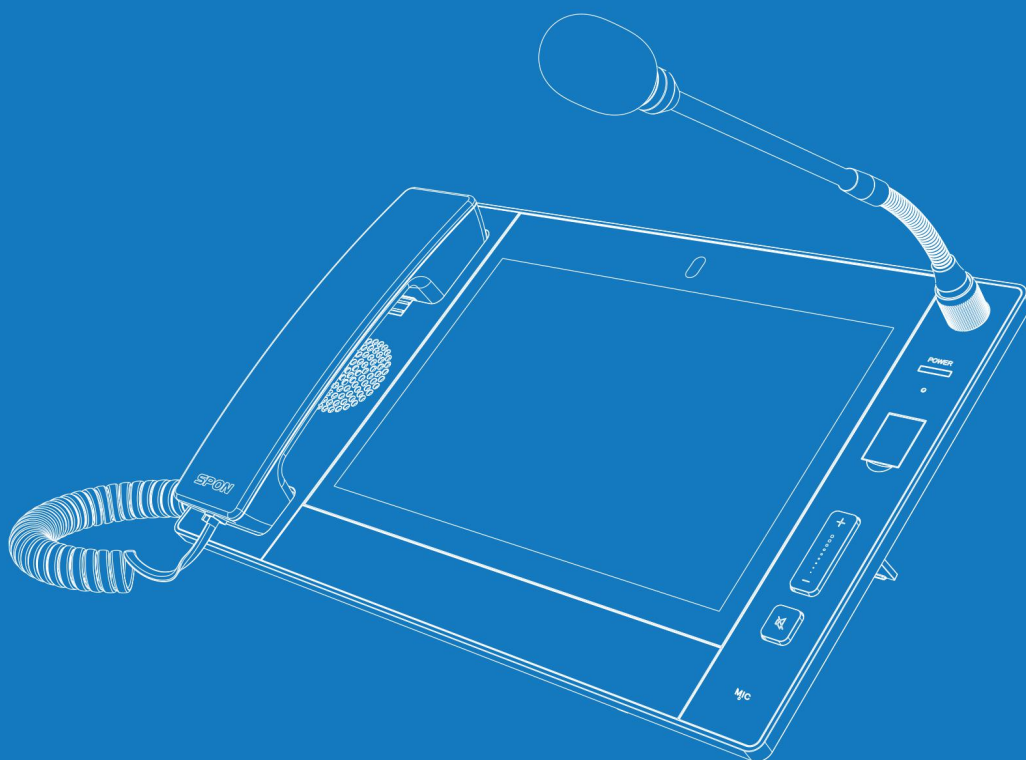


# ***SPON***

## IP NETWORK VISUALIZATION CONTROL HOST

### User Manual



# Content

<b>Summary.....</b>	<b>1</b>
Safety precaution.....	1
Product introduction.....	2
Features.....	2
Hardware interface introduction.....	3
<b>Introduction.....</b>	<b>4</b>
Packing List.....	4
Installation.....	5
Wiring.....	6
Interface Description.....	6
Basic network settings.....	7
Terminal list settings.....	8
Zone list settings.....	9
<b>User-define terminal parameters.....</b>	<b>9</b>
Login web page.....	9
Basic Settings.....	11
Running Status.....	11
Device Params.....	11
Server Params.....	12
Talk Params.....	13
Broadcast Params.....	15
Monitor Params.....	16
Conference Params.....	17
System Params.....	18
Audio Process.....	21
Terminal Settings.....	22
Offline Params.....	22
Resource Management.....	22
Audio Ringtones.....	22
Media Program.....	23
Background Pictures.....	23
Advanced Settings.....	24
System Settings.....	24
User Management.....	24
User Reset Password.....	25
Upgrade.....	25
System Logs.....	26
<b>Basic function.....</b>	<b>26</b>
Intercom.....	26
Initiate intercom.....	26
Close Audio.....	28
Remote unlock.....	28
Display external video.....	28
Call transfer.....	28
Multi-Call.....	30
PTT talk.....	31
Offline talk.....	32
Digital map/Scene mode.....	33
Talk records.....	35
Refresh terminal.....	36
Broadcast.....	36
Emergency Broadcast.....	36
Dialpad broadcast.....	37
Zone broadcast.....	37
Terminal broadcast.....	38
Sound source selection.....	38

Stop broadcast.....	42
Offline broadcast.....	42
Local BC.....	43
Voice Alarm.....	43
Monitor.....	44
Dialpad moritor.....	44
Single monitor/loop monitor.....	45
Conference.....	46
Initiate conference.....	47
Invite participants.....	48
Conference interface description.....	48
Specify speech/silence, video switch, screen switch, kick.....	49
Share Files.....	50
Scenario mode switch.....	51
Vote.....	52
Face Sign-in.....	53
Conference template settings.....	54
Join the conference.....	56
Alarm.....	57
Settings.....	58
System Information.....	58
Network parameters.....	59
Local Video.....	59
Function settings.....	59
System tool setting.....	60
Add favorites.....	60
BC favorites.....	61
Screen Lock.....	61
<b>Fault exclude.....</b>	<b>62</b>
<b>Copyright statement.....</b>	<b>63</b>

## Summary

### Safety precaution

Please abide by the warning and the relevant safety tips.

Please take this manual in convenient place after you reading the guide for future reference.

### Warning



**The sign means there is potential safety hazard, when operate wrong may result in death or serious injury.**



**The sign is used to remind user of this equipment is attached the important data of operation and maintenance.**

### Settings and Installation

(1) Avoid being wet with the water.

Don't make the machine or exposed to rain water or other liquid contamination of the environment, or lead to fire or get an electric shock.

(2) Don't use voltage outside of the designation.

Using the marked voltage on the machine.

Using more than the logo of voltage could lead to fire or shock.

(3) Don't scratch the power cord.

Don't scratch the power cord or cut it.

Simultaneous, keep the power line far way from heated objects, put heavy things on it will lead to fires or electric shock.

### Using machine

(1) Once the anomalies

In use, immediately cut off power supply when finding the abnormal phenomena, please connect with the agency. if you continue to use, it will likely fires or shock.

·The smoke or odor of the machine.

·The inside of the machine is flooded by water or foreign bodies intrusion.

·Machine falling or machine shell damage.

·The power cord damage (wire core is exposed of broken, etc).

·Fault (eg it can't network, no sound etc).

(2) Don't open the machine internal or modification of the machine.

(3) Do not let foreign matters invade the machines internal.

Don't let the metal items or inflammable objects inserting machine such as foreign inserting machines or throw into the vents machines internal, otherwise will likely cause fires or electric shock.

(4) Avoid splashing and raining.

(5) Do not place the equipment in a humid environment.

(6) Do not place the device in an environment with strong ultraviolet rays and direct sunlight for a long time.

(7) Maintenance or the precautions when not in use for long time.

During maintenance, if the machine is not used for 10 days or more, to ensure safety, please turn off the power switch and pull out the power plug.

## Product introduction

IP network visualization control host is a professional IP communication intelligent product integrating audio, video communication and system control. It uses a 10.2-inch multi-touch capacitive screen, high-definition LCD display, 13 million-pixel high-definition camera and high-definition earpiece, allowing users to get a clearer audiovisual experience. It integrates dual RJ45 network ports, HDMI, USB 3.0, audio input and output, alarm input and output and other interfaces, providing customers with richer and more efficient business applications.

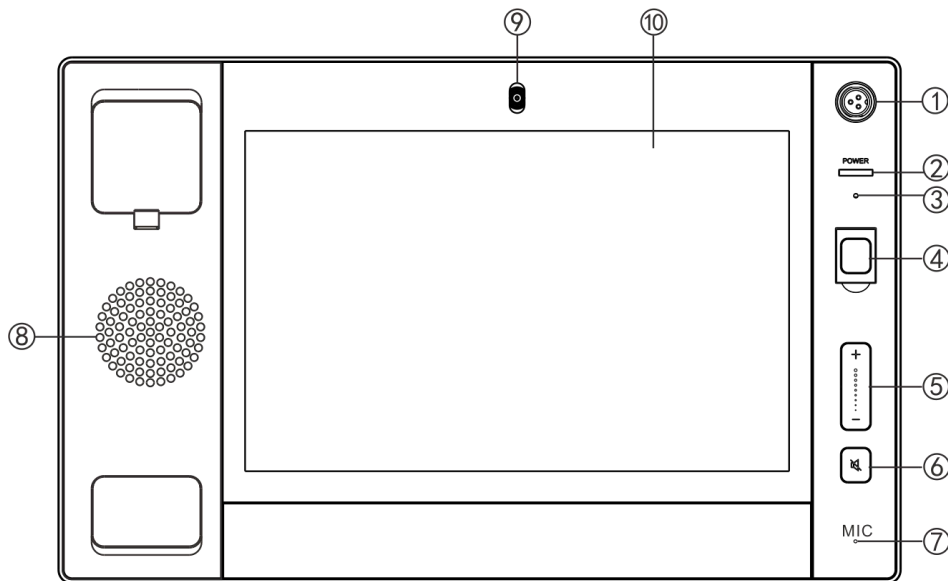


## Features

- Professional console design, can be installed placement of desktop, hanging and embedded.
- With a 10.2 inches digital image display, capacitive touch screen, resolution ratio 1280 \* 80.
- Built-in 13 megapixel HD digital camera, support two-way video calling.
- Can view the working status of other terminals (login status, intercom status, task status)
- Can broadcast to the whole area, sub-area and individual terminals. The broadcast audio source supports microphone stick input, microphone input, line input, audio files, text files and pre-recording.
- With a red emergency button, support one key broadcasting to the preset group.
- Support local sound reinforcement function, be through 3.5mm line output external active speaker for local sound amplification/program playback.
- Built-in 3W speakers and microphones, used for hands-free calls, receive broadcast and monitoring (digital noise reduction).
- Support incoming/outgoing display function and view all call records (missed calls, incoming calls and outgoing calls) at the same time.
- Supports the remote unlocking function. During intercom, you can send the unlocking command to the intercom terminal to trigger the short-circuit output action of the other party.
- Supports PTT intercom, which is used for intercom with the wireless intercom connected to the system.
- Support multi-party call function , can support up to five party intercom simultaneously .
- Support call transfer function, support busy transfer、 manual transfer、 no responding transfer,etc .
- Support offline intercom、 offline broadcasting function without server .
- Support single or loop monitoring target terminal .
- Supports the audio and video conferencing function. The meeting initiator can control meeting participants, voice control, file transfer control, and online voting. Supports face check-in in meetings.
- HDMI video output interface can support double screen display or double screen display extension applications.
- With 1 alarm output and 1 alarm input interface to trigger outside connection lights and accept linkage.
- Support 1 channel of 3.5mm line input and 1 channel of 3.5mm line (recording) output interface to meet audio collection and playback under different applications.
- Standard RJ45 network interface, can access if there is a Ethernet, support across the network segment and route.

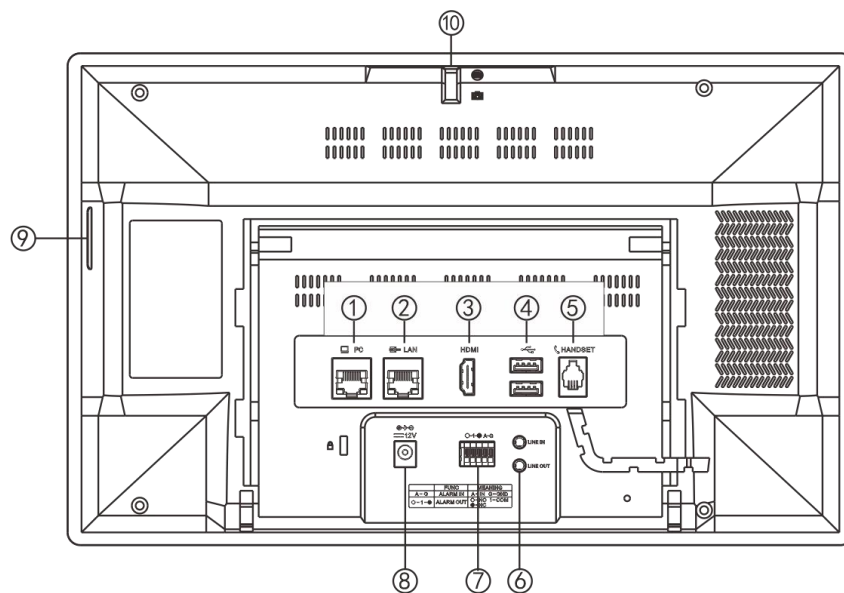
## Hardware interface introduction

### Front



- ① Microphone pole socket: insert the microphone pole, collecting audio.
- ② Working indicator: offline status is red, device has login to the SIP sever is green.
- ③ Reset interface: Use the tweezers to rest.
- ④ Emergency broadcast: press "emergency" button for 1 second, it can broadcast to the all groups, press "emargency" button again to stop broadcast.
- ⑤ Volume control button.
- ⑥ Mute button: press to mute the sound, press again to restore the original volume.
- ⑦ Microphones: Collecting local intercom audio in hands-free mode.
- ⑧ Loudspeaker: Restore the remote and local sound.
- ⑨ Camera: Collect local video.
- ⑩ Touch-screen: Human-machine interaction input channel to receive the command.

### Back



- ① PC interface: connected to the computer or notebook through the network cable.
- ② LAN port: connect the switch via network cable, so that the terminal can log on the server normally. Can support equipment POE power supply.
- ③ HDMI interface: connect the display.

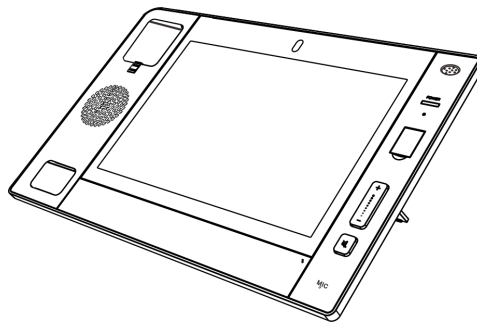
- ④USB interface: USB3.0(top), USB2.0(bottom).
- ⑤Handset interface: connect the handset for convenient private conversation.
- ⑥Line Input interface(up),Line output (record output) interface (down):Line input can be connected to external audio source equipment, line output can be connected to active speakers or power amplifier (support recording output).
- ⑦Alarm input/output interface:
  - A、G: Alarm input;
  - O-No: Alarm output (normally open);
  - 1-COM:public;
  - NC:Normally closed.
- ⑧Power interface: connect with power DC12V/ 3.3A.
- ⑨SD card slot.
- ⑩Camera: Adjust the camera angle.

## Introduction

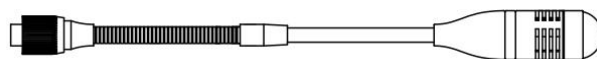
### Packing List

IP network visualization control host is including the following fittings, please check all the fittings before installation. Please contact your supplier if there is any missing.

- (1) IP network visualization control host 1 set



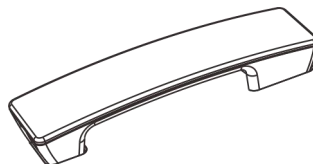
- (2) Microphone pole (IM-250) 1 PCS



- (3) Power adapter (DC12V/3.3A) 1PCS



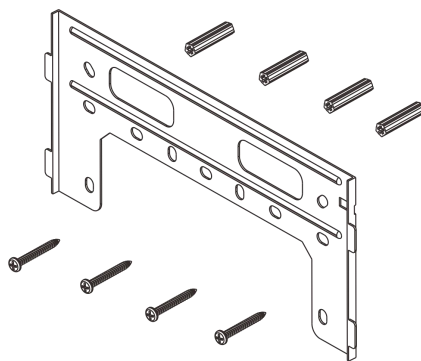
- (4) Handset 1 PCS



- (5) Curve telephone cable with two 4P4 crystal terminals 1 PCS



- (6) Bracket 1 set (optional)



(7) Quick Installation manual 1PCS

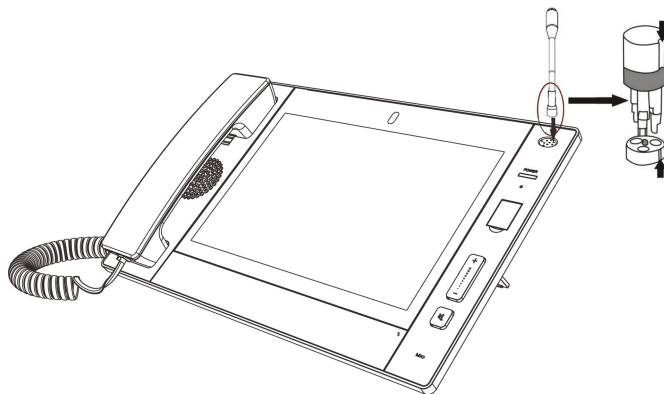


(8) Certification 1pcs

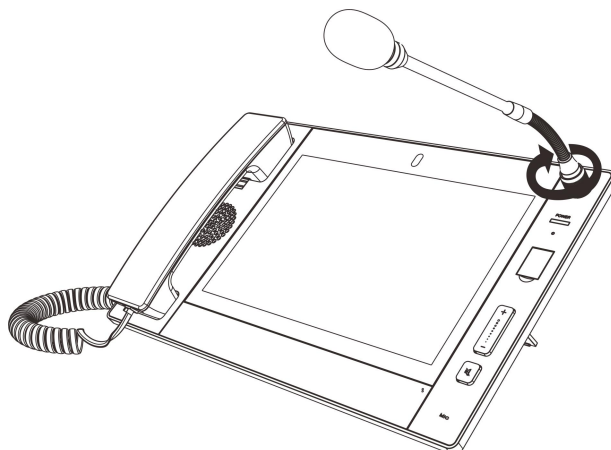


## Installation

(1) Install the microphone pole groove aim at corresponding pedestal groove, as following picture:

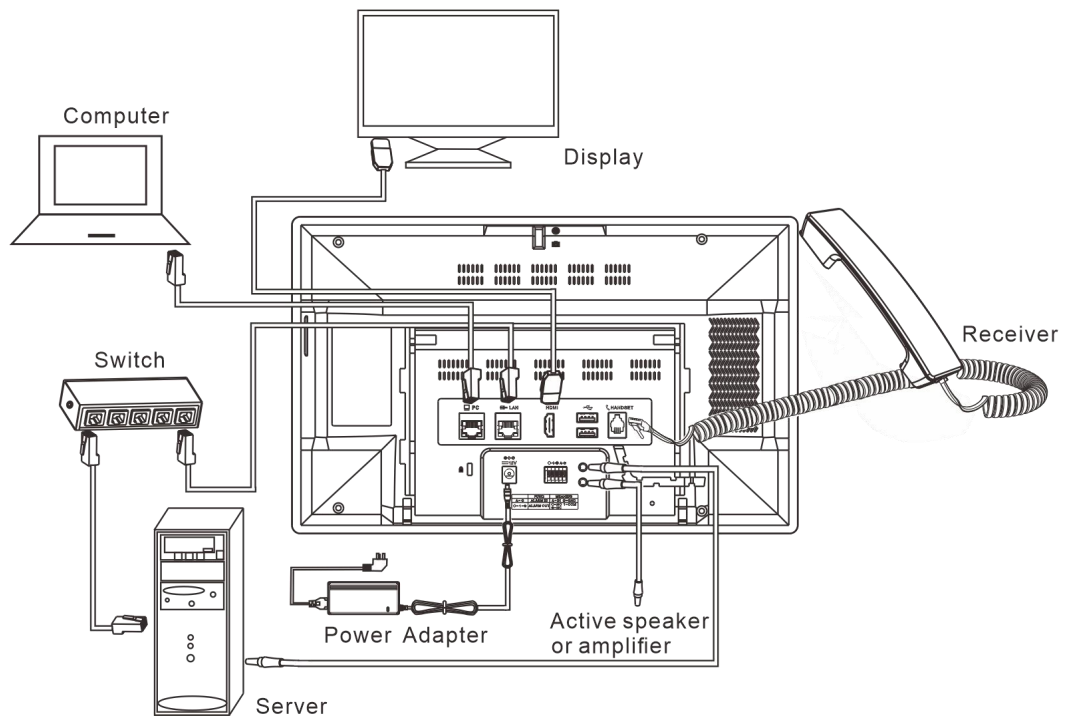


(2) Tighten knob direction as following picture.



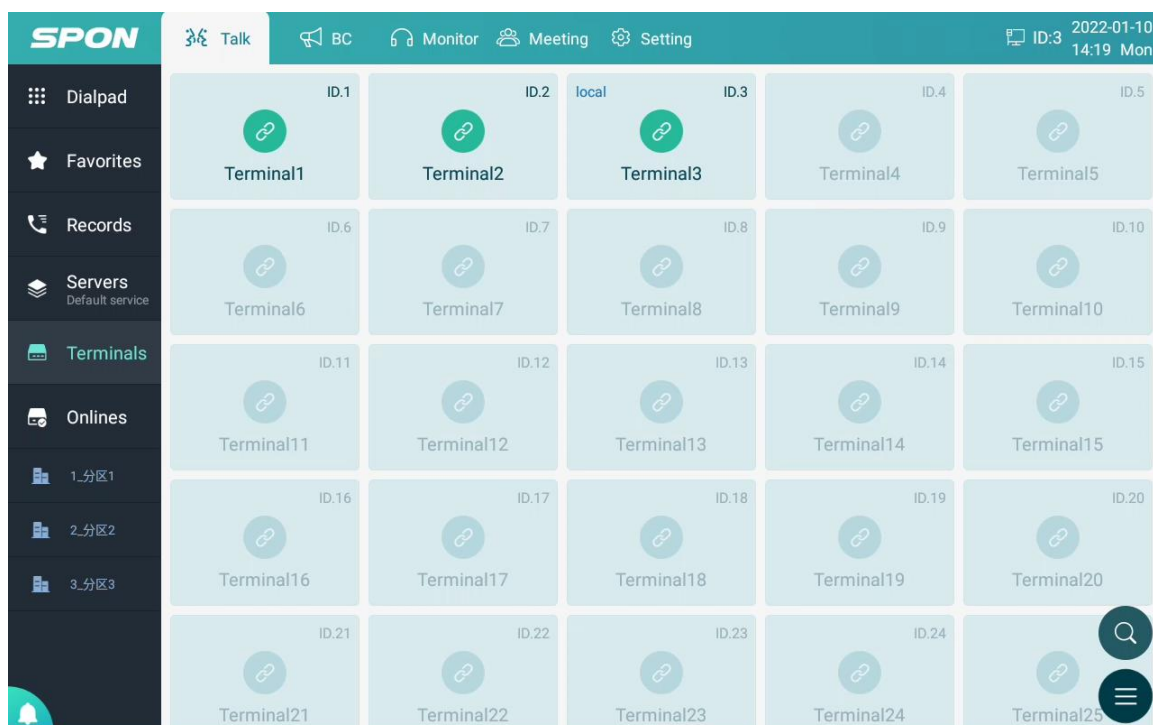


## Wiring













## Interface Description

The main interface have the function of Talk, Broadcast , Monitor, Conference and Settings. Users can click it to navigate to corresponding function module. In addition , users can check terminal zone information , status of terminals, status of pre-set tasks.



### Main status icons:

Items	Icon	Terminal status
Network status (icon in upper right corner)		Terminal online
		Terminal offline

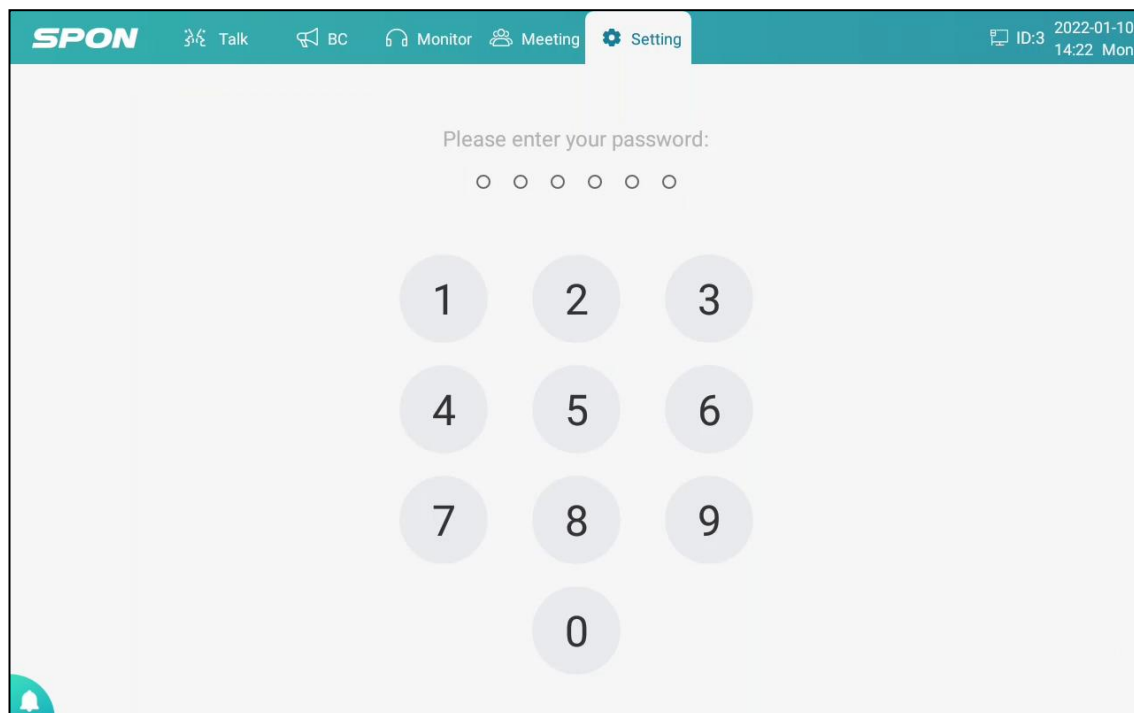
		The network is disconnected. Please check whether the cable is plugged in properly.
Terminal list Status icons		Terminal is online and idle
		Terminal is in intercom
		Terminal is in broadcasting
		Terminal is in conference
		Terminal is in monitoring
		Terminal is offline
Meeting notification icon		New meeting notice

## Basic network settings

Connected IP network visualization control host and power on. Please revise the console parameters as per the live environment, there are below 2 methods:

### Touch screen operation

- (1) Select "Setting" option, then enter the password (the default is 123456) on the pop-up interface.(please remember the password and modify it periodically)



- (2) Set the device IP、default gateway、subnet mask and other parameters in [System Information],and click "save" after setting .

Category	Parameter	Value
System info	IP set mode	static
	Device IP	192.168.4.24
Network	Default gateway	192.168.4.1
	Subnet mask	255.255.255.0
System tool	DNS1	192.168.4.1
	DNS2	114.114.114.114
System info	MAC address	F4:15:35:02:13:C0
	System version	20211115
System info	Soft version	V1.0.0_20211115[Ctm_HS_EN]

(3) Set device ID 、 server IP、 port parameters , and click “save”after setting.

**Note: the device ID No and IP address can't be same with other terminals.**

Category	Parameter	Value
System info	Device id	3
	Device SIP port	5060
Network	SIP server ip	192.168.4.101
	SIP server port	5060
System tool	SIP server http port	80
	Input gain param	3
System info	Talk AEC param 1	20
	Talk AEC param 2	20
	Talk AEC param 3	100

(4) After modify and save the parameters , restart the device to take effect .

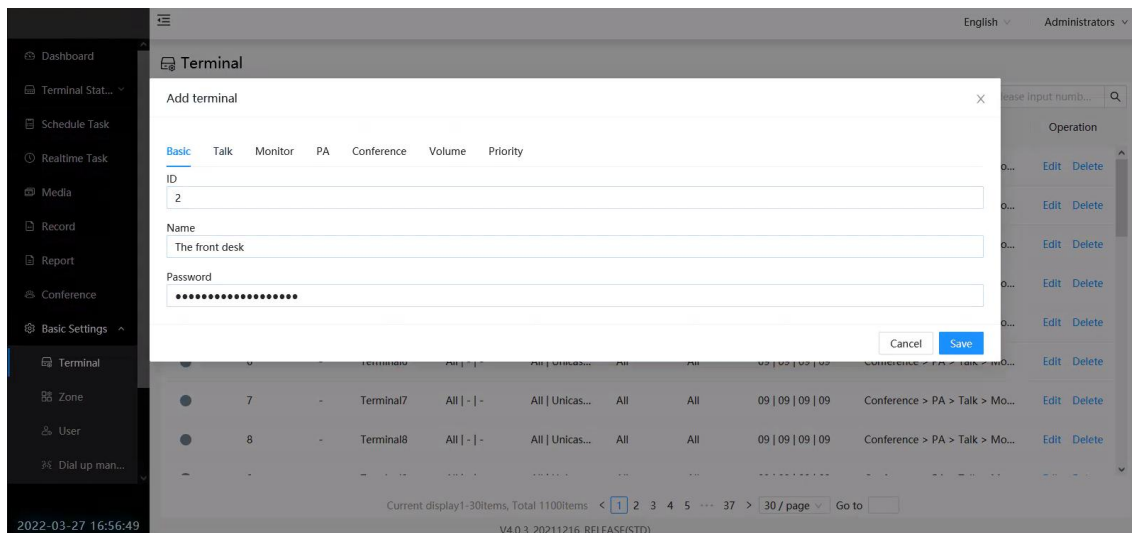
### Web page mode

Enter into the IP network visualization control host web interface, then modify the parameters according to the environment, after setting completed, click “save”.

Please refer to the custom terminal network parameters setting for detailed operation .

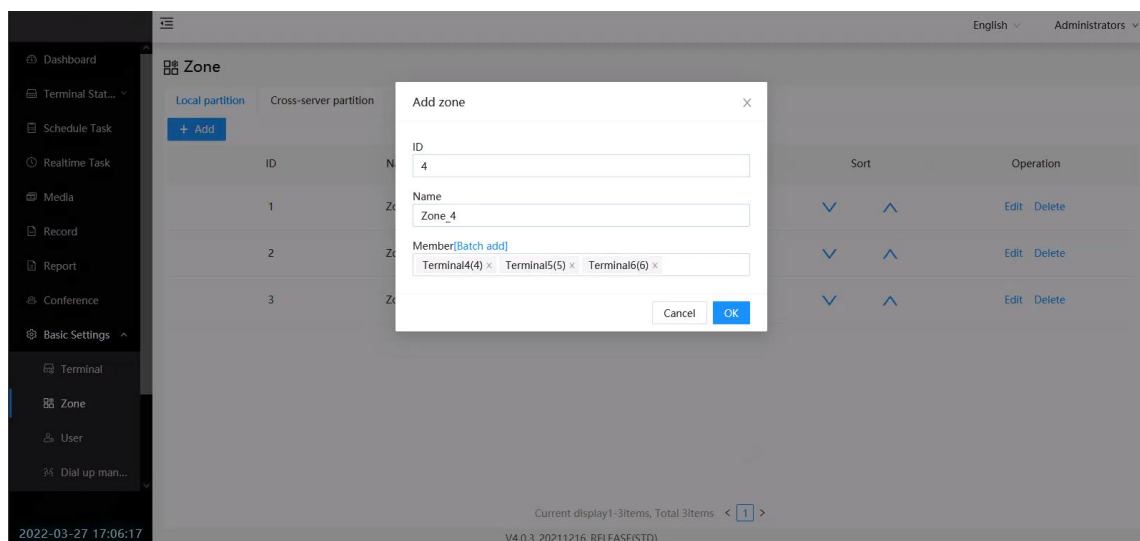
### Terminal list settings

In [Basic settings]-[Terminal management] of the server ,you can customize the name of each terminal and other information as required, please refer to the server software operation manual for details.



## Zone list settings

In [Basic settings]-[Zone management] of the server ,you can customize the name and member of each zone, please refer to the server software operation manual for details.



