

User Manual



Digital IP Network Paging Microphone TCI-IP508S (Built-in Server)

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Safety Instructions

1. Read these instructions, retain and follow these instructions, heeding all warnings.
2. Please install the equipment according to manufacturer's instructions.
3. Do not install the equipment near any heat source, such as radiators, heat storage devices, stoves and other heating equipment.
4. Do not expose the equipment to water leakage or splashing water environment
5. Do not place any dangerous source on this product (such as containers filled with liquids or lit candles, etc.).
6. Please use attachments/accessories specified by the manufacturer.
7. Prevent the power cord from being stepped on or squeezed; especially at plugs, power sockets, and equipment power cord outlets
8. Please unplug the power plug of the product during lightning weather or when it is not used for long time.
9. Please clean the dust on the product, power plug, and socket regularly.
10. All maintenance should be performed by qualified maintenance personnel. Servicing is required when the product has been damaged in any way, such as the power cord or plug is damaged, liquid has been spilled on the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

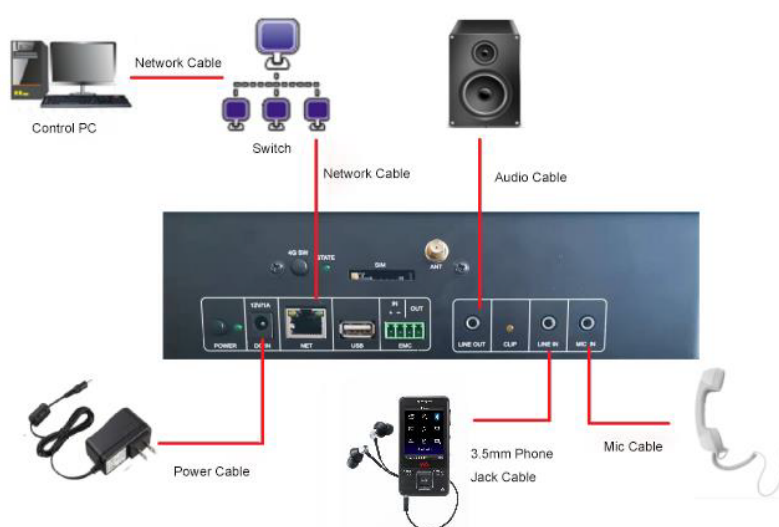
Notes

- If you find any of the following abnormal conditions during use, please turn off the power immediately, pull out the plug quickly and contact your nearest dealer. Do not continue to use the machine until the problem is solved, as it may cause fire or electric shock.
- If you notice smoke or a strange smell coming from the unit.
- If water or metal objects fall into the unit.
- If the unit is dropped or the casing is damaged.
- If the wire is damaged (the wire core is exposed, the wire is broken, etc.).
- If a fault is found (no sound).
- Because the machine contains high-voltage parts, to avoid fire or electric shock, the casing of this machine must not be opened. If you have any problems, please notify your nearest dealer.
- Never place cups, bowls, vases, or other objects containing liquids on the unit. If liquid is accidentally spilled into the machine, it may cause fire or electric shock.
- Never expose the unit to rain or any humid or water-prone place. It may cause electric shock or fire.
- Never put metal objects or flammable objects, nor coins, into the ventilation openings on the machine cover, as this may cause fire or electric shock.
- Please do not place heavy objects on the machine to avoid personal injury or property damage caused by the machine slipping.
- Please do not continue to use the machine when the sound is distorted. This indicates a malfunction and may cause high temperature and fire inside the machine.
- If the machine needs to be cleaned due to long-term accumulation of dust, please notify your dealer to clean the machine regularly to avoid damage to the machine or fire.
- The product is Class I equipment, and the power supply of the equipment must be connected to a power socket with a grounding device to ensure that the equipment is fully grounded.
- This product uses the power plug or appliance input socket as the disconnection device from the grid power supply. For safety reasons, it must be disconnected when necessary.
- If the panel of this machine is upgraded without further notice, please refer to the actual product for specific conditions.

Product Description

Product overview

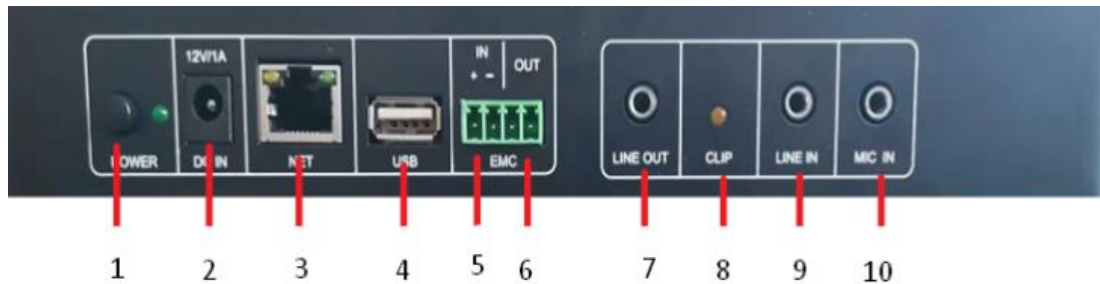
The IP paging microphone is the core control device of the IP broadcast and intercom system. It can initiate paging calls to all broadcast terminals in the system, and two way intercoms can be carried out between microphones. The equipment adopts a desktop design, integrated metal molding technology, exquisite and beautiful. 7 inch true color LCD touch screen, easy to operate. It is mainly deployed in the control center or the leader's desk and are used for broadcasting and intercom within the system. The system connection is as shown in the figure:



Features

- 1.Supports dual-mode calls, both hands-free and no-hands-free: external goose-neck microphone, built-in speaker, supports hands-free calls; with microphone interface, external microphone, dual-interface headset, for non-hands-free calls.
- 2.Equipped with a 7-inch true color LCD display, supports touch operation, and can directly configure the IP address and view the terminal status.
- 3.Supports network search configuration, no need to know the terminal IP address, direct addressing configuration.
- 4.Support network paging and two-way intercom functions.
- 5.Supports media library on-demand and U disk on-demand.
- 6.Comes with a precise time correction chip, which can be used to adjust the time automatically or manually.
- 7.Media files can be uploaded directly from the USB flash drive or through PC software
- 8.It has a monitoring function for monitoring the environmental sounds collected by other terminals.
- 9.Supports static IP. The local IP address is the IP address of the broadcast server. It can span network segments and routes, and is easy to configure and use.
- 10.Comes with a 3.5mm standard audio interface, which can be connected to a dedicated microphone to facilitate the expansion of non-hands-free calls and for private calls.
- 11.Supports one local line output and can be expanded to an external power amplifier.
- 12.It has a broadcast function and can be used for general examinations or radio broadcast needs.
- 13.Supports scheduled point viewing, and can view all scheduled points of this account.

