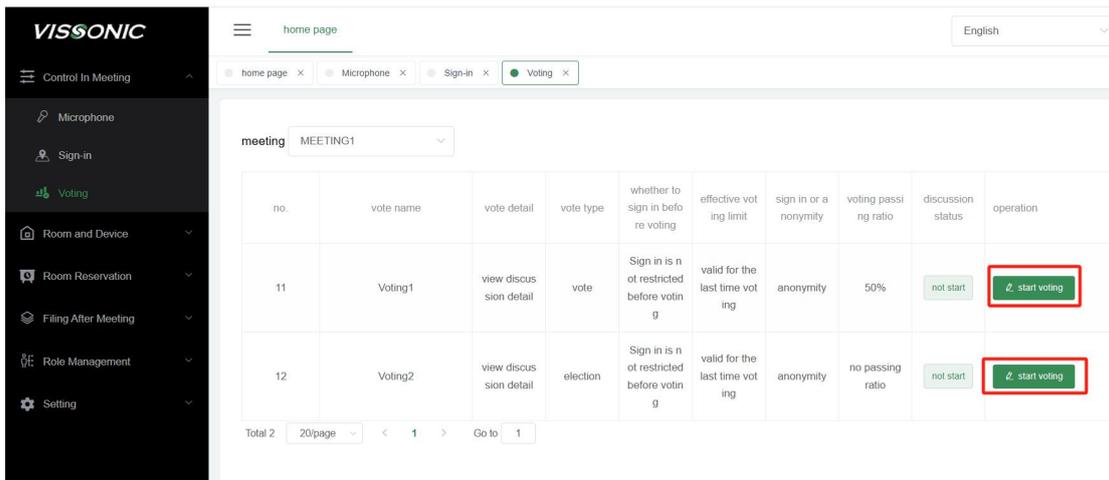
Microphone control: Open the [Microphone] in the [Control in Meeting]. Click the microphone icon. Microphone control allows you to activate or close microphones in the selected meeting room when bound to microphone IDs.



Sign-In Control: Open the [Sign-in] in the [Control in Meeting]. Easily start or end sign-in with a single click during the meeting.



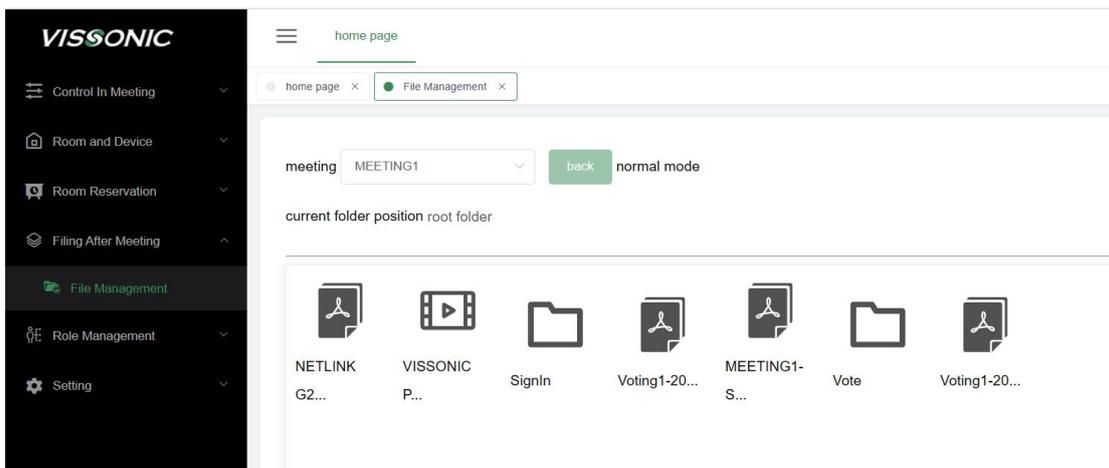
3. Voting Control: Open the [Voting] in the [Control in Meeting]. Initiate or conclude voting, decision-making, elections, and other topics with one click during the meeting.



3.1.16. Post meeting management

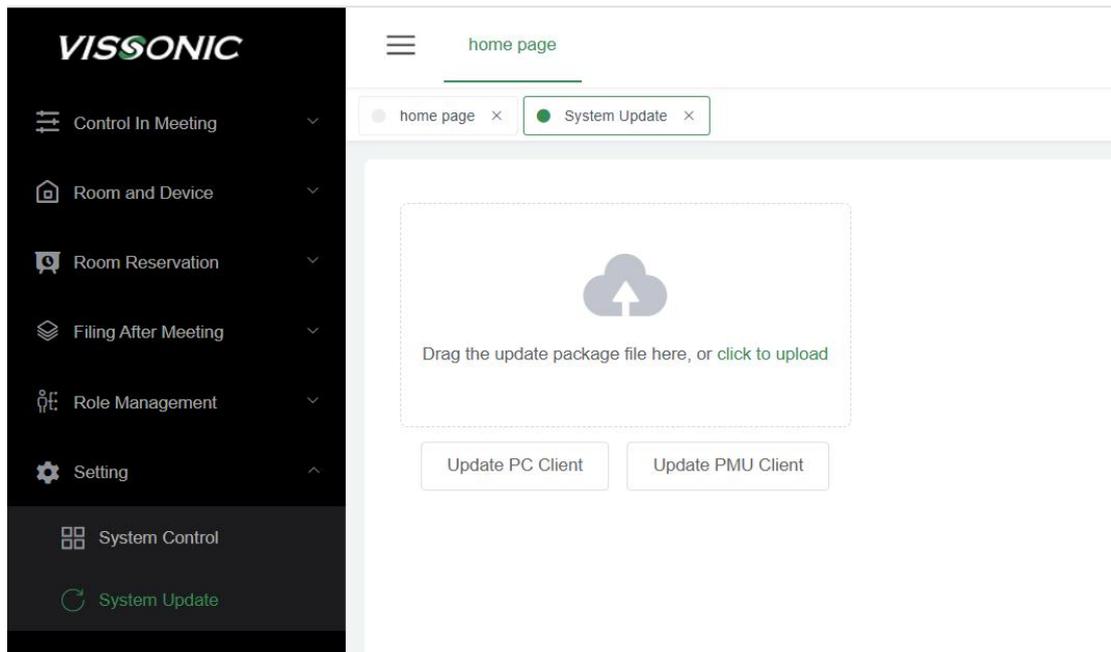
After the normal conclusion of the non-seamless meeting:

- can export the content to be saved, including check-in information, voting information, meeting information, annotation files, etc.;
- can be saved as a folder directory.



