

NVS-IP100005PM IP Based Paging microphone with Built in Server User Manual



Thank you for using our public address system. Please read this User Manual carefully to make better use of this equipment



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Product Overview

The IP Based Paging microphone with Built in Server combines a public address server, a small mixing console, and a paging microphone into one high-performance, lightweight IP-based paging device.

There is no need to install a separate management programme for small projects because this IP Based Paging microphone's integrated web server can manage up to 30 IP endpoint devices. We can easily adjust the volume of each input channel independently because of its built-in ultra-compact mixing console, which can mix audio from 5 channels of external audio sources (including MIC, AUX1, AUX2, Bluetooth, and USB flash drive). This special feature makes this device an ideal choice for school broadcasting rooms and business internal PA stations.

It's often-used features as a streamlined IP-based paging device include emergency broadcasting, zone paging, initiate/receive intercom, and device monitoring.

IP Based Paging microphone with Built in Server offers a new, minimalistic design style. Glass and aluminium alloy hardware is integrated into the product shell's design. With its high-definition 4" digital true color capacitive touch screen, physical buttons and knobs, interactive GUI design that is user-friendly, and straightforward HMI (Human-Machine Interaction), this one-of-a-kind product can significantly enhance user experience while still ensuring the dependability and simplicity of use for the majority of its critical operations.



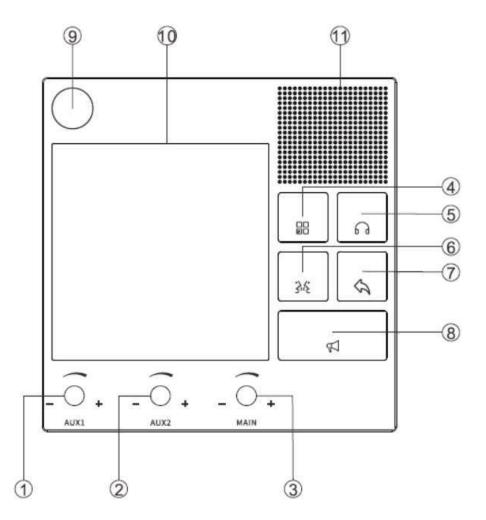
Product Features

- Professional paging mic design, high-grade aluminium alloy shell, sturdy and durable.
- High-definition 4" digital true color capacitive touch screen (resolution ratio: 480×480).
- Support making live paging announcement to all zones, designated zone or designated IP endpoint.
- Built-in 3W loudspeaker and unidirectional condenser microphone for live paging announcements, two-way hands-free intercom and audio monitoring.
- Built-in digital audio processor which can significantly improve noise reduction effect and audio quality.
- Built-in ultra-compact mixing console for audio mixing of 5 channels of audio sources (including MIC, AUX1, AUX2, Bluetooth and USB flash drive).
- Built-in web server for the management of maximum 30 IP endpoint devices.
- Support easy configuration and online firmware upgrade via user-friendly web page.
- Compatible with standard SIP protocol, can be registered on VoIP phone system (mainstream brand such as Cisco, Asterisk, Yealink, etc.) independently.
- Equipped with relay input (2-pin terminal block), which can be connected to external detection device (such as manual call point, heat/smoke/infrared detector, etc.) for triggering event-triggered emergency notification task automatically.
- Standard RJ45 Ethernet port, accessible to the system wherever Ethernet is available, supporting cross-segment and cross-router.



Hardware Interface Description

Front Panel



- 1. Volume Adjustment Knob 01 Adjust the volume of Aux Input 01.
- 2. Volume Adjustment Knob 02 Adjust the volume of Aux Input 02.
- 3. Main Volume Adjustment Knob

Adjust the volume of all input channels.

- 4. Shortcut Button Enter the functionality settings interface.
- 5. Monitoring Button

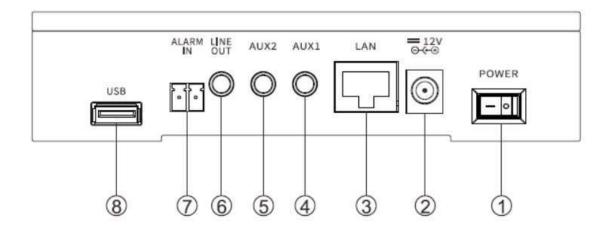
Enter the quick monitoring interface.