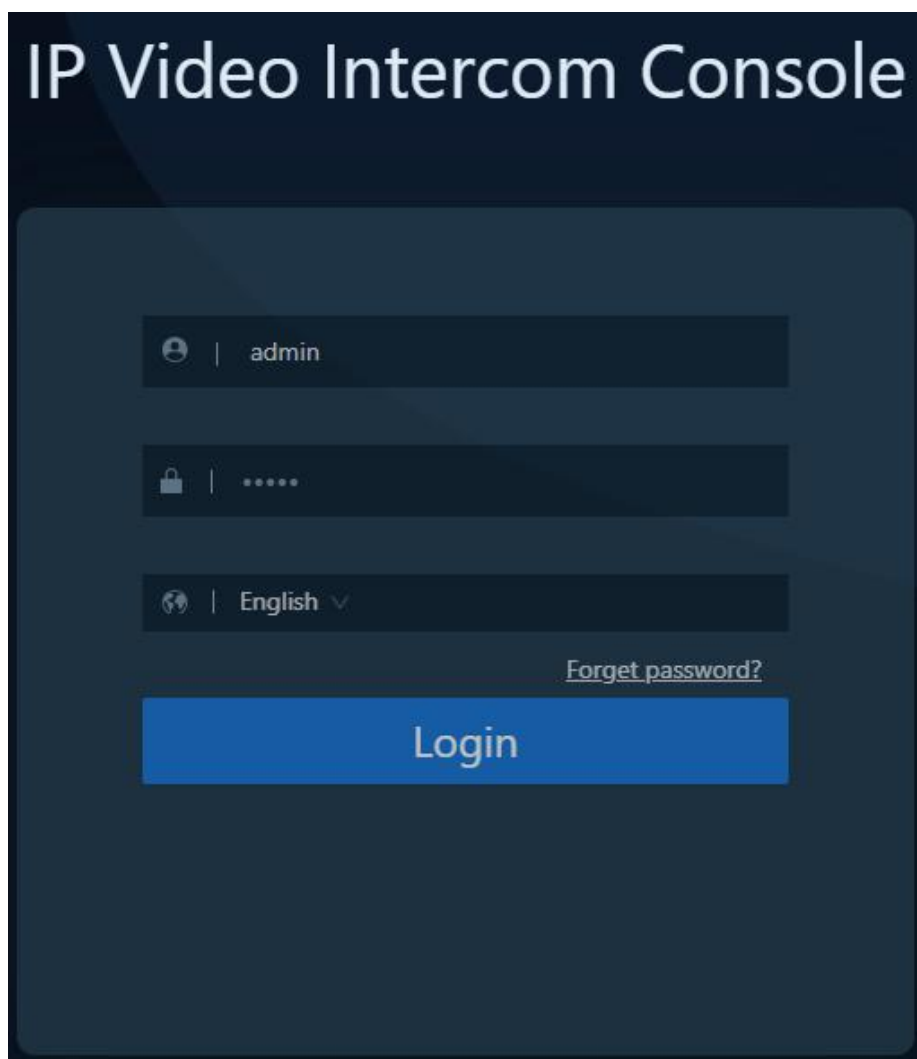
## User-define terminal parameters

### Login web page

(1) Please input the IP network visualization control host IP address to the browser address bar (the factory default IP address is 192.168.1.101), then enter.



(2) Enter the username and password, the default username and password are both "admin".



(3) After pressing login, you can enter the web page of the IP network visualization control host. (Note: The screenshots in this document are for reference only, please refer to the actual interface for details.)

## Basic Settings

### Running Status

Shown device ID, MAC address, device IP, subnet mask, default gateway, server IP, and other information.

The screenshot shows the 'Running Status' page in the IP Video Intercom Console. The left sidebar contains navigation options: Basic Settings, Running Status (selected), Device Params, Server Params, Talk Params, Broadcast Params, Monitor Params, Conference Para..., System Params, Audio Process, Terminal Settings, Resource Management, and Advanced Settings. The main content area shows the following parameters:

Device ID	MAC Address	
2	F4:15:35:05:DF:49	
Device IP	Subnet Mask	Default Gateway
192.168.4.26	255.255.255.0	192.168.4.1
Primary DNS	Secondary DNS	
192.168.1.1	114.114.114.114	
SIP Server	Standby SIP Server	
192.168.4.101	192.168.1.14	

### Device Params

Set the network parameters of the device. Please modify each parameter in the network parameters according to the environment where the terminal is located, and click [Save] when finished.

The screenshot shows the 'Device Params' page in the IP Video Intercom Console. The left sidebar is the same as the previous screenshot. The main content area shows the following parameters:

IP Set Mode		
Static		
Device IP	Subnet Mask	Default Gateway
192.168.4.26	255.255.255.0	192.168.4.1
Primary DNS	Secondary DNS	Host Name
192.168.1.1	114.114.114.114	android-b5e7982ead2cd591

A green 'Save' button is located in the top right corner of the main content area.

The relevant settings of the device parameters are as follows:

IP Set mode	Supports static or dynamic IP address assignment. Static IP: Default static IP ,user-defined IP address and other information Dynamic IP: Assign IP address via DHCP
Device IP	The IP address of the device, the factory default IP is 192.168.1.101, which cannot be repeated with other terminals.
Subnet Mask	Mask of the subnet where the terminal is located
Default Gateway	Gateway of the network where the terminal is located
Primary DNS, Secondary DNS	The IP of the domain name resolver of the network where the terminal is located

Host Name

User can edit DHCP name and upload it to DHCP server.

## Server Params

Set the server-related parameters for terminal login, click [Save] after the modification is completed, and the parameter modification takes effect after rebooting the device.

The screenshot shows the 'Server Params' configuration page in the IP Video Intercom Console. The left sidebar contains navigation options: Basic Settings, Running Status, Device Params, Server Params (selected), Talk Params, Broadcast Params, Monitor Params, Conference Para..., System Params, Audio Process, Terminal Settings, Resource Management, and Advanced Settings. The main content area displays the following configuration fields:

- Device ID: 4
- Device Password: [masked]
- SIP Server: 192.168.4.101
- SIP Server Port: 5060
- Device SIP Port: 5060
- Standby SIP Server: 192.168.1.14
- Standby SIP Server Port: 5060
- SIP Protocol Mode: UDP
- Server HTTP Username: admin
- Server HTTP Password: [masked]
- Server HTTP Port: 80
- Server Proxy: Disable
- Face Recognition Server: 192.168.1.13
- Face Recognition Server Port: 85

A 'Save' button is located in the top right corner of the configuration area.

The relevant settings for the service parameters are as follows:

Device ID	The unique number that identifies the terminal. It can not be repeated with the terminal or other hosts. The factory default is 2.
Device Password	The password for the terminal to login to server is 1234 by default.
SIP Server, Sip Server Port	The preferred server address for IP video intercom paging console login, factory default is 192.168.1.13. Note: The default port is 5060, which should not be changed without special circumstances.
Standby SIP Server, Standby SIP Server Port	The standby server address for IP network visualization console login, factory default is 192.168.1.14. Note: The default port is 5060, which should not be changed without special circumstances.
SIP Protocol Mode	Support TCP and UDP.
Server HTTP Username	Default is admin.
Server HTTP Password	It is correspond with HTTP username, be used to obtain the list of the 9000.
Server HTTP Port	Default is 80.
Server Proxy	Set Whether to enable Server Proxy function. This function is used with the corresponding function on the SIP server to obtain the cross-server terminal list. After this function is enabled on both the terminal and the SIP server, the terminal pulls the terminal list through the proxy server interface of the local server. If the terminal is not enabled, the terminal directly retrieves the terminal list from the peer server.
Face Recognition Server	IP address or domain name of the matching face AI server. To use the online face recognition function, you must correctly configure the IP

Face Recognition	address (or domain name) and port of the face recognition server.
Server Port	

## Talk Params

Set the intercom parameters, click [Save] after the modification is completed, and the parameter modification will take effect after restarting the device.

The meanings of the parameters are as follows:

Intercom Interface	Set the intercom module on or off, and the default is enabled. There is no intercom function module in the main interface of the terminal after it is disabled.
Dial Plate, Favorites, Call Records	Set whether to display Favorites, Call Log, and Dialpad options in the intercom function. Factory default is enabled
Electronic Map, Scene Mode	It is used to display the electronic map and scene mode of the supporting server. After this function is enabled, the terminal intercom module view can be set to electronic map or scene mode. It is disabled by factory default..
Unlocking Verification	Reserved
Unlocking Password	Set the password for remote unlocking function. Can consist of uppercase letters, lowercase letters, and numbers. The password can contain a maximum of 10 characters.
Multi-Party Call	Set whether to turn on the multiparty call function, and when enabled, select multiparty call in the intercom, you can add other terminals to the intercom, and the multiparty call can support up to 5 parties.
Alarm Dismissed	Reserved
Call Barge-in	Reserved



Call Queuing	Reserved
Auto-answer	Set whether to enable the automatic answering function. After enabling , when there is an incoming call from terminal , it will automatically enter the intercom state after ringing.
Handset Control	When enabled ,the handset can be used to hang up the intercom and the handset can not be used to hang up the intercom when it is disabled . The factory default is enabled .
Video Mode	Reserved
Busy Line Screenshot	After this function is enabled, terminal can still receive calls from the front panel during intercom while displaying videos from the front panel every 1s. (The front panel also need support the busy line screenshot function.)
Video Backtracking	Reserved
Intercom Recording Output	After this function is enabled, the recording output function is enabled,the voice of both sides of intercom will be output.
Talk Input Device	When setting the intercom, the audio input channel, you can choose gooseneck microphone pole, built-in mic, line input. The factory default is gooseneck microphone pole input.
Talk Output Device	When setting the intercom, the audio output channel, you can choose the speaker, line output, the factory default is the speaker. <b>Note: "Auto" option setting is invalid.</b>
Talk Input Volume	Setting the input volume level for off-hook intercom.
Talk Output Volume	Setting the output volume level of offline intercom. <b>Note: The intercom input and output volume only takes effect in the offline state. When the device is online, the intercom input and output volume is controlled by the server.</b>

## Broadcast Params

Set the broadcast parameters, click [Save] after the modification is finished, and the parameter modification takes effect after rebooting the device.

The screenshot displays the 'Broadcast Params' configuration interface. The left sidebar contains navigation options: Basic Settings, Running Status, Device Params, Server Params, Talk Params, Broadcast Params (selected), Monitor Params, Conference Para..., System Params, Audio Process, Terminal Settings, Resource Management, and Advanced Settings. The main content area shows the following settings:

- Broadcasting Interface:** Enable (dropdown)
- Dial Plate:** Enable (dropdown)
- Favorites:** Enable (dropdown)
- Local Sound Reinforcement:** Disable (dropdown)
- Synchronous File Broadcasting:** Disable (dropdown)
- Broadcast Input Device:** Microphone Pole (dropdown)
- Broadcast Output Device:** Speaker (dropdown)
- Pre-Recording:** 10 input fields for Pre-Recording Name 1 through 10.
- Broadcast Input Volume:** Slider set to 9.
- Broadcast Output Volume:** Slider set to 11.

A green 'Save' button is located in the top right corner of the configuration area.

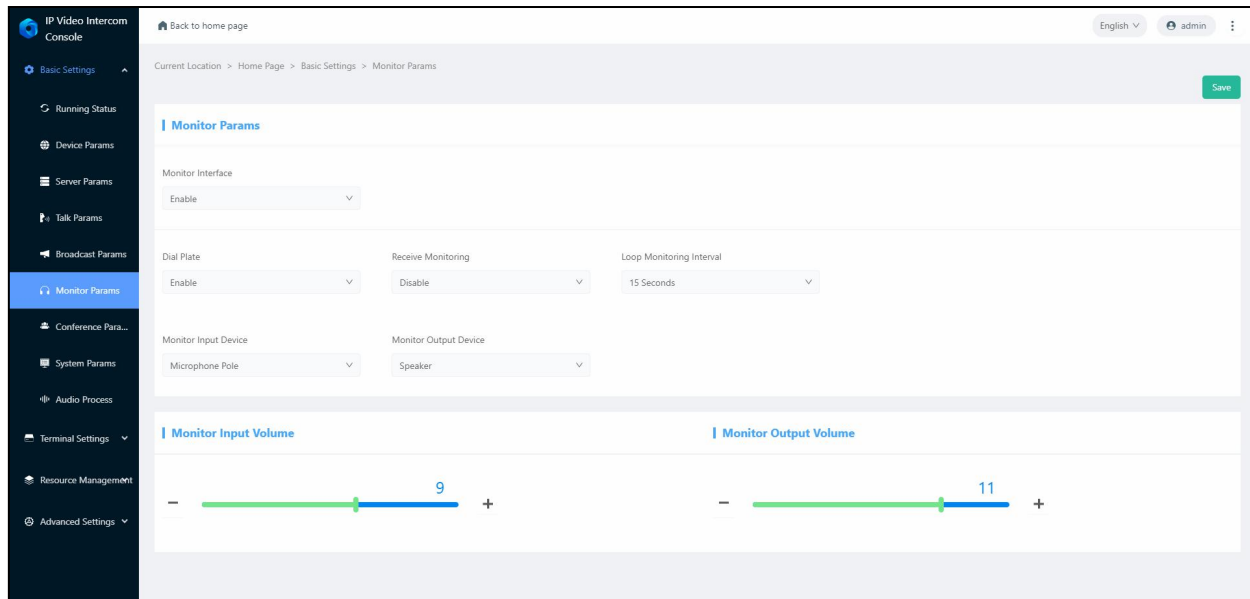
The meanings of the parameters are as follows:

Broadcasting Interface	Set the broadcast module to be enabled or disabled, and the default is enabled. No broadcast function module in the main interface of the terminal after disabling
Dial Plate, Favorites	Sets whether to display Dial Plate and Favorites options in the broadcast function. Factory default is enabled.
Local Sound Reinforcement	Specifies whether to enable the local sound reinforcement function. After the function is enabled, the local sound reinforcement function can be initiated in the broadcast module. It is disabled by factory default. <b>Note: After local sound reinforcement is initiated, the device goes offline and cannot receive server tasks. After local sound reinforcement is disabled, the device returns to normal.</b>
Synchronous File Broadcasting	After this function is enabled, the host outputs broadcast content synchronously when the terminal initiates broadcast. It is disabled by factory default.
Broadcast Input Device	When setting up the broadcast, the audio input channel, you can choose gooseneck microphone pole, built-in microphone, line input. The factory default is gooseneck microphone.
Broadcast Output Device	When setting broadcast, audio output channel, you can choose speaker, line output. The factory default is speaker.
Pre-Recording	Set the pre-record name in the broadcast audio source control, and support setting up to 10 channel recording names. <b>Note: Only pre-record name setting is supported here, please edit the</b>

		<b>pre-record content in "Source Selection" - "Pre-record" of the terminal broadcasting module.</b>
Broadcast volume	input	The broadcast input volume can be modified according to actual use.
Broadcast volume	output	The broadcast output volume can be modified according to actual use.

## Monitor Params

Set monitor parameters, click [Save] after the modification is finished, and the parameter modification will take effect after restarting the device.



The meanings of the parameters are as follows:

Monitor Interface	Set the monitor module to be enabled or disabled, the default is enabled. There is no monitor function module in the main interface of the terminal after it is disabled. <b>Note: The monitor module is enabled by default and only listens to devices in the allowed range of authority. If user privacy is involved, you can turn off this module.</b>
Dial Plate	Set whether to display the dialpad option in the monitor function, the default is enabled
Receive Monitoring	Choose enable , host can receive monitoring from other terminal ; Choose unable , host can't be monitored ; Default is unable.
Loop Monitoring Interval	When monitor to multiple terminals in a loop, set the listening interval for each terminal and skip to the next terminal at the set time.
Monitor Input Device	Set the audio source input channel when being monitored, you can choose goose-neck microphone pole, built-in microphone, line input. Factory default is goose-neck microphone
Monitor Output Device	When setting the monitor, the audio source output channel, you can choose the speaker, line output. The factory default is speaker.
Monitor Input Volume	Set the input volume when being monitored to.

Monitor	Output	Set the output volume level when monitor.
Volume		<b>Note: Monitor input and output volume is only effective in offline state.</b>

## Conference Params

Set conference parameters and click [Save]. After the modification is complete, the device automatically restarts. After the restart, the modification takes effect.

The meanings of the parameters are as follows:

Conference Interface	Enable or disable the conference module. The default value is enable. After the conference function is disabled, no conference module is displayed on the terminal screen.
Conference Face Recognition	After this function is enabled, participants' face information can be recognized during video conferences.
Meeting Select Ipc	After this function is enabled, the external camera bound to the device is selected as the video source by default during a video conference, and the picture of the external camera is displayed. If this parameter is disabled, the Settings in "Conference Video Input" prevail. The default value is disabled.
Sever Control Answer	After this function is enabled, the moderator receives the meeting invitation when the server run the meeting. The moderator can join the meeting or reject the meeting. If the meeting is disabled, the moderator enter the meeting automatically when the server run the meeting. The default value is disabled.
Conference Video Input	When setting a meeting, the device video input is the local camera by default. Local camera: During a video conference, the device displays the video of the local camera. USB camera: During video conferences, the device display the video from an external USB camera.
Conference Recording Output	This parameter specifies whether to enable the meeting recording output function. The default value is disabled.
Conference Audio	Set the audio input channel during conference , gooseneck mic、built-in mic 、line

Input	input can be chosen . Default is gooseneck mic
Conference Audio Output	Set the audio output channel during conference , speaker or line output can be chosen. Default is speaker output
Conference Input Volume	Set the Input volume during conference
Conference Output Volume	Set the output volume during conference
<b>Note: 3 channels of conference input and output parameters corresponding to the 3 conference scenarios in the conference , the first channel corresponding to the single-person scenario , the second channel corresponding to the conference scenario , and the third channel corresponding to the venue scenario.</b>	

## System Params

Set the system parameters, click [Save] after the modification is finished, and the parameter modification will take effect after rebooting the device.

Back to home page

Current Location > Home Page > Basic Settings > System Params

Save

### System Params

System Language Chinese(China)	Network Self Recovery Disable	Alarm Interface Disable	Timed Reboot Disable
Reboot Time 02:00	Offline Reboot Time Disable	Data Packet MTU 1500	Key Fixed Value 13
Emergency Call Disable	Alarm Mode Call And Report	Auto Refresh Interval Disable	Acoustic Expelling Disable
FEC Function Disable			
Auto Lock Screen Disable	Auto Lock Screen Time 30 Seconds	Screensaver Disable	Deep Protection Enable
Unlock Password(Enter 6 Digits When Modify) *****	Screen Display Brightness 40%	Screensaver Display Brightness 0	
Video Resolution 720P	Video Stream 1600	Video OSD Enable	Video OSD Location Lower Right
Video SDP Mode Enable	Video SDP CIF Support Disable	Camera Selection Local Camera	
RTP Transparent Switch Enable	Video Retransmission Enable	Video Frame Verification Disable	
Video Rate Control CBR	Video AVC mode Disable	Video AVC Level Level 1	
Mixer Disable	AEC Enable	AGC Disable	Voice Prompts Ringtone
Broadcast Tone Switch Enable			

**Ringtone Volume** 9

**Voice Broadcasting Volume** 2

The meanings of the parameters are as follows:

System Language	Support Chinese, English.
Network Self Recovery	After the function is enabled, the network can be automatically restored When the NIC becomes abnormal due to ESD or lightning surge.
Alarm Interface	Enable or disable the Alarm module. The default value is enable. After the Alarm Interface is disabled, no Alarm module is displayed on the terminal screen.
Timed Reboot,Reboot Time	Disabled by default, users can choose to automatically restart at a specified time (between 1:00 and 23:00)
Offline Reboot Time	Set whether enable offline restart ,default is disable. Offline for 10mins、 20mins、 30mins.....atuo restart can be set.
Data Packet MTU	Please set the appropriate MTU according to the communication efficiency and transmission delay.
Key Fixed Value	Use this tool with the IP terminal batch configuration tool,please do not easily modify.
Emergency Alarm mode	When disable,press the device physical red button to initiate an all-area broadcast. Alarm mode select call and report: press the device physical red button to call a pre-set target set on server and display on report location of server: "Emergency alarm 9 Closed". Alarm mode select report only: press the physical red button, the device does not make a call but displays "Emergency alarm 9 Closed" in the report of the server.
Auto Refresh Interval	Set the refreshing frequency of the terminal status list. Default is automatic.
Acoustic Expelling	Set whether to enable the acoustic expelling function. The function is disabled by factory default. When enabled, the "Voice Alarm" button will appear in the broadcast interface. After the user initiates the broadcast, the acoustic expelling function can be turned on in the acoustic drive control panel. Please find "Basic Functions - Broadcast - Voice Alarm" below for detailed operation.
FEC Function	When enable,the network packet loss is less than 15%, the device can talk to each other normally. In a poor network environment, it is recommended to enable the FEC function.
Auto LOCK Screen	Set whether to enable auto lock screen function. The default value is disable.
Auto LOCK Screen Time	After enabling the auto lock screen function, users can set the auto-lock time according to actual needs. The terminal will automatically lock the screen according to the set time when there is no operation. <b>Note: If the auto-lock time is set to "Disable" after the lock screen is enabled, the terminal only needs to be unlocked once when it is turned on.</b>
Screensaver	After the lock screen is enabled, users can set whether to turn on the screensaver according to their actual needs, The default is enabled. <b>Note: The screensaver picture can be customized, which can be set in "Resource Management" - "Screensaver Background" on the web page.</b>
Deep Protection	When enable , the terminal will automatically enter to set the screen brightness

	to the lowest when it is idle. Default is enable.
Unlock Password	If the screen lock function is enabled, you need to set an unlock password. The password is a 6-digit integer. The default password is 123456
Screen Display Brightness	Users can set the screen brightness based on the actual application environment (the default brightness is 40%, 0 is the darkest, and 100% is the brightest). It is recommended to increase the screen brightness in a strong light environment and decrease the screen brightness in a dim light environment.
Screensaver Display Brightness	Set the screen saver brightness. (Valid with screen saver enabled)
Video Encoding Format	Set local camera encoding format, you can choose VGA, 720P, 1080P
Video Stream	Set the local camera encoding code stream, please adjust the video code stream parameters according to the actual application.
Video OSD	After this function is enabled, the host ID and name are displayed in the video during intercom or video conference. Note: The OSD display contains a maximum of 15 characters.
Video OSD Location	The default location of the video OSD node is lower right. You can set the location to upper right, upper left, or lower left
Video SDP Mode	Set whether to enable the video automatic negotiation function.
Video SDP CIF Support	After the function is enabled, the lowest video format can be negotiated is CIF. If it is disabled, the lowest video format can be negotiated is the VGA format. The default value is disabled.
Camera Selection	Select the camera to be used. Local camera and USB camera are optional.
RTP Transparent Switch	Set whether to enable the conference IPC pull flow rtp transparent transmission function.
Video Retransmission	Sets whether to enable the video retransmission function. After this function is enabled, video data can be retransmitted when the network environment is poor and video data packets are lost.
Video Frame Verification	Set whether to enable video frame verification function.
Video Rate Control	"CQ", "CBR", "VBR" are optional.
Video AVC mode	Video encoding mode is optional.
Video AVC Level	Video encoding level is optional.
Mixer	Set whether to enable Mixer function.
AEC	Set whether to enable AEC function.
AGC	Set whether to enable AGC function.
Voice Prompts	Set the voice tone when initiating intercom, you can choose ring tone, voice announcement or none. The default is ring tone, if set to "None", there is no audio alert when initiating intercom.
Broadcast Tone Switch	Set whether to enable broadcast prompt tone function.
Ringtone Volume	When the voice prompt in Intercom Parameter is set to Ringtone, you can adjust the tone.
Voice Broadcasting	When the voice prompt in Intercom Parameter is set to Voice Broadcast, you

Volume	can adjust the voice broadcast volume.
--------	--

## Audio Process

Set the audio-related parameters, click [Save] after the modification is completed, and the parameter modification will take effect after rebooting the device.

The meanings of the parameters are as follows.

Echo Suppression	Set whether to enable echo suppression function. When enable it, it can suppress the echo in the intercom process.
Input Gain	Adjustable input volume, increasing the input volume exponentially by 1, 2, 3 and 4 times respectively.
Output Gain	Adjustable output volume, increasing the output volume exponentially by 1, 2, 3 and 4 times respectively.
Line Input Signal Amplification	When enabled, the input signal of the line can be amplified.
Echo cancellation parameters	Echo cancellation parameters can be adjusted according to the actual use.
Number of received cache packets	Set the number of received cache packets.



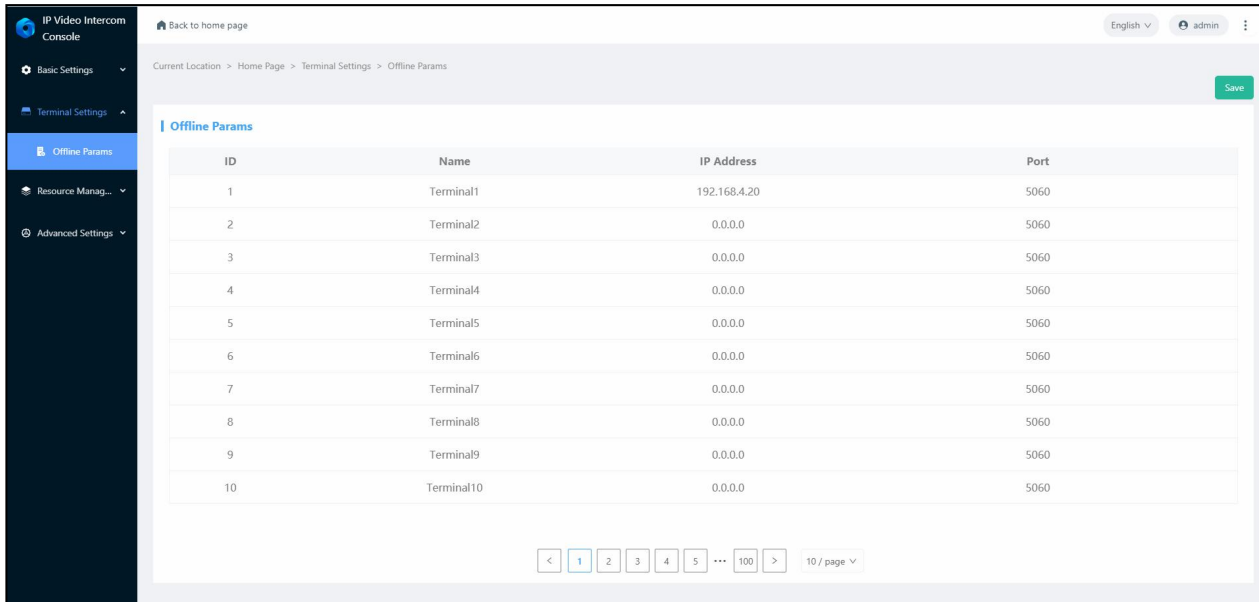
## Terminal Settings

### Offline Params

Configure the offline parameters so that the device can communicate when it is offline.

(1) Set the device name, IP address and port corresponding to the device ID in the offline parameters, and click "Save" after setting.

(2) When the server is offline, there are [Offline terminal] options in the intercom, broadcasting and listening interfaces. When the device is offline, click the terminal with offline parameters configured to initiate offline intercom, offline broadcasting or offline listening.



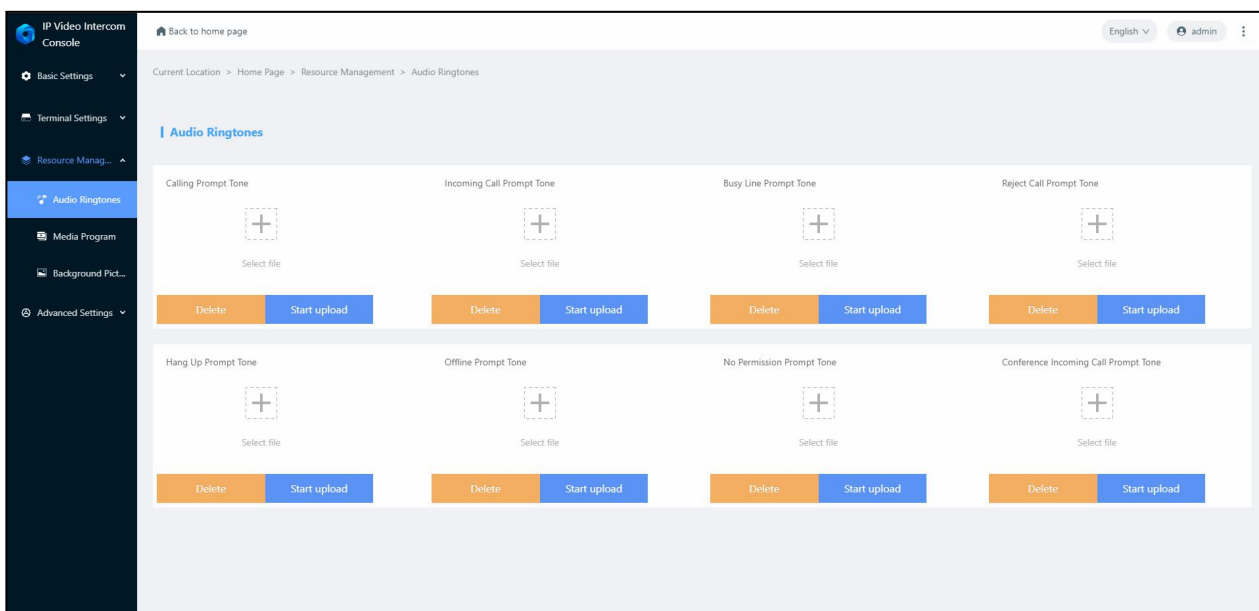
The screenshot shows the 'Offline Params' configuration page in the IP Video Intercom Console. The page has a sidebar with navigation options: Basic Settings, Terminal Settings, Resource Management, and Advanced Settings. The 'Terminal Settings' section is expanded, showing 'Offline Params'. The main content area displays a table with 10 rows, each representing a terminal configuration. The table has columns for ID, Name, IP Address, and Port. A 'Save' button is located in the top right corner. Below the table is a pagination control showing '10 / page'.

ID	Name	IP Address	Port
1	Terminal1	192.168.4.20	5060
2	Terminal2	0.0.0.0	5060
3	Terminal3	0.0.0.0	5060
4	Terminal4	0.0.0.0	5060
5	Terminal5	0.0.0.0	5060
6	Terminal6	0.0.0.0	5060
7	Terminal7	0.0.0.0	5060
8	Terminal8	0.0.0.0	5060
9	Terminal9	0.0.0.0	5060
10	Terminal10	0.0.0.0	5060

## Resource Management

### Audio Ringtones

Users can customize the alert tones for call, incoming call, busy, etc. according to their needs. Click "+Select File" to select the tone file you want to change for upload, and press "Start Upload" button to upload the tone. Note: Each tone must be in 8k WAV format.

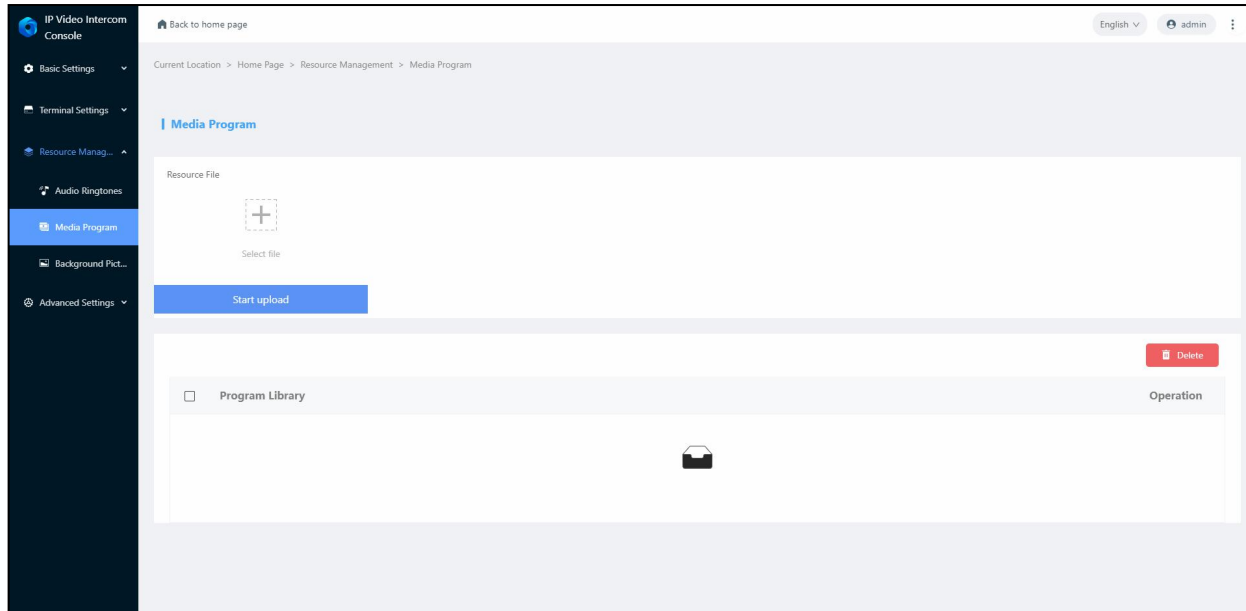


The screenshot shows the 'Audio Ringtones' configuration page in the IP Video Intercom Console. The page has a sidebar with navigation options: Basic Settings, Terminal Settings, Resource Management, and Advanced Settings. The 'Resource Management' section is expanded, showing 'Audio Ringtones'. The main content area displays eight audio tone configuration slots arranged in two rows of four. Each slot has a title, a 'Select file' button (represented by a plus icon in a dashed box), and 'Delete' and 'Start upload' buttons. The titles of the slots are: Calling Prompt Tone, Incoming Call Prompt Tone, Busy Line Prompt Tone, Reject Call Prompt Tone, Hang Up Prompt Tone, Offline Prompt Tone, No Permission Prompt Tone, and Conference Incoming Call Prompt Tone.