Interface Instruction



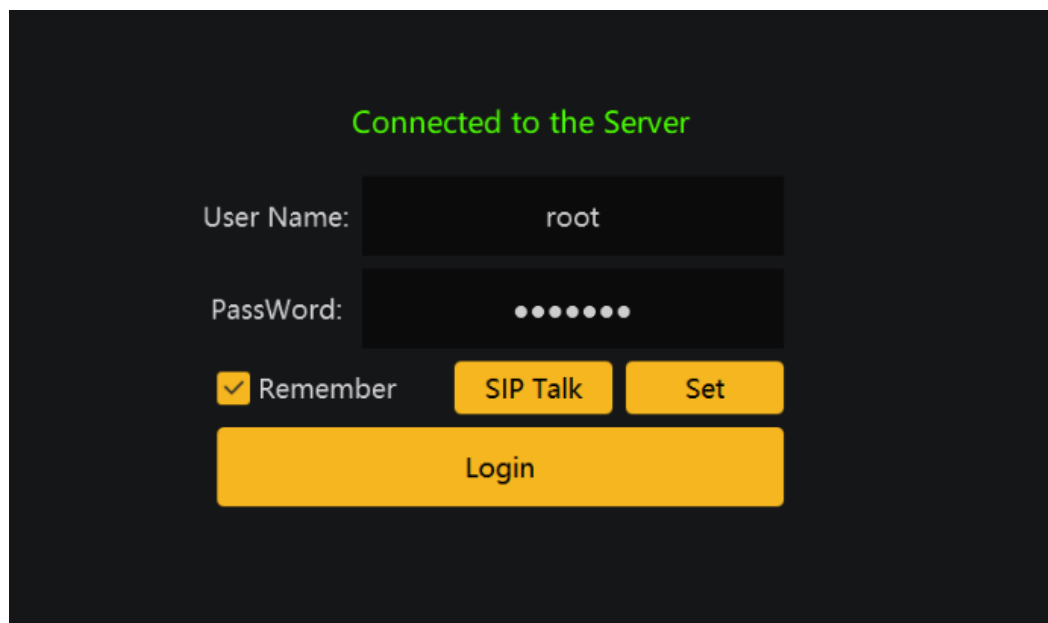
- 1.Power switch
- 2.DC12V power adapter interface
- 3.Network cable (LAN)
- 4.USB2.0 interface
- 5.Short-circuit input interface
- 6.Short-circuit output interface
- 7.Line out interface
- 8.Lost frame indicator light
- 9.Line in interface
- 10.Mic interface

Technical Parameters

- Power: DC12V/1A
- Audio format: MP3,MP4,
- Working temperature: 0℃~50℃
- NET: 100M Ethernet
- Screen: 7-inch RGB ---800*480 touch capacitive screen
- USB: USB2.0 high speed interface
- Rated power: 4W
- Audio bit rate: 16bit
- Frequency response: 20Hz~20KHz(-3dB)
- THD@1W: ≤1%
- SNR: >70dB
- Sampling rate: 48000KHz
- LINE IN level: 250mV (standard 3.5mm phone jack)
- LINE OUT level: 1.2V (standard 3.5mm phone jack)
- Max power consumption: 5W
- Built-in speaker: 8Ω/2W
- Transmission rate: 10/100Mbps
- Protocol: TCP/IP、UDP。
- Network delay: ≤50ms
- Dimension: 250*150*75mm

Microphone Interface Instruction

1. Login Interface



The login interface includes: entering user name, entering user password, server connection status display, whether to remember the password, system settings, login and SIP Talk.

<1> When the server connection status shows: Connected to the server, you can log in successfully. Otherwise, please enter the login settings and check whether the server IP and port are entered correctly.

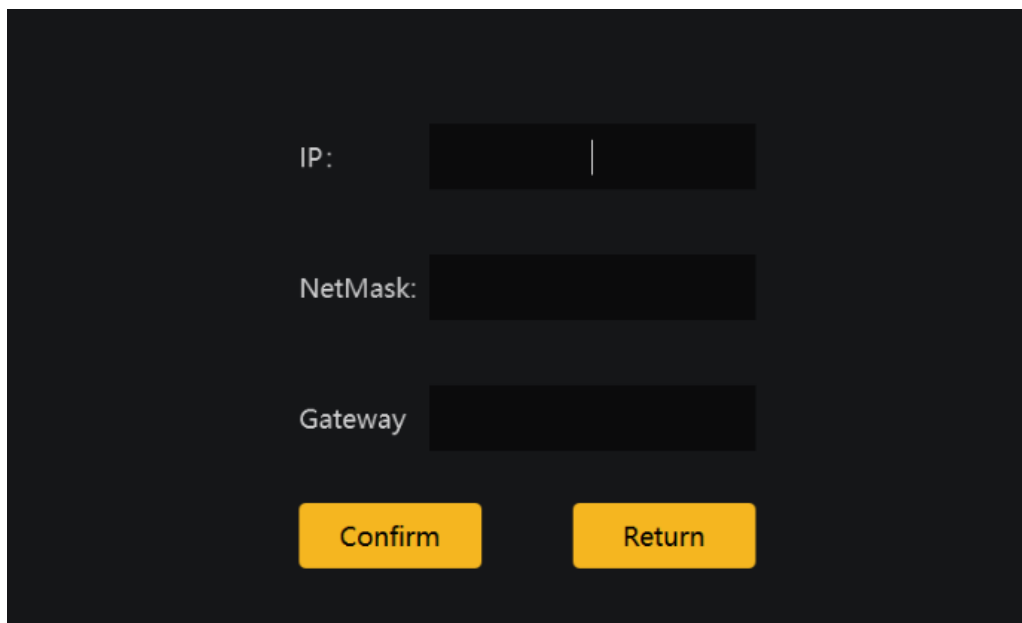
<2> Click "Setting" to enter the system settings page.

<3> Click Remember Password. The next time you start the software, the username and password from the last login will be used.

<4> Click Login and enter the correct username and password to enter the homepage of the system. After entering the wrong username or password 5 times, you will not be able to log in **within one minute**.

<5> Optional SIP version, click to enter the SIP operation interface

2. System Setting



The image shows a system setting interface with a dark background. It contains three input fields for configuration: 'IP:', 'NetMask:', and 'Gateway'. Below these fields are two yellow buttons labeled 'Confirm' and 'Return'.

The system interface includes: local IP settings, confirm, return.
After modifying the local IP, netmask and gateway, the system will automatically restart.

3. Main Function Interface

The main functions include: status, play, paging, monitoring, intercom, lines, task information, and settings.