6. Intercom Button Enter the quick intercom interface.



- 7. Back Button
- 8. PA Button
 - Enter the quick broadcasting interface.
- 9. Gooseneck Microphone Socket
- 10.4" Touch Screen
- 11. Loudspeaker

Rear Panel



- 1. Power Switch
- 2. DC 12V/1.5A Power Input
- 3. RJ45 Ethernet Port
- 4. Aux Input 01 (3.5mm TRS Jack)
- 5. Aux Input 02 (3.5mm TRS Jack)
- 6. Line Output (3.5mm TRS Jack)
- 7. Relay Input (2-Pin Terminal Block)
- 8. USB Port



Quick Operation Guide

Settings



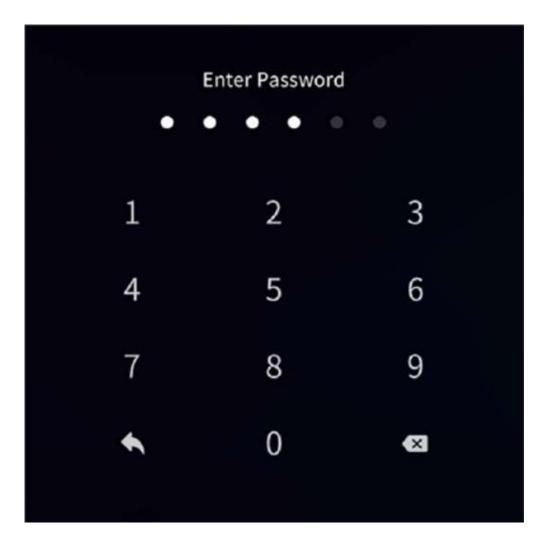
Swipe the touch screen to find the "Settings" interface.





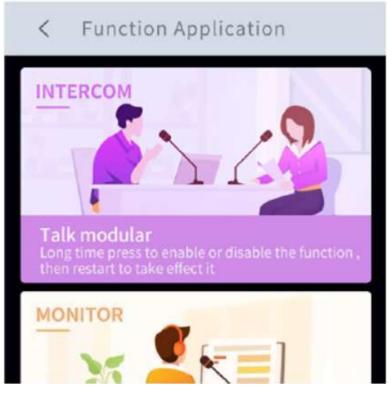
Enter "Functional Application" settings.



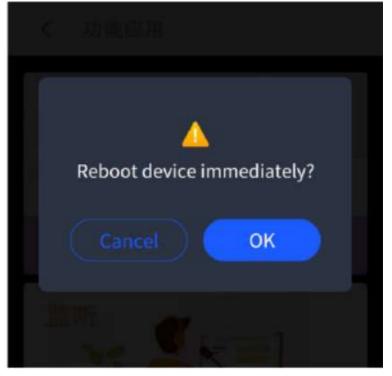


Enter the password to enter the "Function Application". (The default password is 123456)



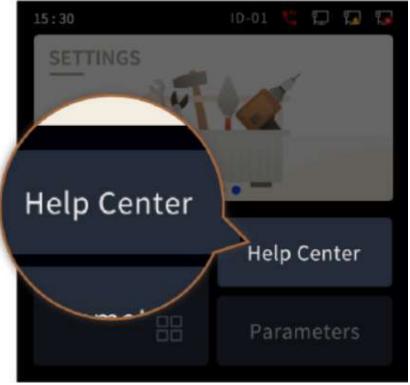


Press and hold to enable/disable certain functional module.

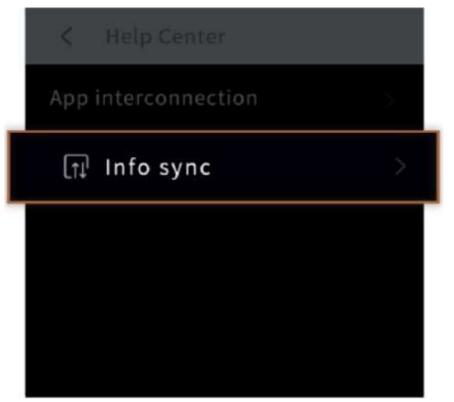


Press "OK" to reboot the device for the settings to take effect.



