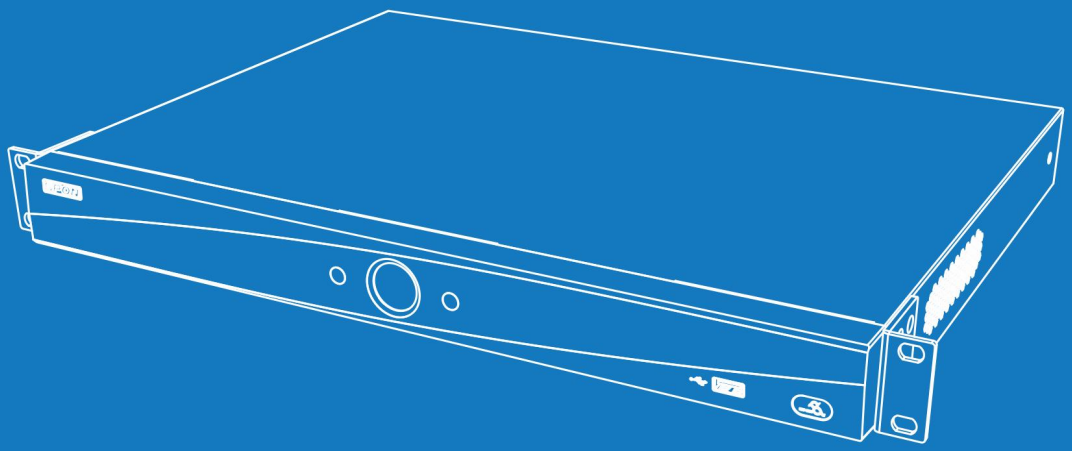
SPON

CLOUD PAGING AMPLIFIER

User Manual



IP NETWORK PUBLIC ADDRESS SYSTEM

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1. Important Safety Precaution

Please read this User Manual carefully before using this product and follow all the safety precautions mentioned herein.

During Installation:

(1) Avoid humidity:

Please do not expose the device to rainy environment or other humid environment, otherwise it may lead to fire or electric shock.

(2) Use correct power supply:

Please use the specified power adapter for the device, using high voltage power supply may lead to fire or electric shock.

(3) Protect the electric wire:

Do not scratch, cut or twist the power cord, keep the power cord away from any heating device, do not place heavy objects on top of the power cord, otherwise it may lead to fire or electric shock.

During Use:

(1) If anything goes wrong:

During use of this device, if any of these anomalies mentioned below happens, please cut off the electricity immediately, otherwise it may lead to fire or electric shock.

- smoke or strange smell coming out of the device.
- water or other foreign object gets into the device.
- damage on the product shell.
- damage of the power cord (cable core exposed or broken).
- malfunction of the device (no network connection or no sound).

(2) Do not open the product shell:

There are high voltage parts inside of the product shell, opening the product shell without permission may lead to fire or electric shock.

(3) Do not touch the device when it thunders:

To avoid electric shock, please do not touch the device or power plugs when it thunders.

(4) Do not place liquid containers on top of the device:

If accidentally knock over the liquid container and let any liquid get into the device, it may lead to fire or electric shock.

(5) Cautions when the device is not in use:

If the device is not in use for 10 days or longer, please cut off the electricity and unplug the power plug from the power socket, otherwise it may lead to fire or electric shock.

2. Product Overview

Here is what you can find in this section:

- **2.1 Basic Introduction**
- **2.2 Product Features**
- **2.3 Hardware Interface Description**

2.1 Basic Introduction

Cloud Paging Amplifier is embedded with IP Audio digital network technology which has intellectual-property rights of SPON.

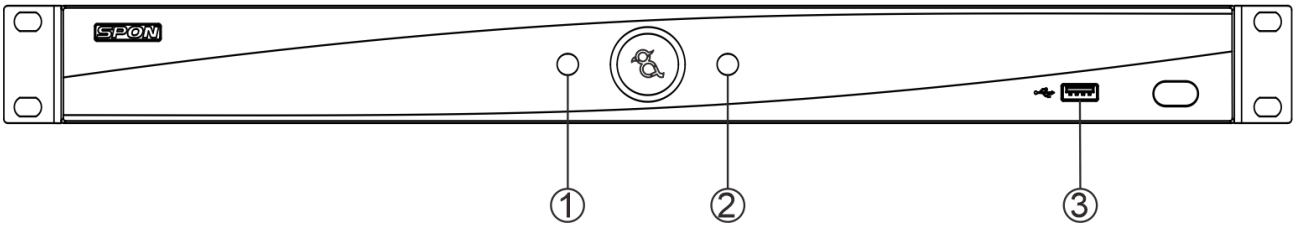
1U small body, 360W/720W constant voltage power output is optional. Digital power amplifier chip, higher energy efficiency, built-in backup system, stable operation at all times.