3.1.17. Software update

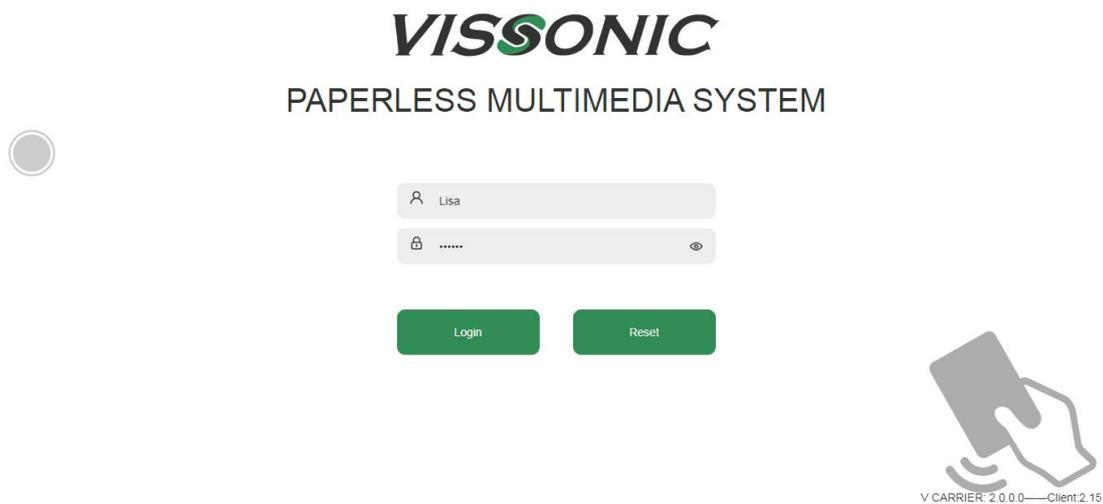
System management can be a key to update Windows client or Android client, will need to update file upload, click update Windows client or Android client.



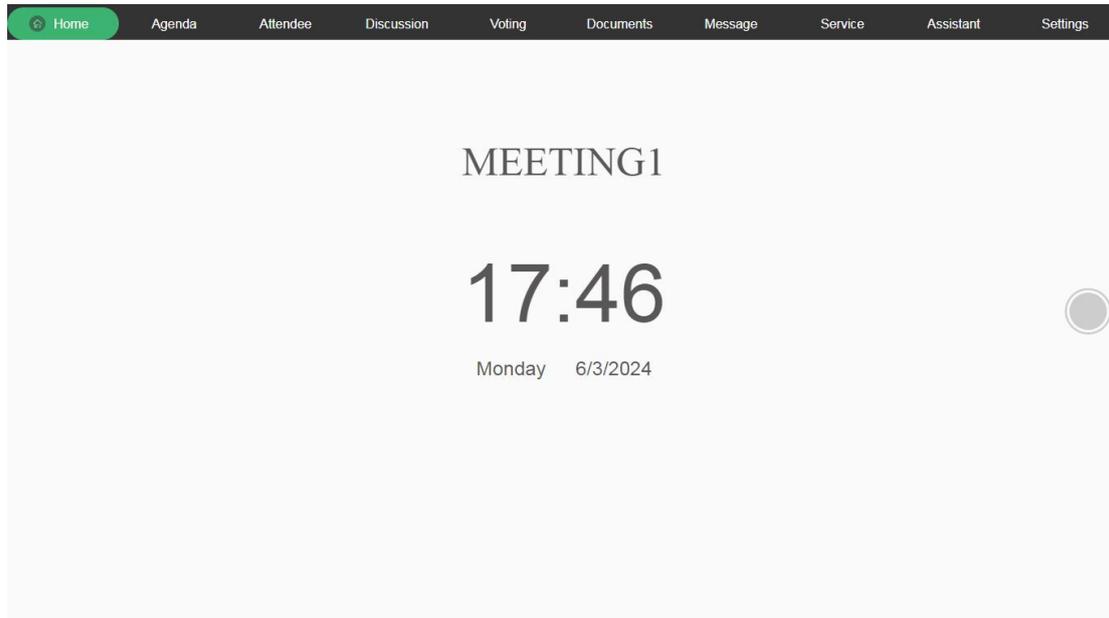
3.2. Configuration of Client

3.2.1. Client user login

Users log in to the client software, enter the user name and password in the login page, and then login to the main interface.



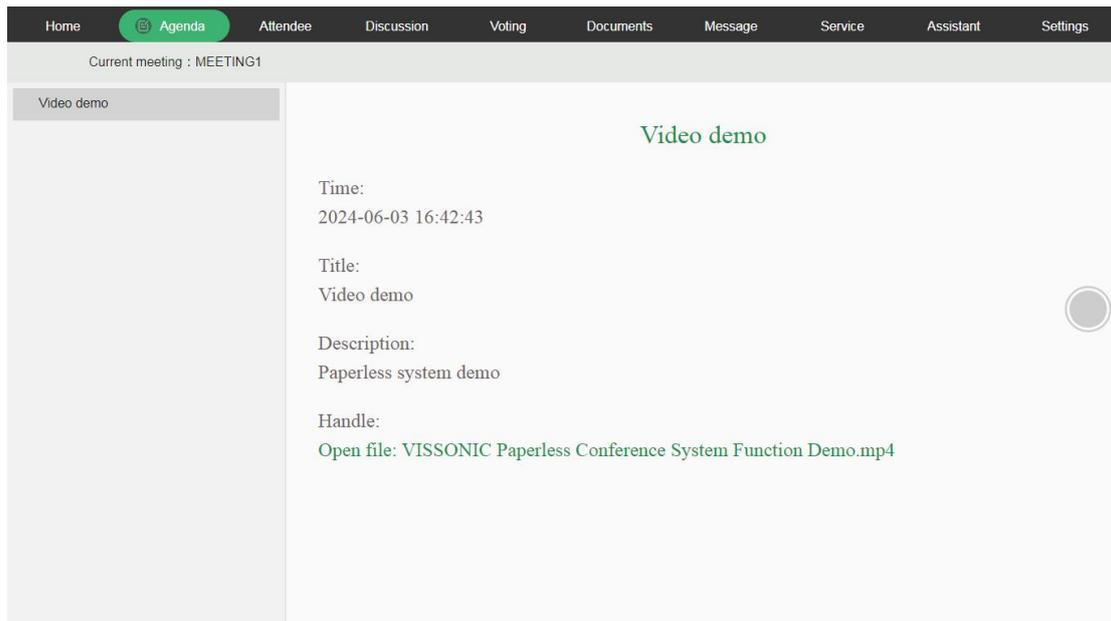
3.2.2. Main client screen



- [Home]: Provide the name and time of the meeting.
- [Agenda]: The name of the current meeting and the meeting agenda, can be directly on the agenda.
- [Attendee]: Information and sign-in of participants.
- [Discussion]: The speaker lists, and watch the streaming videos added in the background [Device Management].
- [Voting]: Votes, elections, ratings added before the meeting, and anonymous voting added temporarily during the meeting.
- [Documents]: meeting view and U disk into the files and information.
- [Message]: Any participant can be selected for online text communication or voice communication (under development).
- [Service]: You can call water, pen and on-site technical support.
- [Assistant]: Control, announcement, service management.
- [Settings]: Setting, language, EQ, software version.
- [Floating ball]: Same screen, projection, keyboard, follow, return.