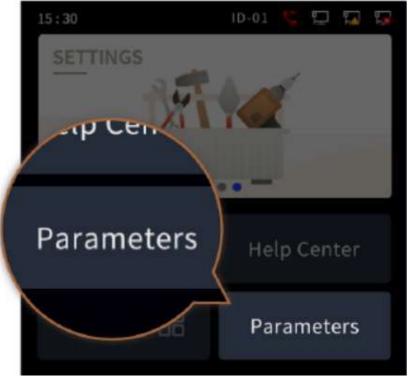


Enter "Help Center" settings.

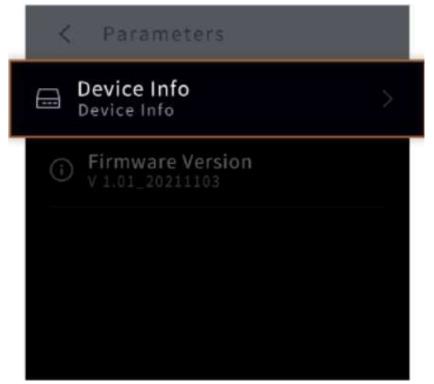


Enter "Info sync" settings.





Enter "Parameters" settings.



Press "Device Info" to check the network parameters of the device.



	Enter Password		
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Enter the password to enter the "Device Info". (The default password is 123456)

< Device Info	Save
Devcie ID	16
Server IP Address	192.168.1.122
Device IP Address	192.168.1.101
Subnet mask	255.255.255.0
Gateway	192.168.1.1

You can check and edit the network parameters here.



< Device Info			S	ave
Devcie	ID			16
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*	7	8	9	
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Press to edit certain parameter of the device.

< Device Info	Save
Devcie ID	16
Server IP Address	192.168.1.122
Device IP Address	192.168.1.101
Subnet mask	255.255.255.0
Gateway	192.168.1.1

Press "Save" once finish editing the parameters. The device will automatically reboot for the editing to take effect.



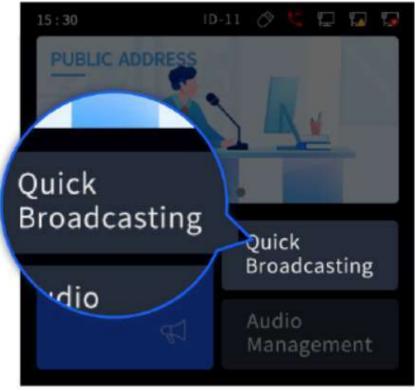
Page Broadcasting



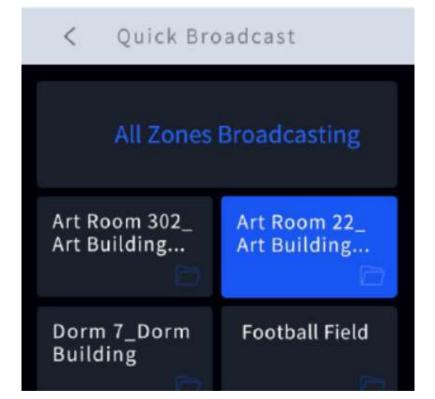
Emergency Broadcasting

Swipe down the touch screen to for emergency all-zone broadcasting.



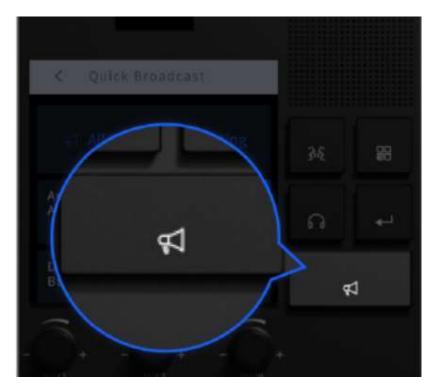


Press here to enter "Quick Broadcasting" menu.



Press "All-Zone Broadcasting" or specific preset shortcuts



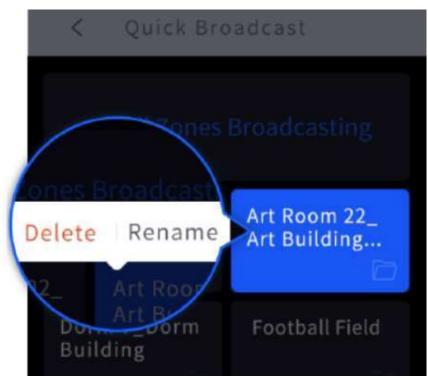


Press the physical broadcasting button on the paging console to make voice announcement or play background music to the chosen shortcut.