Status Interface Function Details:

User: root1

Connected2

Idle3


Idle

Mon 2025/11/1013:36:064


5

Task


Setting6




Status




Play



Paging




Monitor




Intercom

No.	ID	Name	Task	Volume	Zone
1	5767169	Self	Idle	100	Default
2	6815745	Ternimal-680001	Idle	100	Default
3	6881280	Ternimal-690000	Idle	100	ZoneSet



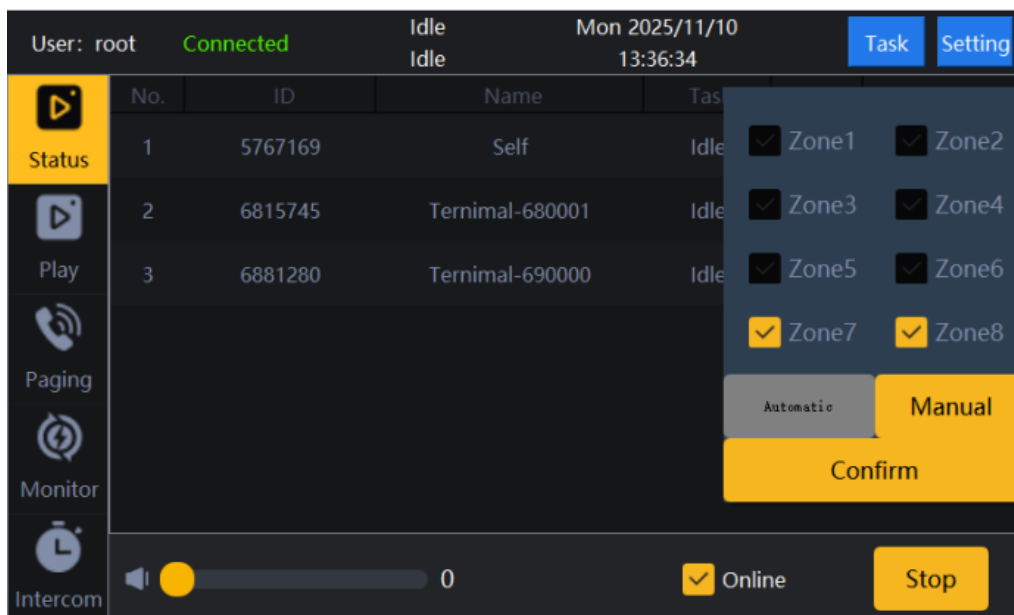
0



Online

Stop

- <1> Indicates the currently logged in user;
- <2> Indicates the server connection status;
- <3> The top indicates the local collection status, and the bottom indicates the playback status;
- <4> Indicates the server time;
- <5> Task view button;
- <6> Basics settings button




- <1> Volume adjustment: The volume of the terminal can be adjusted in any state, including the volume when idle.
- <2> Online: You can click this checkbox to switch between online and offline device viewing.
- <3> Stop: If you have permission, you can stop any task of the selected device.
- <4> Zone settings: Offers both manual and automatic modes.
- <5> Manual Mode:

1. When enabled, the system will force the specified zone to be turned on or off manually.
2. When a task is initiated, the device will follow the default settings of manual mode.
3. If zone settings in manual mode are adjusted during task execution, the device will respond in real time and synchronously change the on/off status of the corresponding zone.

Play Interface Function Details


User: root **Connected** Idle Idle Mon 2025/11/10 13:37:22 Task Setting

No.	ID	Name	Task	Volume	Zone
1	5767169	Self	Idle	100	Default
2	6815745	Ternimal-680001	Idle	100	Default
3	6881280	Ternimal-690000	Idle	100	ZoneSet

Intercom  0 **MediaPlay** **UPlay** **Stop**

User: root **Connected** Idle Idle Mon 2025/11/10 13:37:48 Task Setting

No.	ID	Name	Task
1	5767169	Self	Idle
2	6815745	Ternimal-680001	Idle
3	6881280	Ternimal-690000	Idle

Intercom  0 **MediaPlay** **UPlay** **Stop**

☒ Zone1 ☒ Zone2

☒ Zone3 ☒ Zone4

☒ Zone5 ☒ Zone6

☒ Zone7 ☒ Zone8

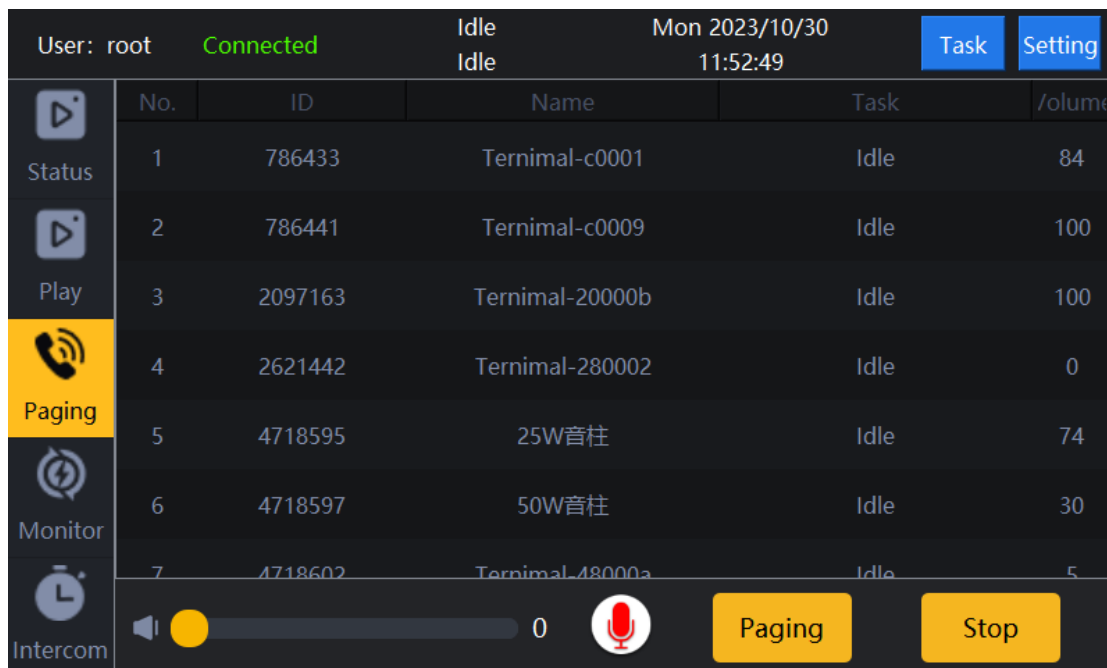
Confirm

- <1> Play: If you select a device in the display settings in the local settings, all devices will be displayed in a table, and you can slide up and down and select groups.
- <2> Zone Play: Click Setting to switch to Local Interface, you can select Group, then all groups will be displayed in a table. You can slide up and down and select the group.
- <3> Zone Settings: Select "Zone Set" in the table to choose the corresponding zone for configuration. Playback will be based on the selected zone (if manual mode is enabled, the zone selected in manual mode will be used).
- <4> Media Play Click "Media Play" to enter the media file selection page. Select files from the media library for playback. You can also set the playback mode, including sequential playback, sequential loop, shuffle playback, and shuffle loop.

File Select				Sequential Play
File Dir	No.	Name	Time	Size
Media	1	1k0dB.wav	01:00	43.95MB
TEST AUDIO	2	1K1V.wav	01:00	87.89MB
test	3	3K1V.wav	01:00	87.89MB
报警铃声	4	5K1V.wav	01:00	87.89MB
185	5	8K1V.wav	01:00	87.89MB
Private Lib.	6	10K1V.wav	01:00	87.89MB
		Confirm	Return	

- <5> USB Play: Click "UPlay" to enter the USB drive file selection page, and select a file from the USB drive to play.
- <6> Volume Adjustment: Adjust the volume of the device/group while it is performing a playback task.
- <7> Stop: Stop the playback task of the selected device/group.