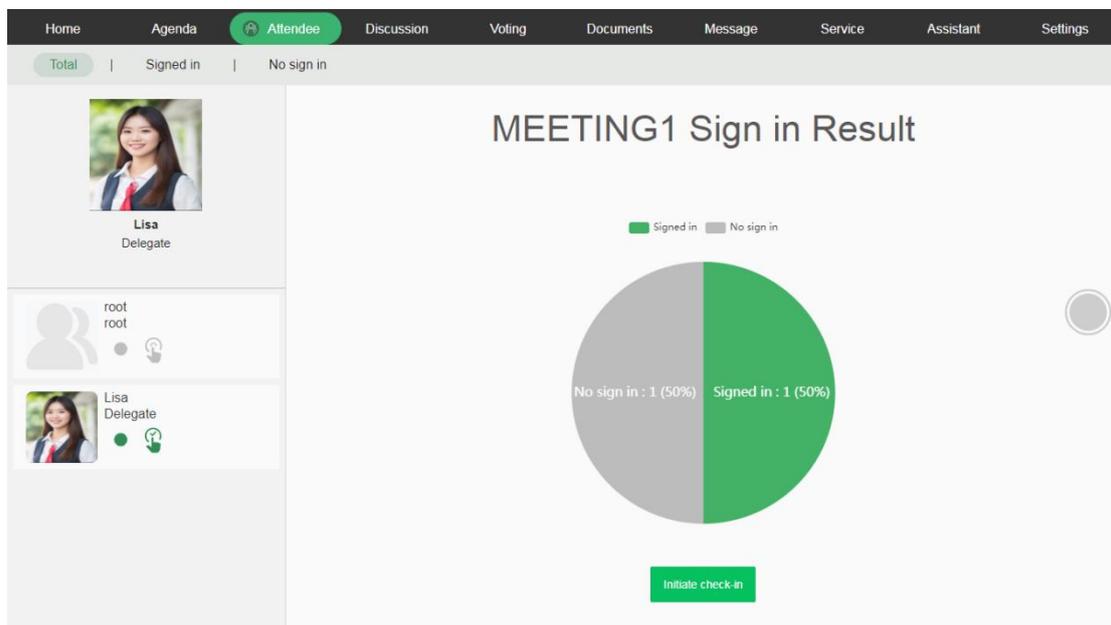
3.2.3. Agenda

The host or assistant opens the [Agenda] menu, selects an agenda in [Agenda Management] on the left, and clicks "Open file: xxx" under "Handle" to proceed with the agenda.



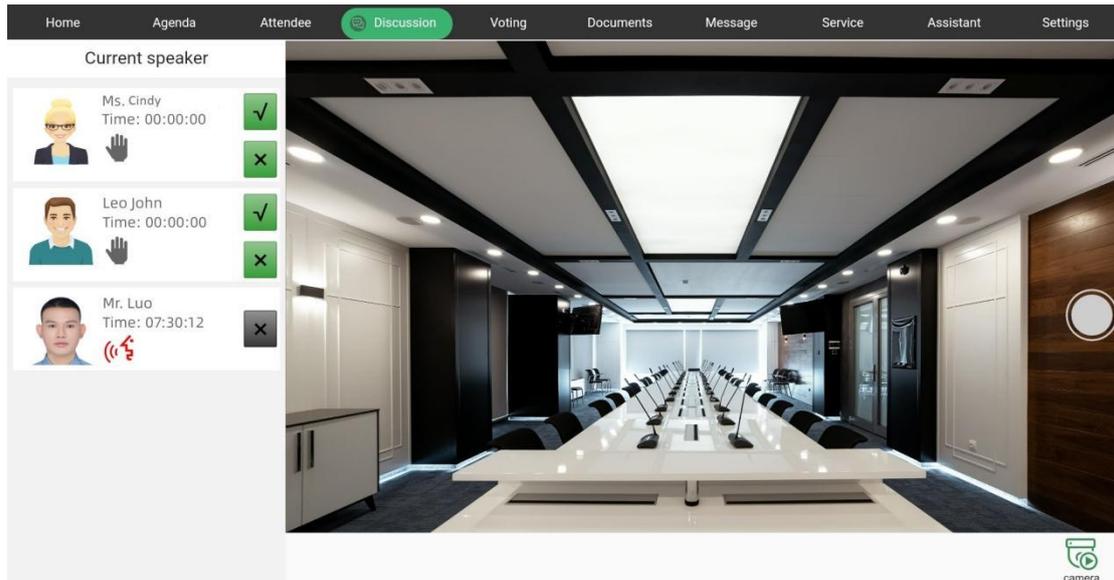
3.2.4. User check-in

Open the [Attendee] interface, the interface of the host or assistant has a button to [initiate check-in] and [Stop check-in].



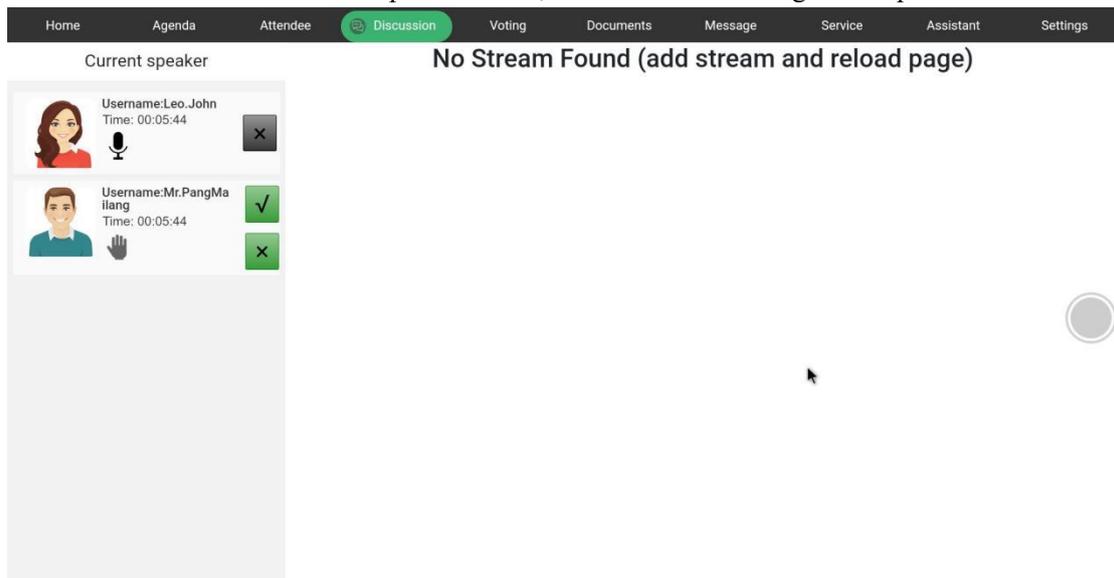
3.2.5. Conference discussion

Open the discussion interface, see the list of speakers, watch third-party video sources, camera signals, and more. Double-click the video screen to go full screen or exit full screen.