You'll enter the "Broadcasting" interface automatically, you can add music file or adjust volume of the input channels here.





On the "Quick Broadcasting" menu, you can press and hold specific shortcut to delete/rename it.

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You can use the keypad to input text to rename the shortcut.



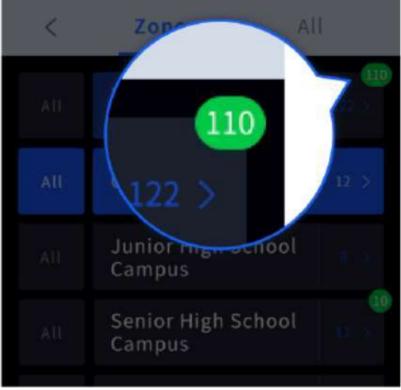


Press here to enter the "Directory" menu.

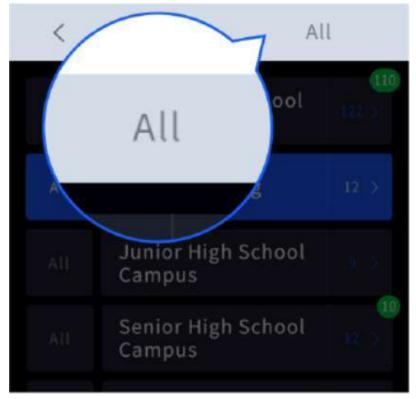


You can select specific paging zone here.





Here You can see the number of the selected IP endpoint devices.

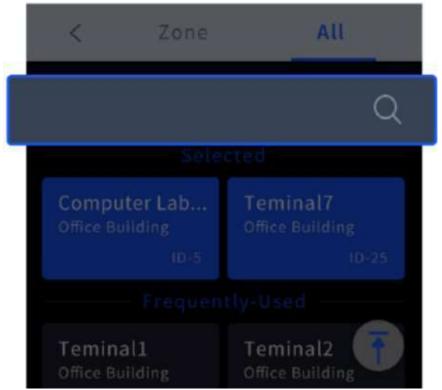


Or press here to see all the IP endpoint devices in the system.



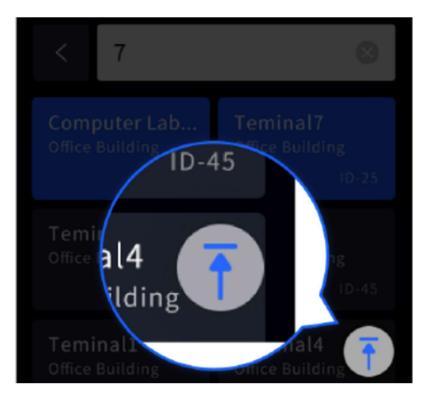


Here you can select certain IP endpoint devices for paging broadcasting

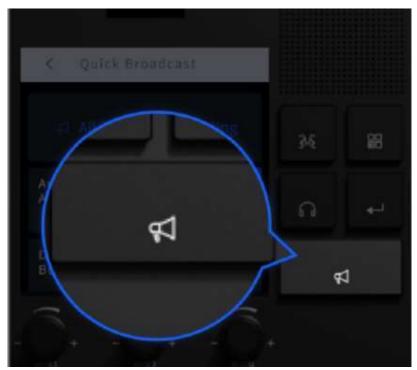


Or use the search bar to search specific IP endpoint device.



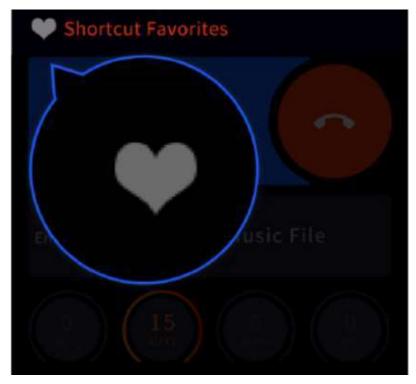


After selecting certain IP endpoint device, you can press here to place the selected endpoint device at the top of the device list.



Press the physical broadcasting button to make voice announcement or play background music to the chosen IP endpoint device.





Press the heart icon to add this endpoint device to the "Quick Broadcasting" shortcut menu.