Paging Interface Function Details



No.	ID	Name	Task	Volume
1	786433	Ternimal-c0001	Idle	84
2	786441	Ternimal-c0009	Idle	100
3	2097163	Ternimal-20000b	Idle	100
4	2621442	Ternimal-280002	Idle	0
5	4718595	25W音柱	Idle	74
6	4718597	50W音柱	Idle	30
7	4718602	Ternimal-48000a	Idle	5

<1> Paging: When the settings are displayed to select a device, device paging can be selected; when the settings are displayed to select a group, group paging can be selected. After selecting the device or group, click the paging button to perform the paging task.

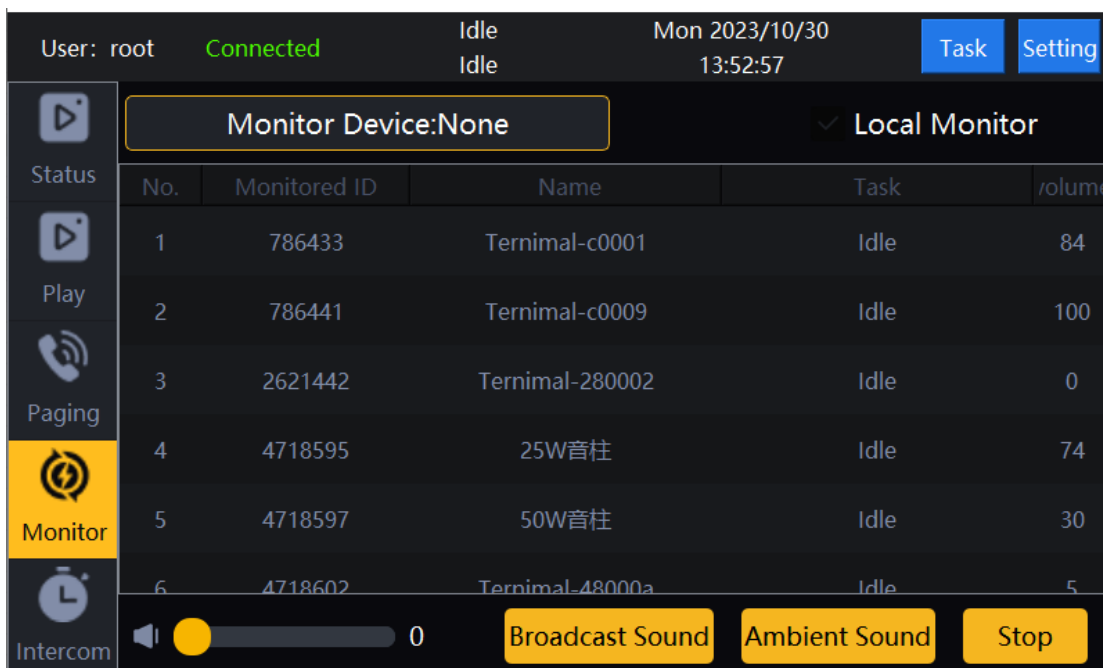
<2> Zone Settings: Select the zone set in the table to turn the corresponding zone on or off. When paging, the page will be executed according to the selected zone (if manual mode is set, the zone selected in manual mode will be executed).

<3> Stop: Click the Stop button to stop the paging task of the selected terminal or group.

<4> Volume adjustment: Use the slider to adjust the volume of the paging task of the selected terminal or group.

<5> Mute button: Click the mute button to turn off the collection volume of the local microphone.






Monitor Interface Function Details



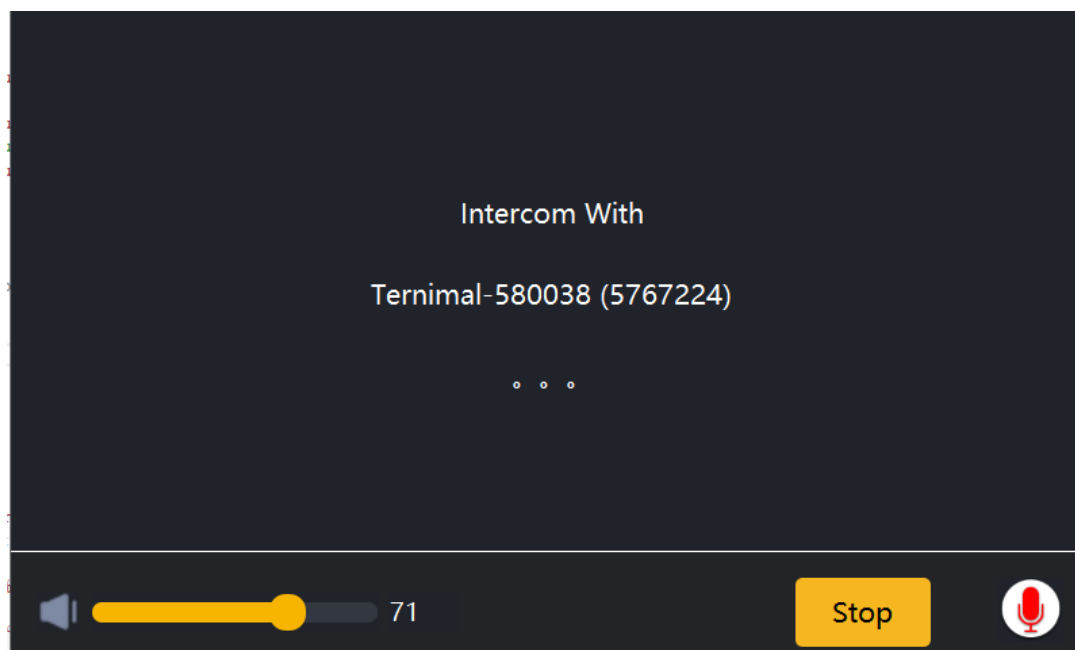
No.	Monitored ID	Name	Task	Volume
1	786433	Ternimal-c0001	Idle	84
2	786441	Ternimal-c0009	Idle	100
3	2621442	Ternimal-280002	Idle	0
4	4718595	25W音柱	Idle	74
5	4718597	50W音柱	Idle	30
6	4718602	Ternimal-48000a	Idle	5

- <1> Select the monitored device: display all devices in the area in a table, and you can slide up and down and select the device
- <2> Monitoring device: After selecting the device to be monitored, click the monitoring device button, and a pop-up window of the device selection list will pop up. After selecting the monitoring device, click the OK button. If local monitoring is selected, the local machine will do the monitoring.
- <3> Volume adjustment: Re-select the monitoring device in the list of monitored devices to adjust the volume of the monitoring device.
- <4>. Broadcast sound: After clicking, listen to the playback sound of the monitored device.
- <5>. Ambient Sound: click to monitor the sound collected by the microphone or microphone of the monitored device.
- <6> Stop: Select the monitoring device in the list of monitored devices to stop the monitoring task.