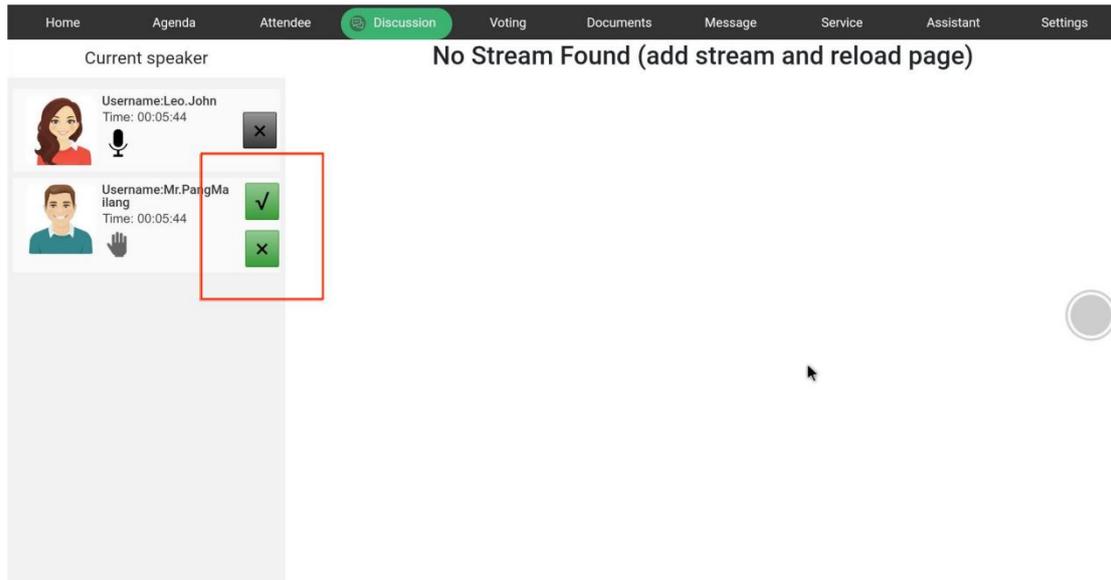


3.2.6. Conference Speech

Participants can control their microphones using the physical buttons on the speaker unit. The chairman unit has the additional option to mute, turn off or allow delegates to speak.

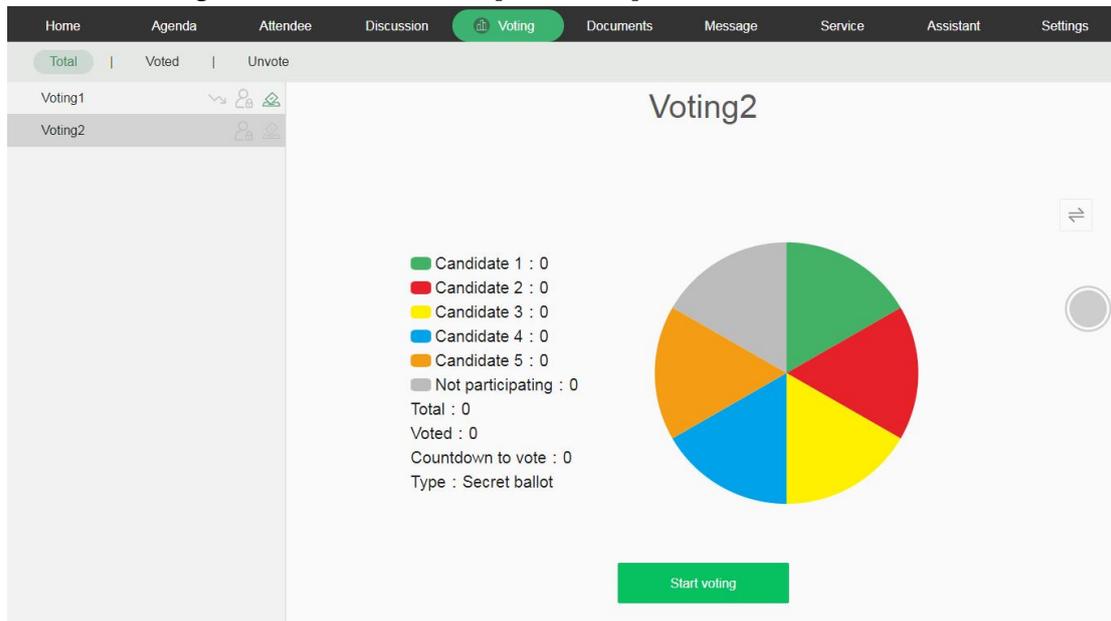


In normal mode, the chairman unit can mute a delegate unit by pressing the veto button once, and close it by pressing it twice. In request mode, the chairman can approve or reject speaking requests from delegate units using the button controls or the speaking list.



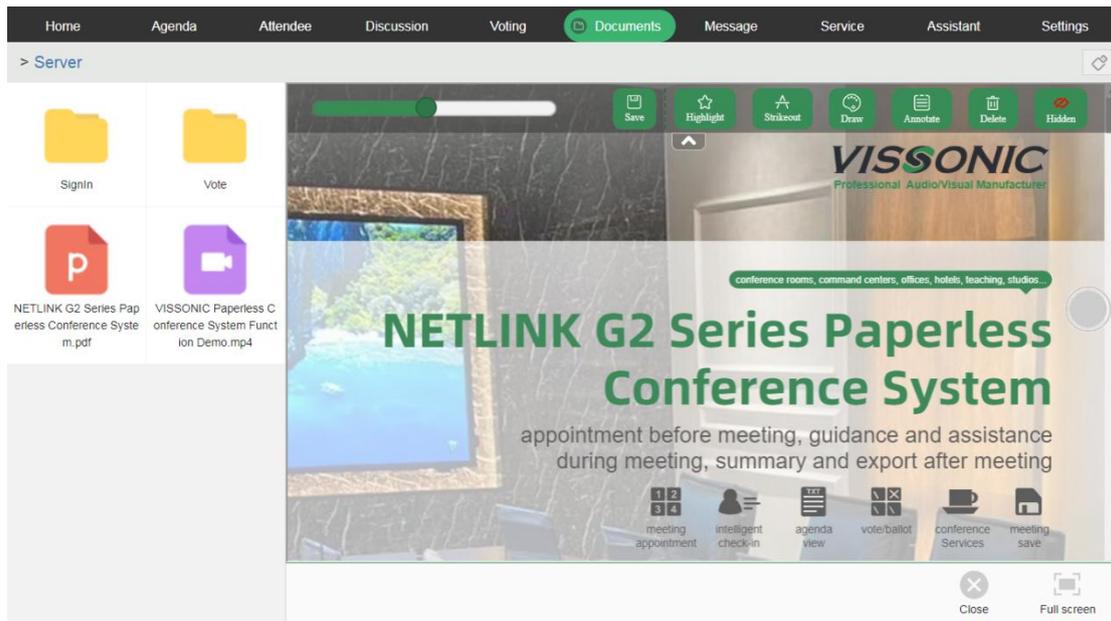
3.2.7. Conference voting

The host or assistant opens the voting interface and selects a vote in the voting list on the left to quickly initiate a vote. The voting process can be viewed on the projection screen. After the voting is over, the voting results can be viewed in [Documents].