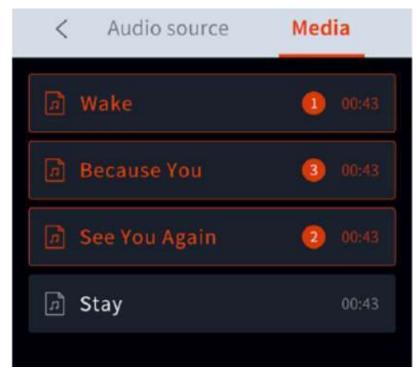


Press the volume knob to mute/unmute certain input channels (AUX1/AUX2/MAIN).





On the "Audio Source" interface, you can adjust volume of different input channels.



On the "Media" interface, you can see all the audio files stored in the inserted USB flash drive.

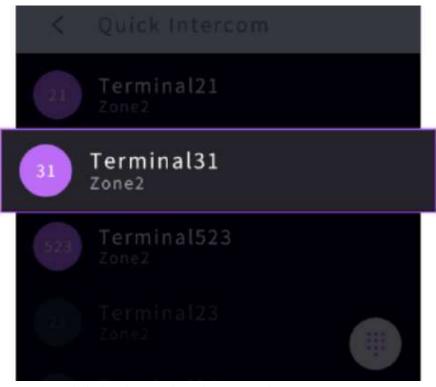


Intercom



Press here to enter "Quick Intercom" menu.



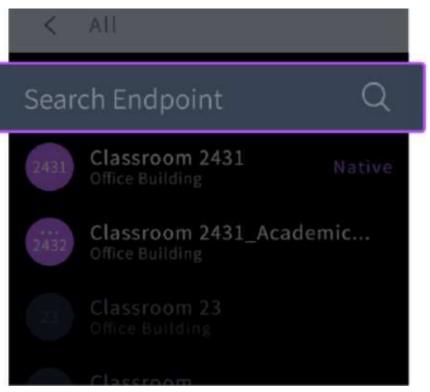


Click the device, directly initiate the intercom.

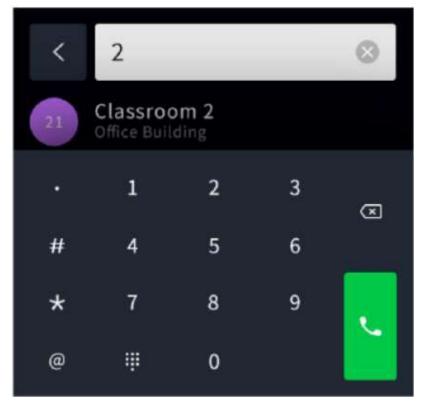


Press here to enter the "Endpoint Directory" menu.





Here you can use the search bar to search specific IP endpoint device.



You can press certain target endpoint device to initiate intercom directly.



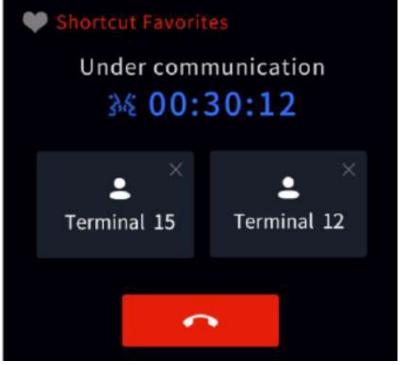


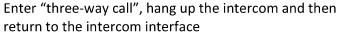
Initiating calling, waiting for the target device to be answered.

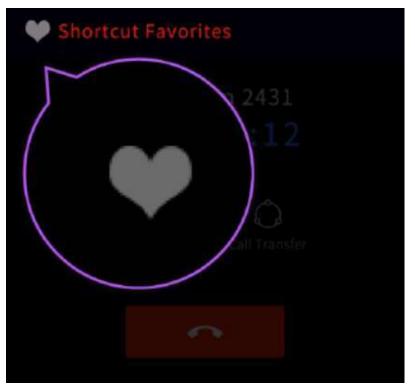


During intercom, click "Three-way Call".









Press the heart icon to add this endpoint device to the "Quick Intercom" shortcut menu.



Monitoring



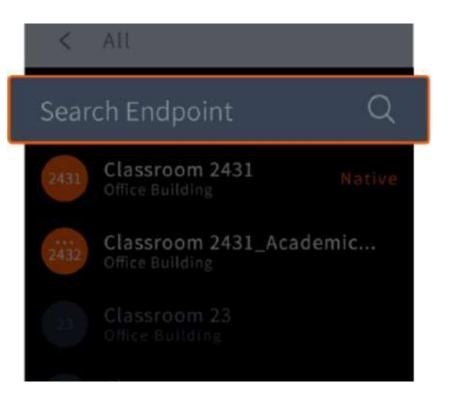
Press here to enter "Quick Monitoring" menu.