Intercom Interface Function Details

User: root	Connected	Idle	Idle	Mon 2023/10/30 14:40:45	Task	Setting
	No.	ID	Name	Task	Volume	
Status	1	786439	Terminal-c0007	Idle	100	
	2	786441	Terminal-c0009	Idle	100	
Play	3	2097163	Terminal-20000b	Idle	100	
	4	4980740	中鸿达	Idle	39	
Paging	5	4980745	Terminal-4c0009	Idle	67	
	6	5767224	Terminal-580038	Idle	47	
Monitor	7	7602178	Terminal-740002	Idle	100	
						Intercom
Intercom						

Intercom: Select the device in the device selection list and click the intercom button to initiate intercom to the selected device and the intercom page will pop up.



<1> As the calling terminal page, this machine will display intercom information, volume adjustment, stop, and mute; as the called party, this machine will also add an accept button.

<2> Volume adjustment: adjust the intercom volume of this unit

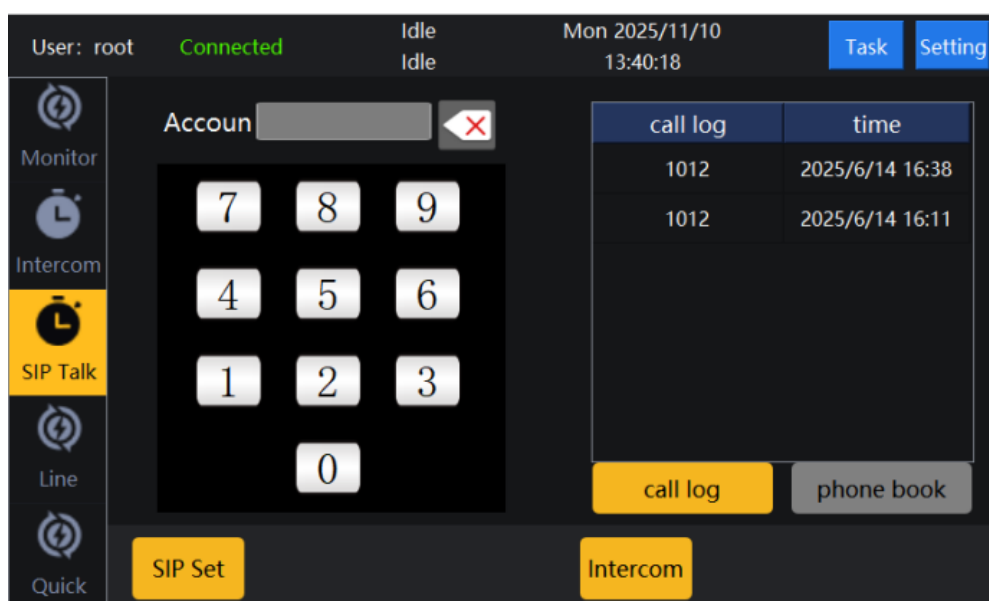
<3> Accept: Accept the intercom request initiated by the other party

<4> Stop: Stop the current intercom task

<5> Mute: Turn off the collection volume of the microphone of this machine

SIP Intercom Function Details

SIP features include dial-up intercom, call logs, phone book, and SIP configuration.



<1> Number Dial: Enter the SIP number on the dial and click Intercom to initiate a SIP call. Only numeric dialing is supported.

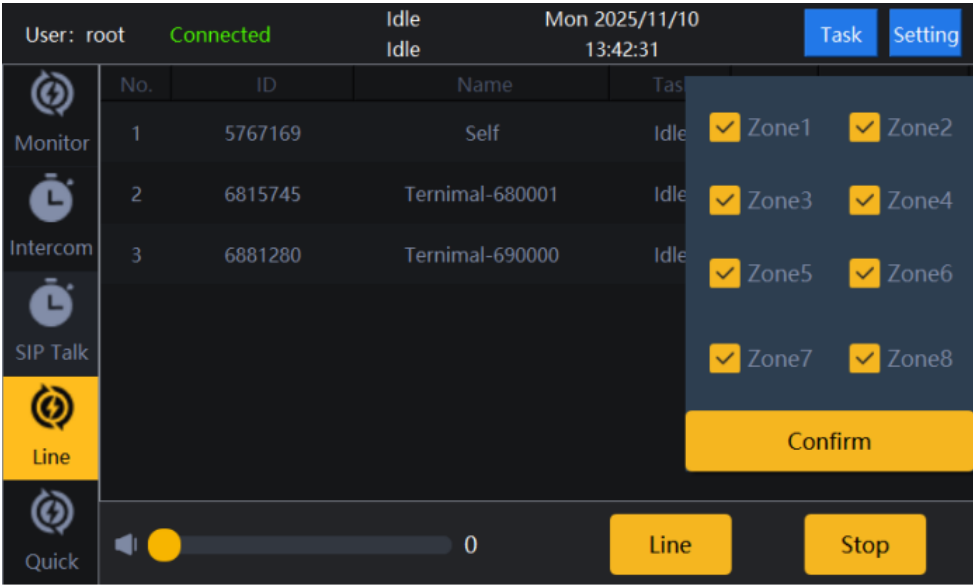
2. Call Log: The call log function allows you to view outgoing call records and also select a call to initiate a SIP call.

3. Phone book: The phone book allows you to view saved contacts and also select a contact to initiate a SIP call.

SIP configuration includes setting the SIP server's IP address, SIP port, transport protocol, Listening mode, and SIP account and password.

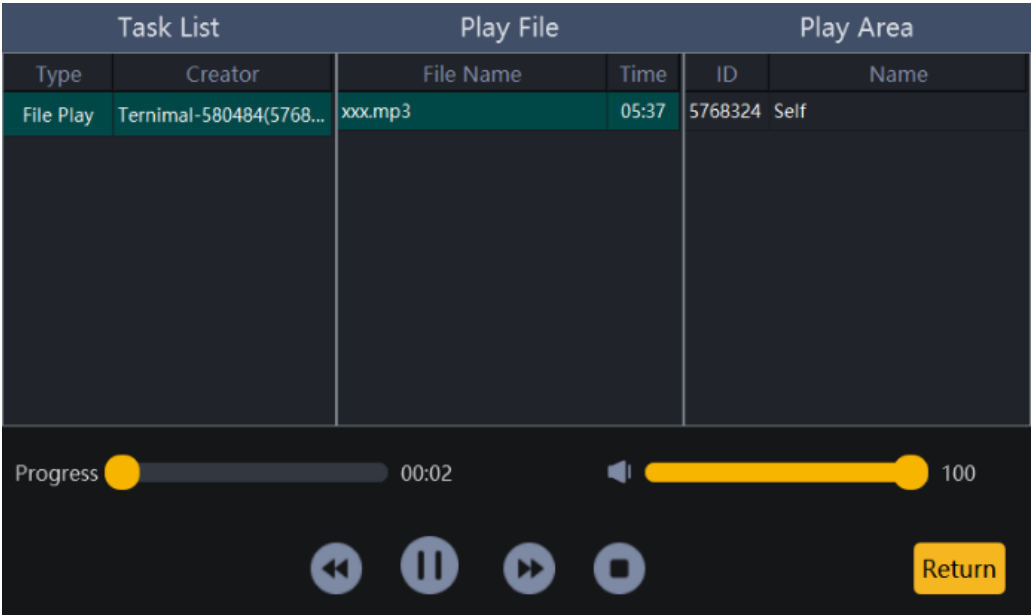
Line Interface Function Details

User: root	Connected	Idle	Idle	Mon 2025/11/10	Task	Setting
				13:41:57		
Monitor	No.	ID	Name	Task	Volume	Zone
Intercom	1	5767169	Self	Idle	100	Default
SIP Talk	2	6815745	Ternimal-680001	Idle	100	Default
Line	3	6881280	Ternimal-690000	Idle	100	ZoneSet
Quick	<div> <div>0</div> </div> <div>Line</div> <div>Stop</div>					