2.2 Product Features

- Simple design: Reduce non-specialized operations and reduce maintenance failures.
- Multi-channel mixing: with 1 emergency microphone input, 4 front analog input, each audio channel has independent volume adjustment.
- Digital power amplifier: constant voltage 100V output, efficiency up to 90%.
- Offline Running : When the network is interrupted, local playback can be automatically enabled. Multiple programs can be saved and run automatically according to the date.
- APP operation: You can set and save the configuration with one click of the APP, perform remote real-time operations, and remotely update scheduled tasks and ringtone files.

2.3 Hardware Interface Description

Front Panel

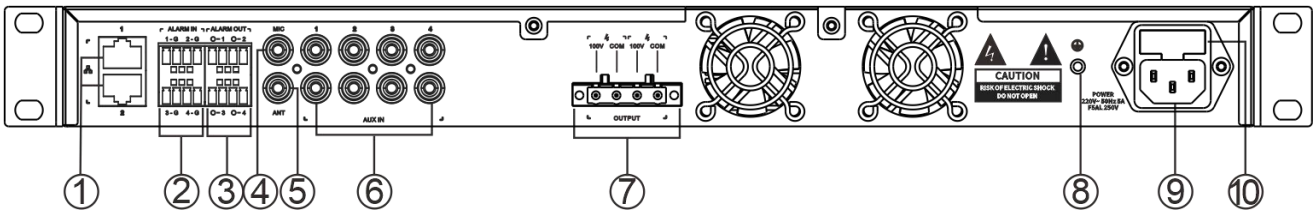


① Page up button

② Page down button

③ USB interface: After plugging in the USB flash drive, touch the page button (page up button, page down button) at the same time to upgrade the device locally.

Back Panel



① Network interface

② Alarm In interface(4 channels)

③ Alarm Out interface(4 channels)

④ Non-moving-coil microphone input interface (the default is force insert, it can be customized)

⑤ FM antenna interface

⑥ Line in interface(4 channels)

⑦ Power output interface

⑧ Safety grounding terminal

⑨ Power input interface: AC220V power input

⑩ Fuse holder: built-in replaceable fuse.

3.Unpacking and Installation

Here is what you can find in this section:

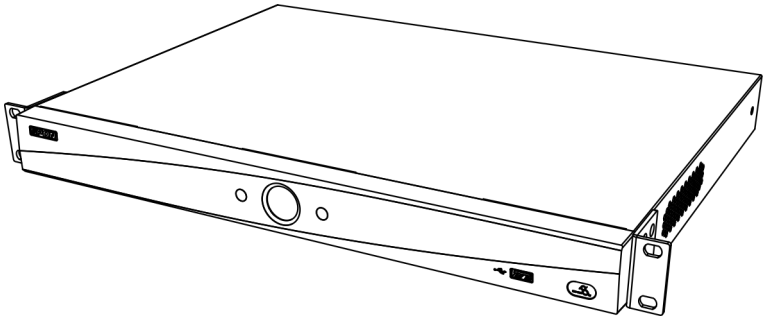
- **3.1 Packing List**
- **3.2 Wiring**

3.1 Packing List

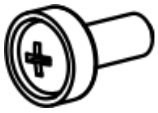
Before installing this product, please check whether the accessories are complete, if there are any missing parts, please contact your local distributor.

Main parts packed in the packing box include:

- 1×Cloud Paging Amplifier



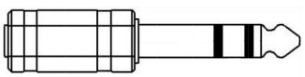
- 8×Countersunk cross screw(M4*6)



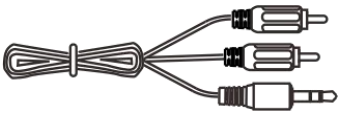
- 2×Hanger

- 4×Foot mat(Φ12*3 (3M))

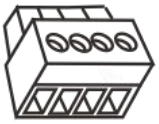
- 1×Adapter(6.35 stereo meal head/ 3.5 stereo female head)