## Media Program

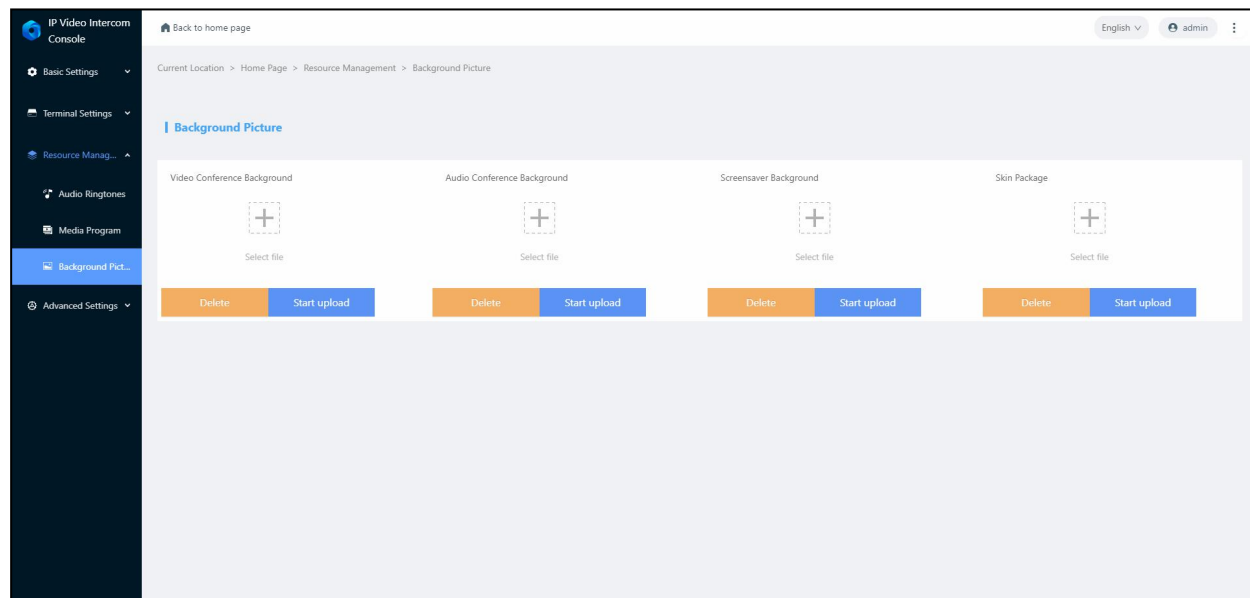
Users can upload WAV, MP3, and TXT files as broadcast audio sources. The size of a WAV file must be 22 KB, and a TXT file can contain a maximum of 20 characters (UTF-8 is recommended for text files). After the file operation succeeds, restart the device to take effect.

When launching a broadcast operation, click "Audio Source Control" to select the uploaded audio source file or text file (broadcasting the target area by converting the text in the TXT text into audio).



## Background Pictures

Users can customize the background of audio conference, video command and terminal screensaver, according to their requirements, click "Browse" to upload the pictures they need to change, click "Update" button to update the pictures. It will be effective after rebooting **Note: image format only supports JPG format.**



## Advanced Settings

### System Settings

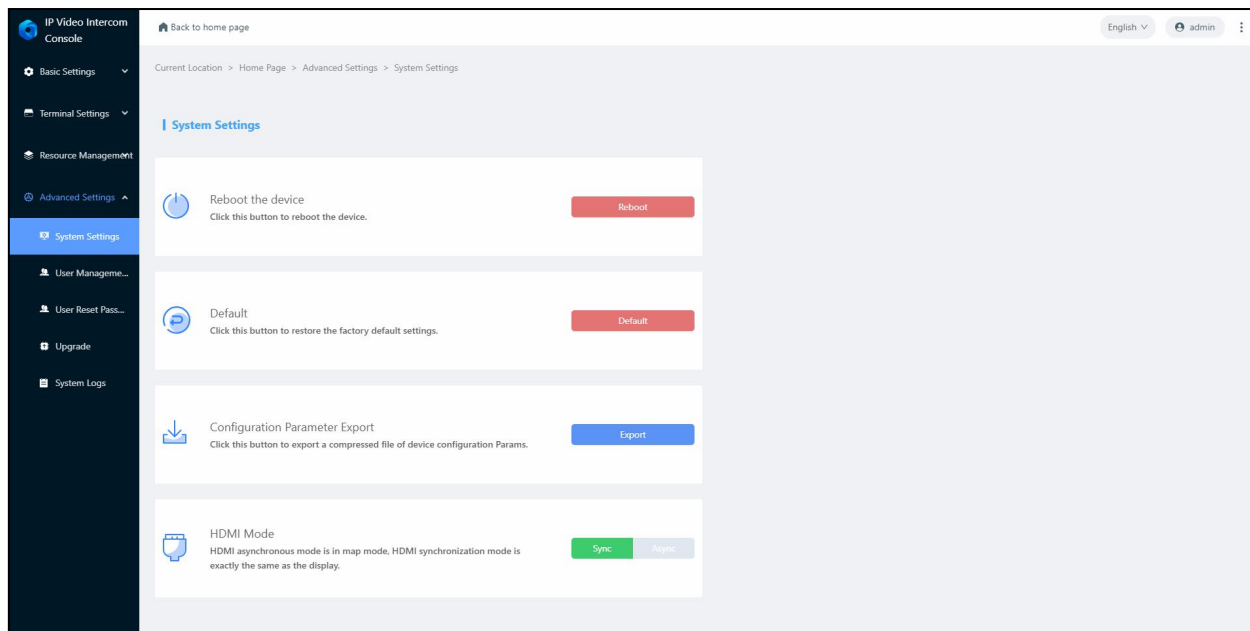
**Reboot:** Clicking this button will reboot the device.

**Restore to factory:** Clicking this button will restore all parameters of the device to the factory settings (please use with caution).

**Configuration Parameter Export:** Click this button to export the compressed file of device configuration parameters.

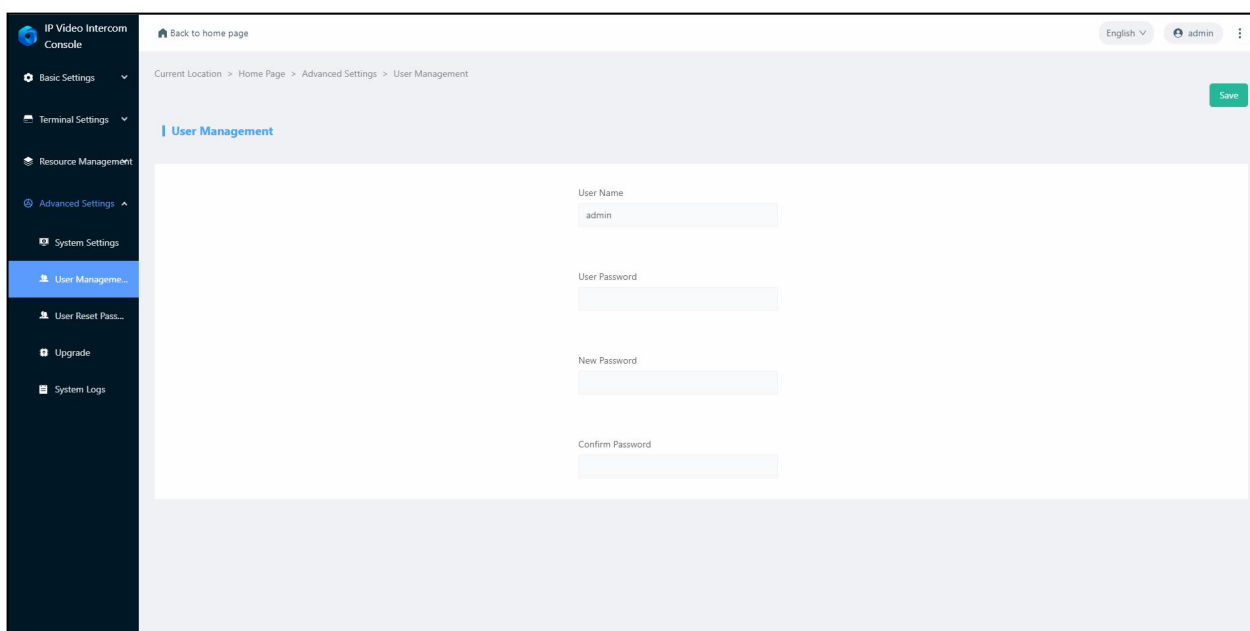
**HDMI Sync Mode:** Click this button to set the HDMI sync mode (the HDMI output is exactly the same as the display).

**HDMI Async Mode:** Click this button will set HDMI asynchronous mode (HDMI output to map or video mode).



### User Management

Can change the password for logging into the web page in User Management. After saving the password change, restart the web page to take effect. (Advised to change passwords periodically to ensure security)



## User Reset Password

The user reset password screen allows you to reset the login password if you forget the password. ( The reset password must contain at least 16 characters, including uppercase letters, lowercase letters, digits, and special characters.)

The screenshot shows the 'User Reset Password' page in the IP Video Intercom Console. The left sidebar contains a menu with options: Basic Settings, Terminal Settings, Resource Management, Advanced Settings, System Settings, User Management, User Reset Password (selected), Upgrade, and System Logs. The main content area has a breadcrumb trail: 'Back to home page' > 'Current Location > Home Page > Advanced Settings > User Reset Password'. The page title is 'User Reset Password'. There is a 'Save' button in the top right corner. The form contains four input fields: 'User Name' (with 'admin' entered), 'User Password', 'New Reset Password', and 'Confirm Reset Password'.

## Upgrade

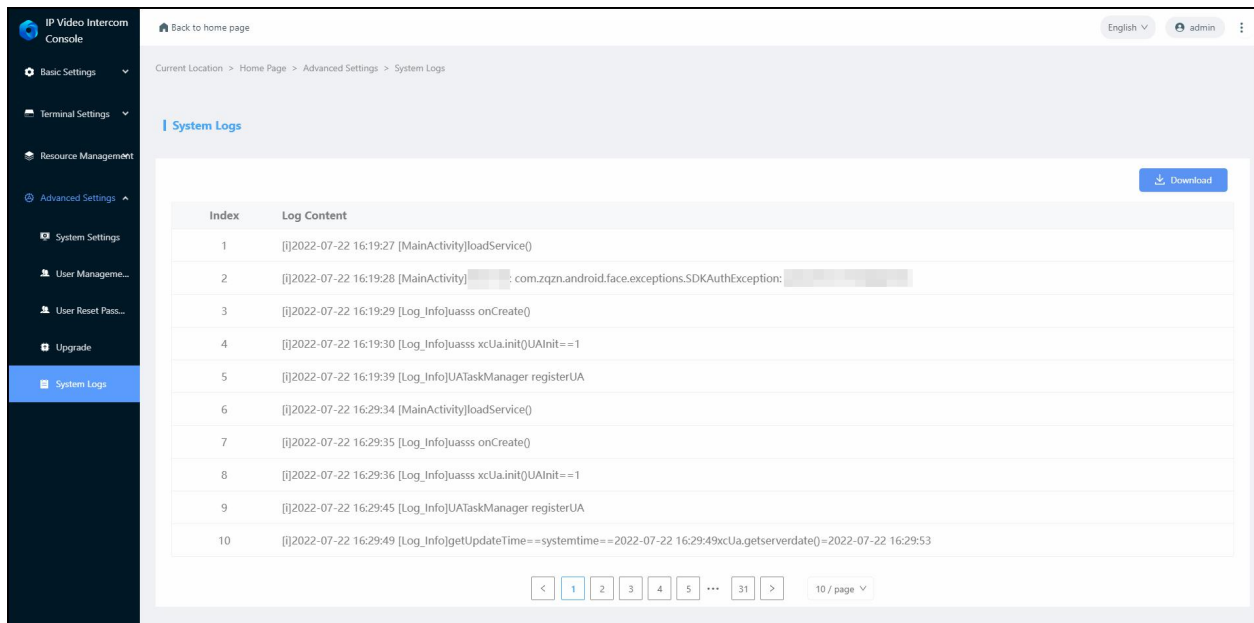
On the upgrade firmware page, click "+Select File", select the firmware upgrade file provided by the manufacturer, and click "Start Upload" button to start the upgrade.

**Note: Please do not power off during the upgrade process, otherwise it may lead to upgrade failure and device malfunction. The upgrade process is about 120s, and the device and web page will restart automatically after the upgrade is completed. (Do not upgrade the firmware unless you have special needs)**

The screenshot shows the 'Upgrade' page in the IP Video Intercom Console. The left sidebar is the same as in the previous screenshot, with 'Upgrade' selected. The main content area has a breadcrumb trail: 'Back to home page' > 'Current Location > Home Page > Advanced Settings > Upgrade'. The page title is 'Upgrade'. It displays 'Soft Version V1.2.2\_20221010[Std\_Z0\_2022]' and 'System Version nct\_zz\_20221010'. There is a 'Choose Firmware' section with a '+ Select file' button and a 'Start upload' button. Below this is a 'Touch Screen Upgrade' section, which also has a 'Choose Firmware' section with a '+ Select file' button and a 'Start upload' button.

## System Logs

IP network visualization control host can automatically record the operation process and generate logs, and support users to download system logs.



## Basic function

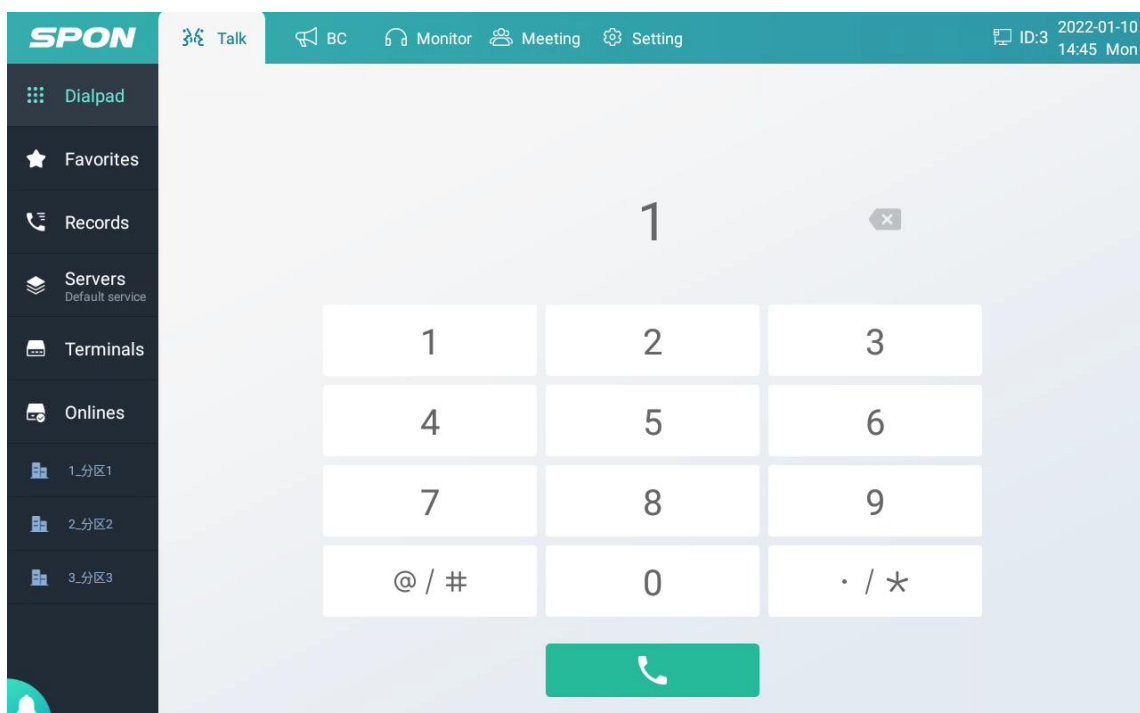
### Intercom

#### Initiate intercom

##### (1)Dial Intercom

Under intercom mode to choose "Dial" will pop-up the digital keyboard, enter the target ID No and click call button, it will call to the target terminal.

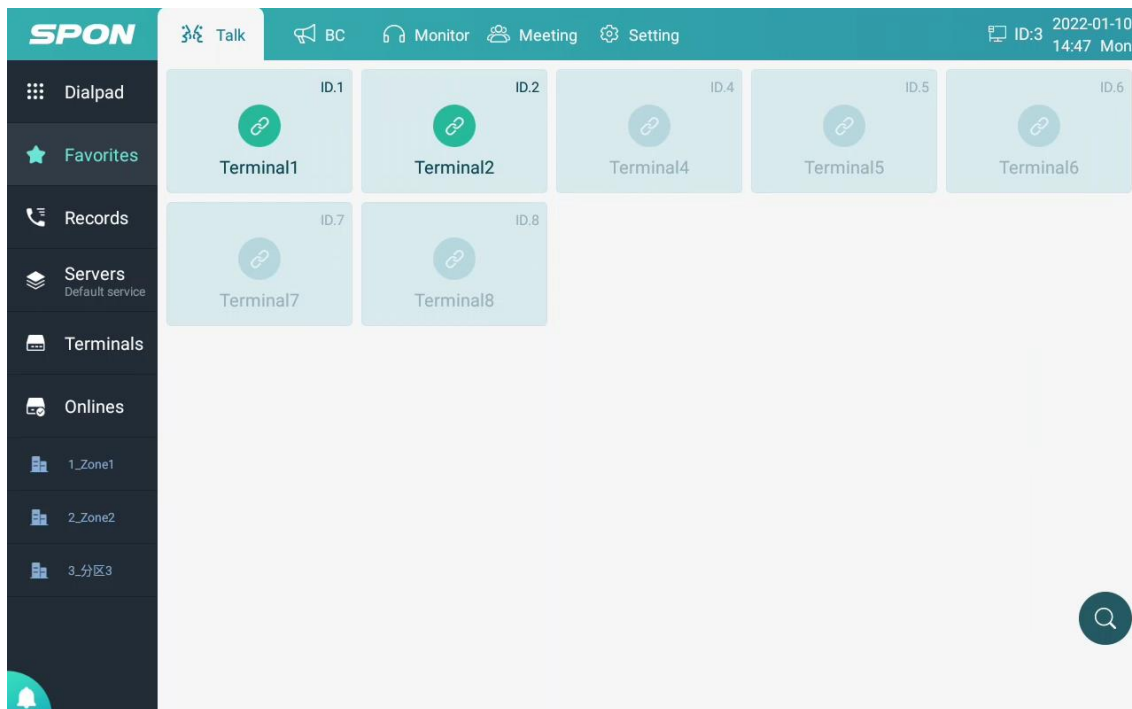
**(Note:The dialing mode supports calling to the panel. Enter the target terminal number # panel number and then press the call button to talk to the panel. For example, "1#7" means to call the panel 7 under the terminal 1.)**



## (2) Favorites

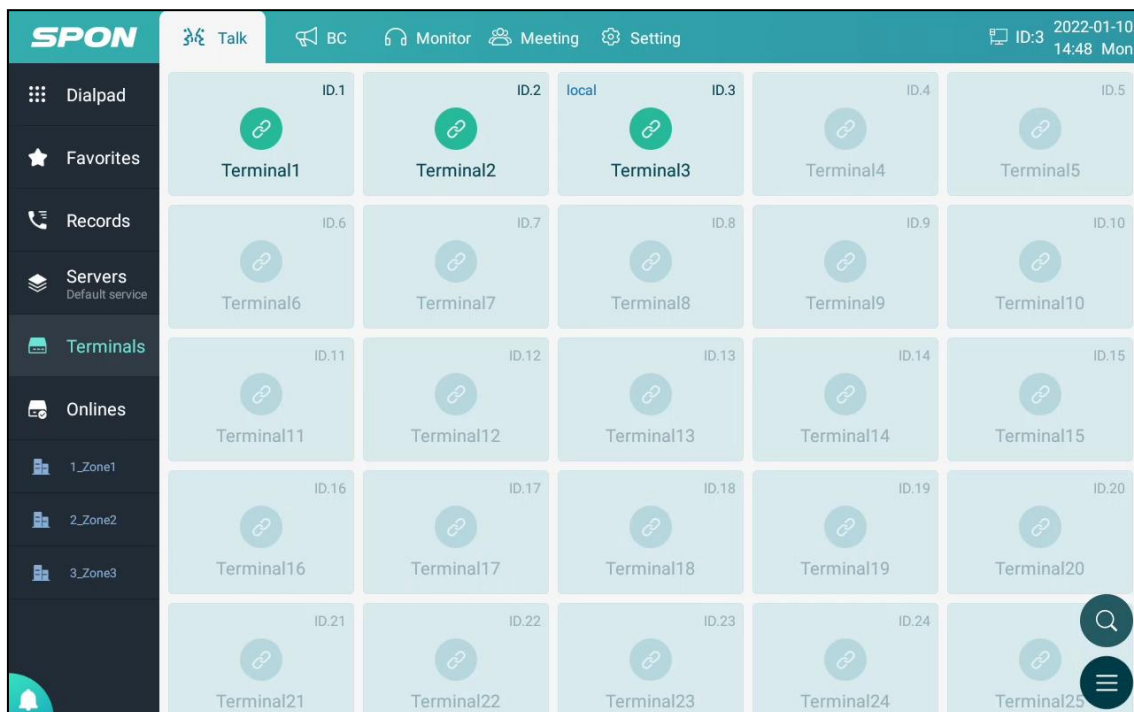
In the talk module, select "Favorites" and click the target terminal to initiate talk.

(Note: the terminal in the favorites is added in settings. Users can add some frequently called terminals to the favorites to realize convenient and quick call.)



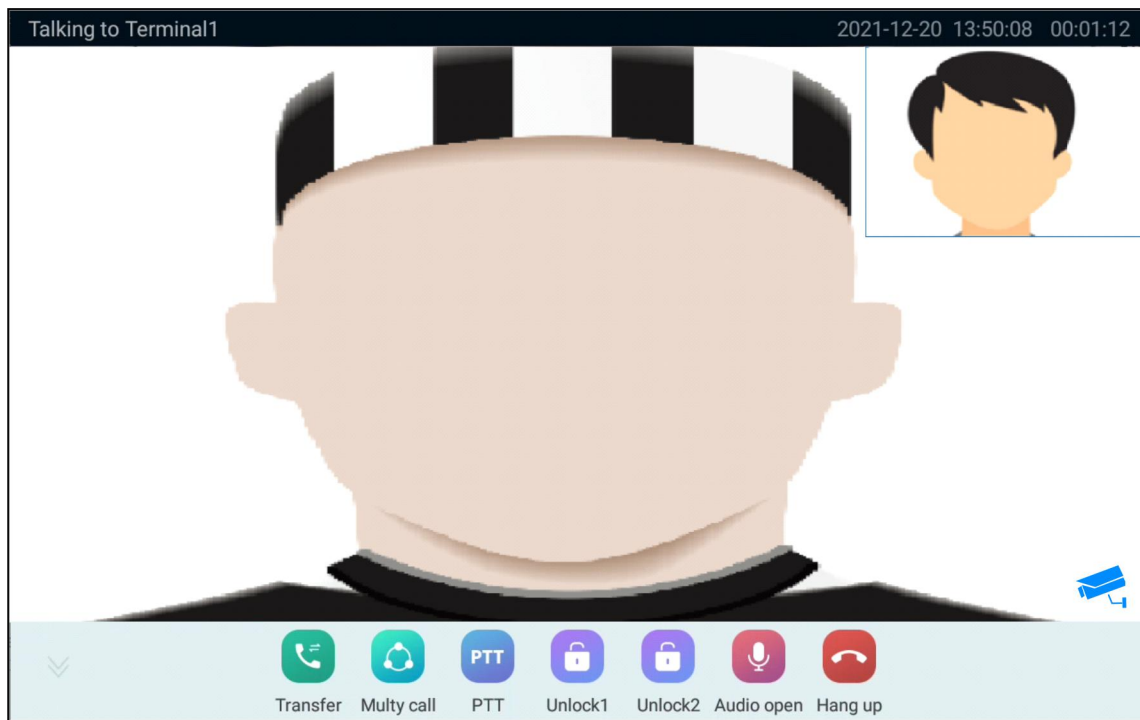
## (3) One-touch call

In the intercom module, select [All Terminals], [Online Terminals] or click on a specific partition, the terminal list will be displayed, and then click on the target terminal to initiate a call with one key.



When talking, two way visual talk will be realized if the terminal of other side carries a camera. In the process of talking, remote unlock, call transfer and PTT talk are also available.

(Note: During the talk, IP video intercom paging console by defaults is the microphone lever mode. If the handset is picked up during the talk, it automatically switches to the handset mode (the microphone lever input is invalid), and the user can use the handset mode for private conversation.)



### Close Audio

During the intercom, click [Close Audio] to turn off the microphone (ie microphone boom) audio. After the audio is turned off, the unit cannot speak. The opposite terminal will not be able to hear the audio of this terminal. Click [Open Audio] again to perform normal intercom.

### Remote unlock

Click [Remote Unlock] during the intercom, and the IP network visual control host can control the other party to open the electronic door lock.

In the locked screen state, if the IP network visual control host is called and enters the intercom state, click "Remote Unlock" during the intercom and enter the set unlock password to help the peer open the electronically controlled door lock.

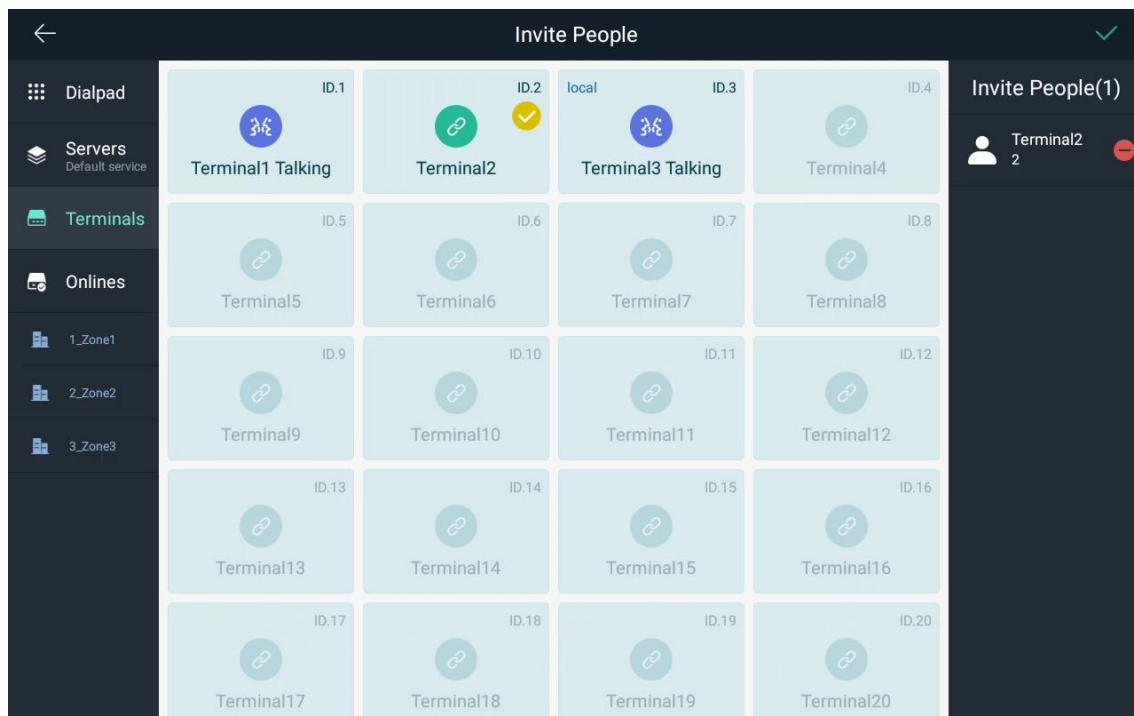
Note: The lock password must be set in Basic Settings - System Parameters - Lock Unlocking password on the IP Network Visual control host webpage. (Advised to change passwords periodically to ensure security)

### Display external video

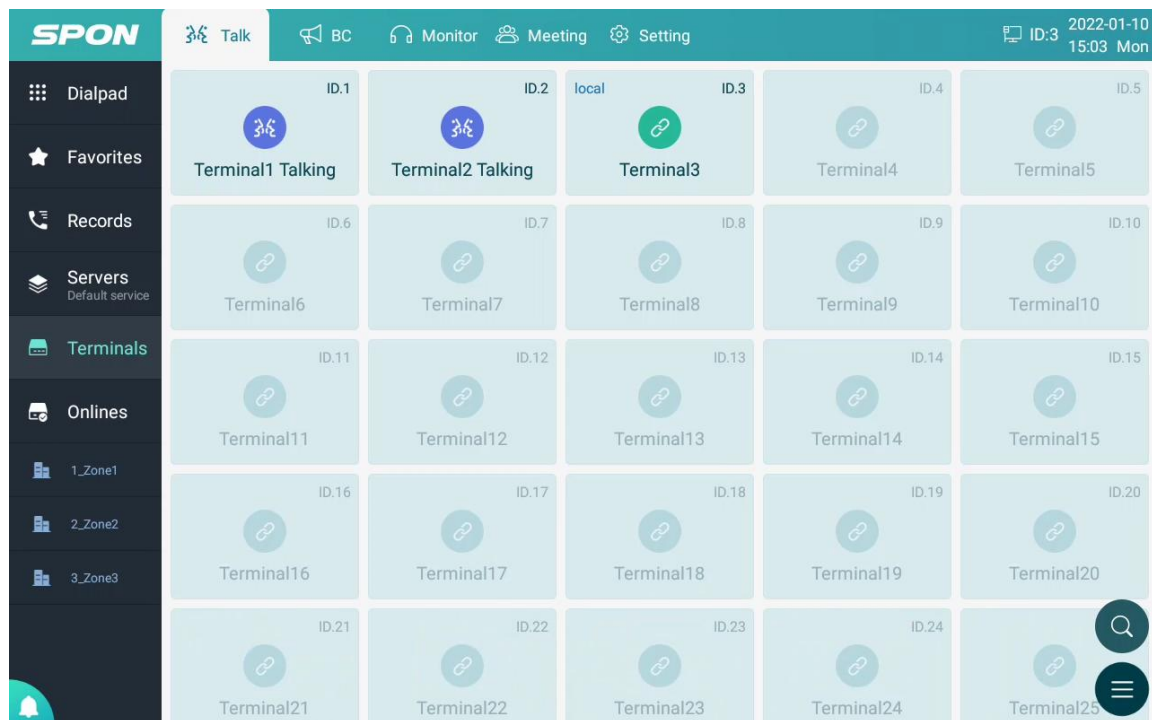
During the intercom, tap the camera icon in the lower right corner of the screen. The external camera video bound to the terminal is displayed in the upper left corner of the screen. **Note: This function must be bound to the external camera in terminal Management of the service software. ( For details, please see the user guide of the service software.)**

### Call transfer

(1) In the intercom process, select call forwarding, enter the ID number of the target terminal to be transferred, and then press the "√" button.




(2) IP network visualization control host will disconnect the intercom of the current terminal, and the call will be automatically transferred to the target terminal.