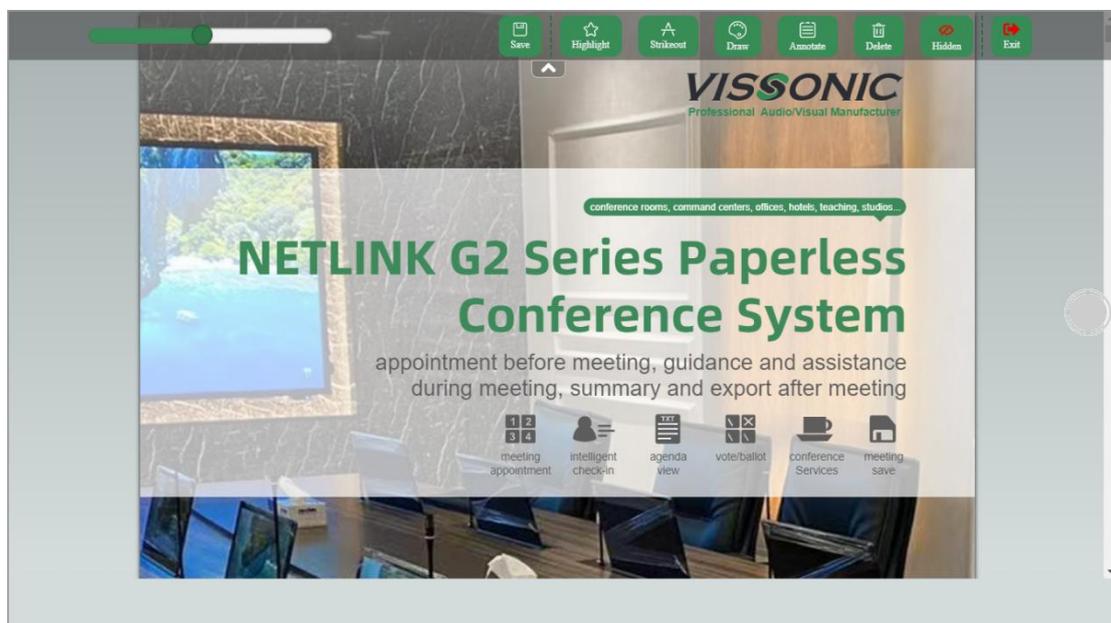
3.2.8. Conference document

Users can choose a file and click to open it for reading; support uploading files from a local USB flash drive; support viewing check-in results and voting results. Click [Full Screen] to display in full screen, and click [Close] to close the document.



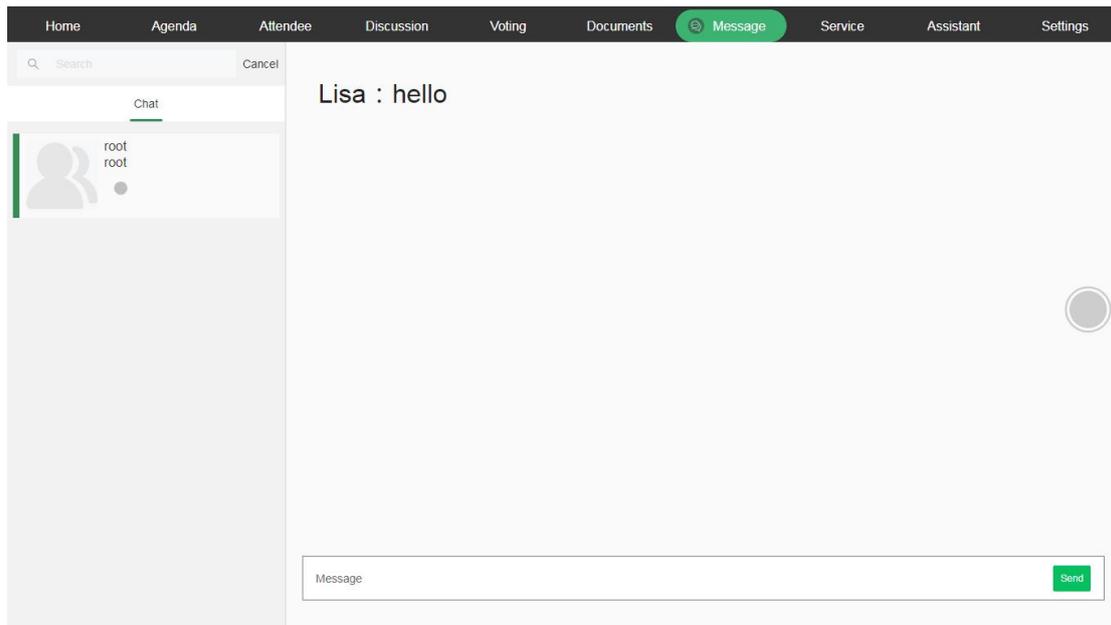
3.2.9. Notes on Meeting

After logging in to the client, each participant can annotate the meeting files; the annotations will be saved in the backend management terminal [Document Management], and [Document Management] will automatically generate a user-named folder to save the file information of the meeting annotations.