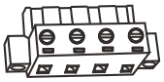
- 1×3.5-RCA lotus plug cord(1.5m)



- 4×Connection Terminal(3.81-4P)



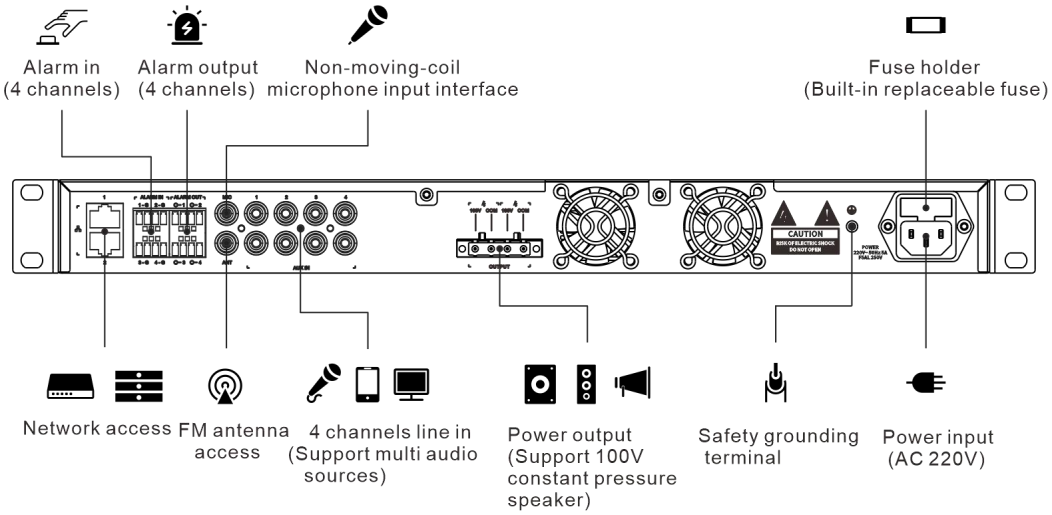
- 1×Connection Terminal(7.62-4P-1G)



- 1×Quick installation manual

- 1×Certification

3.2 Wiring


Alarm in
(4 channels)
Alarm output
(4 channels)
Non-moving-coil
microphone input interface
Fuse holder
(Built-in replaceable fuse)
Network access
FM antenna
access
4 channels line in
(Support multi audio
sources)
Power output
(Support 100V
constant pressure
speaker)
Safety grounding
terminal
Power input
(AC 220V)

4. Quick Operation Guide

Here is what you can find in this section:

- 4.1 Logging Into the Cloud Server
- 4.2 Logging Into the SIP Server
- 4.3 Network Settings
- 4.4 User-Defined Terminal Parameter Settings
- 4.5 Basic Functions

4.1 Logging Into the Cloud Server

The terminal can log in to our company's cloud server and be managed by YUNQUE APP, and perform related configuration and operations. For details, please refer to the YUNQUE APP User Guide.

4.2 Logging Into the SIP Server

The terminal can log in to the SIP server and perform related configurations and operations. For details, please see below.

4.3 Network Settings

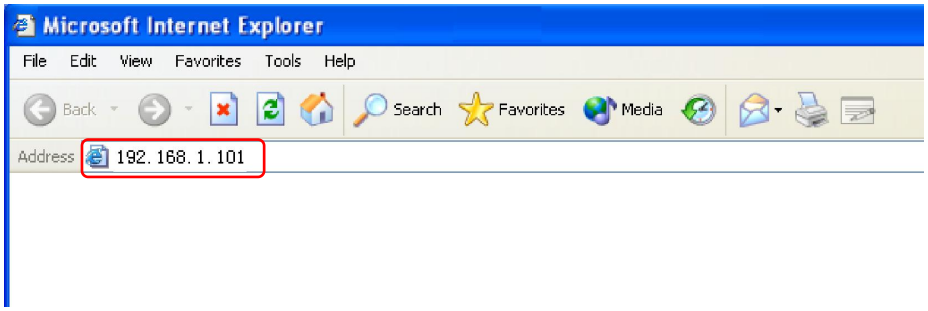
Basic network setting

After connecting the terminal according to the Quick Installation Guide, and then power on, and change the network parameters of the terminal according to the site environment:
Enter the web interface of the Cloud Paging Amplifier, modify the network parameters according to the site environment, and click Save. For details, please see the network parameters settings in User-defined Terminal Parameters.