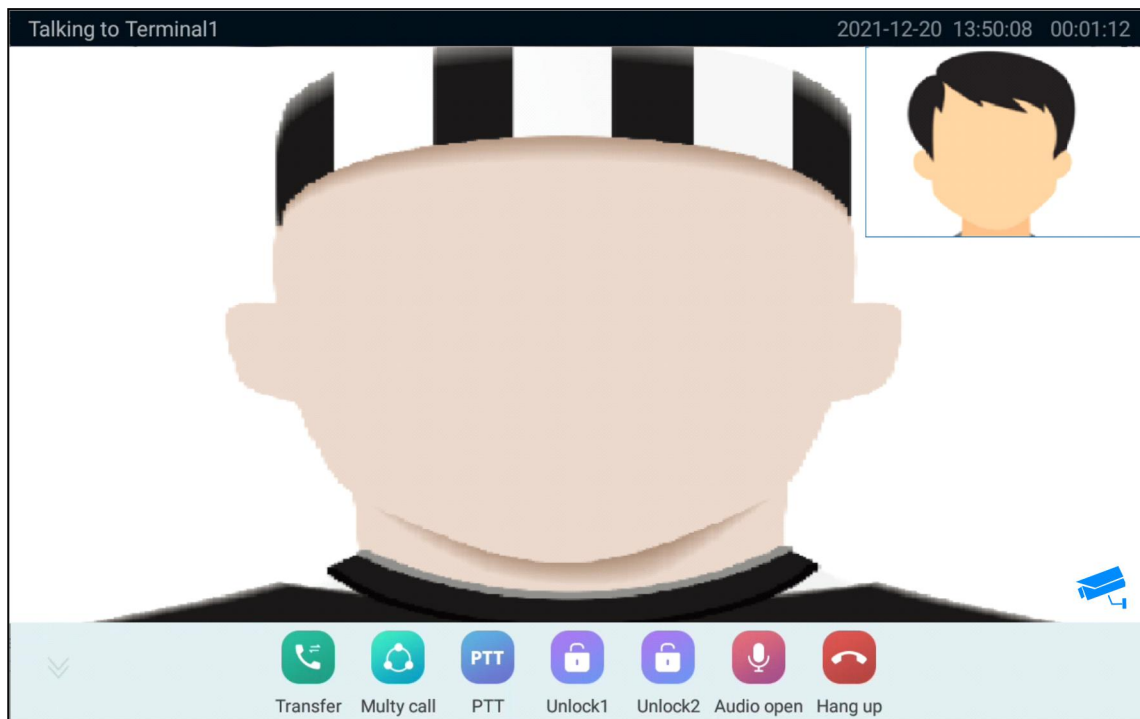





## Multi-Call

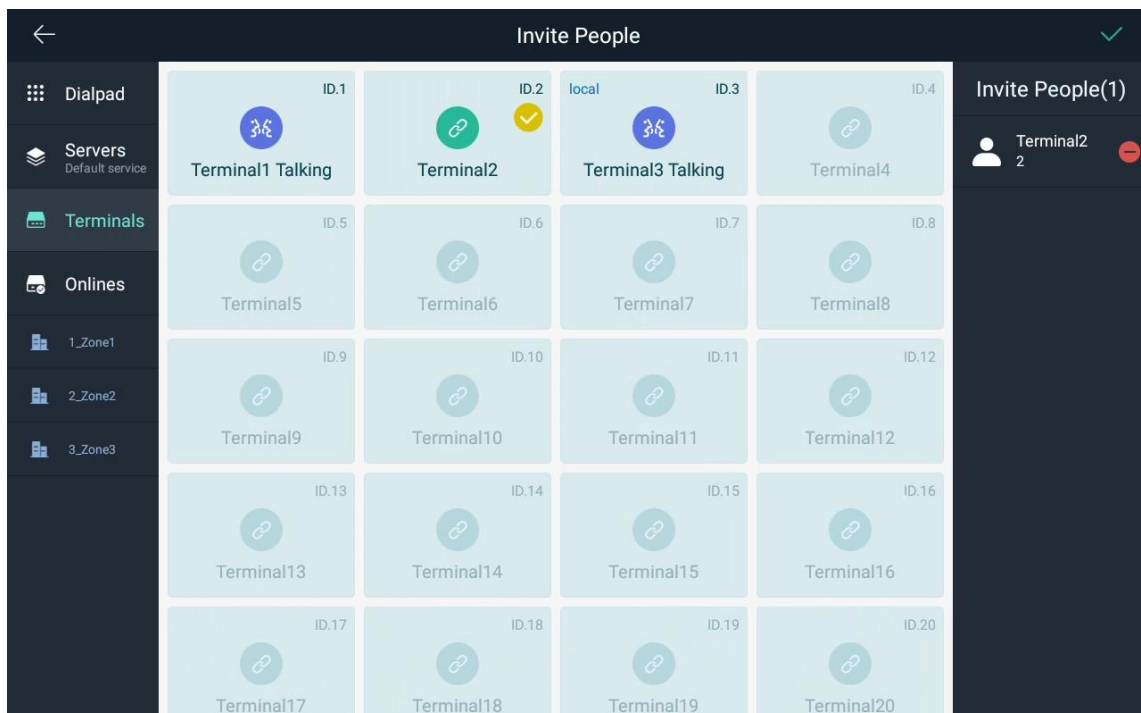
(1) Please enable the multi-party talk function in the web page " System Parameters " in advance.

(2) During the call, click the " Multi-call " button, enter the third-party ID number in the pop-up digital keypad, and press the dial button  to initiate the tripartite talk.

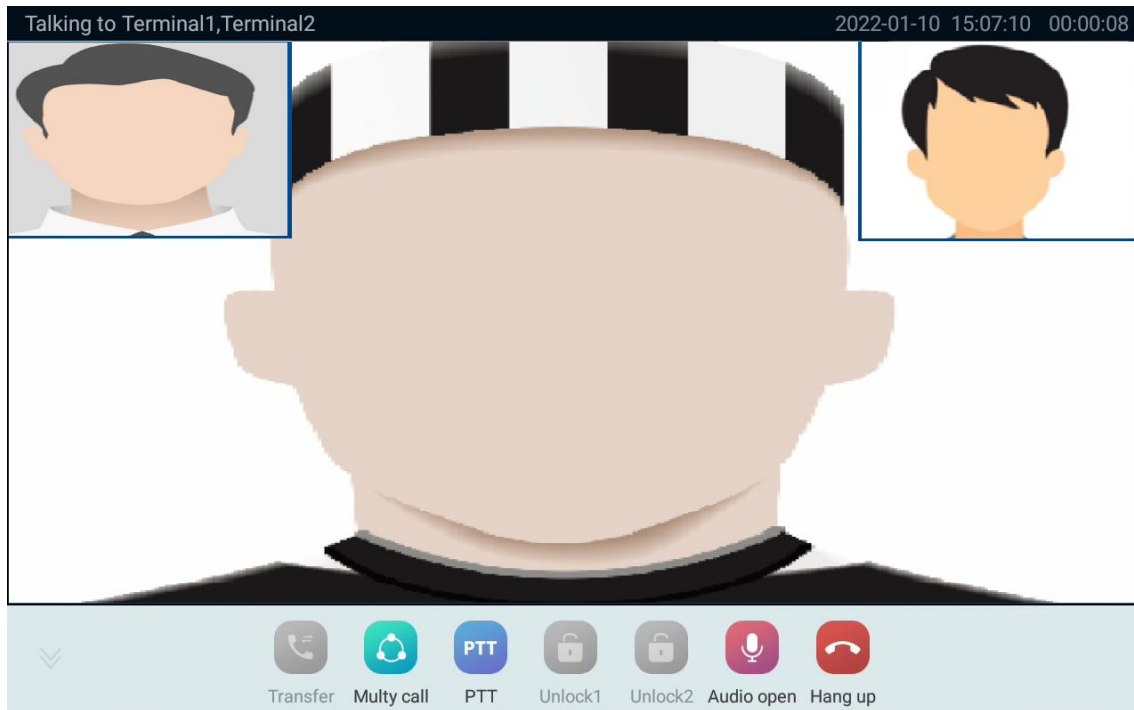


(3) Select the destination terminal to join the call and press in the upper right corner  to confirm.

**Note: A maximum of five terminals can make multi-party calls.**



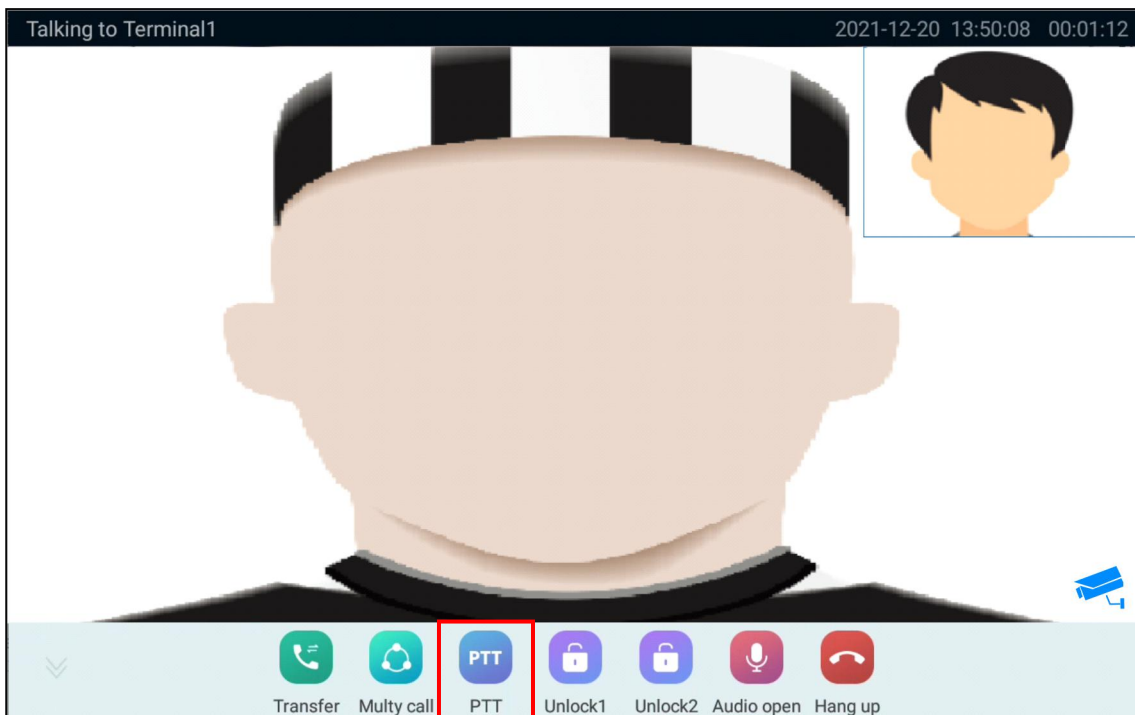
(4) After the other party is connected, a multi-party call is entered. During a multi-party call, the intercom terminals can clearly hear the voices of other parties. The termination of one party does not affect the call on the other terminal.



**Note:** If multi-party calls are used, the call transfer function is unavailable.

#### PTT talk

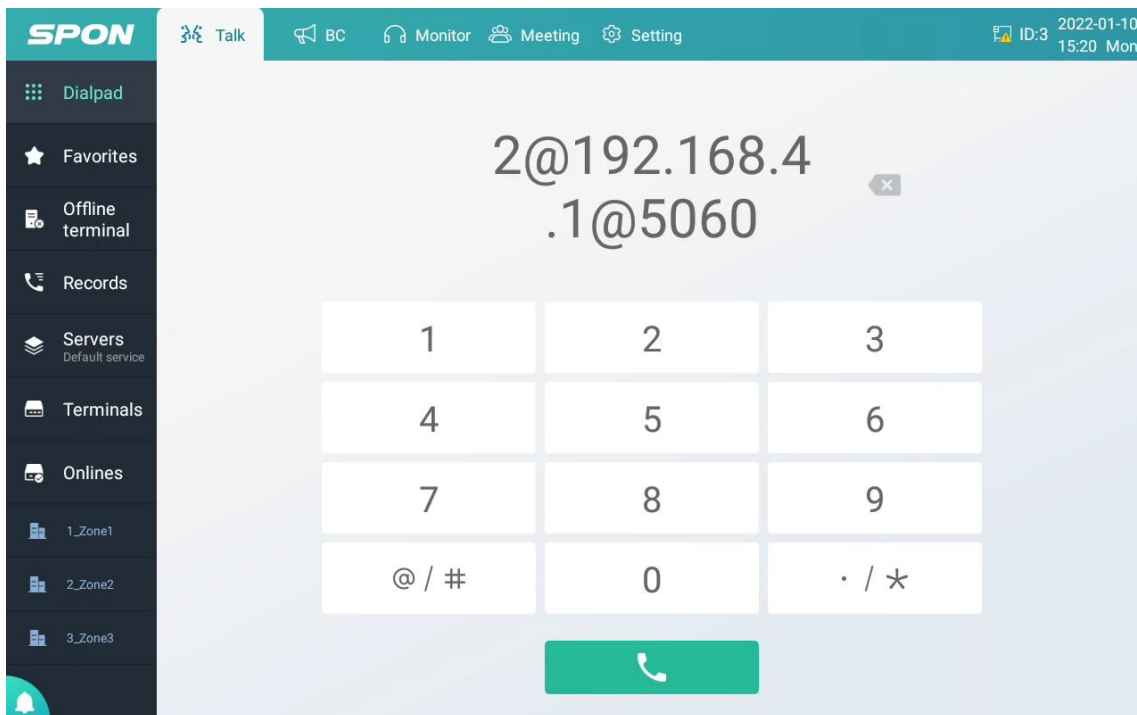
IP network visualization control host supports PTT talk. Press "PTT" button during talking, the MIC will be closed. The talking can be initiated by press and hold the PTT button, and release it to stop talking (only for listening).



## Offline talk

## (1) Dial offline talk

When terminal is offline, input the call target ID+@+IP+@+IP port on the dial pad, and then click the call button to make an offline call.



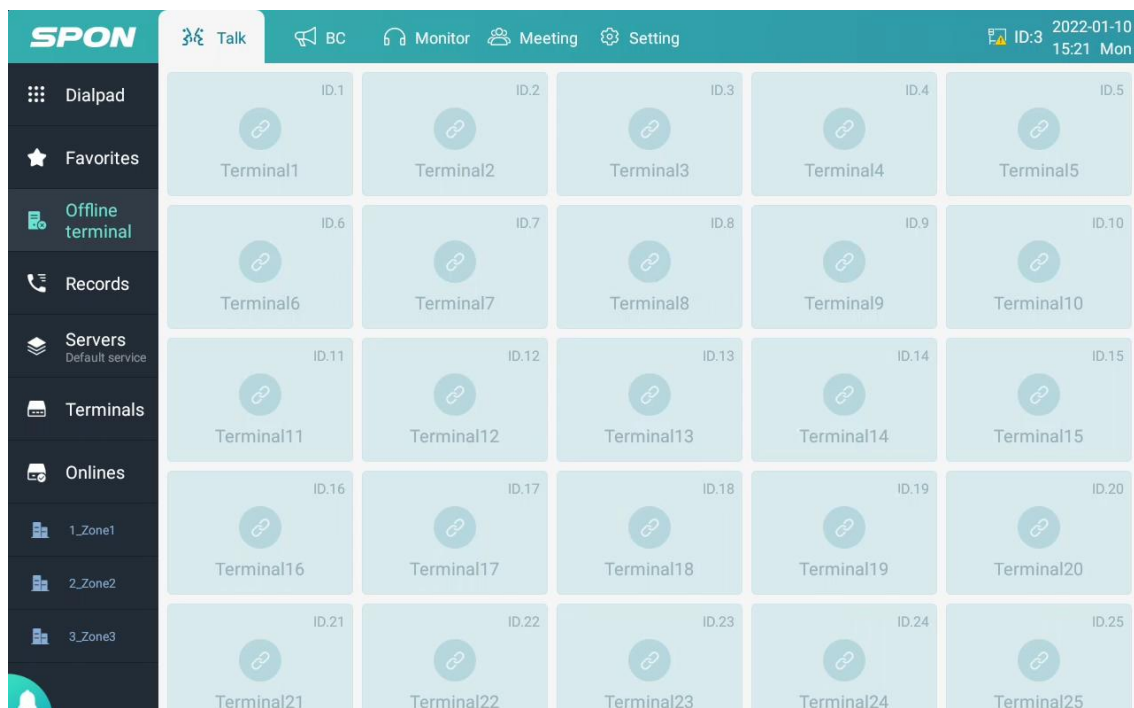
## (2) One-button offline intercom

Users can configure offline parameters through the webpage and enable the offline intercom function:

1) Configure offline parameters in "Terminal settings"-"Offline Parameters" on the terminal webpage.

2) When the server is offline, click [Offline Terminal], and then check the target configured with offline parameters to make a one-key call. After the other party answers, it will enter the intercom state.

**Note: If offline parameters are not configured, offline calls will not be possible, and the interface prompts "Call target IP is invalid".**




## Digital map/Scene mode

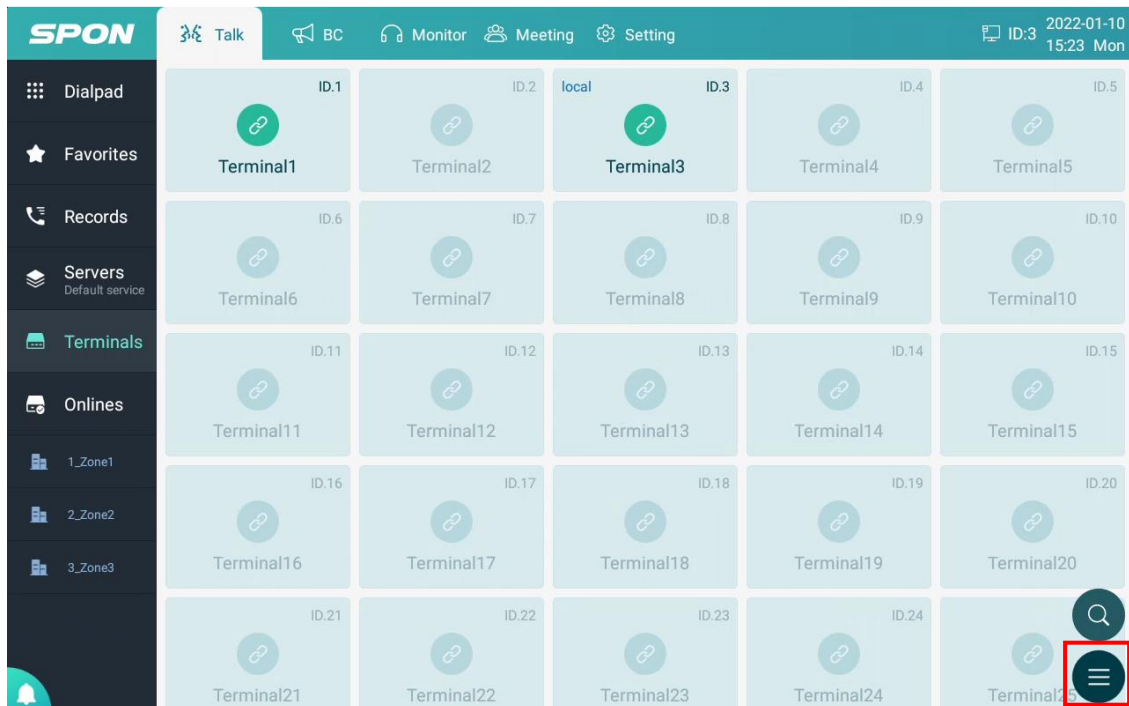
In the intercom module, the terminal list displays grid view by default, and users can switch to digital map or scene mode (that is, display the digital map and scene mode of the supporting server).

Note: Digital map and scene mode are the attachment modules of the service software. The service software can be displayed only after obtaining authorization.

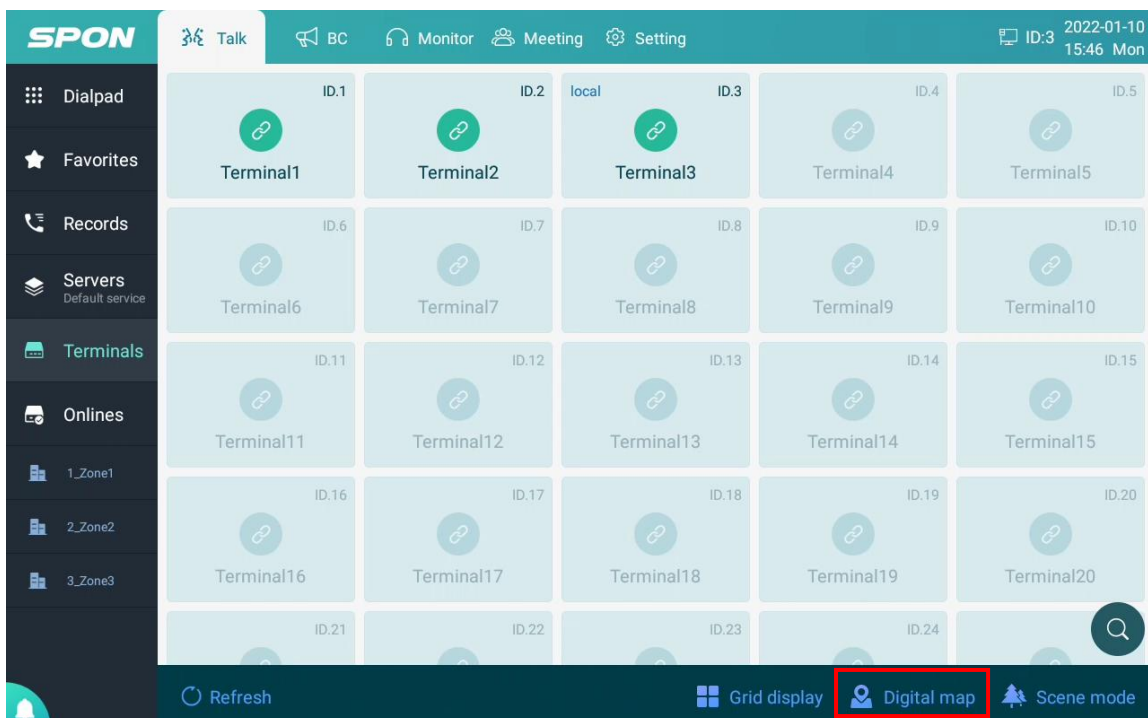
The method of opening the digital map and scene mode is as follows:

### Digital map:

- (1) Enable "Electronic map" in "Talk Parameters" on the Terminal Web page;
- (2) Select "Terminals" or "Onlines" in the intercom module, and click the icon at the bottom right of the screen  to expand the hidden menu.



- (3) Select "Digital Map" in the menu bar at the bottom of the screen to switch the view to electronic map mode.

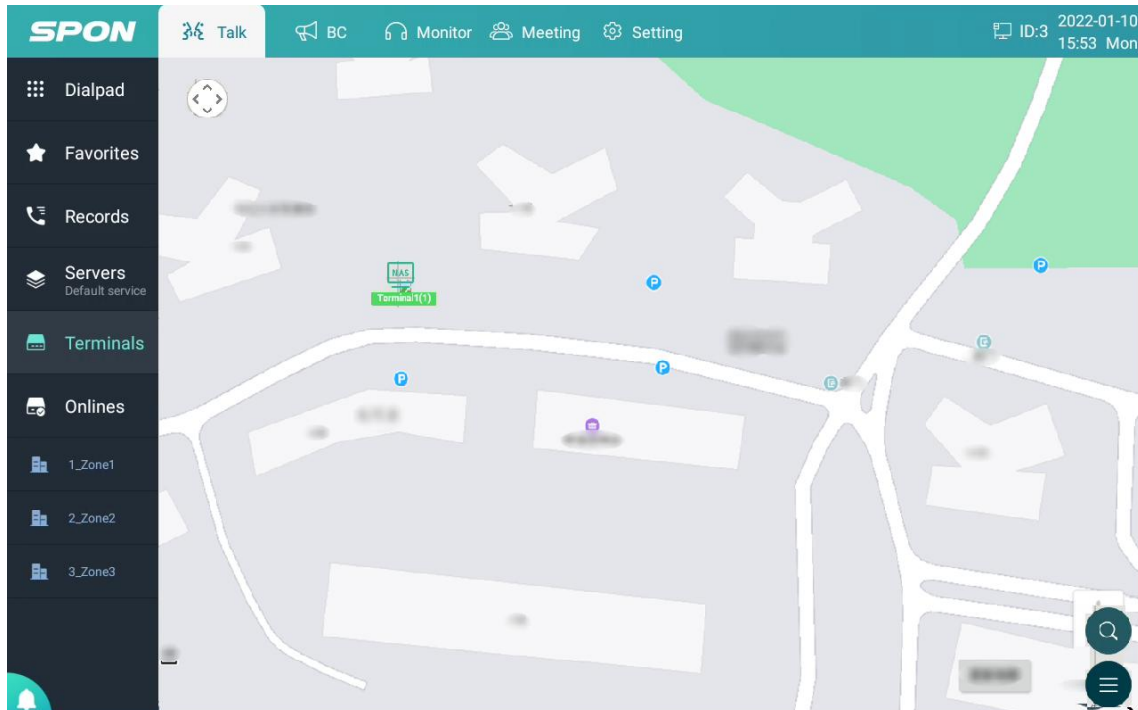


- (4) In the field electronic map mode, the geographical location of the terminal can be clearly seen. (Note: Terminal


punctuation on the map needs to be set in the service software. For detailed operations, see the user guide of the service software.)

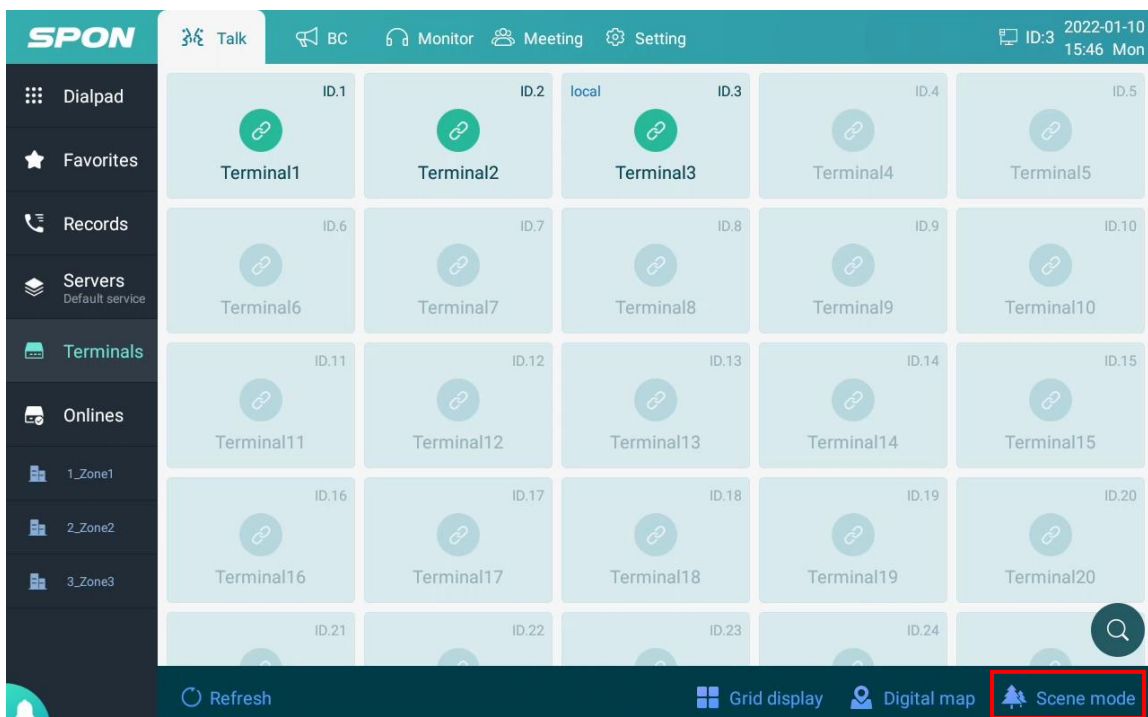
Click a terminal on the map to view the task status of the terminal. Press the Call button to initiate an intercom with one key.

Intercom in map mode, if the display is connected, the IP network visualization control host can realize the different screen display.



#### Scene mode:

- (1) Enable "scene mode" in "Talk Parameters" on the terminal Web page;
- (2) Select "Terminals" or "Onlines" in the intercom module, and click the icon at the bottom right of the screen  to expand the hidden menu. Then select Scene Mode on the menu bar at the bottom of the screen to switch the view to scene mode.

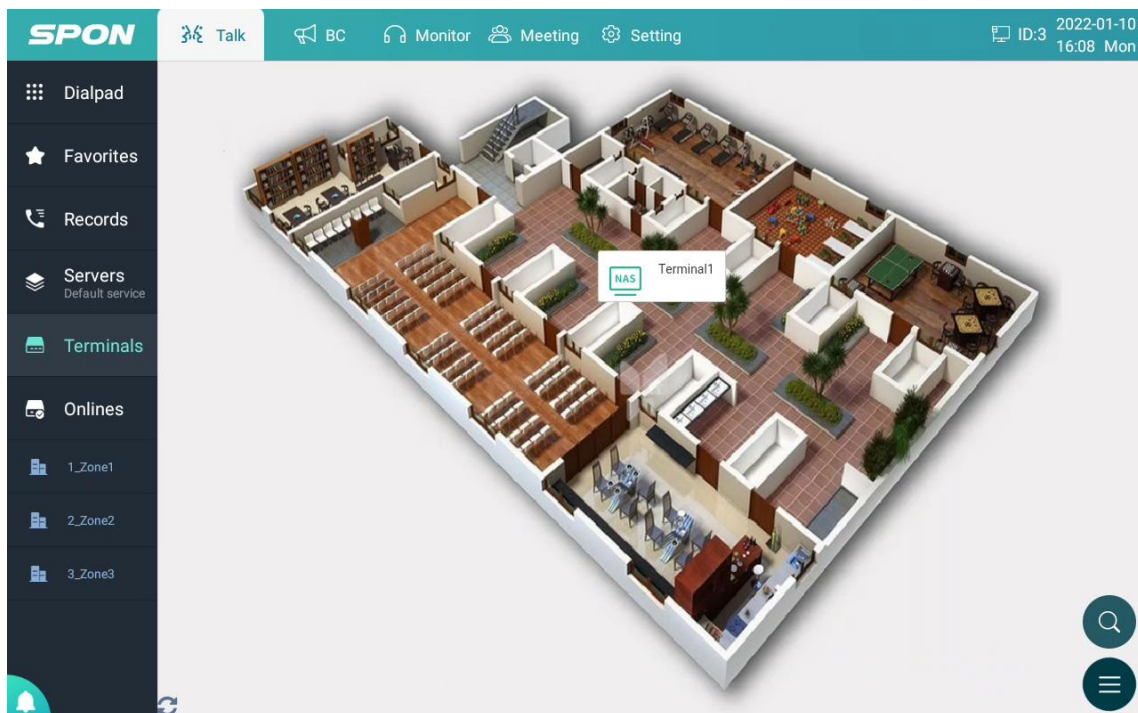


- (3) In Scene mode, the scene where the terminal is located can be clearly seen. (Note: Scene pictures and terminal



punctuation should be set in the service software. For details, see the user guide of the service software.)

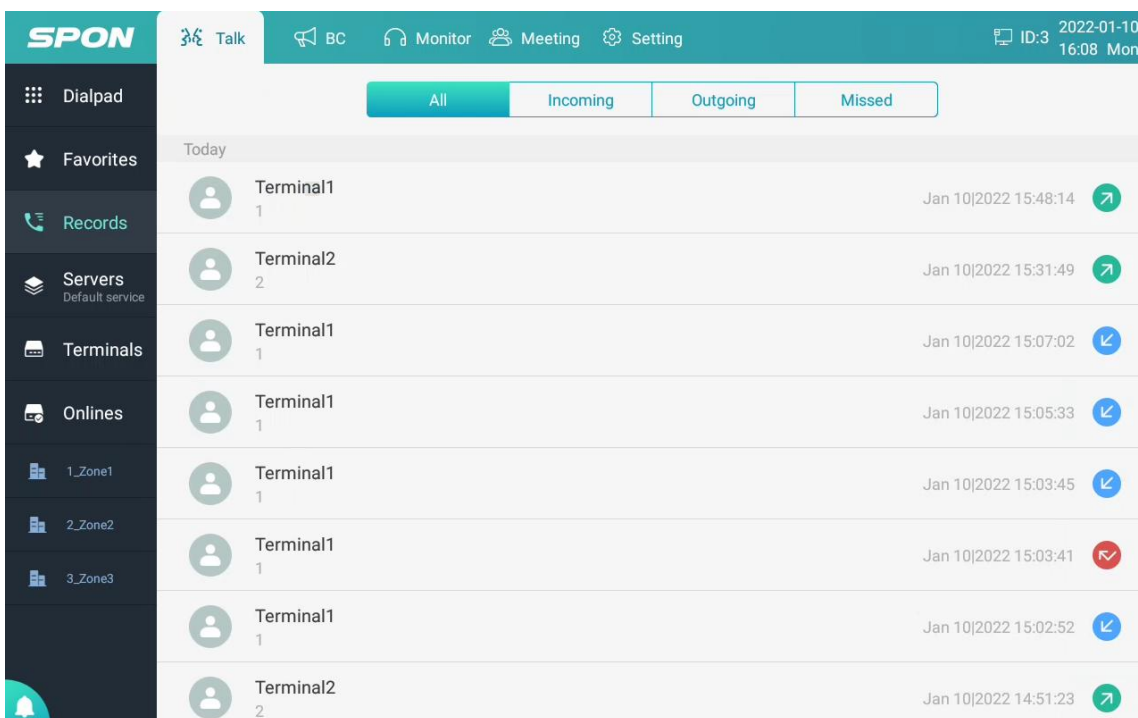
Click a terminal to view the task status of the terminal. Press Call to initiate an intercom with one click.