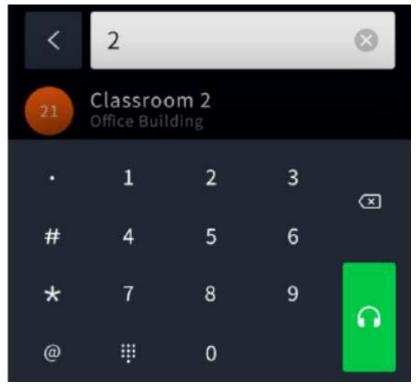


Press here to enter the "Endpoint Directory" menu.



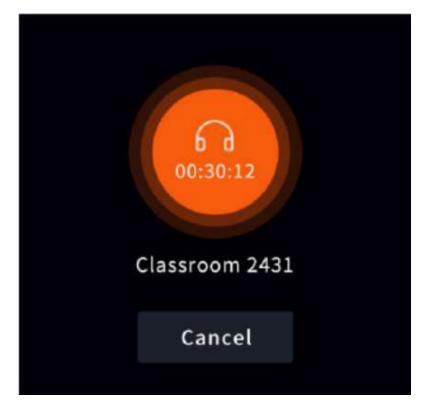


Here you can use the search bar to search specific IP endpoint device.

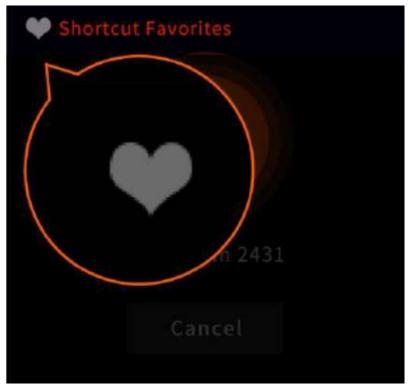


You can press certain target endpoint device to initiate monitoring directly.





Monitoring in progress, you can press "Cancel" to cancel the monitoring.



Press the heart icon to add this endpoint device to the "Quick Monitoring" shortcut menu



Built-in Web Server

Web Interface Login

After connecting IP Paging Console to a standard local area network via the RJ-45 Ethernet port on its bank panel, you can try to log in to the device's web interface.

(1) The web interface can be accessed by entering IP based Paging Microphone's IP address into a web browser (Microsoft Edge, Google Chrome, Mozilla Firefox, etc.).

Note: Default IP Address: http://192.168.1.101/



(2) Enter the username and password to log in.

It is highly recommended to change the default password after the first login, especially when the device is directly connected to public network.

Note: Default username and password are both **admin**.



IP Network Paging Microphone
.e 1 persone
A 1 Password
9 English -
Login

(3) Click the [Login] button to access IP based Paging microphone's web interface.

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Enable the Built-In Web Server

Enable the built-in web server function on" Basic Settings" - "Built-In Web Server", then click the [Save] button to save the settings.

After enabling the built-in web server function and rebooting the device, you can find the "Web Server" option on the left sidebar, you can access the setup interface of the built-in web server by clicking this option.

Note: After enabling the built-in web server function, if you still cannot find the "Web Server" option on the left sidebar, please try to refresh the web page, or try to clear browser cache and access the web interface again.





Basic Operating Instructions

1. Endpoint Information

You'll need to add the IP endpoint devices on the endpoint info interface, so that further operations can be executed.

Note: Maximum 30 ID can be added on the endpoint info interface, the largest ID which can be added here would be 1024.

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(1) Batch Add Endpoint Devices

You can batch add endpoint devices by clicking the [Batch Add] button. Here you'll need to input an initial ID, the web server will then add the ID of multiple endpoint devices in ascending order.



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(2) Add Endpoint Devices One by One

You can also choose to add endpoint devices one by one by clicking the [Add] button.

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Once the endpoint device has been added here on the endpoint info interface, that means it has been logged in to the web server.



2. Media Library

You can upload audio files on the media library for further operations such as playing real-time or timed background music to the endpoint devices.

Note: Maximum 10 audio files can be uploaded on the media library each time.

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3. Scheduled Bell Ringing

You can easily set up scheduled bell ringing tasks here on the web server.