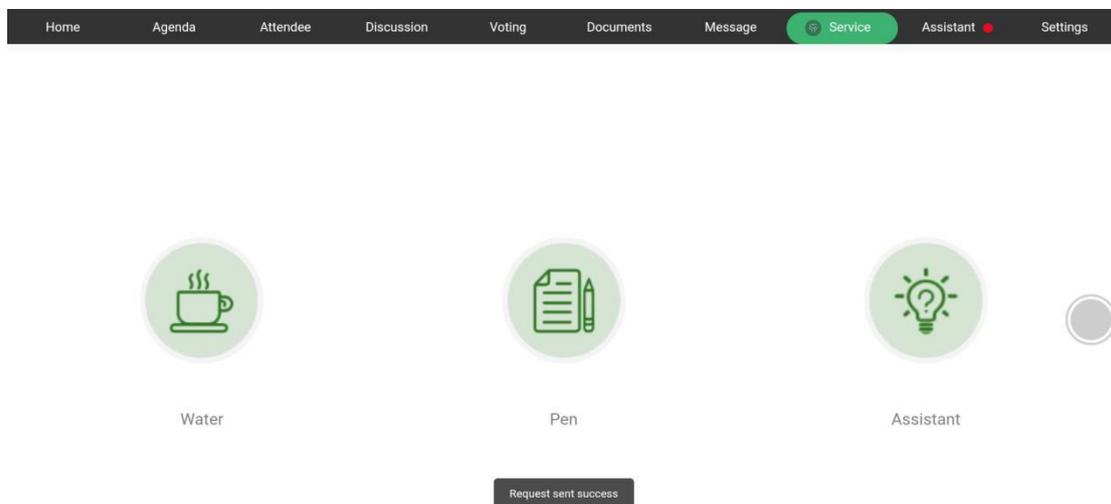
3.2.10. Conference messages

Internal message exchange, can send text or voice to other participants for communication.



3.2.11. Conference services

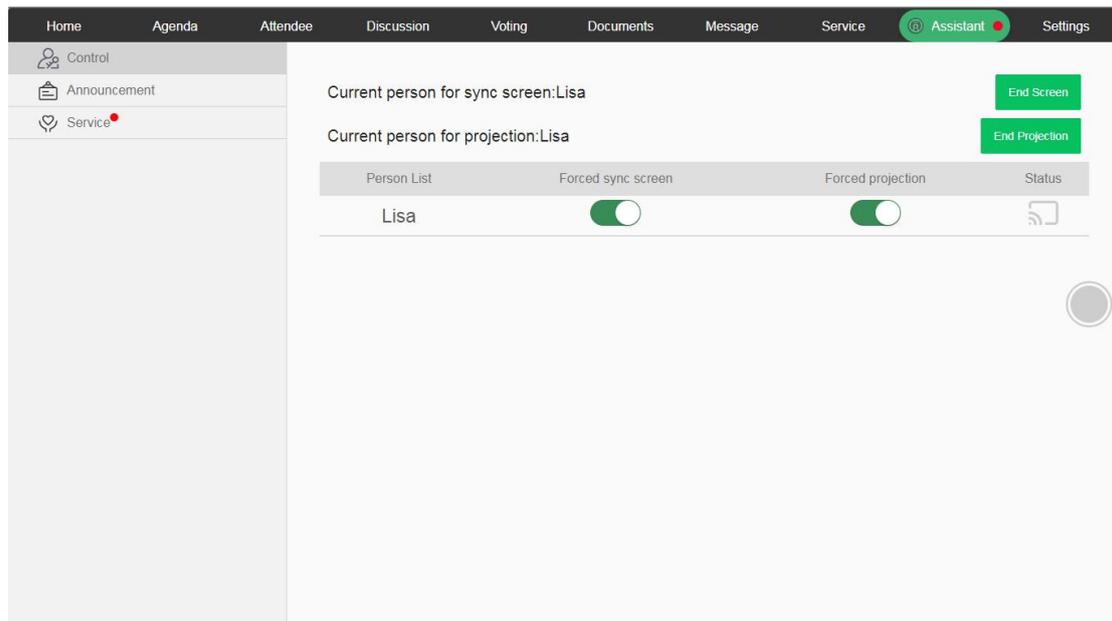
Attendees can open service interface, call water, pen, assistant service and so on.



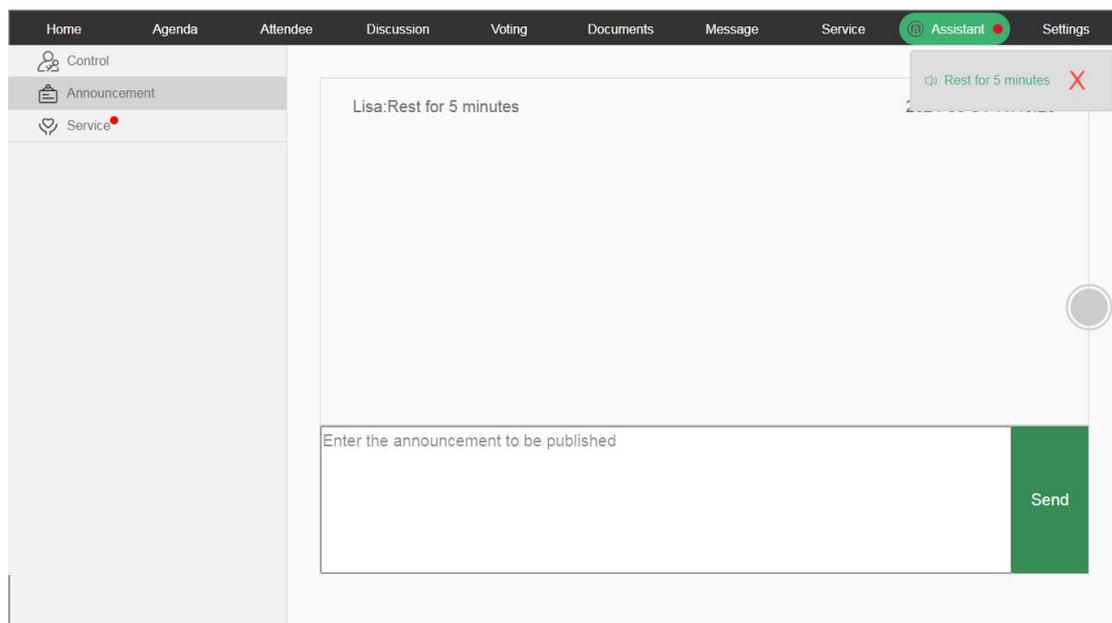
3.2.12. Assistant management

The host or assistant opens the [Assistant] interface to manage the meeting.