### Talk records

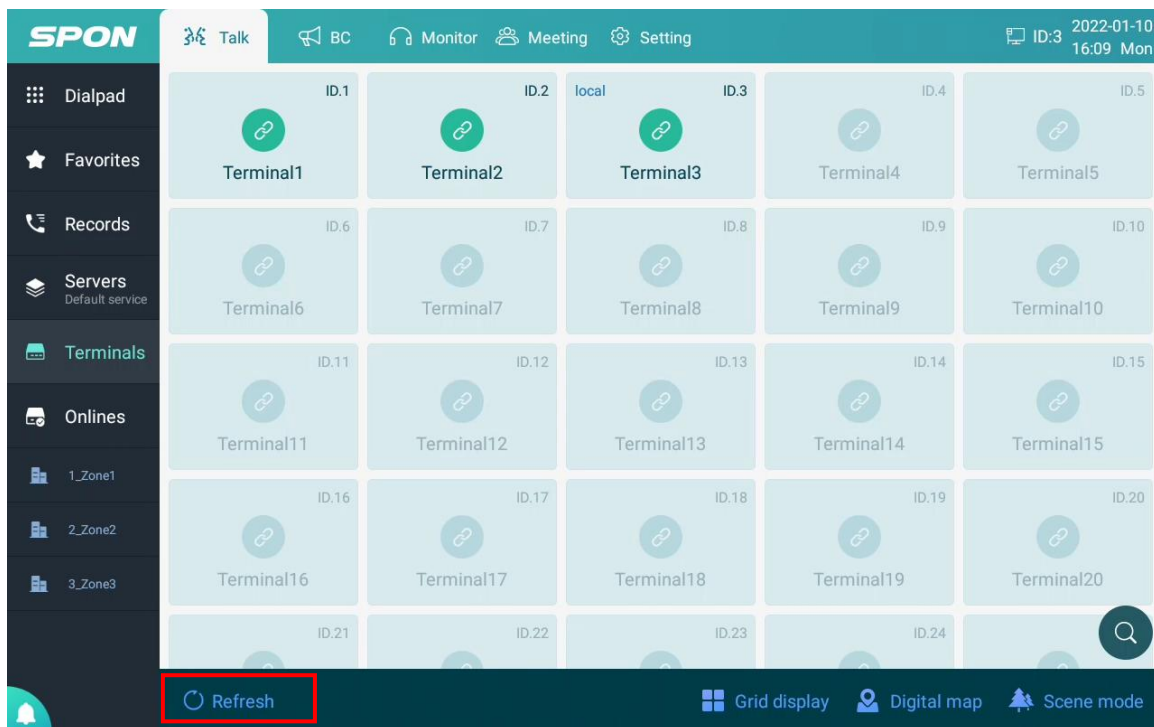
IP network visualization control host can save all talk records and support filtering by category (missed calls, incoming calls, and outgoing calls) to improve user search speed.

On the talk records interface, click any record to call back to the target terminal.



## Refresh terminal

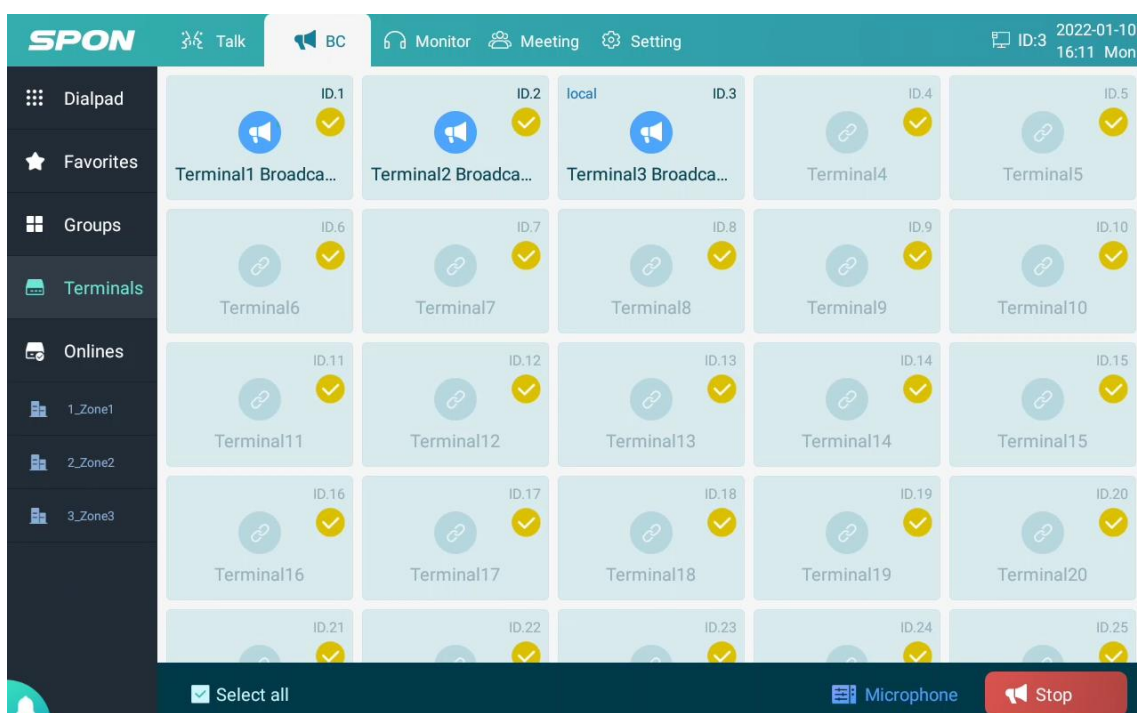
In the talk module [all terminals] interface, click the icon  at the bottom right of the screen, and then click the refresh terminal button, The terminal data will be reacquired.




## Broadcast

### Emergency Broadcast

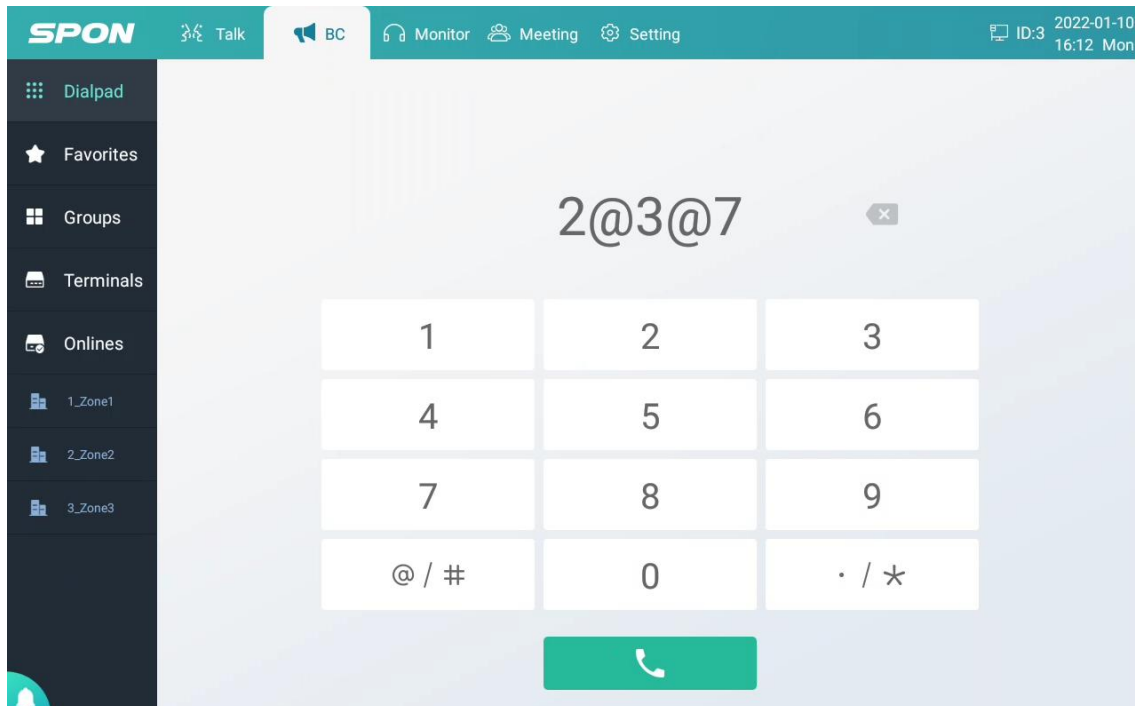
Press and hold the "Emergency Broadcast" button (the red physical button) for 1 second to quickly initiate a all zone broadcast, all server IDs will enter the receiving broadcast state; press the Emergency Broadcast button again to stop broadcasting.



## Dialpad broadcast

Select "Dial Pad", enter the ID number of the target terminal in the pop-up numeric keyboard, and then click the dial key , the IP network visualization control host will initiate a broadcast to the target terminal.

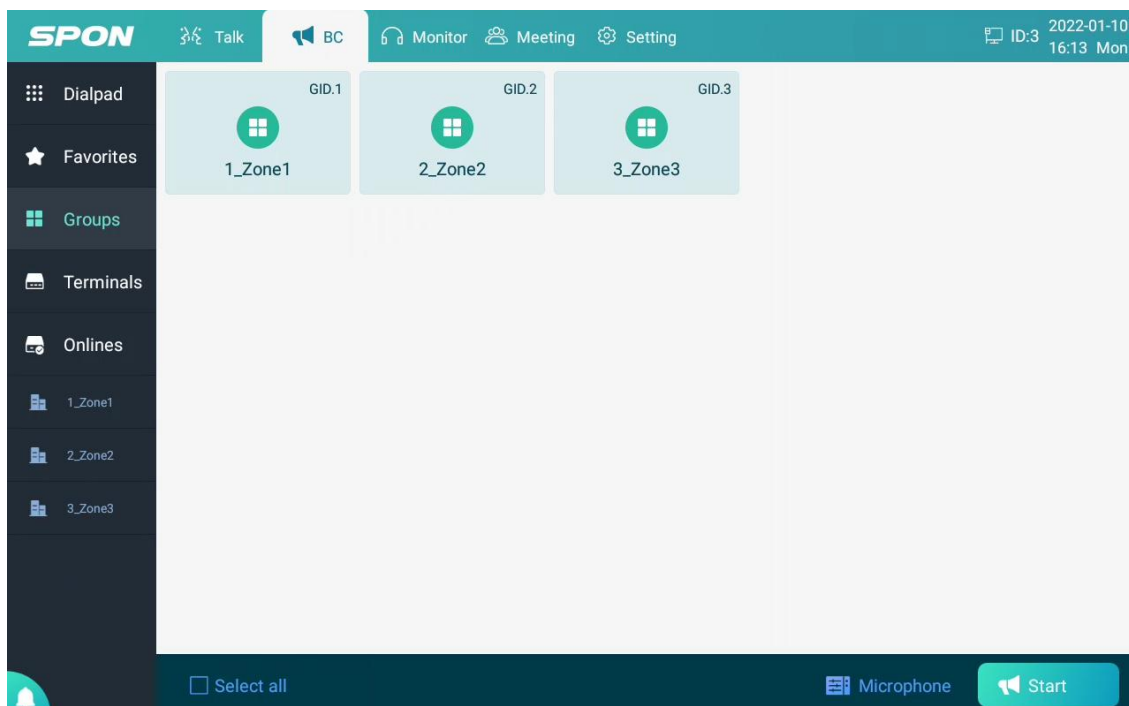
**Note: Multiple target terminal are separated by @ symbols , for example :1@4@7@8**



## Zone broadcast

Click [Groups]., and select the target zone to receive the broadcast, press[Start broadcast] button to initiate broadcast.

**Note: Check the "Select All" box at the bottom left to select all with one click.**

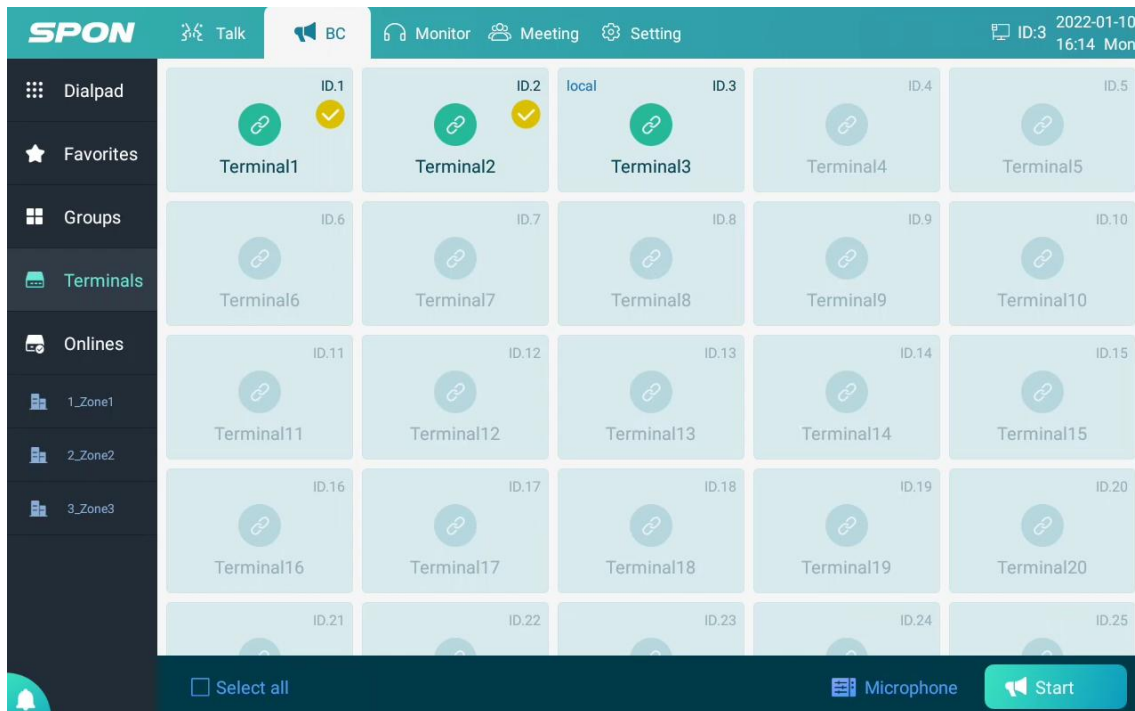




## Terminal broadcast

Click [Terminals], [Onlines], etc., and select terminal to receive the broadcast., press[Start broadcast] button to initiate broadcast.

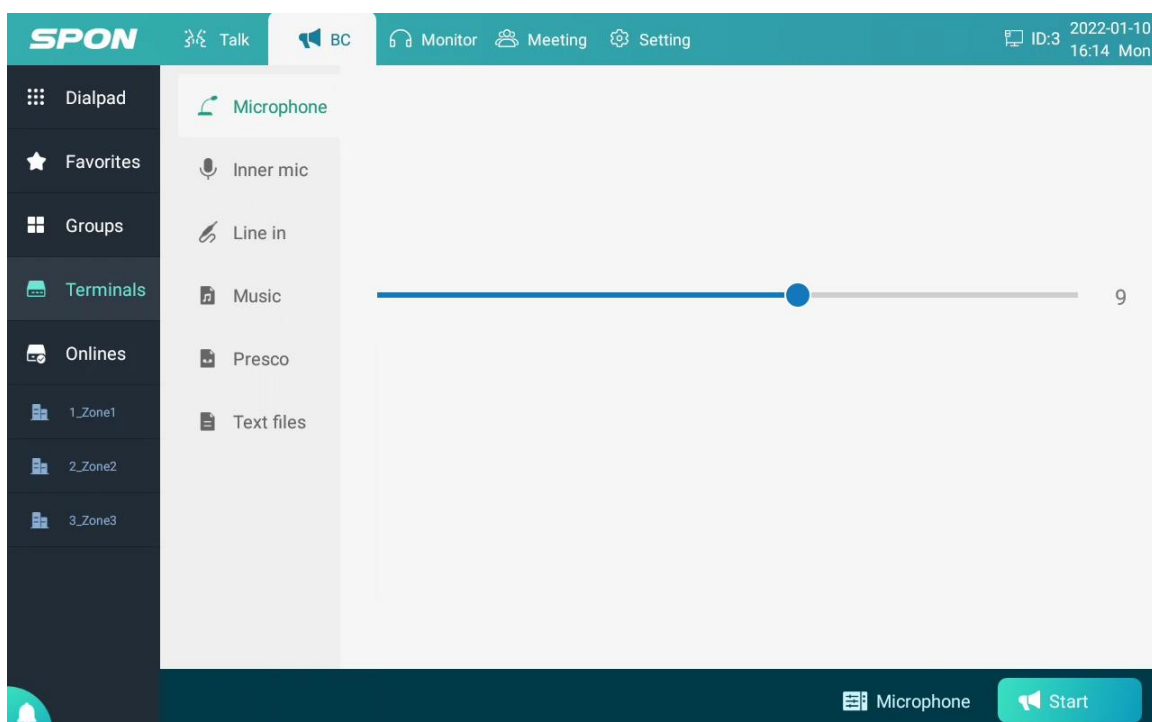
**Note: Check the "Select All" box at the bottom left to select all with one click.**



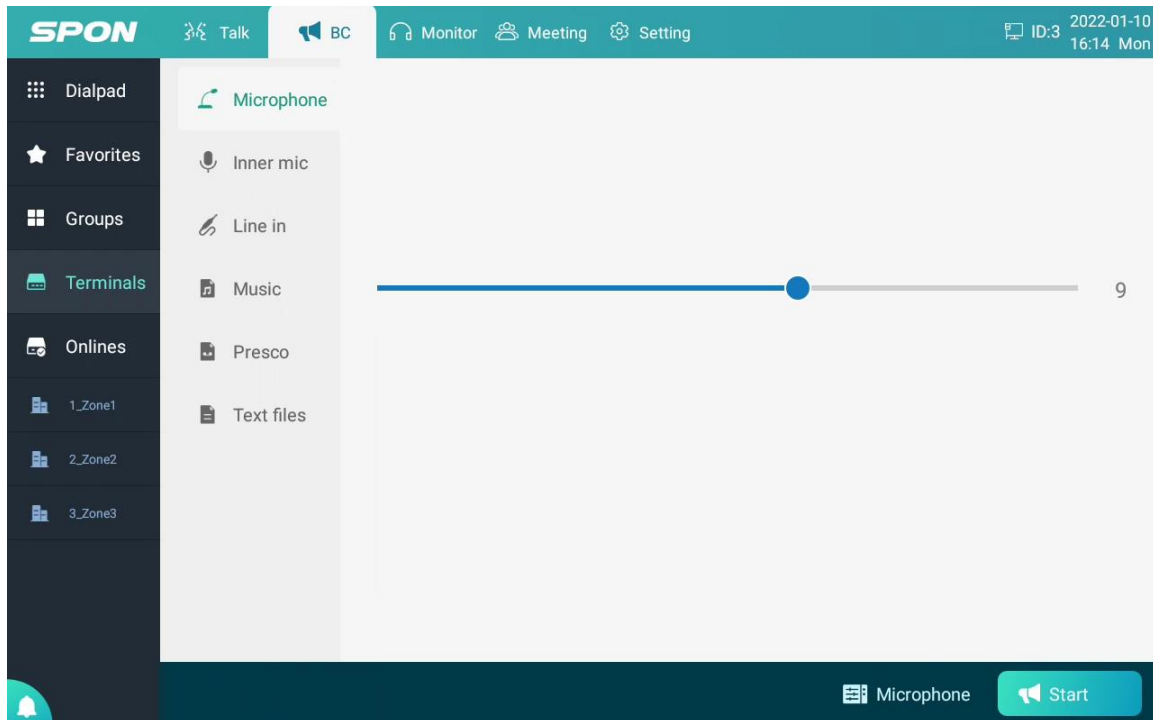
## Sound source selection

Microphone by default. Click the audio source selection icon to switch to Inner mic, line in, Music, pre-recording and text files.

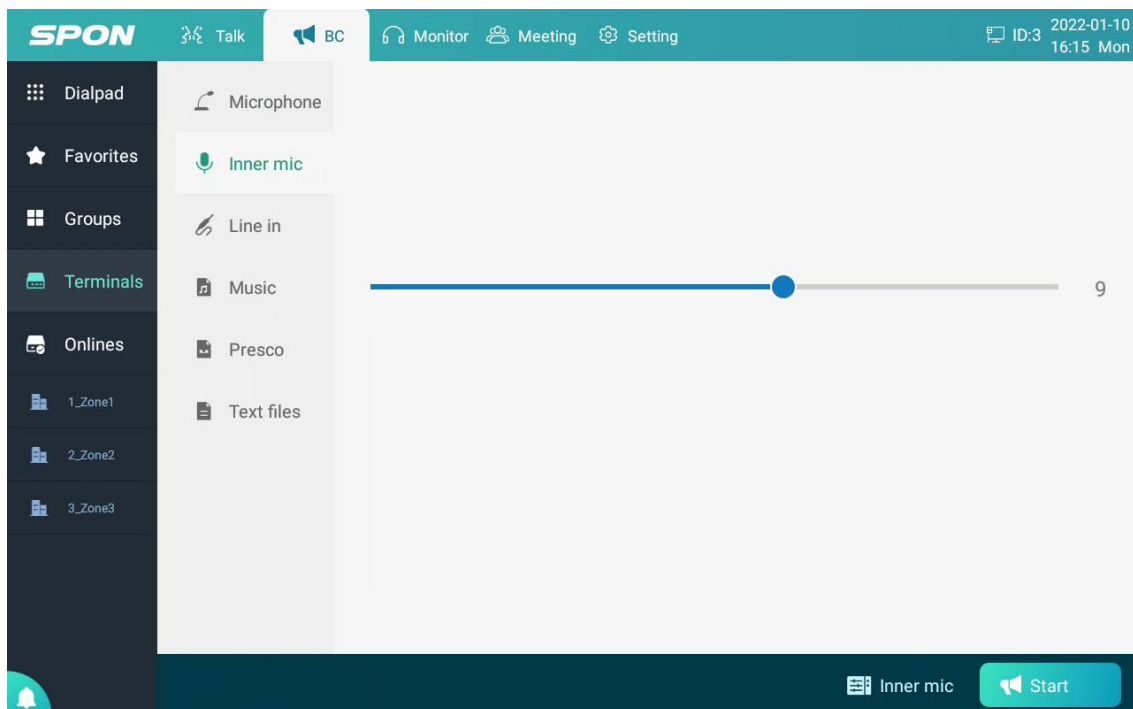
**Note: The volume bar in the audio source selection interface can adjust the input volume.**



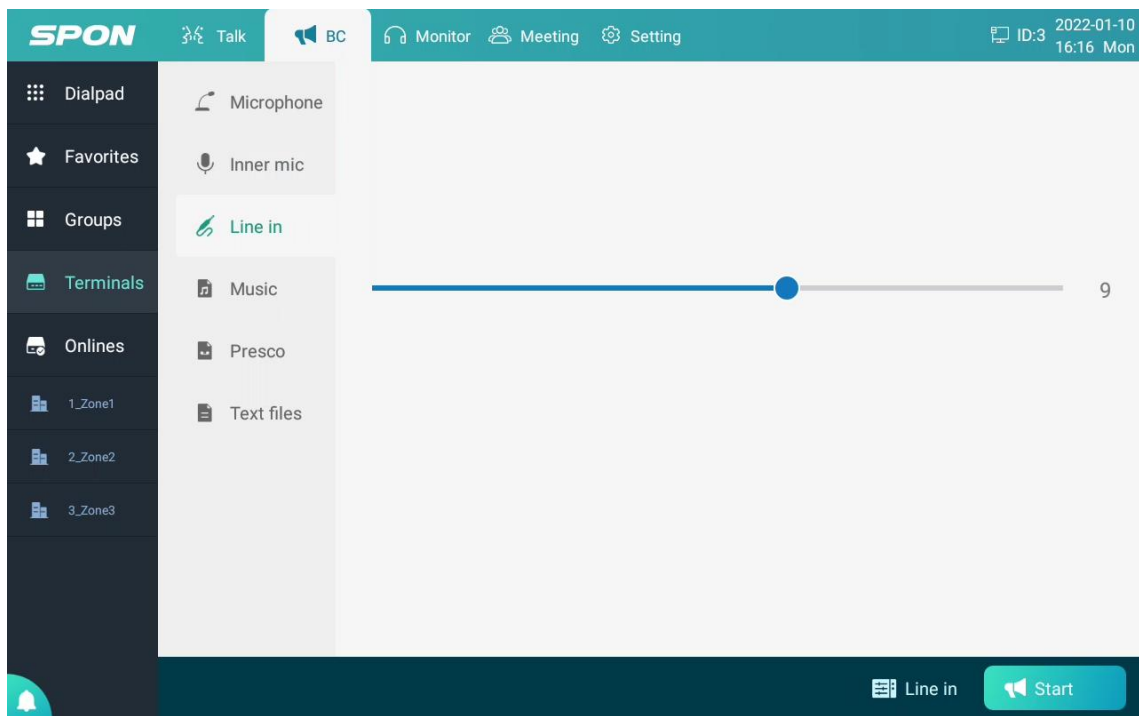
**(1)Microphone input:** The sound source is the microphone rod input, and the user performs real-time talk and broadcast from the microphone rod to the target zones



**(2)Inner mic:**The audio sources is the inner mic input ,and the user performs real-time broadcast from the inner mic to the target zones.

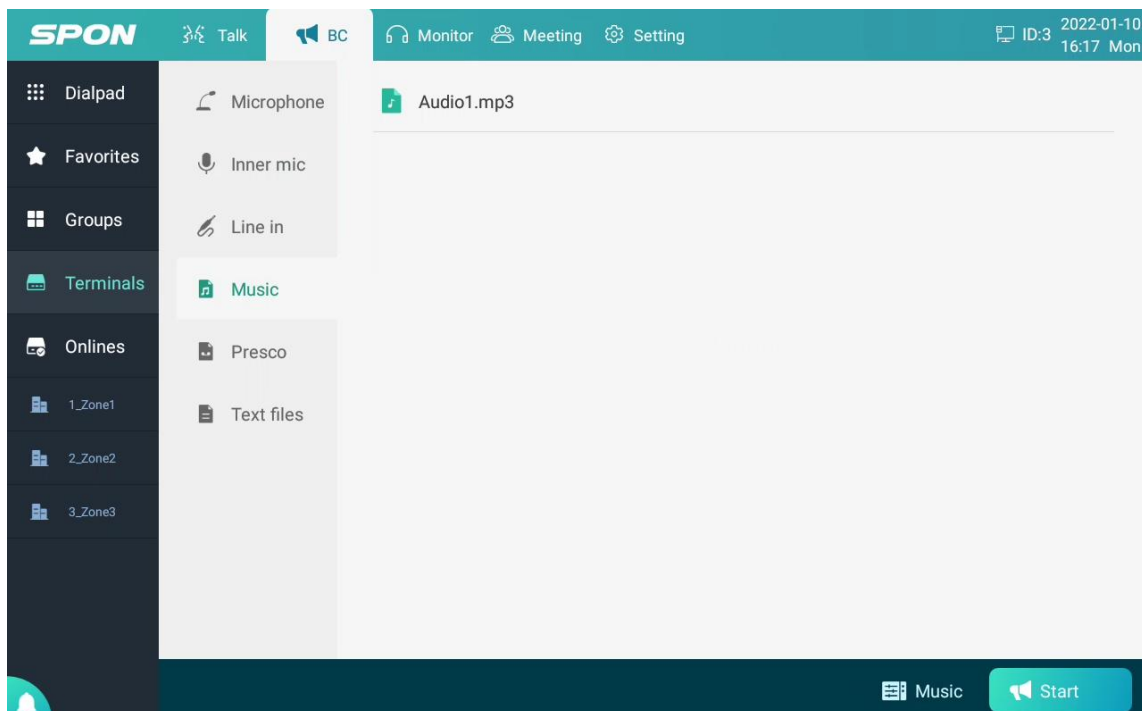


**(3)Line input:** The audio source is the audio file in the line input. Users can play the specified audio file on the computer to the specified target zones through the IP network visual control host







(4)**Music:** The audio source is the audio files in Program Library on the web page of the terminal.

**Note:** Upload audio files in “Resource Management”--“Media Program” on the web page. Wav and MP3 audio files are supported.



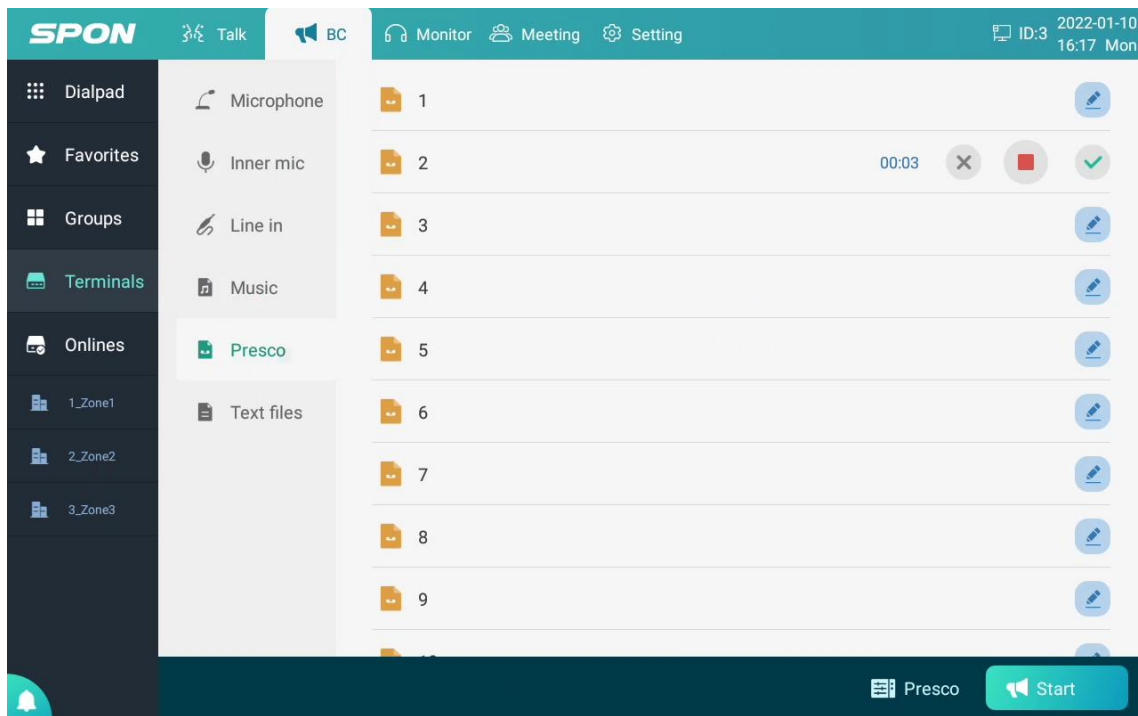
(5)**Pre-recording:** The audio source is the recording file set by the IP network visual control host .

The recording steps are as follows:

Click  to edit the current recording file, click  to start recording, the IP network visualization console will automatically collect the audio input from the microphone pole and save it, click  to stop recording. Click to confirm to save, and click  to delete the recording.

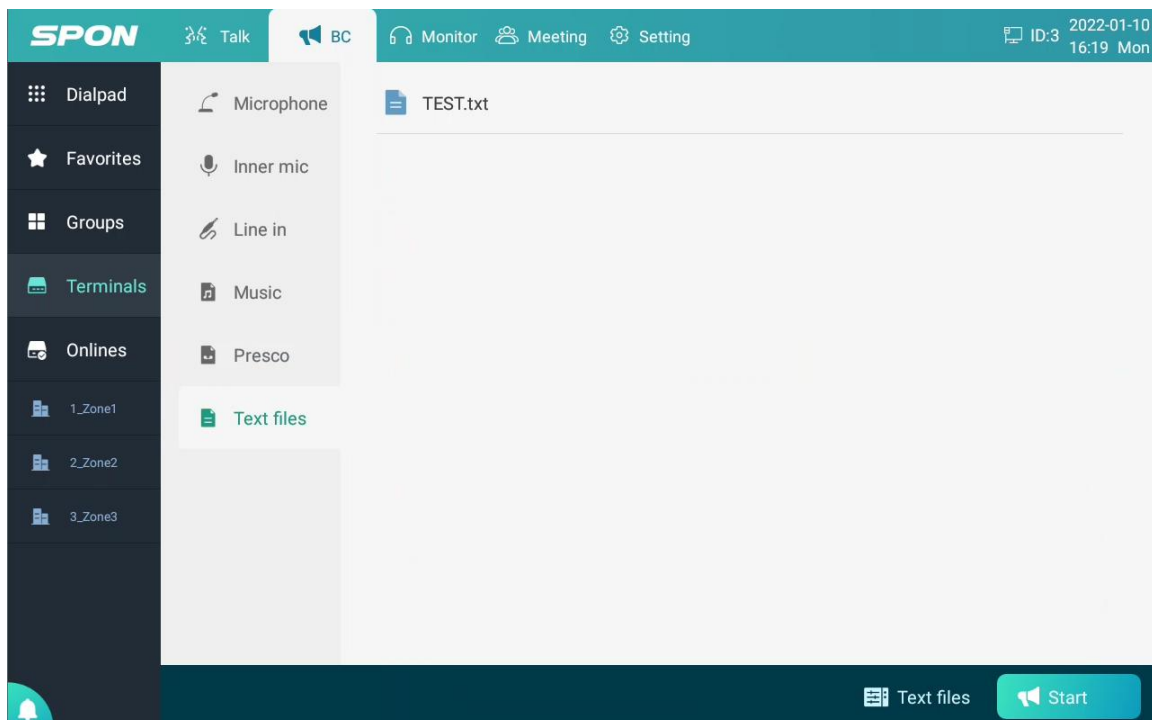
After the recording is saved, click the corresponding file to listen to it. The IP network visualization console supports up to 10 recording files.