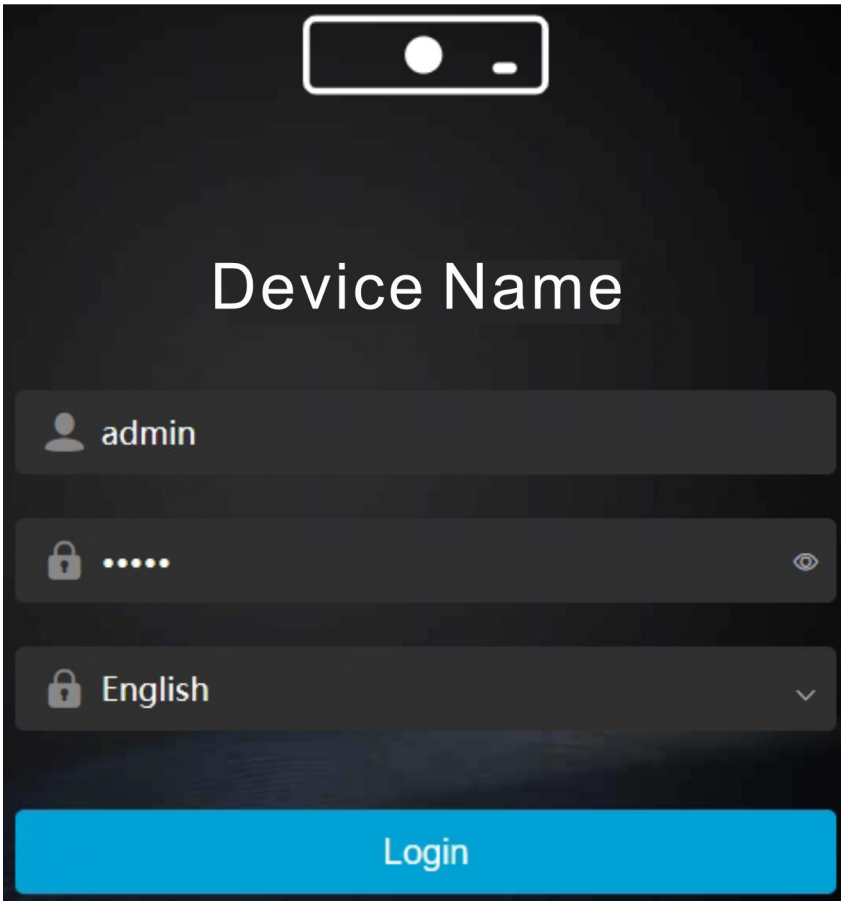
4.4 User-Defined Terminal Parameter Settings

Login Web page

(1) Please input the IP address of the Cloud Paging Amplifier(the factory defaults is 192.168.1.101) into the address bar of the web browser, then press Enter.



(2) Please input the user name and password in the login window of the Web page (The defaults username and password are both admin).



(3) Press enter to login to the web page of the Cloud Paging Amplifier.**(Note: The screenshots in this document are for reference only. For details, please see the actual page.)**

System Configuration

Network Configuration

Please modify the network parameters according to the site environment.

Wired

When the device is connected to the network through the RJ45 network port, please modify network parameters under wired according to the site environment.

Parameter Settings are as follows:

Setting IP address	Support Manual and Automatic IP-setting. Manual:The user can custom IP address related network information,the default is manual IP-setting. Automatic: IP addresses are allocated dynamically through DHCP.
IP Address	The IP address of the device,which cannot be duplicated with other terminals. The default is 192.168.1.101.
Gateway	The gateway of the network where the terminal located.
Subnet Mask	The subnet mask of the network where the terminal located.
Main DNS	The IP address of the main domain name resolver of the network where the terminal located.
Secondary DNS	The IP address of the secondary domain name resolver of the network where the terminal located.

Wireless

When the device is connected to the network through wireless, please modify network parameters under wireless according to the site environment.

Parameter Settings are as follows:

Mode	Hotspot and WLAN are optional. Hotspot: When the device is connected to a wired network, select the hotspot mode to turn the terminal into a hotspot as a wireless AP to provide a wireless network. WLAN: When the device is connected to WIFI, please select the WLAN mode.
Account Number	Set the WIFI account of the hotspot or fill in the WIFI account to be connected.
Password	Set the WIFI password of the hotspot or fill in the WIFI password to be connected.

Server Configuration

Set the protocol parameters for the normal communication between the terminal and the server. After the modification, click [Save] to restart the device to take effect.