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After the settings, designated endpoint device will execute the corresponding scheduled bell ringing task at the specified time.

Note:

- Maximum 50 scheduled bell ringing tasks can be added on each scheme.
- Maximum 10 scheduled bell ringing tasks can be executed at the same time.
- Other operations such as uploading audio files to media library or deleting endpoint device cannot be done when any scheduled bell ringing task is being executed.

Task Name	
Task Namo	Period Type
Lunch Break Bell Ring	Daily
Execution Time	Duration
2022-08-10 13:30-00	Song duration 🔵
Media File	Taisget Endpoint/Zone
MediaFiles x Audio1.mp3 x	
Task Priority	
9.	
Volume trim 0	Playback mode
	Sequential playback
	Cancel Sant

Add New Task

Choose certain scheme, and then click the [Add] button on the upper right corner, you can start adding new scheduled bell ringing task under this scheme.

Task Name

Set up the name of the scheduled bell ringing task.

Execution Cycle

Set up the execution cycle of the scheduled bell ringing task, available options include daily, weekly, once, etc.

40



Execution Time

Set up the specific timing for the execution of the scheduled bell ringing task (this option is only available when the execution cycle has been set to "once").

Duration

You can choose either to play the entire audio file or end the bell ringing at certain point of time.

Audio File

Choose the audio file which will be played when this scheduled bell ringing task has been executed, audio files need to be uploaded on the media library in advance (multiple audio files can be chosen here simultaneously).

Target Endpoint/Zone

Choose certain endpoint or zone which will execute the scheduled bell ringing task (zones need to be set under zone management section in advance).

Task Priority

Set up the priority level of the scheduled bell ringing task, optional level would be 0-10 (default priority of the web server: emergency notification > paging broadcasting > scheduled bell ringing task).

Volume Fine-Tuning

Specify the volume of the scheduled bell ringing task, so that different volume can be adapted to different time period (e.g., BMG volume in the shopping mall can be set to relatively low level on weekdays, and can be set to higher level on weekends).

Play Mode

If you have selected multiple audio files for this task, here you can choose different play modes, optional play modes include order play and random play, the default setting would be order play.



1. Emergency Notification Alerting

You can also set up the event-triggered emergency notification task here on the web server.

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After wiring detection device (such as manual call point, heat/smoke/infrared detector, etc.) to designated endpoint device's relay input using 24 gauge shielded twisted pair, once the relay input has been triggered by certain emergency event, the preset event-triggered emergency notification task will be executed automatically, and corresponding audio file (such as pre-recorded warning/evacuation voice announcements) will be played on specified endpoint device instantly.



Emergency Alarm	
Task Name	*Endpoint ID
Fire Alarm	
Port Number	Target Endpoint/Zone
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Volume trim Q	
Priority	
14	
Alarm linkago ID	Alarm linkage Port Number
2	[0 v]
Emergency Alarm Media File	
Audio 1.mp3 ×	
	Canod See

Add New Task

Click the [Add] button on the upper right corner, you can start adding new event-triggered emergency notification task.

Task Name

Set up the name of the event-triggered emergency notification task.

Endpoint ID

Designate certain endpoint device with relay input, this endpoint device will act as the trigger device.

Port Number

Specify the port number of the relay input on the designated trigger device.

Target Endpoint/Zone

Choose certain endpoint or zone which will execute the event-triggered emergency notification task (zones need to be set under zone management section in advance).

Volume Fine-Tuning

www.nordencommunication.com

Specify the volume of the event-triggered emergency notification task, so that different volume can be adapted to different tasks.



Audio File

Choose the audio file (such as pre-recorded warning/evacuation voice announcements) which will be played when this event-triggered emergency notification task has been executed, audio files need to be uploaded on the media library in advance (multiple audio files can be chosen here simultaneously).

2. Logging

Log file of scheduled bell ringing tasks and event-triggered emergency notification tasks can be exported from the web server.

Note: If you click the [Export] button directly without setting certain period of time, the log file of all time will export all at once.

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3. Zone Management

Here you can add and manage different paging zones on the web server.

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Zone2	
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TerminalS (Offline) ×	
Cancel	ave



Add New Zone

Click the [Add] button on the upper left corner, you can start adding new zone.

Zone ID:

Set up the ID of this new zone (the largest ID which can be added here would be 999).

Zone Name

Set up the name of this new zone.