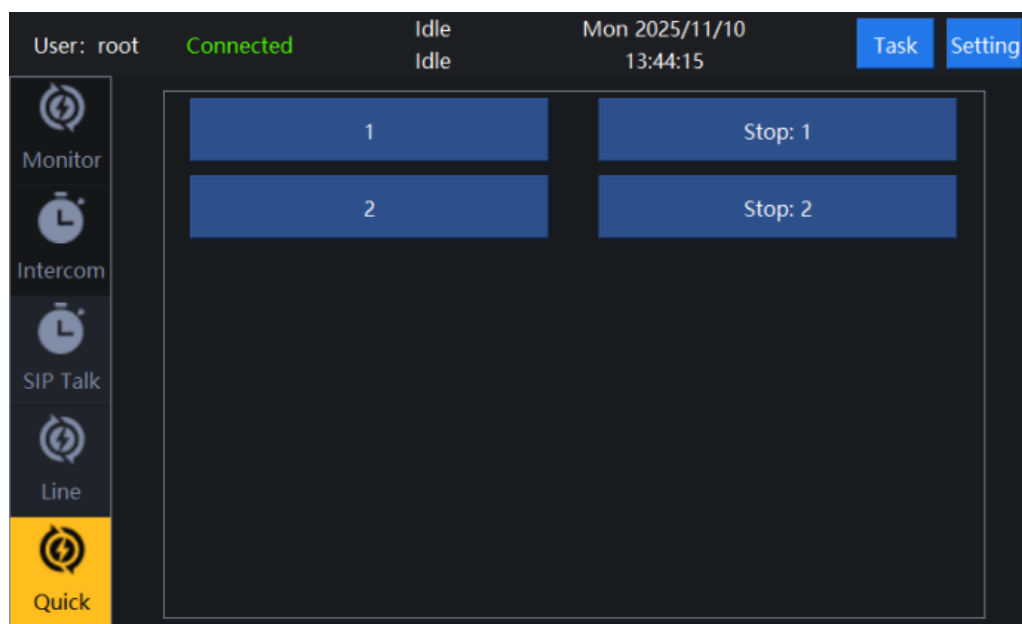
- <1> Line: When the display settings select the device, you can select the device for line collection; when the display settings select the group, you can select the group for line collection. After selecting the device or group, click the line button to perform the line collection task.
- <2> Zone Setting: Select the zone set in the table to turn the corresponding zone on or off. Line data acquisition will be performed according to the selected zone (if manual mode is set, the zone selected in manual mode will be used).
- <3> Volume adjustment: adjust the volume of the selected terminal line collection task.

Task Interface Function Details



- <1> Task List: Displays all tasks being executed by equipment in the entire area. You can view the task type and task creator information.
- <2> Play File: Select a task in the task list and the table will be refreshed. You can view the broadcast sound source and duration of the task.
- <3> Play Area: Select a task in the task list, this table will be refreshed, and you can see the playback device ID and name of the task.
- <4> Select a task in the task list and drag or click to adjust the playback progress and volume.
- <5> The four icon buttons in the middle and lower part are: previous song, pause/play, next song, and stop task.
- <6> Return: Exit the task information viewing interface

Quick Operation Interface Function Details



Click the button on the left to start executing the pre-set shortcut operation, and click the stop button on the right to stop the corresponding shortcut task.

System Setting Interface Function Details

Group	Group	Internal Devices			External Devices			
	test7	No.	ID	Name	No.	ID	Name	
Timing	test8							
Plan	test9							
Media	tt2							
IP Set	bb							
Local	cc							
	GROUP							
	addGroup11							
Return	New	Rename	Delete	<input checked="" type="checkbox"/> Move	<input checked="" type="checkbox"/> Copy	In	Out	Confirm

The system setting page includes group settings, timing settings, plan settings, media management, IP settings, local settings, and exit settings interface.

<1>The page is mainly divided into three lists: group list, internal devices, and external devices.

<2>Select a group in the group list, and the devices in the group will refresh the devices in the group, and the devices outside the group will be displayed according to the needs (if you select move: the ungrouped devices will be displayed; if you select copy: the devices already in other groups will be displayed device of)

<3>New: Click New to add a group, a new group pop-up window will pop up, enter the name and click to confirm.

<4>Rename: Click the rename button, and the rename group pop-up window will pop up. Enter the name and click OK.

<5>Delete: Click the Delete button and a confirmation window will pop up. Click Delete to delete the group.

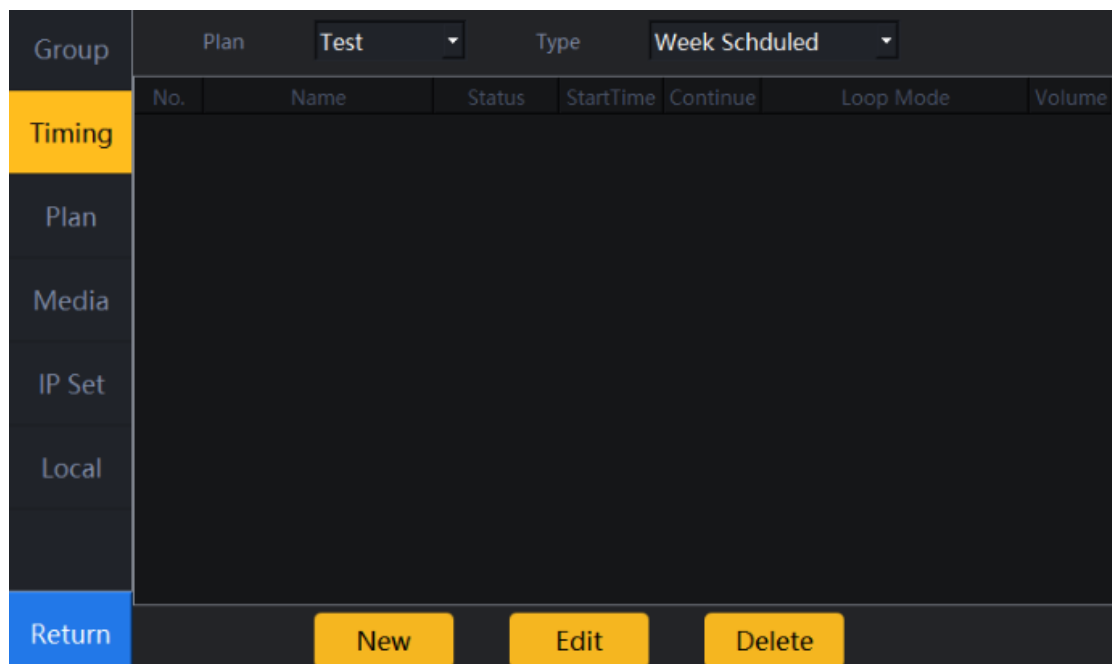
<6>In: Select the device in the device list outside the group, clickIn, and click Confirm to move the group outside the group into the group.