**Note:** Supports up to 10 sets of recording files, and the name of the pre-recording can be customized, which can be set in the "Broadcast Parameters" on the terminal web page.



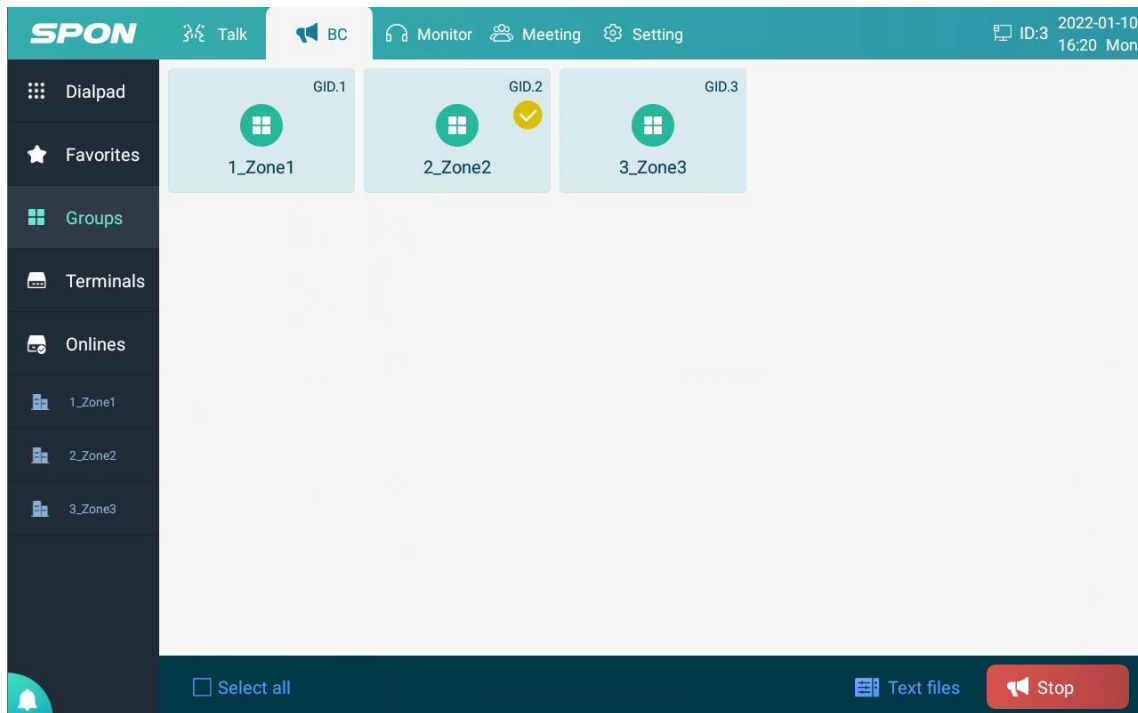
**(6)Text files:**The audio source is the text files in Program Library on the web page of the terminal. By converting the text in TXT text into audio broadcast to the target area.

**Note:** Upload TXT files in “Resource Management” --“Media Programs” on the web page. A text file can contain up to 20 characters (including punctuation).



## Stop broadcast

During the broadcasting,press 【Stop broadcast】 button to finish the broadcast.

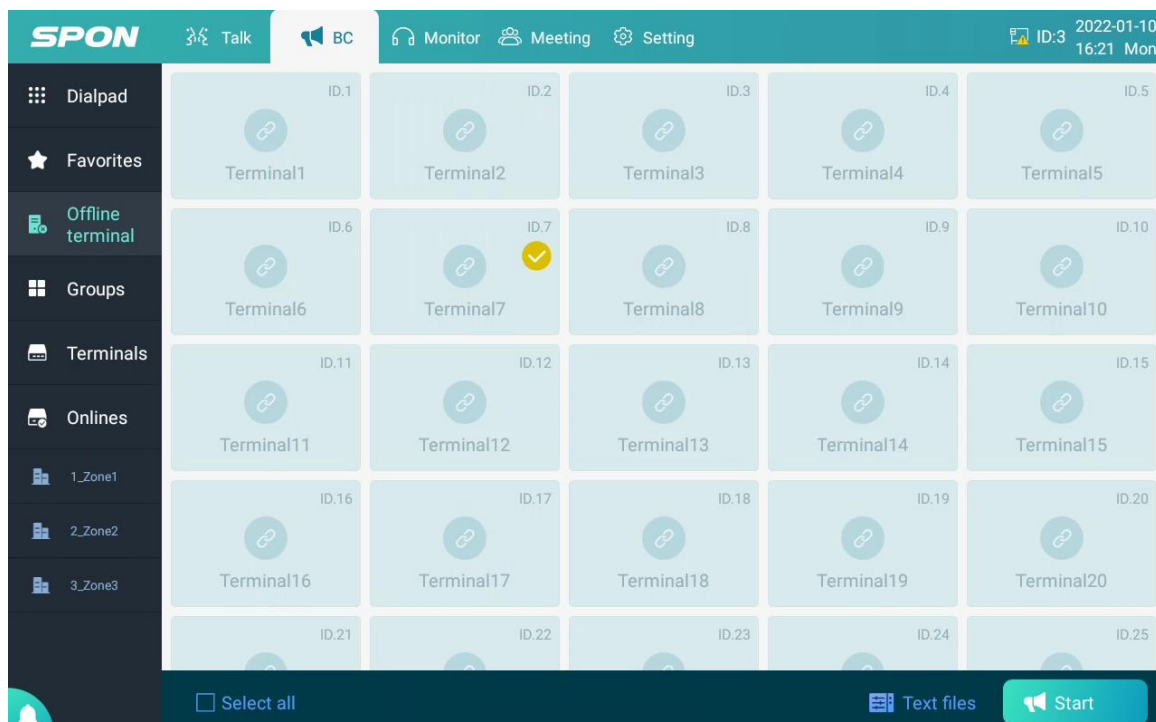


## Offline broadcast

(1) Configure the offline parameters in “Terminal settings”-“Offline parameters” on the terminal webpage.

(2) When the server is offline, click [Offline Terminal] in the broadcast module, and then check the target configured with offline parameters to initiate offline broadcast.

**Note: If offline parameters are not configured, offline broadcasting will not be possible. Up to 4 terminals can be selected for offline broadcasting.**



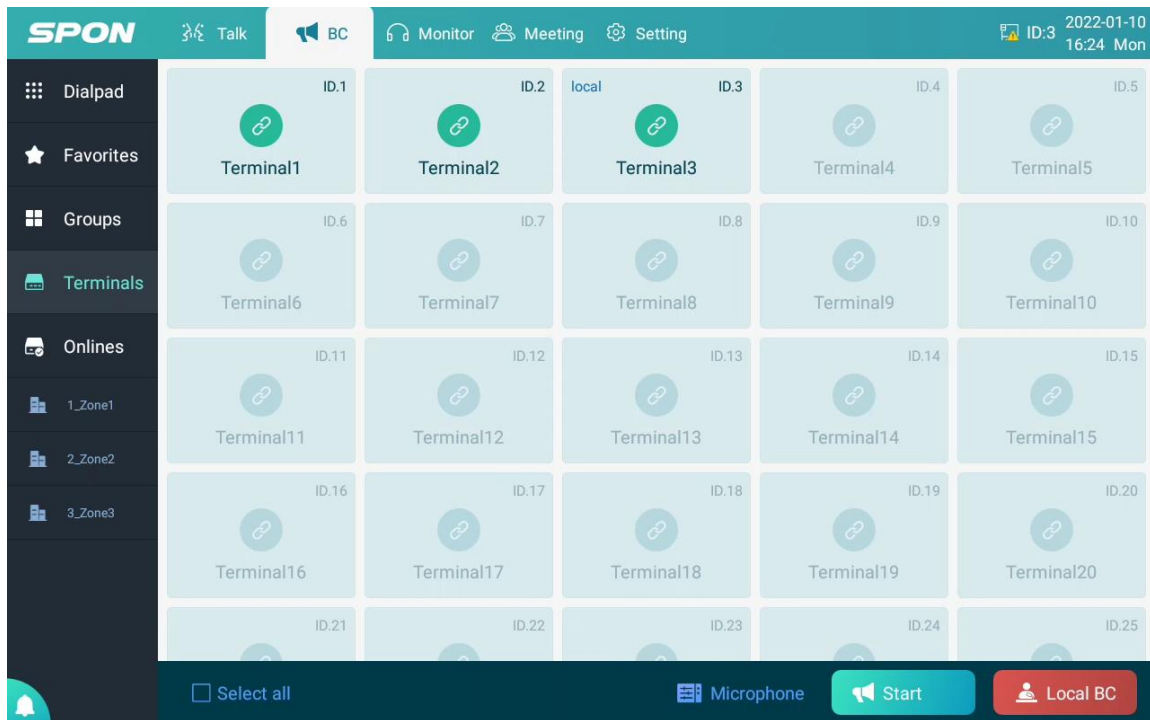
## Local BC

(1) The local sound reinforcement function is disabled by default. Please enable it in "Broadcast Parameters" on the web page (or enable it in "Settings" - "Function Parameters" on the main interface of the device).

(2) Click the "Local BC" button in the broadcast interface. The color of the button changes to red, and the device enters to the offline state. Local line output can play local amplification.

(3) Stop local sound reinforcement: Press the "Local BC" button to stop the sound reinforcement and restore the original color.

**Note: After local sound reinforcement is enabled, the device becomes offline and cannot accept any server tasks. After local sound reinforcement is stopped, the device returns to normal.**



## Voice Alarm

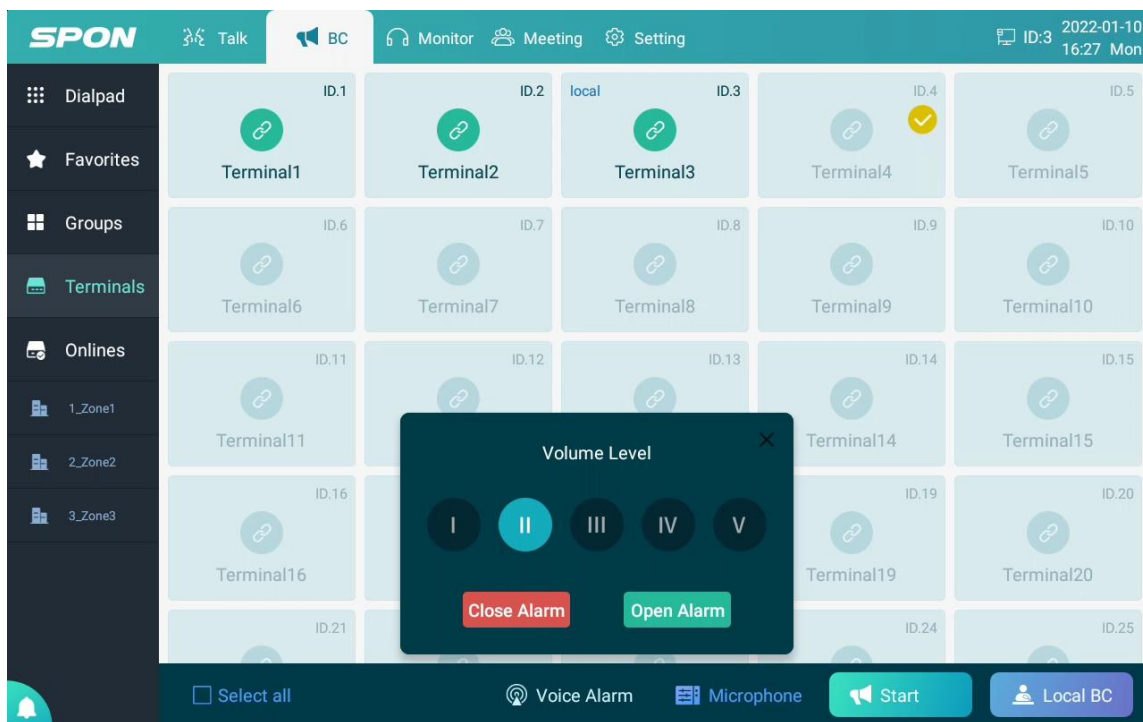
The Voice Alarm function is disabled by default. If you want to use this function, you must enable acoustic expelling in "Basic Settings" - "System Parameter" on the Web page in advance.

(1) After the acoustic expelling function is enabled, the "Voice Alarm" button will appear on the broadcast interface. Click the button and the voice alarm control panel will pop up.

(2) After broadcasting, click the "Open Alarm" button in the voice alarm control panel to start the acoustic expelling; In the process of acoustic expelling, click "Close Alarm" button to turn off the acoustic expelling.

(3) Click the corresponding volume level in the voice alarm control panel to set the acoustic expelling volume (level 1-5, level 1 minimum and level 5 maximum).


**Note:** Voice alarm is only valid for terminals with acoustic expelling function. And only after launching the broadcast can process acoustic expelling.

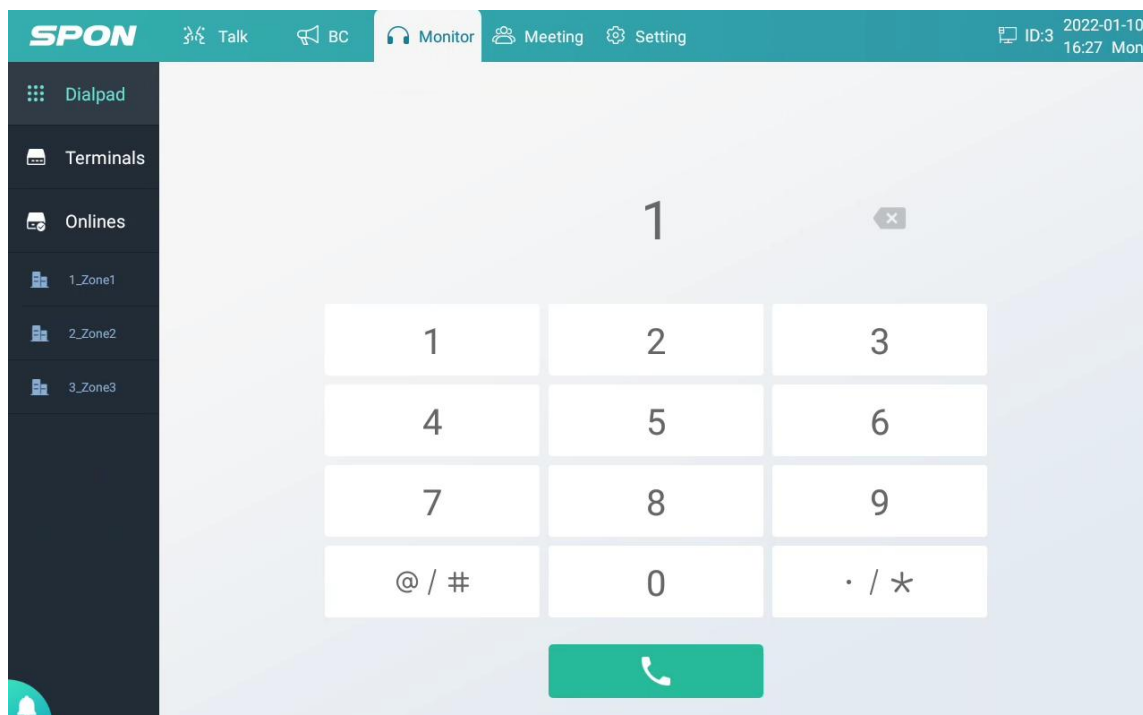


## Monitor

IP network visualization control host can monitor to one or all terminals online at the same server. If the monitored terminal is equipped with a camera, monitoring can be achieved while listening.

### Dialpad monitor

Select [dialpad] in the monitoring module, enter the target terminal ID number in the pop-up numeric keypad, and press the dial key  to initiate monitoring.

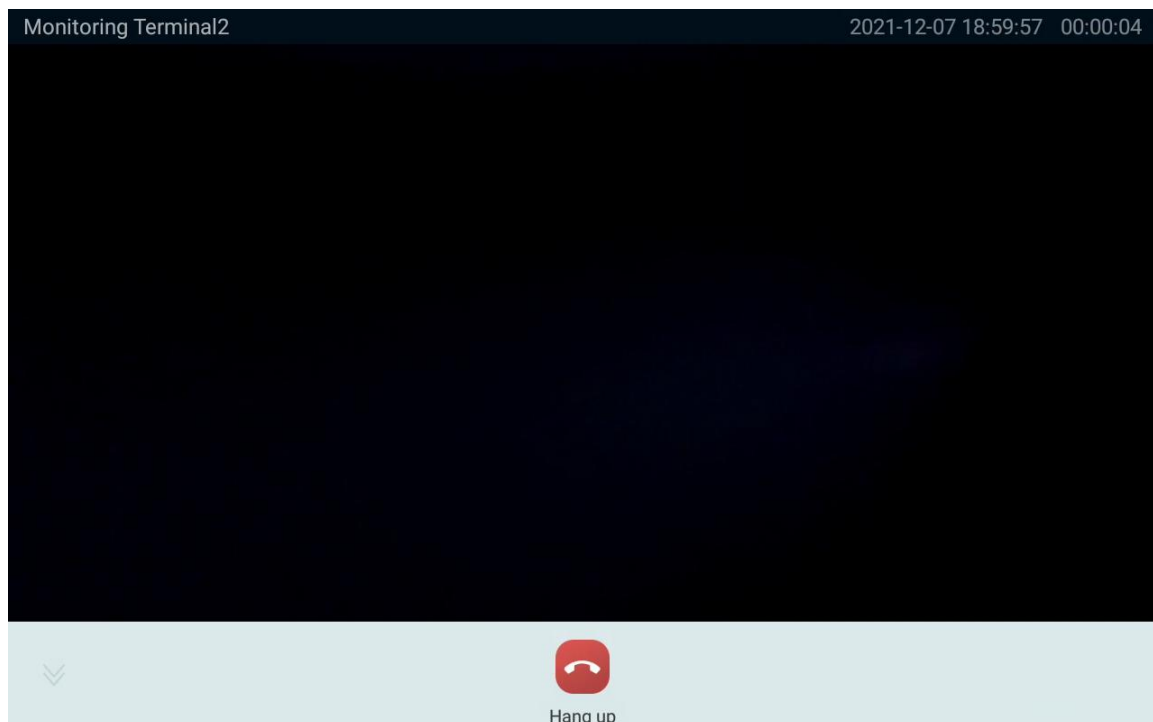
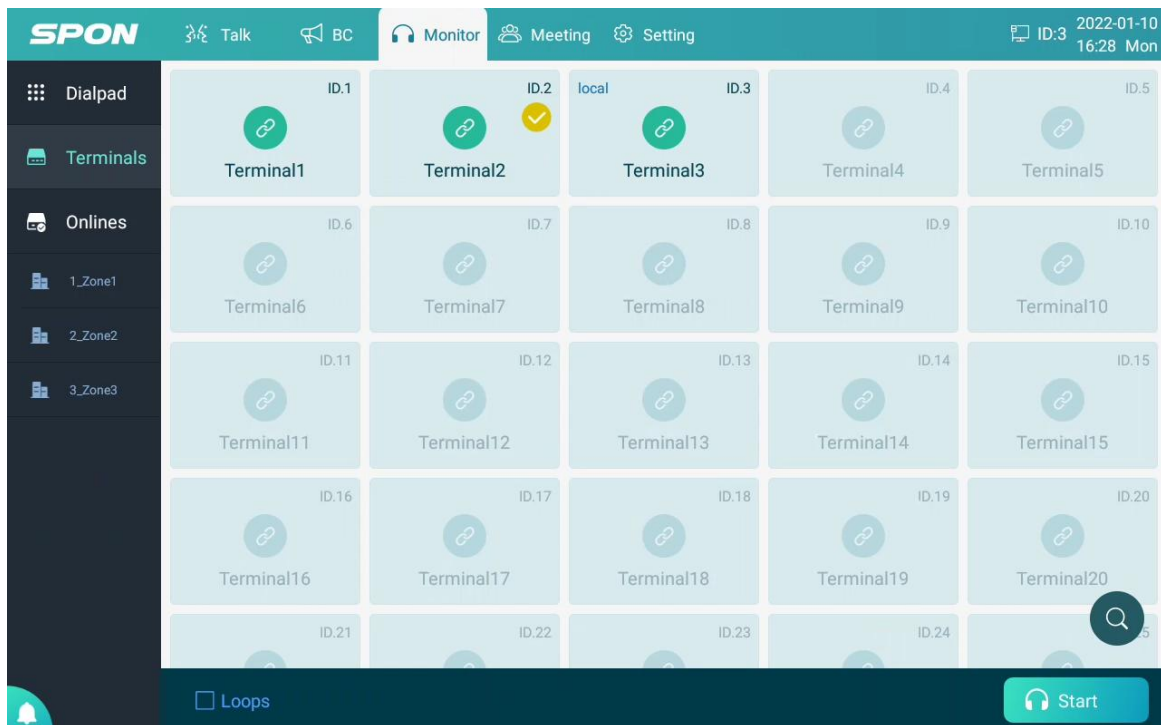




## Single monitor/loop monitor

Select [All terminal]or[Online terminal] in the monitor module to perform single or loop monitor.

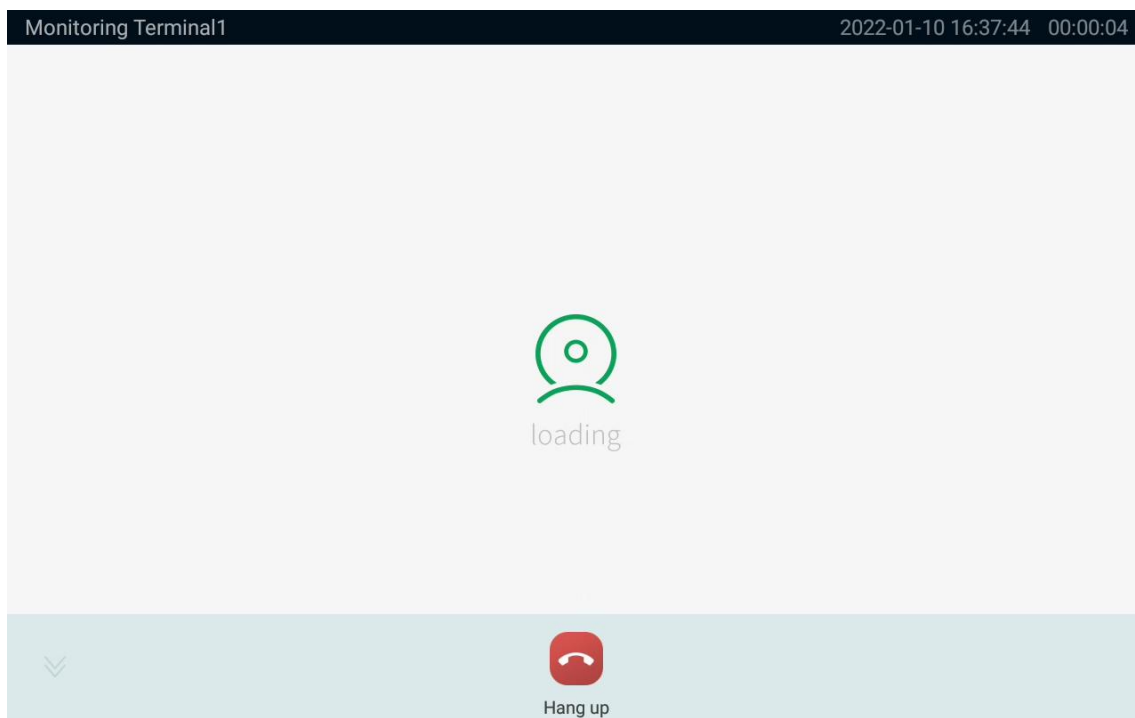
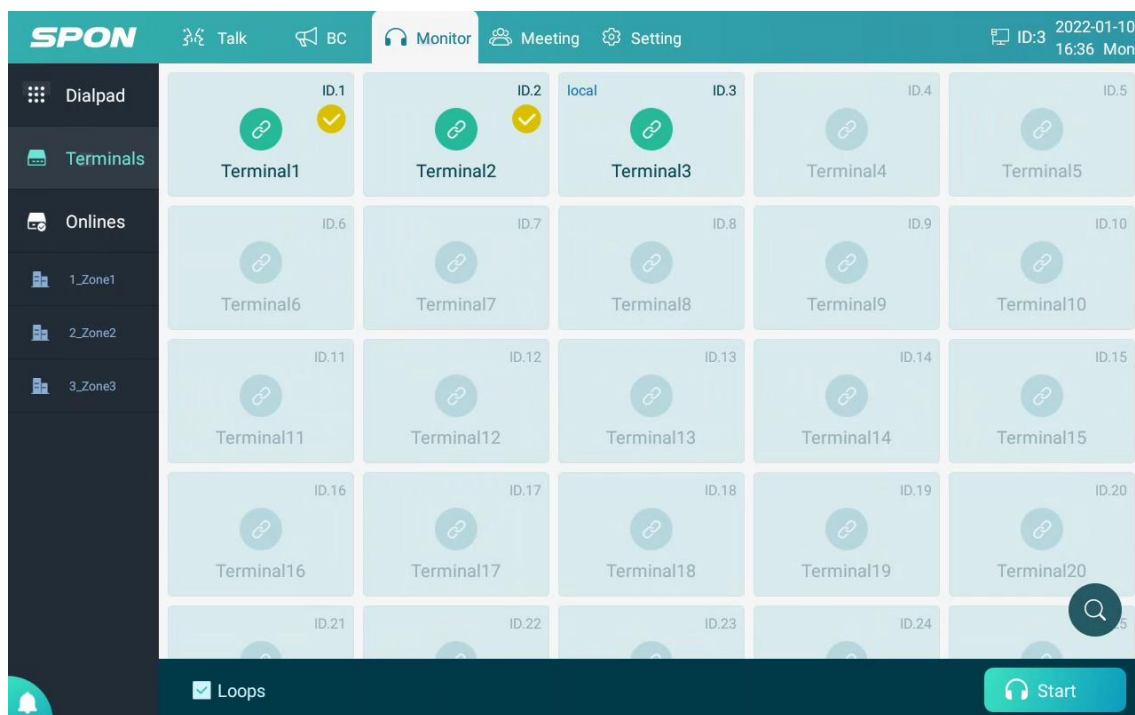
(1) **Single monitor:** A single monitor only support to select a terminal ,and select the target terminal to be monitored , and click “start listening”button to listen the terminal.



(2) Loop monitor: Check “loop monitor” to select multiple terminal for loop monitor at a time. The IP network visual control host will loop monitor each target terminal according to the set time in the order of the terminal list .

Monitor time settings: Set it in “monitor parameters” - “loop monitor time” on the webpage.



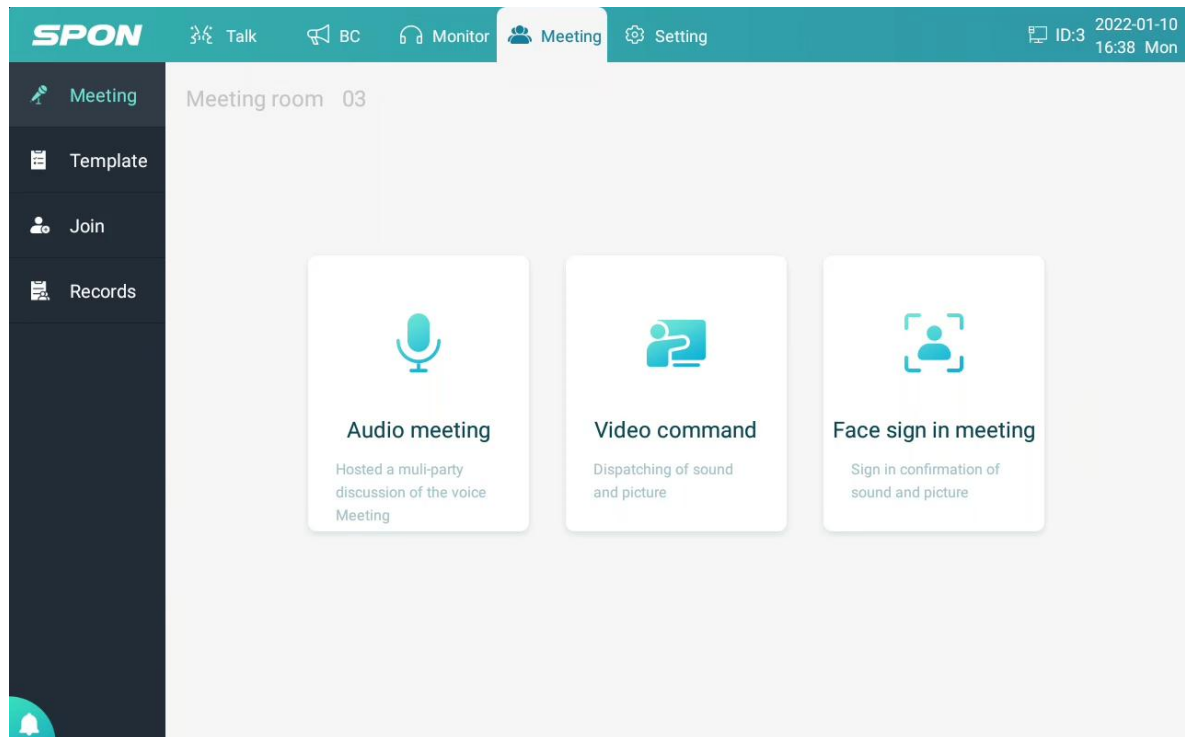


## Conference

IP network visualization control host can initiate audio conferences , video command conferences, face sign in meeting and can control and manage conference participants.

## Initiate conference

Support to host audio conference ,video command conference and face sign in meeting .



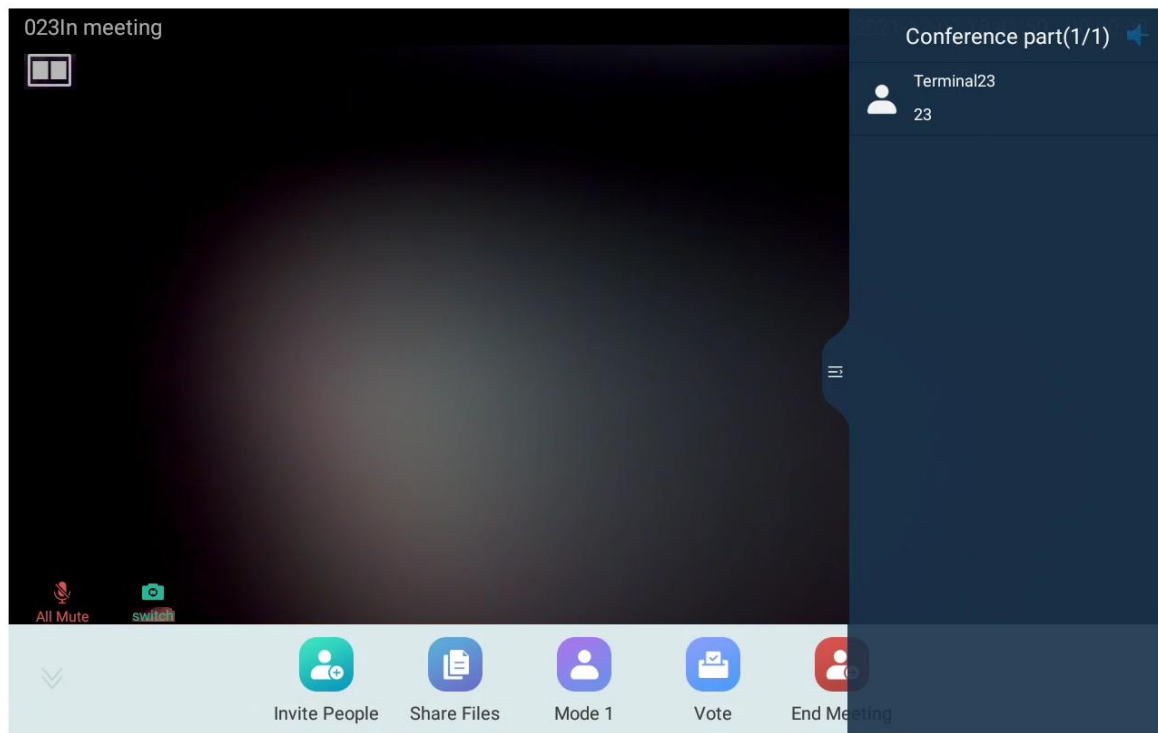
### (1) Audio conference

To host a multi-party audio conference, click “audio conference” on the Host page to create a conference.