Endpoints Included

Choose the endpoint devices which will be included in this new zone.



4. Resetting Parameters

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Restore Factory Default Settings

Click this button, all the settings on the web server will be restored to factory default settings.

Backup System Parameters

Click this button, all the preset system parameters on the web server will be backed up, then you can choose to download the corresponding backup file by clicking the "Download System Parameters" button.

Import System Parameters

Click this button, then you can choose to upload certain backup file to restore to the previous settings and system parameters (backup file doesn't include the audio files in the media library, audio files need to be uploaded to the media library again manually).



Exit the Built-In Web Server

Delete the "/server/terminal" part on the address bar of your web browser, or reenter the IP address of IP Paging Console on the address bar of your web browser, or click on the "Return terminal" button on the right top corner of the WEB page, you can then exit the built-in web server and re-access IP Paging Console's web interface.

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Specifications

POWER PARAMETERS						
Power Supply	DC 12V/1.5A					
Standby Power Consumption	≤3W					
AUDIO PARAMETERS						
Audio Codec	G.711 A-law, G.711 μ-law, G.729,					
	PCM/L16					
Signal-to-Noise Ratio	≥80dB					
Audio Sampling	8kHz~44.1kHz					
Bit Rate	16bit, 8kbps~320kbps					
Frequency Response	100Hz~16kHz					
NETWORK PARAMETERS						
Network Interface	10BASE-T/100BASE-TX RJ45					
Network Protocol	SIP (RFC3261), HTTP, DHCP, TCP/IP, UDP,					
	ARP, ICMP, IGMP					
Configuration Method	ation Method Local Settings/Web Interface					
INTERFACE SPECIFICATIONS						
Auxiliary Input 01	1/8-inch (3.5mm) TRS Jack					
Auxiliary Input 02	1/8-inch (3.5mm) TRS Jack					
Line Output	1/8-inch (3.5mm) TRS Jack					
Relay Input	2-Pin Pluggable Terminal Block (3.5mm					
	Pitch, AWG 28-16)					
USB Port	Inserting USB flash drive for playing the					
	stored music files					
MECHANICAL & ENVIRONMENTAL PROPERTIES						
Mounting Method	Desktop					
Installation Environment	Dry Indoor Locations Only					
Operating Temperature	0°C~+45°C (32°F~113°F)					
Storage Temperature	-10°C~+55°C (14°F~131°F)					
Operating Humidity	≤90% RH non-condensing					
Casing Material	Aluminium Alloy					
Color	Black					
Product Dimensions	144x144x34mm					
Product Weight	0.55Kg					

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Troubleshooting

1. How do I update the firmware of the IP paging console?

Check with our Technical Support Department to see if your current firmware is the latest version before attempting to update. To upload the firmware from your PC, log into the web interface of the IP paging console on your web browser, click "System Tool" » "Update Firmware" » "Update" and choose the latest firmware file provided by our company, and click "Update" button to start uploading.

2. What should I do if the IP paging console cannot be logged into NVS-IP100001SW management software?

- Check if the management software and the server PC are operating normally (before starting the management software, please make sure that all the firewalls, including the built-in firewall in the OS and other anti-virus software's firewall, are disabled).
- Check if the network connection of the IP paging console is functioning normally.
- Check if the network configurations (including device ID, local IP address, subnet mask, server IP address, etc.) of the IP paging console on the web interface are set correctly.
- 3. What should I do if the IP paging console itself cannot be logged into the builtin web server?

The IP address of built-in web server needs to be set to the same as the IP address of the IP paging console.

4. What should I do if other endpoint devices cannot be logged into the built-in web server?

Check if the communication protocol of other endpoint device has been set to NAS protocol, since the built-in web server only supports endpoint login via NAS protocol.

5. How do I change my login username and password of the configuration web interface?

- Log into the web interface, click "Advanced Settings" » "Web Management" and enter the password setting page.
- Input the original username and original password.
- Input the new username and new password.
- Confirm the new password.
- Click "Maintenance" » "System Tool" » "Reboot Device" to reboot the device for the new username and password settings to take effect.



- 6. What should I do if the configuration web interface displays abnormally? Please try to clear cache & cookies on your browser, or change to another browser (recommended browser: Google Chrome or Mozilla Firefox) to access the web interface.
- 7. For additional support or answers to questions not covered on this page, who should I contact?

Please contact our Technical Support Department.



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