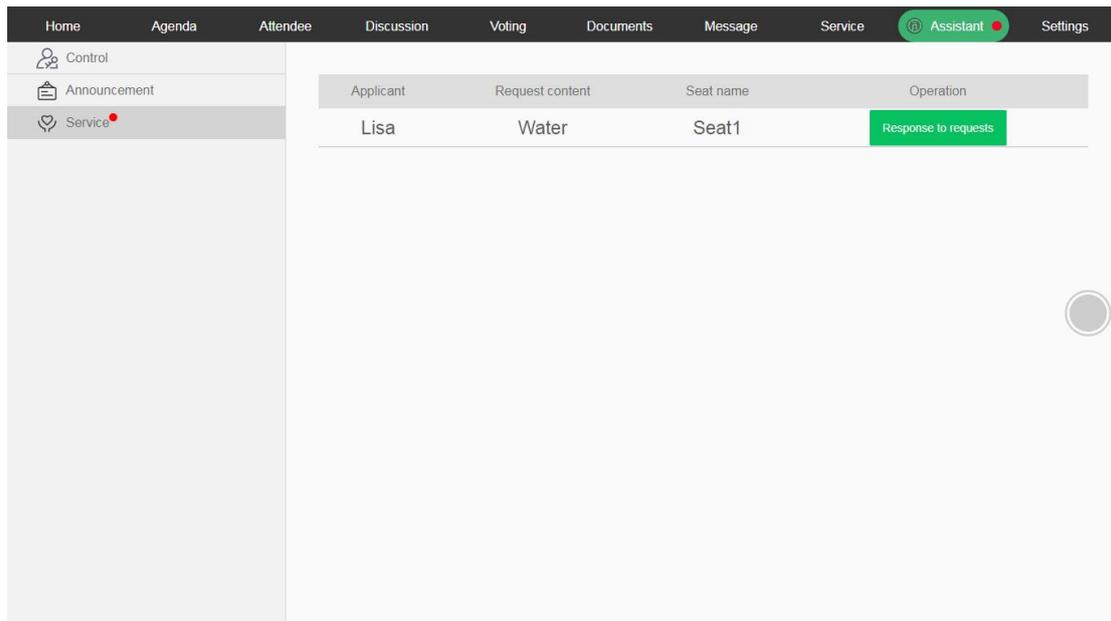
[Control] Select the participants to authorize/cancel, check or cancel the corresponding permissions.



[Announcement] Host or assistant can edit and publish the announcement.



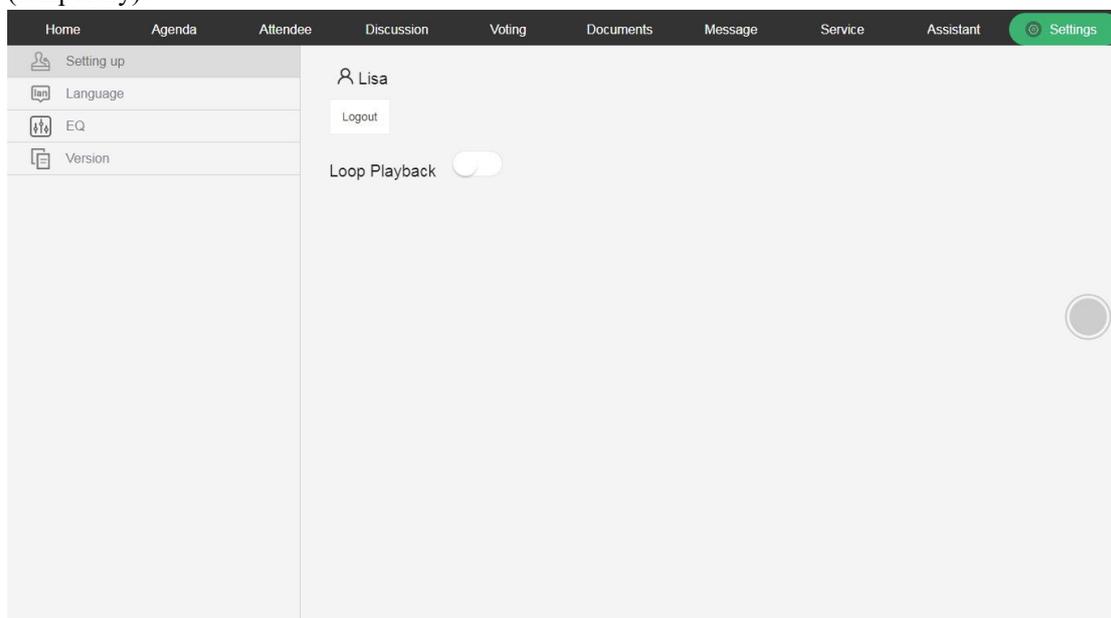
[Service] The host or assistant can view and respond to the services requested by the conference participants.



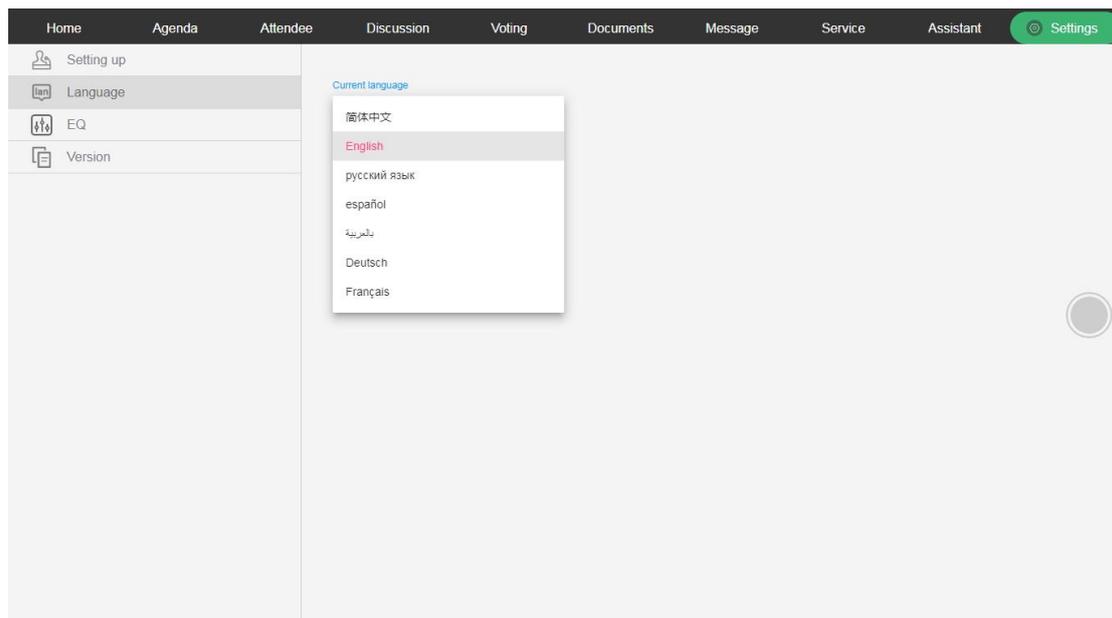
3.2.13. Conference Settings

Attendees to open the settings interface, can adjust log out, switching language, EQ, and to check the software version.