### (2) Video command conference

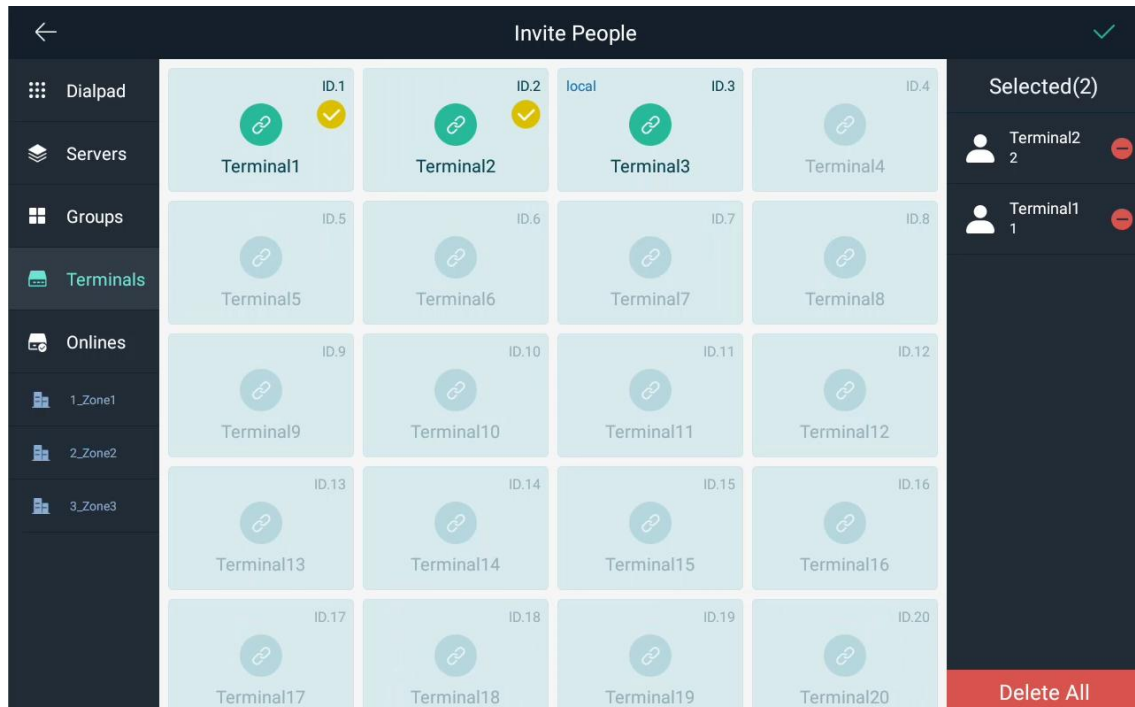
Command and dispatch voice and picture synchronization of multiple terminals. Click the “Video Command” button to create a video command conference.



### Invite participants

After the conference is created successfully, click the “Invite people” button the left bottom to check the participants, and click OK .

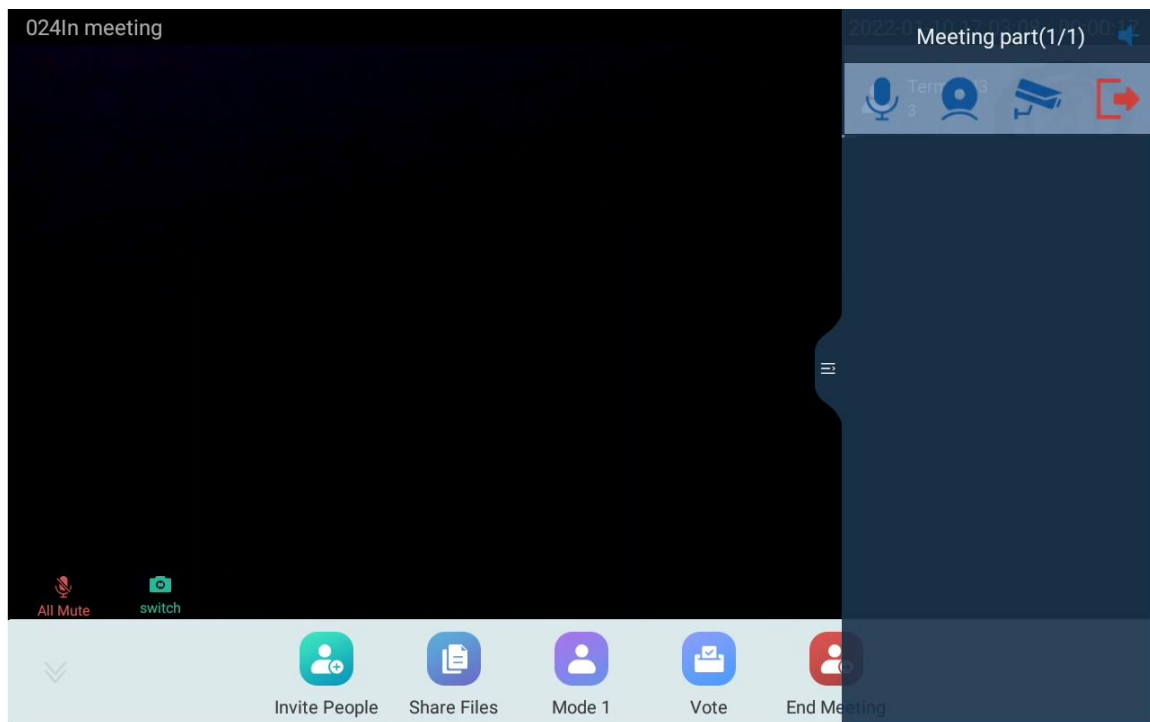
**Note:** Participants must manually confirm whether to join an audio conference. Participants can enter a video conference automatically after being invited without confirmation .



### Conference interface description



After access to the conference ,the interface description as below .

**Note:** Audio conference has no video display , other functions are the same as video conference.





### Specify speech/silence, video switch, screen switch, kick

#### (1) Specify speech/Mute

**Specify a speech :** At the conference, by default the host speech is opened (The microphone icon is on ) , Other participants by defaults close the speech(The microphone icon is off ) The host can click the microphone icon to open the participant's microphone. Let the other party speak, click again to close the speech.



Participants will apply for a speech according to the "Hands Up" button on the screen of the machine. After the application, the mode of the host will display the prompt "Speaking Application-[\*\*Terminal]". After the host presses the "Agree" button, the other party can speak.

**Mute:** The host clicks the specific participant and then press the microphone icon  to turn off the microphone of the participant (the microphone icon turns off ) .



#### (2) All mute

During the conference, click the "All Mute" icon at the bottom left of the screen to mute the microphones of all participants.

#### (3) Kick

During a conference, if the host clicks a participant and then presses the icon  , the participant is kicked out of the conference. (Click the host's icon  to end the whole conference)

#### (4) Video switch(Audio conference do not support)

During a video conference, the host can click a participant and then press  icon to switch the video to the local camera of the terminal, or press  icon to switch the video to the external camera bound to the terminal.

**Note:** During a video conference, local video is displayed by default. If default IPC video source is enabled in Settings - Function Parameters on the home screen, videos from external cameras bound to the terminal are displayed by default.

#### Local video and external video description:

**Local video:** The video of the terminal camera or the USB camera video connect to terminal USB port .(Switch between "Settings" - "Function Parameters" - "Camera Selection" on the home screen).

**External video:** External videos bound below "terminal Management" of the service software;

#### (5) Switch(Switch between voting screen, file screen, video/audio screen)

During a meeting, click the [Switch] button at the bottom of the screen to switch meeting screen.

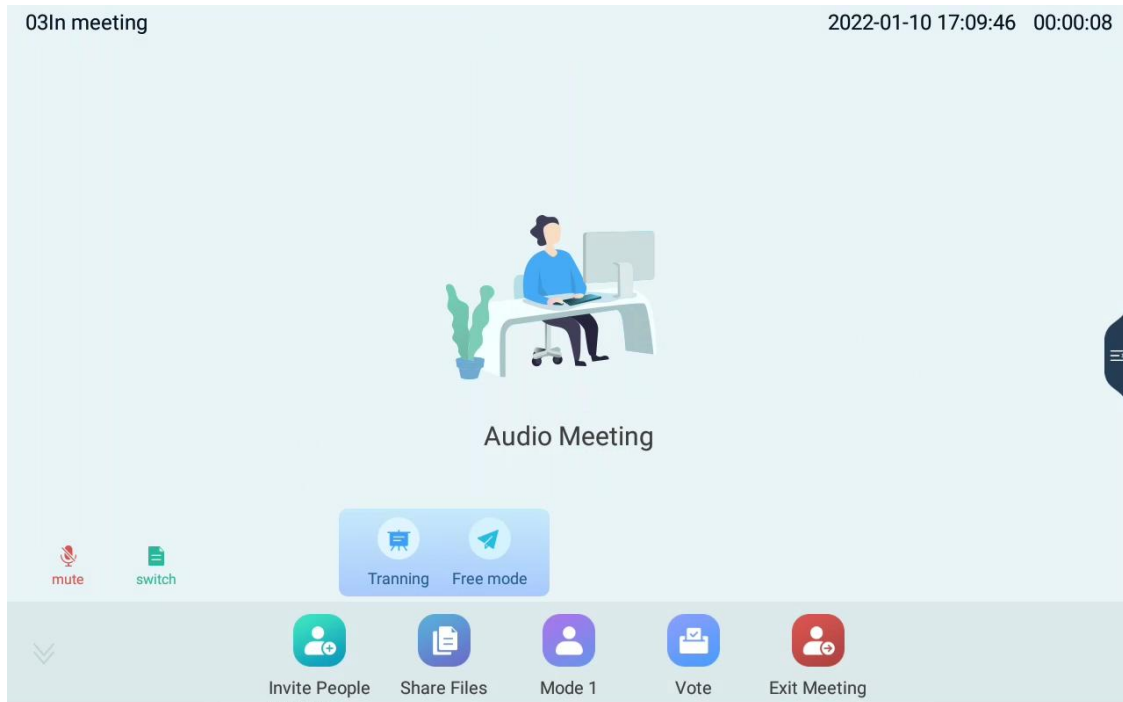
## Share Files

Users can upload the files required for the meeting to the terminal server. During the meeting, click "Share Files" to directly retrieve the meeting files uploaded by the service software for display. The operation mode is as follows:

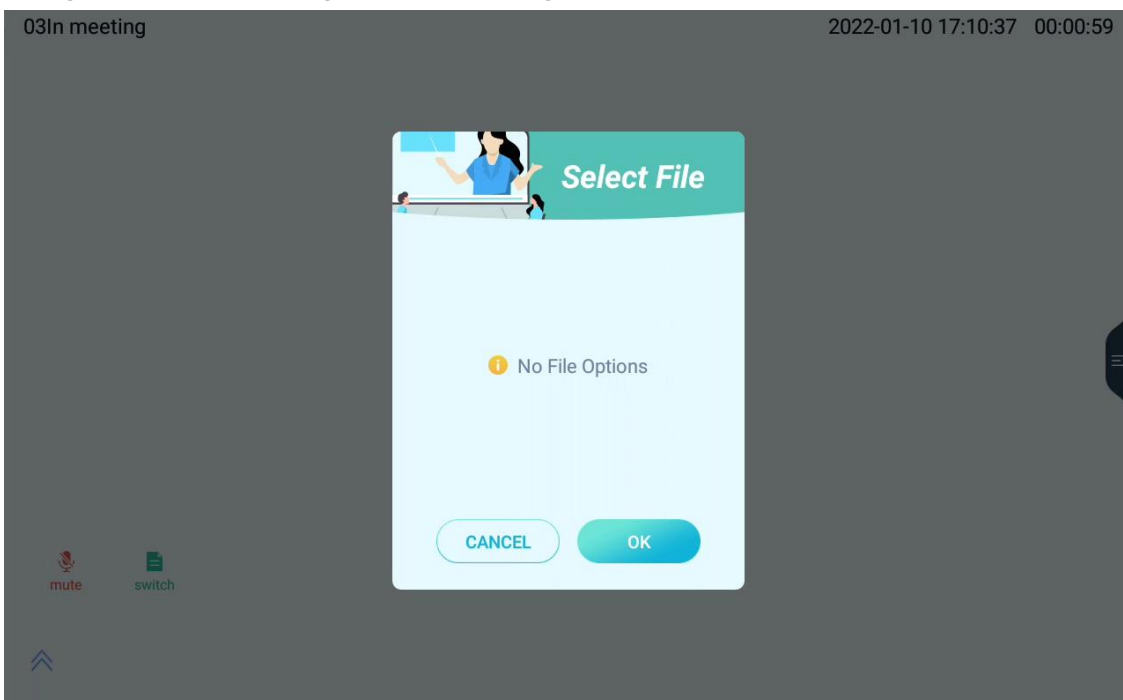
(1) During the meeting, press the "Share Files" button to select the Training mode;

Training mode: the host controls the training documents, and the participants cannot adjust the contents of the documents. The host and the participants display the documents simultaneously.

Free mode: the host and the participants can adjust the documents without affecting each other.



(2) Select training documents. **Note: The training documents must be uploaded in advance in the service software "Meeting Settings" - "Document Management", supporting the format of Word, PDF, Excel and PPT.**

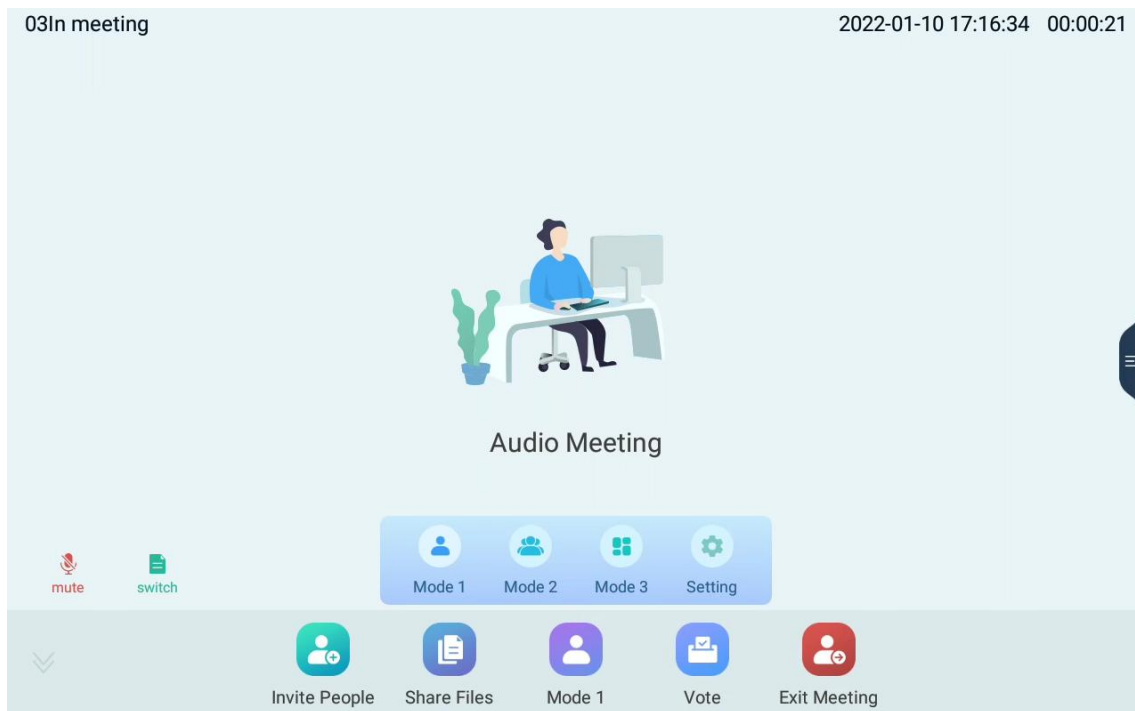


(3) After clicking "OK", the meeting files can be displayed. Press the arrow   to switch up and down.

### Scenario mode switch

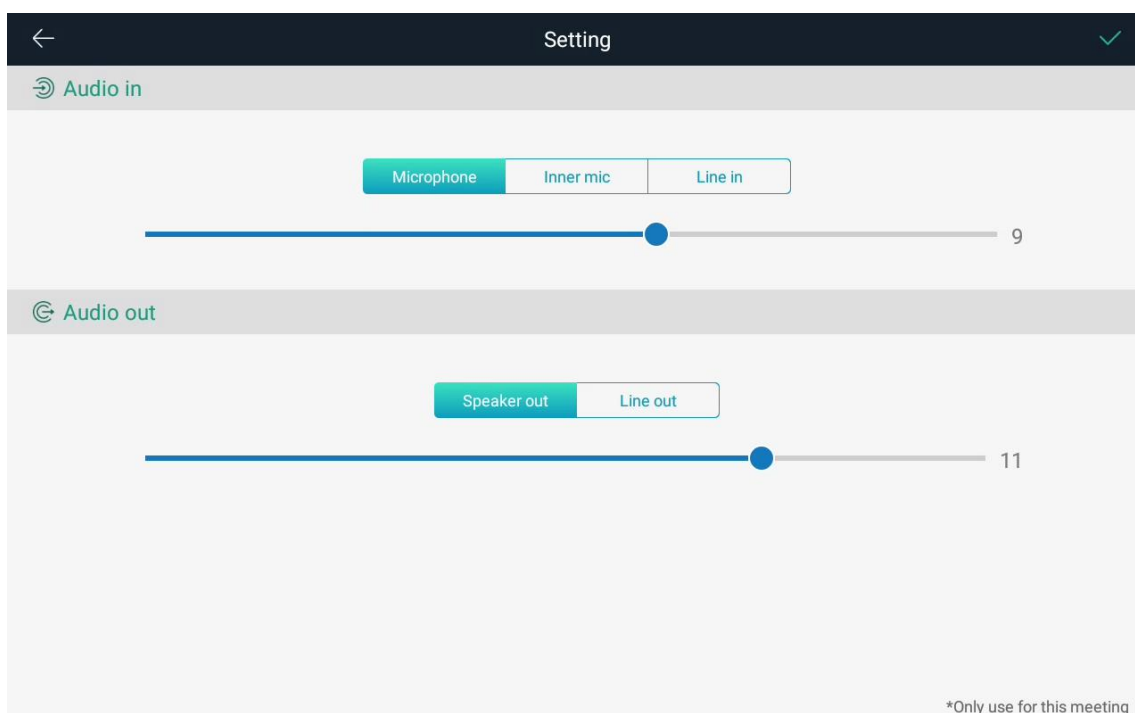
User can configure 3 type of conference scenario in "conference parameters"on webpage(for detail to see "Customize Terminal Parameters"->"Basic Functions"->"Conference Parameters")

During a conference, click the "Scenario Mode" button to select a scenario (single-player scenario, conference scenario, or conference scenario).



### Temporarily setting a meeting scenario (only valid once) :

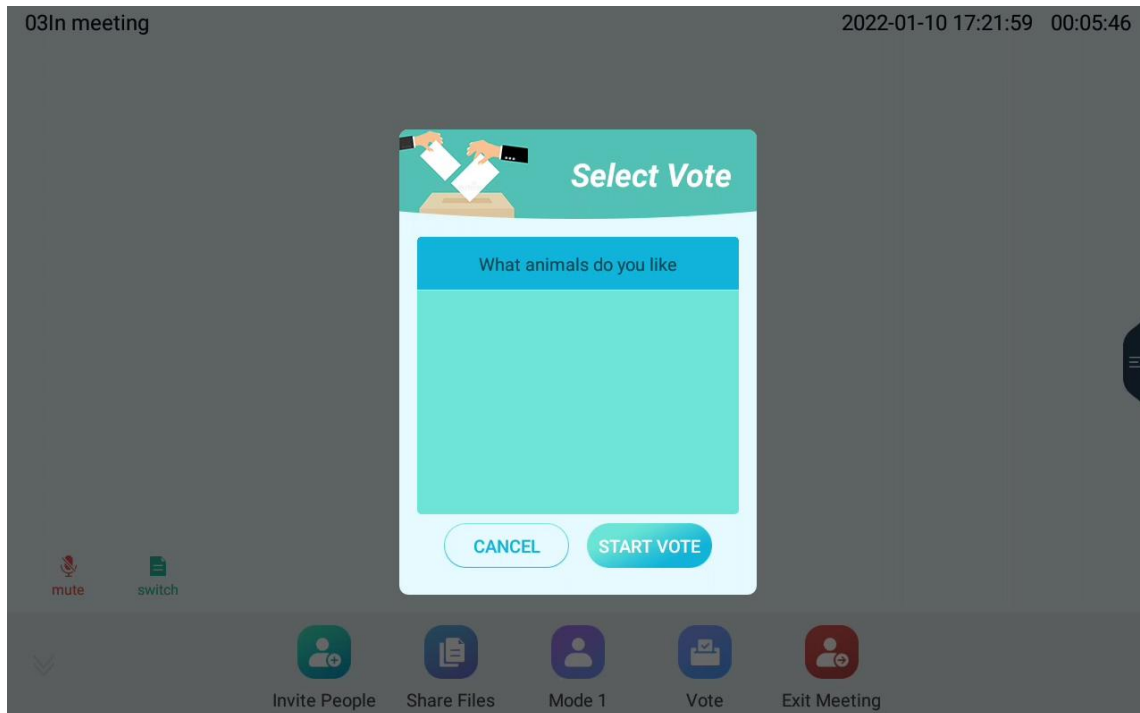
Click the "Mode 1" button, and then select "Settings" to set the meeting audio input/output channel, volume, and camera as required. After setting, press save.



## Vote

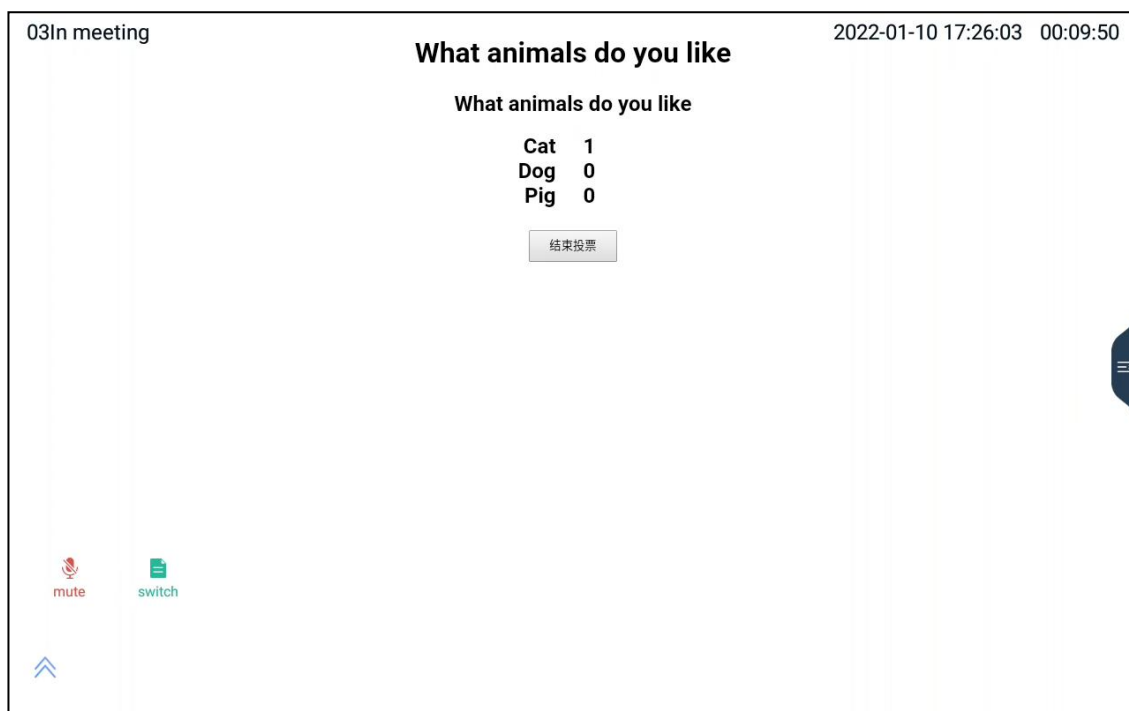
Users can create a vote in the Service software [Basic Settings] - [Meeting Management]. For details, please see the service software User Guide. During a meeting, the moderator can select the vote content in the service software to vote. The operation mode is as follows:

(1) During the meeting, if the moderator clicks the "Vote" button below, the voting option created by the service software will pop up. After selecting the corresponding vote, press "Start Vote", all participants in the meeting will receive the vote initiated by the moderator.



(2) Conference participants can select the corresponding option directly on the screen and press the "Submit" button to complete the voting.

(3) After the conference participants submit the vote, the host's voting interface can directly display the number of votes. Press "End Vote" to end the vote.



## Face Sign-in

Confirm the sign-in of voice and picture synchronization for participants. To use face check-in function, the following configuration must be carried out:

(1) configure the face server

Configure the IP address and port of the face recognition server in "Server Parameters" on the Web page (and ensure that the face server face library has uploaded face photos);

(2) terminal face registration

On the main interface of the device, enter the "Settings" - "Function" interface, select "Face Register", press the "Register" button for face registration.

(3) Enable face recognition

Method 1: Enable "Conference Face Recognition" in "Basic Settings" - "Conference Params". on the Web page.

Method 2: On the home screen, choose "Settings" > "Function", and enable "Face Register"

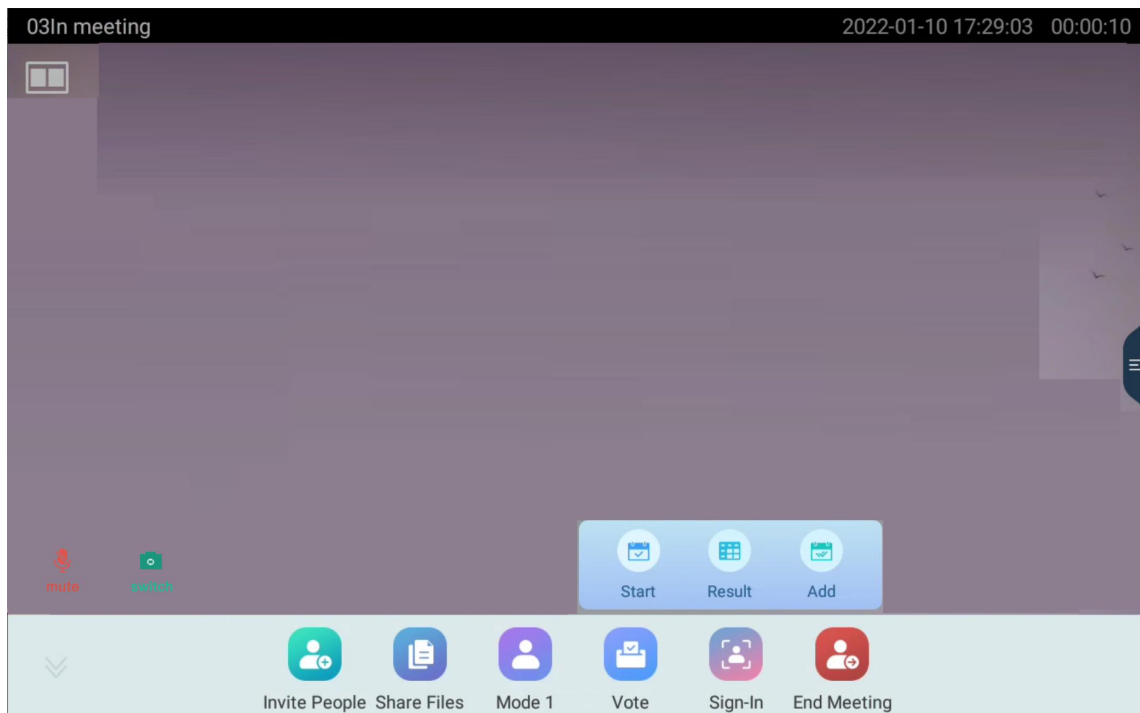
(4) Create a meeting by "face sign in meeting"

In the [Meeting] module, press the "face sign in meeting" button to create a face check-in meeting, and then invite the sign-in members to enter the meeting.

(5) Start face check-in

The host will click [Sign-In] - [Start] at the bottom of the screen to sign in, and the participants will receive the voice prompt for signing in. At this point, the participants need to face the camera to sign in, and the name and number of sign-in will be displayed on the host screen after successful signing.

After the sign-in, click the "Result" button to view the sign-in list and result. Click "Supplement check-in" to supplement and re-supplement check-in.




**Note:** If you have any further questions, please contact our technical support.




## Conference template settings

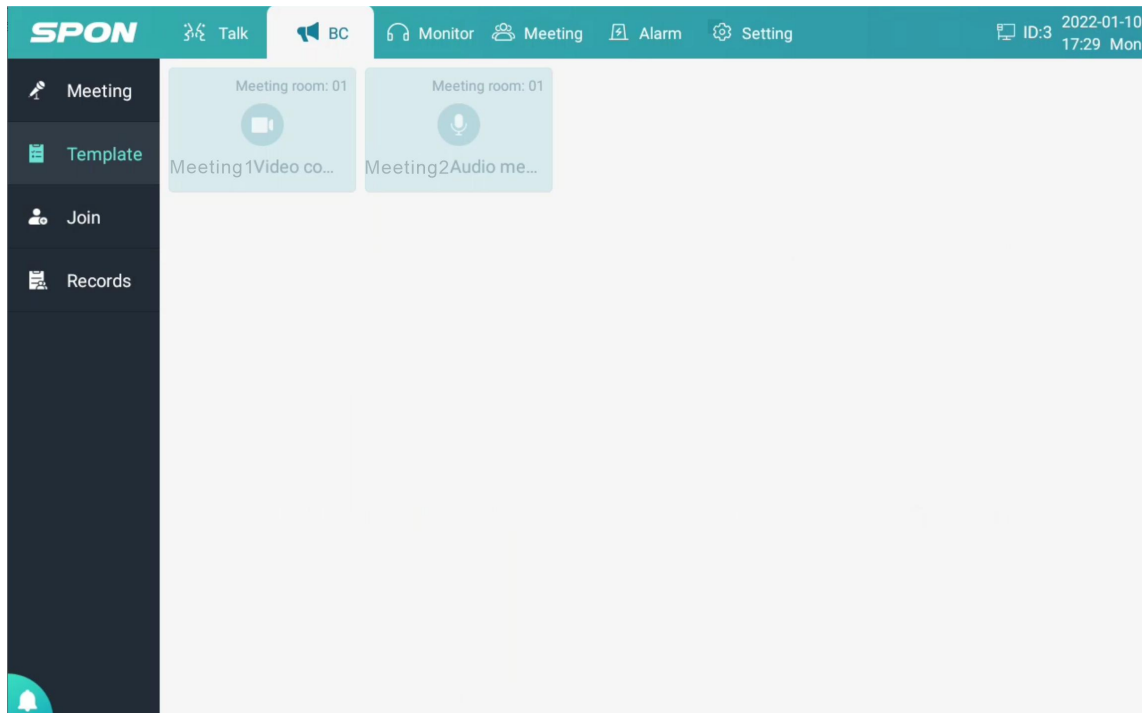
The content displayed in the conference template must be set in the 【conference Management】 parameters of the server software. The information about the host, participant, and conference type has been set in the “conference Template” of the software. You can click the template on the server or terminal to start the conference.

IP network visualization control host only display the related conference templates ,and the interface can directly display the room number 、 name 、 type of each conference room.

If the native machine is host ,In the conference template, the text in the conference room is black and the icon is lit .

If the native machine is participant ,In the conference template, the text in the conference room is gray and the icon is dark .

The host can click a conference room to start the conference, while the participant can only receive the conference.



**Using conference templates , it also support conference notifications and conference screen fusion ,The specific operations are as below:**

### (1) Set a conference template

In the software 【Basic settings】 - 【Conference settings】 - 【Conference templates】 press the “+”button to add a conference template ,set conference name、conference type、host、participant,after settings click “save”.(For specific operations, please refer to the software manual)

Add

Title

MondayConference

Type

Video

Polling time (single terminal default is 0s)

10s

Host 【Terminal1(1)(1)】

Terminal1(1)

Tactl spee...

Yes

make an ...

Yes

Speech fo...