<7>Out: Select the device in the device list in the group, click Out, and click Confirm to move the device out of the group.

<8>Move: refers to moving ungrouped devices into the selected group

<9>Copy: refers to copying a device already in a group to another group, that is, a device is assigned to multiple groups at the same time.

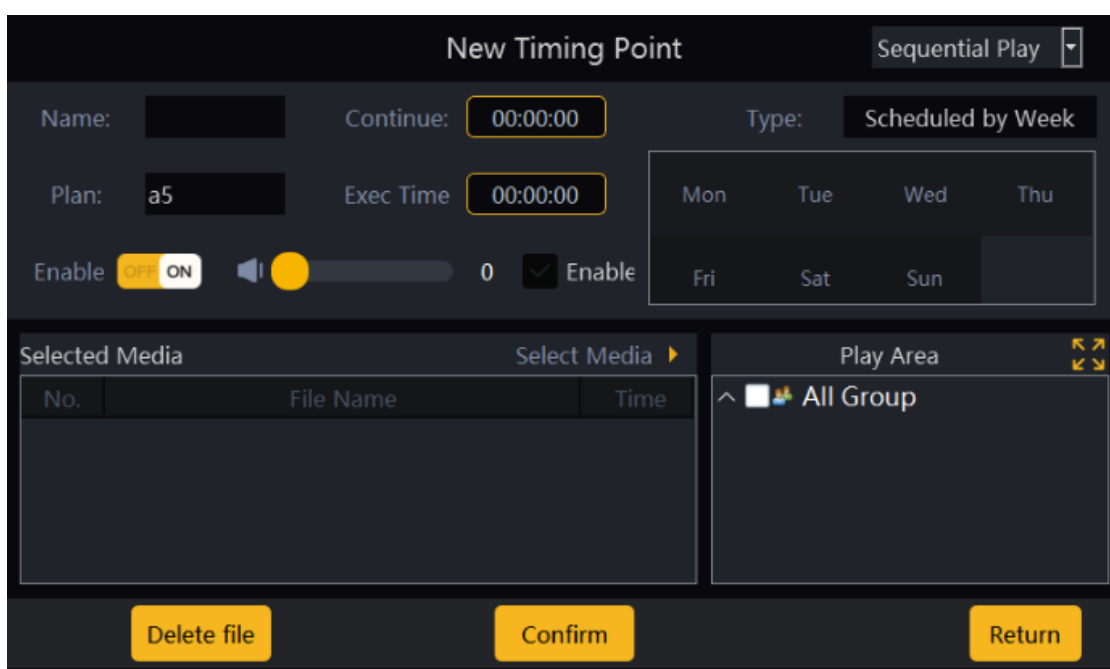
Timing Interface Function Details



The screenshot shows the 'Timing' interface. At the top, there are dropdown menus for 'Plan' (set to 'Test') and 'Type' (set to 'Week Scheduled'). Below these is a table with columns: No., Name, Status, StartTime, Continue, Loop Mode, and Volume. The 'Timing' menu item is highlighted in yellow on the left sidebar. Other sidebar items include 'Plan', 'Media', 'IP Set', 'Local', and 'Return'. At the bottom, there are three buttons: 'New', 'Edit', and 'Delete'.

The timing interface includes: timing plan selection under the logged in user, timing point type selection, timing point information list, adding timing points, editing timing points, and deleting timing points.

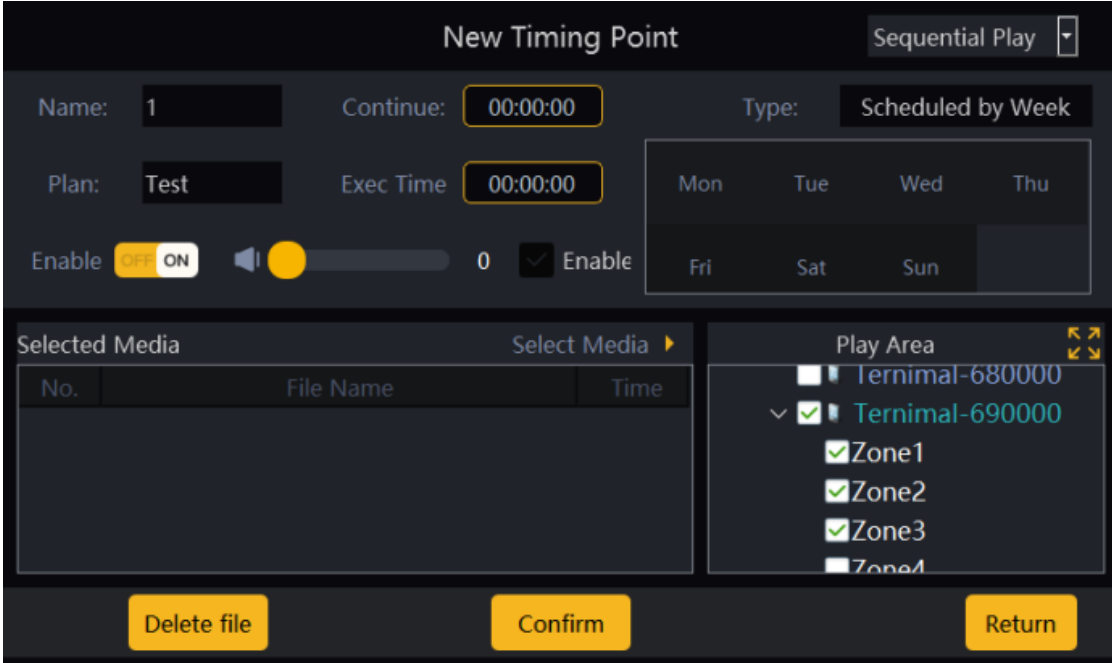
1. Plan and Type: As a deletion condition, the timing point information in the timing point information list can be refreshed according to different deletion conditions. Timing point types include: weekly timing, monthly timing point, single timing point
2. Delete: Select the timing point in the list and click Delete to delete the selected timing point.
3. New and Edit: After clicking, the time point new/edit page will pop up.



The screenshot shows the 'New Timing Point' form. It includes fields for 'Name', 'Continue' (00:00:00), 'Type' (Scheduled by Week), 'Plan' (a5), and 'Exec Time' (00:00:00). There is a 'Sequential Play' dropdown at the top right. Below the form fields is a grid for selecting days of the week (Mon, Tue, Wed, Thu, Fri, Sat, Sun). At the bottom, there is a 'Selected Media' section with a 'Select Media' button and a 'Play Area' section with a 'Play Area' button. The bottom navigation bar contains 'Delete file', 'Confirm', and 'Return' buttons.

The new timing point interface includes the editing of scheduled point task information.