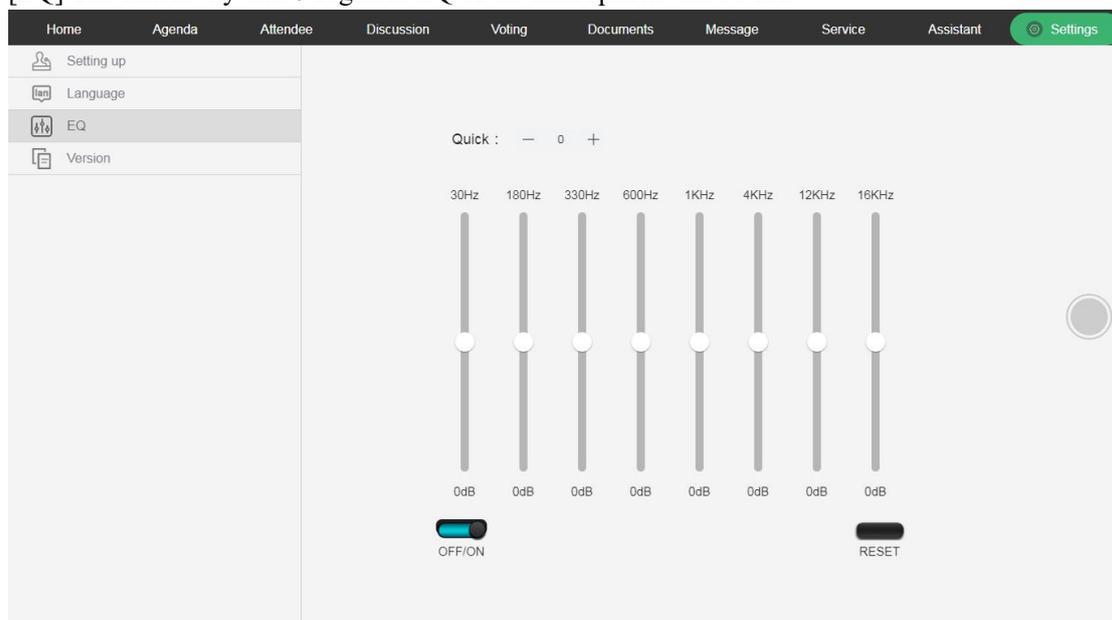
[Setting up] You can view attendee name and logout, and turn on/off video loop playback (temporary).



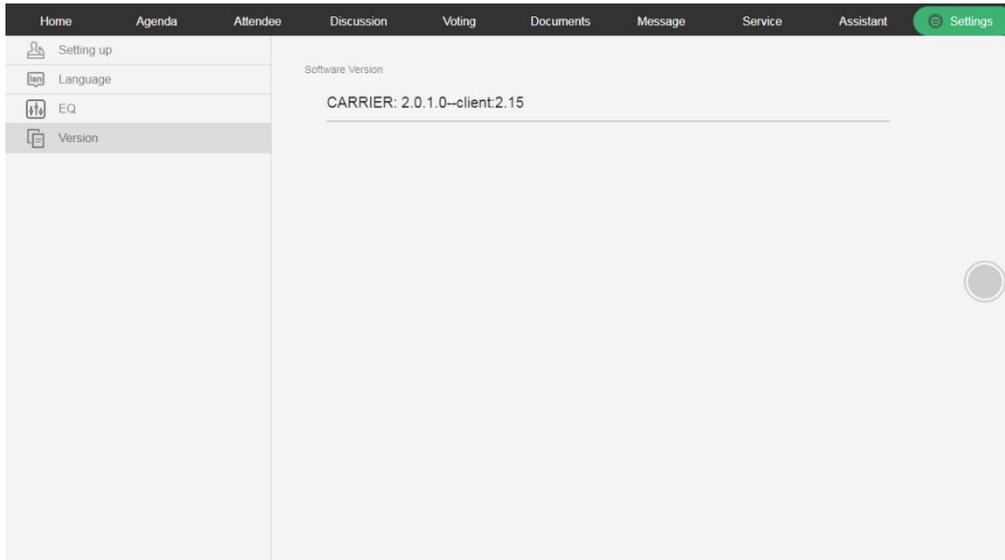
[Language] Can switch between different languages.



[EQ] The sensitivity and 8-segment EQ of the microphone can be set.

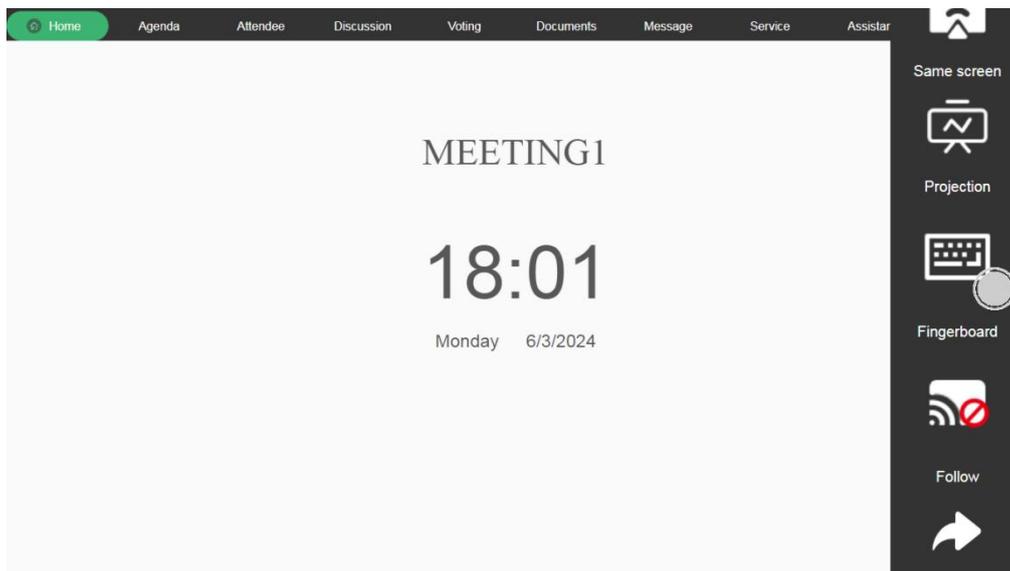


[Version] View client version.



3.2.14. Screen Sharing

The host or assistant can initiate screen sharing or projection by clicking on the floating ball [Same screen] or [Projection]. If they have the necessary permissions, indicated by a red circle in the lower-right corner of the icon if permissions are absent.



[Same screen] Easily share the screen content of this client with other attendees logged into the client interface.

[Projection] Project the screen content of this client onto a large screen.

[Fingerboard] The keyboard for this client.

[Follow] Users with the permission to follow can click to join the shared screen of another participant without actively entering screen sharing mode. They can also exit the screen sharing session.

[Return] Return to the previous level.

4. Common Troubleshooting Solutions

Symptoms of Malfunction	Solutions
Unable to Access Server Backend Administration	1. Check if the server backend software is running properly.
	2. Verify that the entered IP address is 192.168.1.244:8080. Note: The colon should be entered in English.
	3. Check if the network is on the same subnet.
Unable to Create Meetings	1. Verify if the meeting room has been created.
	2. Check if the meeting time has been added.
Unable to Upload Files	1. Verify if the chairman has been assigned in the participant management settings.
Documents or Videos Cannot Be Viewed	1. Verify if the storage folder for files is properly associated.