Yes

Meeting reminder type

Ring to remind

Period

Once

Start date

2021-12-10 15:32:32

Schedule a meeting to remind the interval

15min

The appointment time(hour)

1

Terminal3(3)(20600000003)(Delete)

Terminal2(2)(20600000002)(Delete)

	Key task ID	Name	Sort & Delete	Tactl speech
#	20600000002	Terminal2(2)	<div> <div> <div> <div> <div></div> <div></div> </div> </div> </div> </div>	<div> <div> <div></div> <div></div> </div> </div>
#	20600000003	Terminal3(3)	<div> <div> <div> <div> <div></div> <div></div> </div> </div> </div> </div>	<div> <div> <div></div> <div></div> </div> </div>

<

1


>

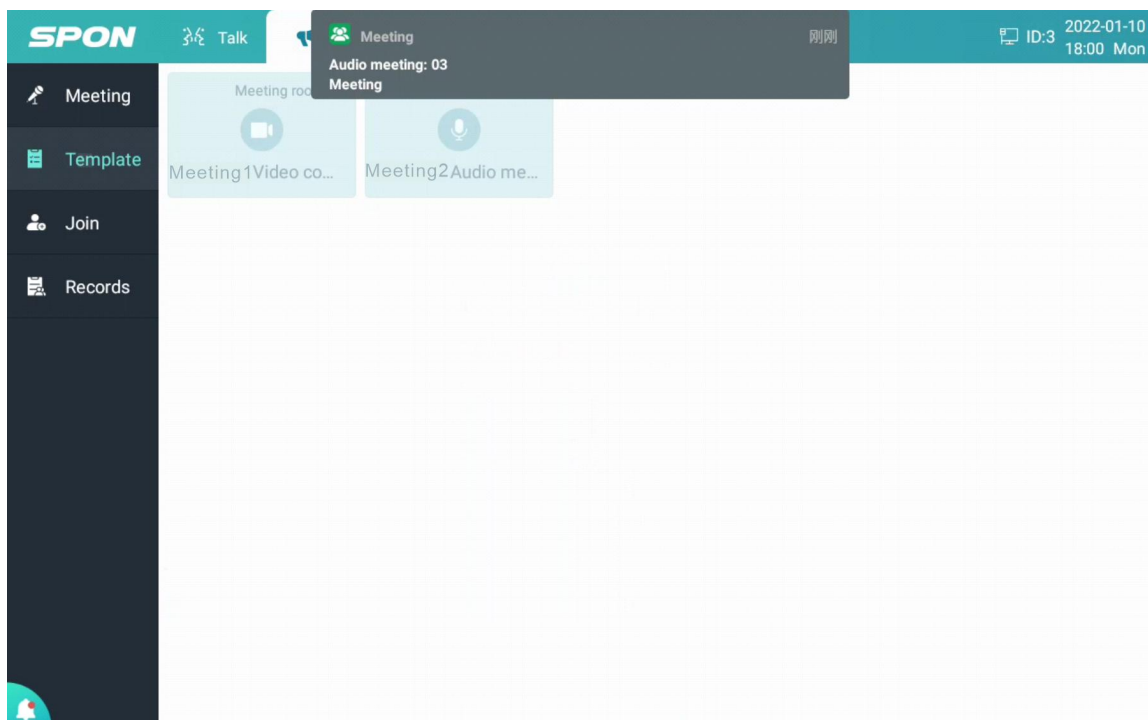
激活 Windows

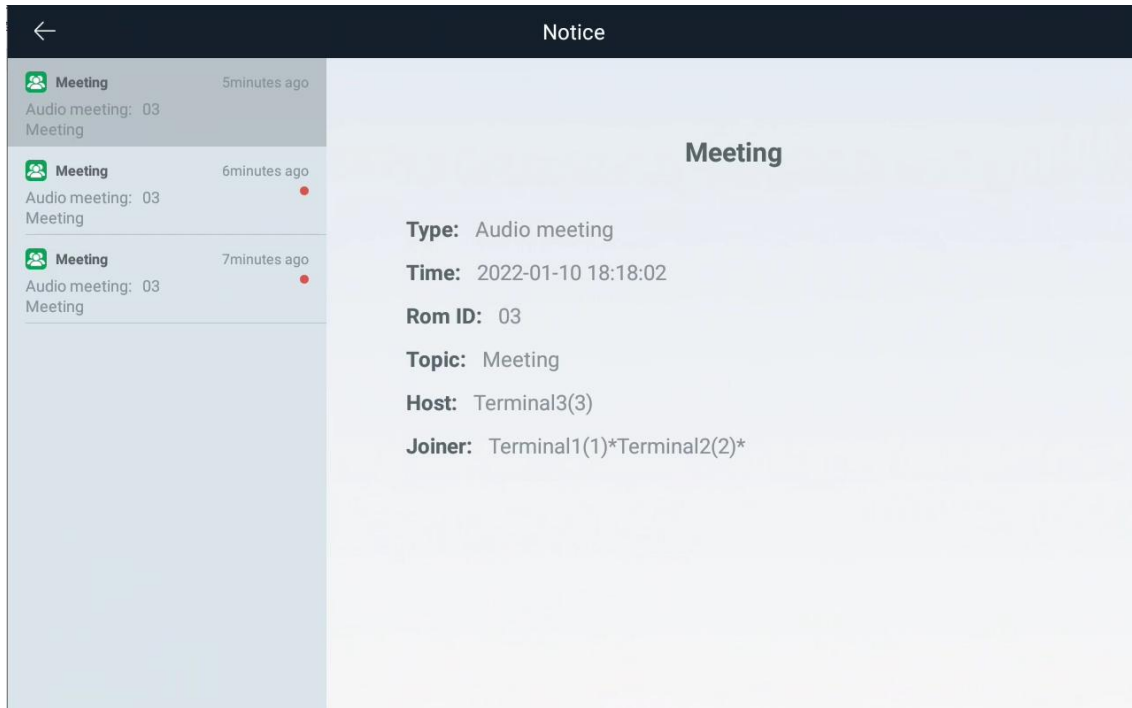
Cancel

Save

## (2) Meeting notice/meeting reminder


If you enable the meeting scheduling function and set the meeting notification function on the [Conference Template] of server, the device receives the meeting notification 15 or 30 minutes before the meeting starts. The meeting notification function supports message notification and ring notification. You can tap the notification icon  in the lower left corner of the screen to view the specific meeting notification.





(3) Video melting screen (not supported for audio conference)

If the meeting melting screen and the meeting melting screen mode are set in the service software [Conference Template] (the video can be displayed in 2, 4 or 9 grids).

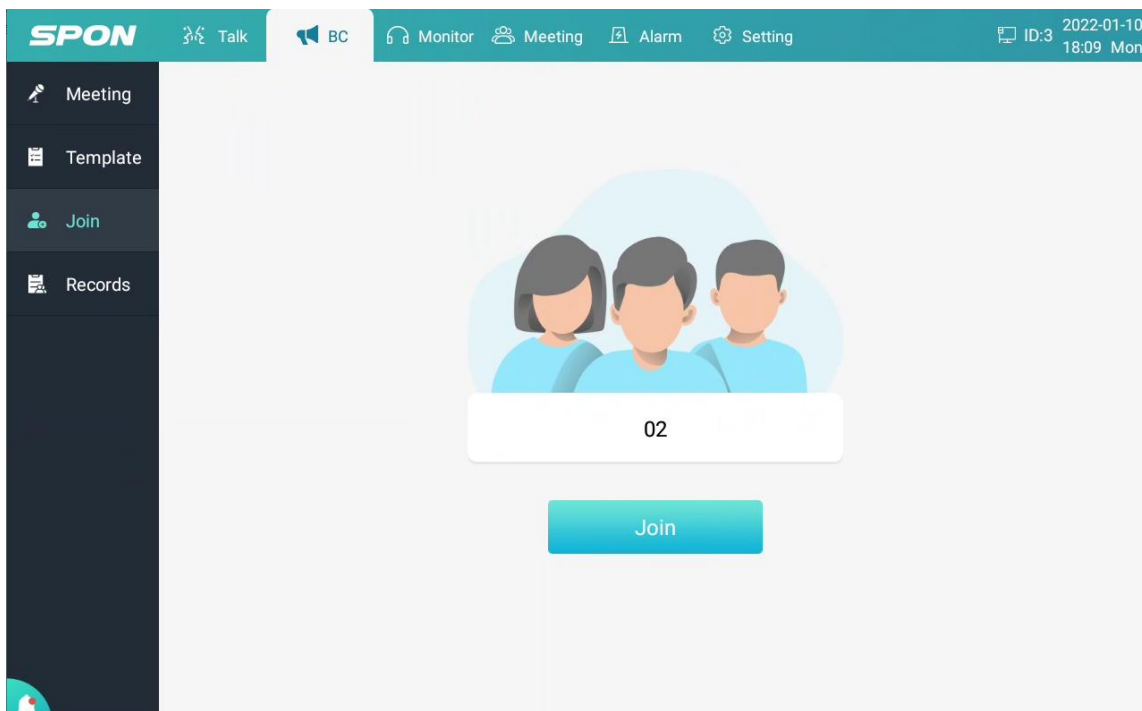
After the meeting starts, click the icon  in the upper right corner of the video. The video screen is displayed in the video melting mode set by the server.

**Note: Video melting screen applies only to video conferences created using service software's Conference Template.**

### Join the conference

Click the "Join meeting" button and input 0+ conference room ID number to apply to join the conference .

After receiving the apply for joining the conference, the host can choose to "agree" or "refuse" to join .

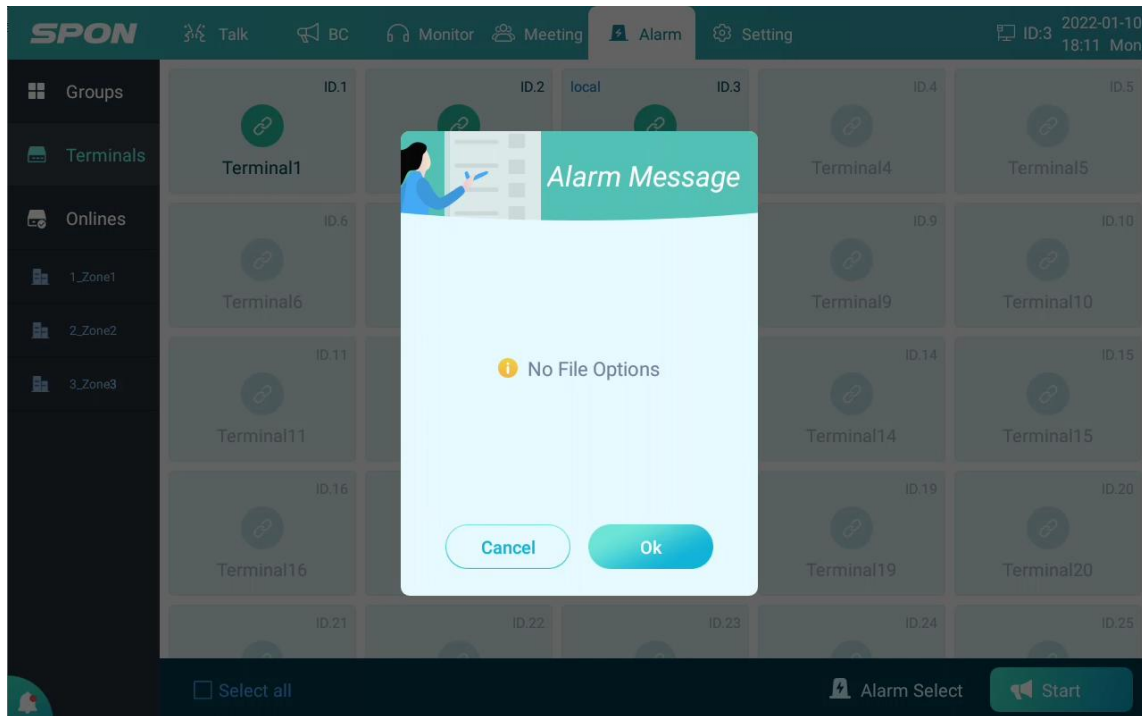


## Alarm

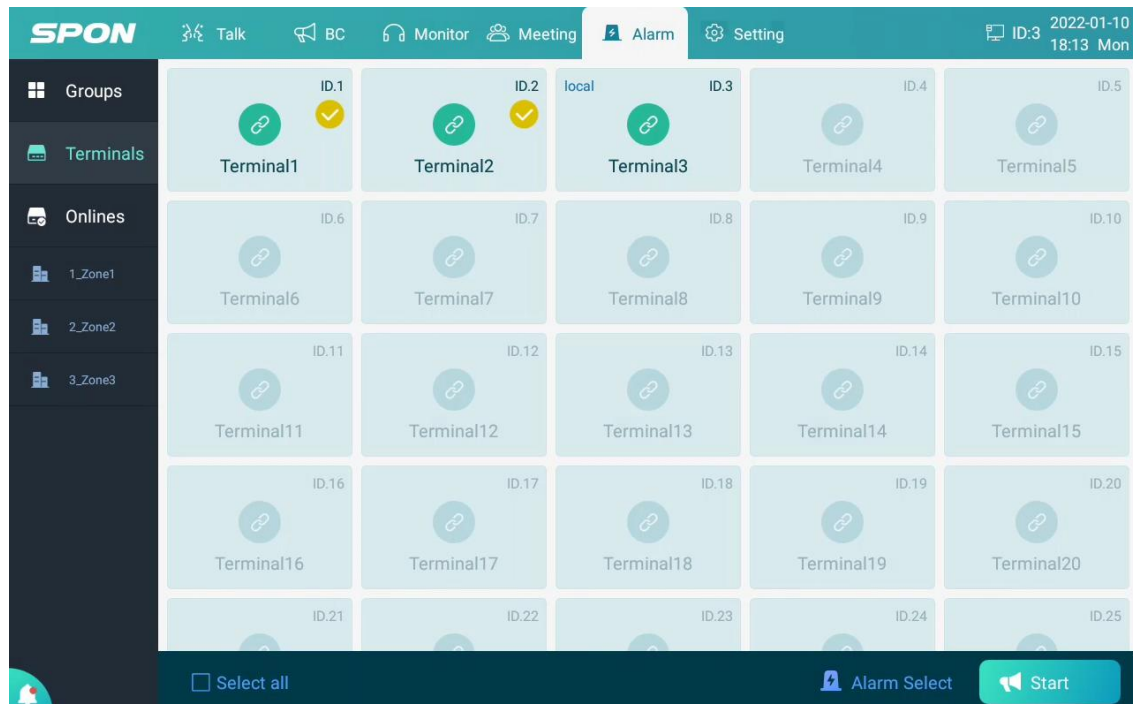
**Alarm:** initiating an alarm action to trigger the audio file preset by the target terminal or the partition play server .

The alarm operation mode is as follows:

- (1) enable the alarm module on the [Settings] - [Function] interface of the device. (Alarm module does not display by default)
- (2) In the alarm module, check the target terminal or partition to receive the alarm, then press the "Alarm Select" button, select the alarm audio file (note: the audio file comes from the server media library, please add the audio file in the "Media " of the server software in advance), and press "OK".



- (3) Press "Start" button to initiate an alarm, and the target terminal will play the preset audio.



- (4) Stop alarm: Press the "Stop" button to stop the alarm. Otherwise, the file will play in a loop.

## Settings

Click the setting, input the terminal password (default is 123456), which can be used to set related parameters such as network parameters and function parameters.(Advised to change passwords periodically to ensure security)

Please enter your password:

○ ○ ○ ○ ○ ○

1 2 3

4 5 6

7 8 9

0

## System Information

Set the IP address、default gateway、subnet mask .etc network parameters of IP network visual control host ,after settings click save ,restart to take effect .

**Note:** In network parameters, the IP address of the host cannot be the same as that of other terminals. The default IP address is 192.168.1.101.

System info	IP set mode	static <a href="#">↗</a>
Network	Device IP	192.168.4.24
Local video	Default gateway	192.168.4.1
Function	Subnet mask	255.255.255.0
System tool	DNS1	192.168.4.1
Favorites	DNS2	114.114.114.114
BC Favorites	MAC address	F4:15:35:02:13:C0
	System version	20211115
	Soft version	V1.0.0_20211115[Ctm_HS_EN]

Save

## Network parameters

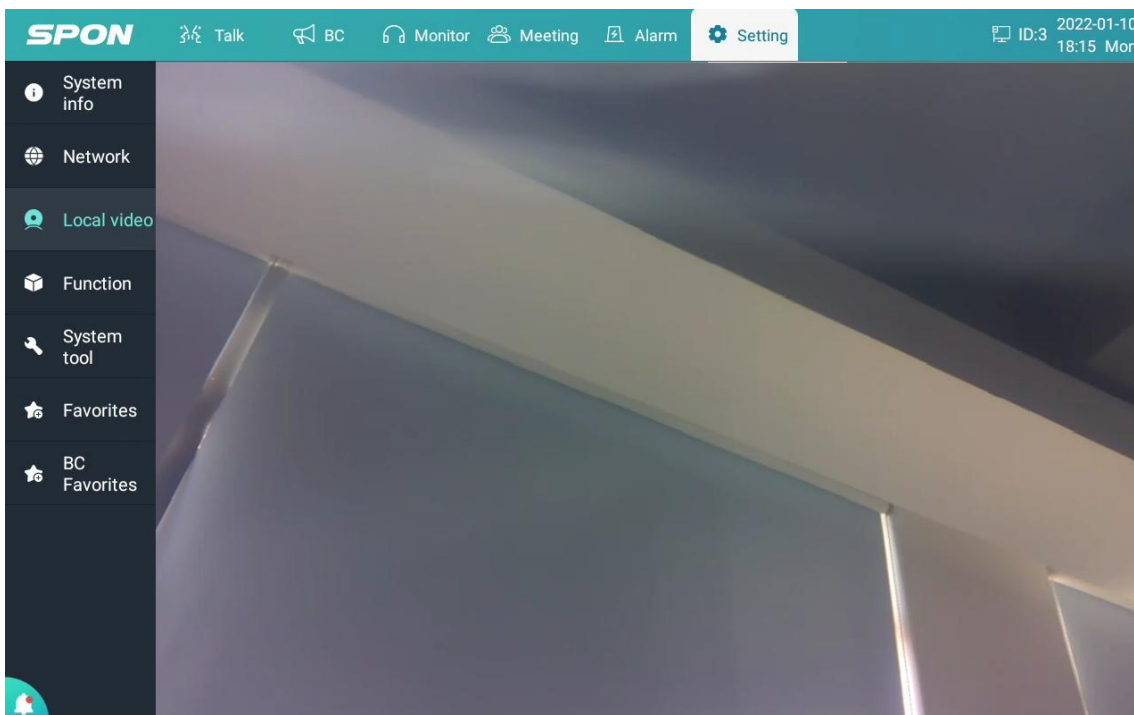
Set the server-related parameters for the IP network visualization control host to login, The device ID, server IP, input gain param and intercom echo cancellation parameters can be set in the server parameters. After settings click save ,restart to take effect.

Parameter	Value
Device id	3
Device SIP port	5060
SIP server ip	192.168.4.101
SIP server port	5060
SIP server http port	80
Mixer server ip	192.168.1.13
Face server ip	192.168.1.13
Face server port	85
Input gain param	3

Save

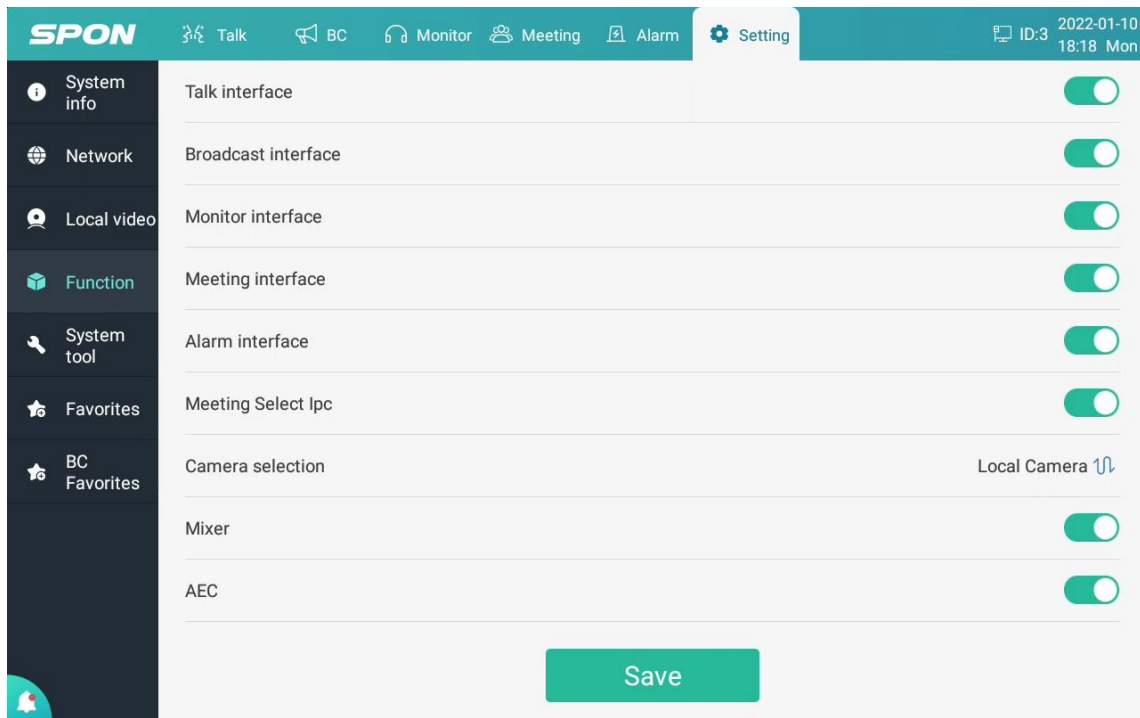
## Local Video

View local video and adjust the camera angle to view the adjusted video.



## Function settings

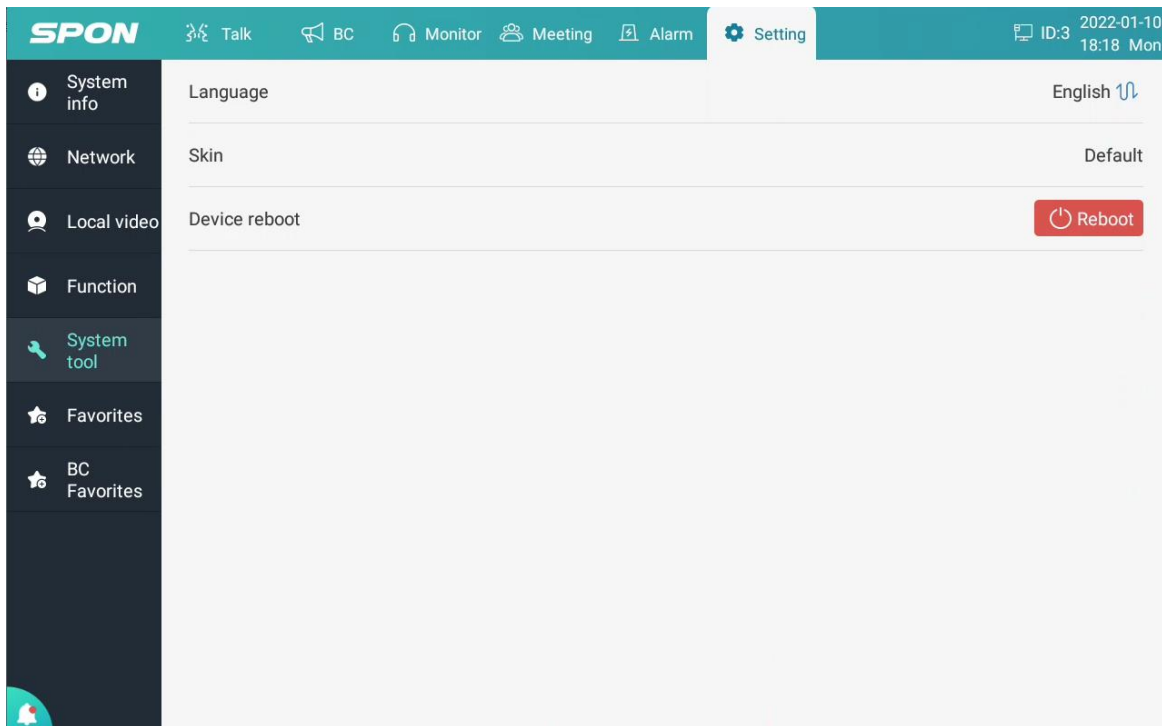
Setting whether the intercom interface, broadcast interface, and monitor interface ,meeting interface,alarm interface,display and other functions. It will be effective after click save.



### System tool setting

System language: Support Chinese and English, click "Switch language" button to switch.

Reboot device: Click "Reboot" button to restart device.

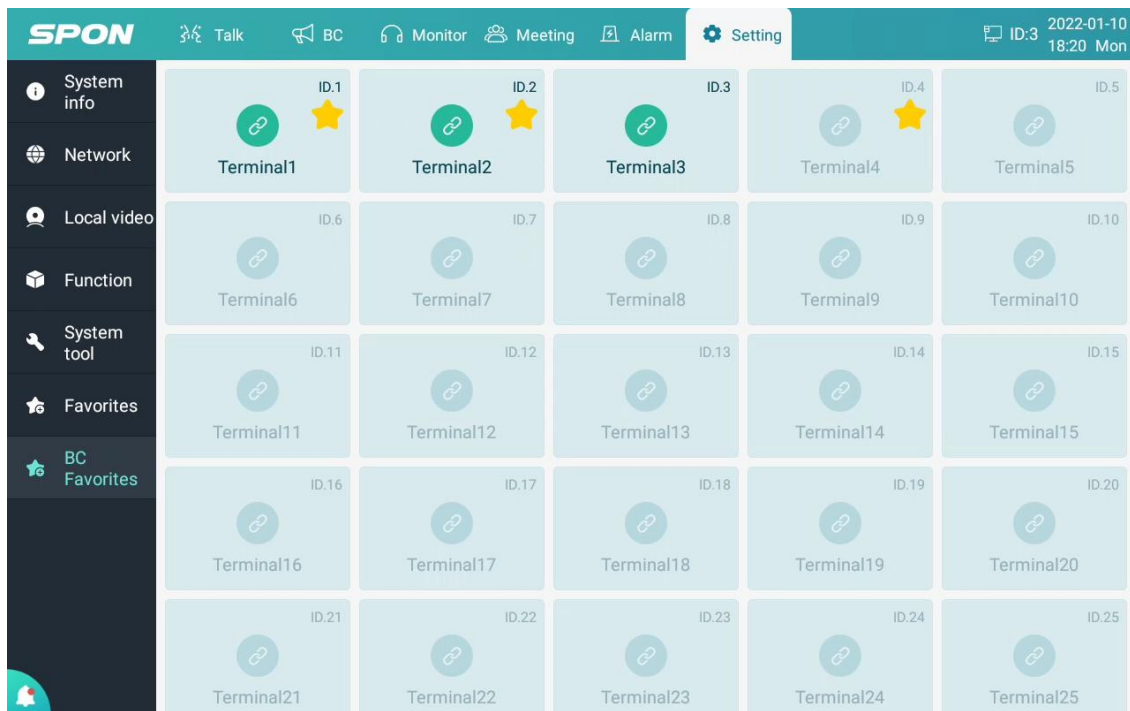


### Add favorites

User can add some frequently called terminals to the favorites, and the collected terminals can be displayed in the intercom interface favorites, and user can use the favorites to quickly initiate intercom to the target terminal without searching for the terminal in the terminal list.

Directly click on the target terminal to collect (the yellow heart shape is displayed below the terminal ID after selection), and it will be effective after saving.

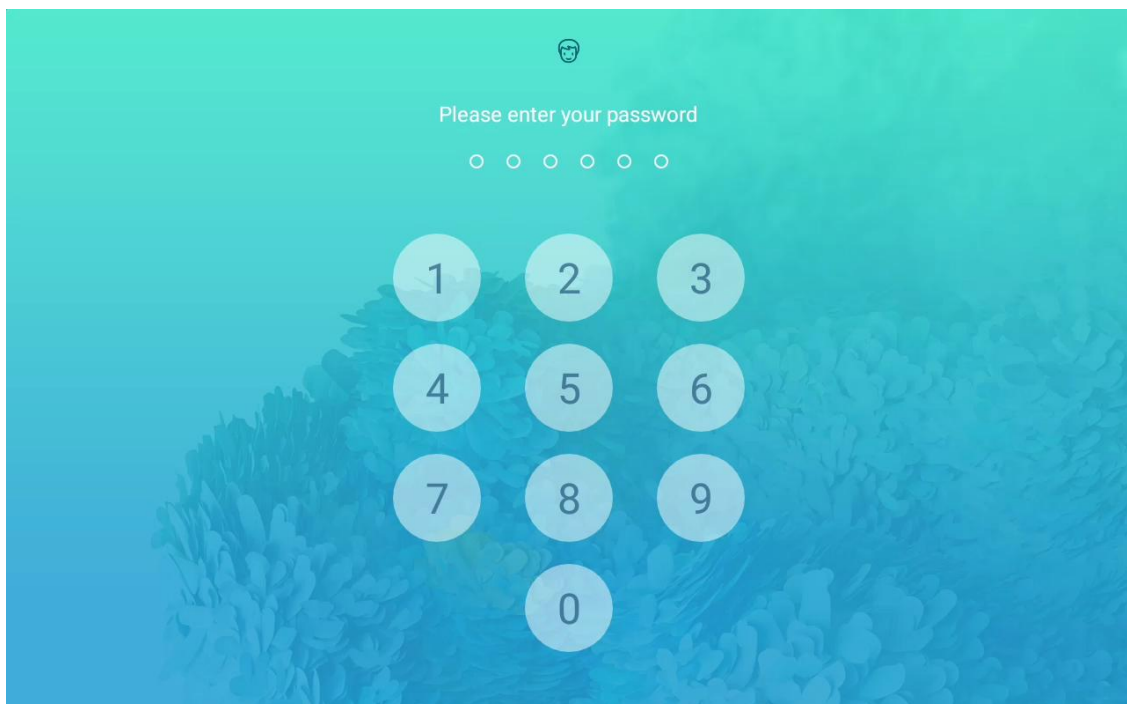




### BC favorites

### Screen Lock

User can enable the screen-lock function in the webpage “Basic settings”-”System parameters”. After the screen is locked ,you need a password to unlock the main interface(The default password is 123456)





## Fault exclude

### IP network visualization control host can not log in to the server normally?

1. Check if the service software and the main control unit are normally turned on. Before you open the service software, you need to turn off all firewalls (including the firewall that comes with the system and other firewalls included in the anti-virus software).
2. Check if the network connection is normal. After the terminal is powered on, the green indicator of the network port is always on. At the same time, the orange indicator light flashes briefly or rapidly, indicating that the network cable is hardwired. If the green indicator of the network port is not lit, there is a problem with the hard connection of the network. Check the network cable and switch connected to the terminal to see if it is working properly, damaged or badly connected.
3. Check the IP settings of the terminal. Check whether the terminal ID, service IP, local IP, server port, and gateway IP are set correctly.

### The video of IP network visualization control host can not be saw during intercom?

1. Check whether the display video in the function parameters of the IP video intercom paging console is open or not.
2. Adjust the camera angle of the IP video intercom paging console. Select local video in the settings to check whether there is video. If there is no video, please adjust the angle of the camera until the video screen appears;
3. Check whether the video of IP video intercom paging console in the intercom has been closed.

### Display failed call target when the intercom was initiated?

This unit is not registered or the other terminal is not registerd.

### The intercom or broadcast module is not display?

Switch to the Device "Settings"- "Function Settings" page to check whether related modules are disabled or on the device Web page to check whether related modules are disabled.

### The indicator light of the mic rod is not light during intercom or broadcast?

- 1、 Check whether the intercom or broadcast input mode is set to line input on device webpage.
- 2、 Whether PTT mode is selected during intercom;

### Unable to get the IP through DHCP?

Check whether the DHCP server exists on the network.

### Unable to initiate offline intercom?

- 1、 If you use the dialpad to initiate an offline call, check whether the input format of the target terminal is correct (ID@IP must be used).
- 2、 If you initiate a call on the Offline Terminal page, check whether the IP address and port number are correctly configured in "Terminal Settings" - "Offline Parameters" on the web page.
- 3、 The peer terminal does not support offline intercom.

# Copyright statement

---

## Copyright

The manual, which is created or developed on the basis of SPON copyright, is the intellectual property of SPON. Without prior written consent by SPON, any reproduction, modification, or retransmission, in any form or by any means, is illegal and strictly prohibited.

In accordance with relevant laws, translation and conversion are contained in reproduction.

Only for private use, downloading and printing of the manual is not prohibited when it is spreading on internet and media.

No part of the manual is allowed to be reproduced or used for commercial purpose. And SPON shall take no responsibility for any losses or damages caused by the illegal reproduction and conversion of the manual.

## Warranty

The manual is subject to modification, and there is no further notice if it is modified. Accurate statement, information and suggestion are provided in the manual to the best. But any expression or implication are not guaranteed by SPON, and users bear full responsibility for the application of product.

SPON made no guarantee about the manual, including but not limited to any contained marketability or specific guarantees. SPON bears no responsibility for any indirect or incidental losses caused by improper use of the manual.



Wechat

SPON Communication Technology Co., Ltd.  
www.spon.com.cn  
Service Hotline: +86-400-823-2588  
Reserve the amendment right without notice