1. Task name, plan name, timing point type
2. Continue: the duration of the scheduled task
3. Exec time: execution time of scheduled tasks
4. Play mode: mainly includes sequential play, random play, sequential loop, and random loop
5. Execution date selection: Select a specific execution date, such as Monday, just select Monday in the table. Multiple selections are available.
6. Enable: Enable/disable timing points. After disabling, timing points will not be executed. Only enabled timing points will be executed.
7. Volume: Click to enable the set volume as the task volume at the scheduled point; if not enabled, the volume when the device is idle will be used as the task volume.
8. Selected Media: select media files for scheduled playback
9. Play Area: Select the execution area of the timing point, which can be a device or a group.
10. Delete file: Move the selected media file out, and the file will not be played at this time. Note: If the scheme is disabled, timing points cannot be enabled; if you choose to loop playback sequentially or randomly, be sure to set the duration.
11. Zone Setting: Expand the corresponding device item in the playback area to select whether to turn the corresponding zone on or off, as shown in the image below.



New Timing Point Sequential Play ▾

Name: Continue: Type:

Plan: Exec Time:

Enable: ☐ OFF ☒ ON ☒ Enable

Mon	Tue	Wed	Thu
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

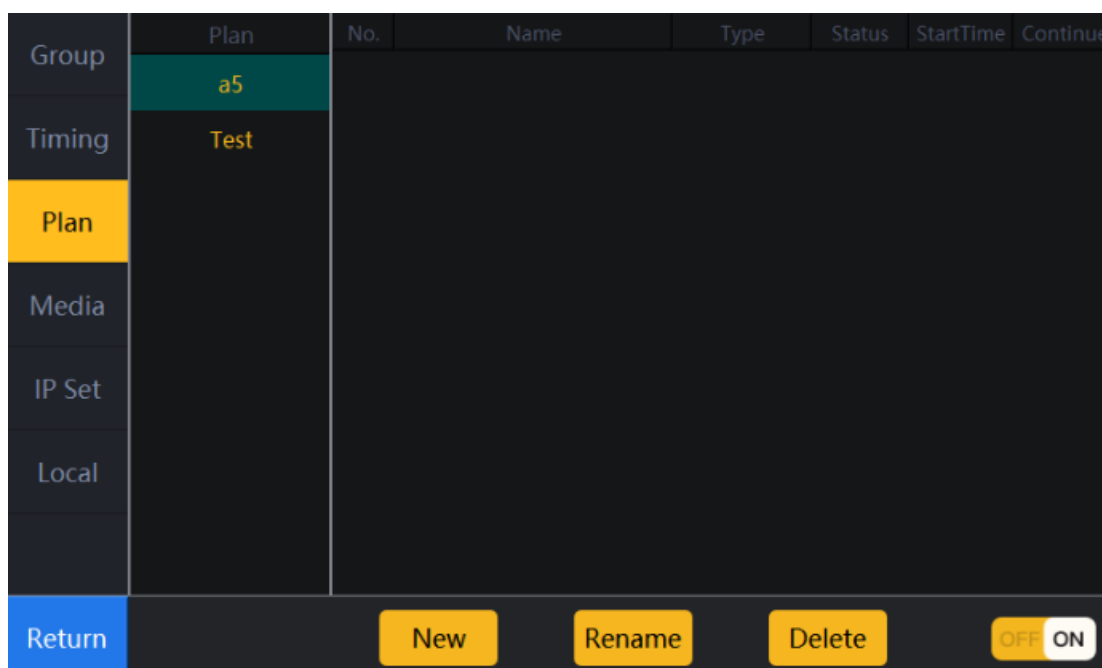
Selected Media Select Media ▶

No.	File Name	Time

Play Area ⌵ ⌶

- ☐ Ternimal-680000
- ☒ Ternimal-690000
 - ☒ Zone1
 - ☒ Zone2
 - ☒ Zone3
 - ☐ Zone4

Timing Point Schedule Interface



The Plan interface includes a list of plan information, a list of scheduled time points under the plan, adding a plan, renaming the plan, deleting the plan, and disabling/enabling the plan.

1. New: Click New, the new plan page will pop up, enter the name, and click Confirm.
2. Rename: Click Rename, and the rename plan page will pop up. Enter the name and click Confirm.
3. Delete: Select the plan and click Delete to delete the plan

Note: To disable or enable the scheme, all timing points under the selected timing point scheme will be disabled or enabled.

Media Interface Function Details

Group	Directory	No.	Name	Time	Size
Timing	Media	1	1k0dB.wav	01:00	43.95MB
	TEST AUDIO	2	1K1V.wav	01:00	87.89MB
Plan	test	3	3K1V.wav	01:00	87.89MB
Media	ala	4	5K1V.wav	01:00	87.89MB
IP Set	185	5	8K1V.wav	01:00	87.89MB
Local	Private Lib.	6	10K1V.wav	01:00	87.89MB
Return	<div> <div>Upload</div> <div>New Dir</div> <div>Delete Dir</div> <div>Rename Dir</div> <div>Rename File</div> <div>Delete File</div> </div>				

This interface includes file directory list, media file information list, file upload, add directory, delete directory, rename directory, rename file, delete file

1. Upload: Select the directory in the directory list and click Upload to upload the file from the USB flash drive to the selected directory.
 2. New Dir: After clicking, a window for adding a new directory will pop up. Enter the name and click OK.
 3. Delete Dir: Click to delete the selected file directory;
 4. Rename Dir: After clicking, a window to rename the directory will pop up. Enter the name and click OK.
- Note: Private libraries cannot be renamed or deleted.
5. Rename File: After clicking, a window to rename the file will pop up. Enter the name and click to confirm; pay attention to the suffix of the file.
 6. Delete File: Click to delete the selected file

IP Set Interface Function Details

Group	
Timing	10.248.6.222
Plan	IP: <input type="text"/>
Media	255.255.240.0
IP Set	NewMask <input type="text"/>
Local	10.248.6.1
	Gateway: <input type="text"/>
Return	Save

Local Interface Function Details

Group					
Timing	Screen save	30S	1Min	5Min	10Min
Plan	Server Time	2025-8-16 15:59:6		Time setting	
Media	Paging Ring:	Inherit Global		<input checked="" type="checkbox"/> Inherit Global	
IP Set					
Local	Display Set	Device	Group	USB drive set	
	Mixing	No Mixing	Mixing	Format USB drive	
Return	Sort	ID Sort	Name Sort		

This mainly includes screen saver time settings, time synchronization server, paging ringtone settings, display settings, mixing, sorting, and USB drive settings.

1. Screen saver time: can be set to 30 seconds, 1 minute, 5 minutes, 10 minutes
2. Time correction: the time can be set to the server and time correction chip, and synchronized to the terminal at the same time
3. Paging ring: You can set paging ringtone
4. Display settings: Selecting a device will display the device list on the VOD, paging, and line pages; selecting a group will display the group list on the VOD, paging, and line pages.
5. Set Mixing / No Mixing
6. Sorting Settings: Choose between sorting by ID and sorting by name
7. USB Drive Settings: Format USB drive



CAUTION: Do not open the equipment cover arbitrarily, so as not to electric shock. Please contact the professionals to maintain if necessary.