Parameter Settings are as follows:

Endpoint ID	Unique number that identifies the device. It cannot be the duplicated with other terminals
Endpoint Port	Device port. Note: The port should not be modified casually except it has special needs.
Server IP Address, Sever Port	The server IP address and port which device log in. The port should not be modified casually except it has special needs.
Standby Server IP Address, Standby Server Port	The standby server IP address and port which device log in. The port should not be modified casually except it has special needs.

Input Channel

Set the input channel parameters.

Parameter Settings are as follows:

Input 1	The name can be customized. Set the total volume of the device line in 1 interface (0 to 15).
Input 2	The name can be customized. Set the total volume of the device line in 2 interface (0 to 15).
Input 3	The name can be customized. Set the total volume of the device line in 3 interface (0 to 15).
Input 4	The name can be customized. Set the total volume of the device line in 4 interface (0 to 15).

Sound ReinForcement

Set sound reinforcement related parameters.

Parameter Settings are as follows:

Sound Reinforcement	Set whether to enable sound reinforcement function. When it is enabled, and there is no broadcast task.The line output interface of the device can make the input of non-moving microphone to the sound reinforcement output The priority of local sound reinforcement is second only to alarm broadcast.
Volume	Set the volume of local sound reinforcement(0 to 15)
Trigger Sensitivity	Set the sensitivity (0 to 15) of triggering the local sound reinforcement.

Output Channel

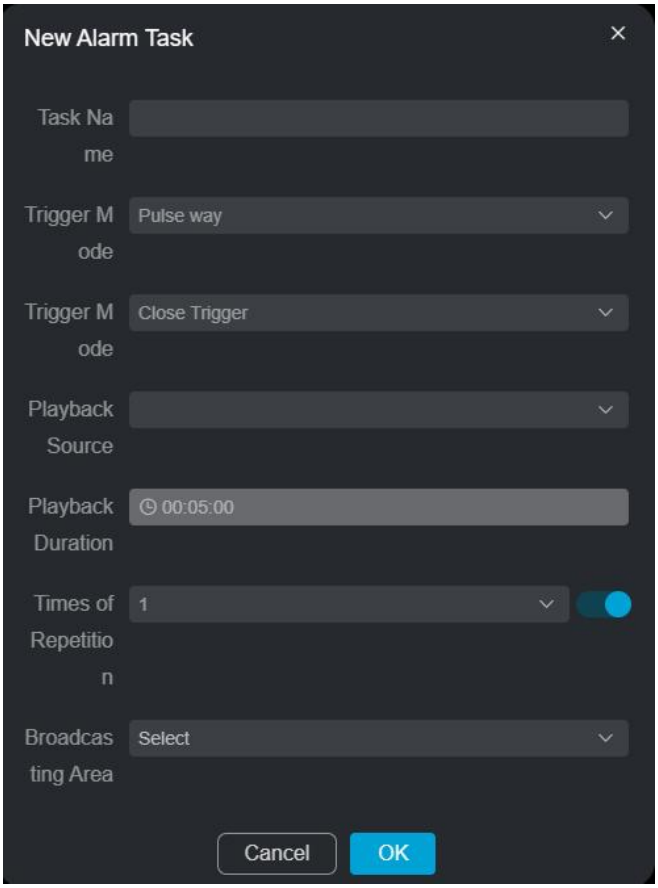
Set output channel related parameters.

Parameter Settings are as follows:

Output 1	The name can be customized. Set the total volume of the device power output interface (0 to 15).

Alarm Input

Set the alarm trigger mode, playback source, and broadcasting area of the device's four alarm input interfaces. **Note: Alarm tasks set on the WEB interface are only available locally and will not be uploaded to the server.**



Parameter Settings are as follows:

Task Name	The task name of alarm input can be customized.
Trigger Mode	Pulse mode: it will trigger alarm if received pulse signal; Level mode: it will trigger alarm if received level signal.
Trigger Mode	Closed circuit trigger: it will trigger alarm if the alarm input port is closed; Open circuit trigger: it will trigger alarm if the alarm input port is opened.
Playback Source	Select the audio file for alarm.
Playback Duration	Set the playback duration of the alarm file.
Times of Repetition	Set the number of times the alarm file is played repeatedly. If the parameter is set to disable, the playback is not repeated.
Broadcasting Area	You can select any audio output channel to play the alarm audio file.

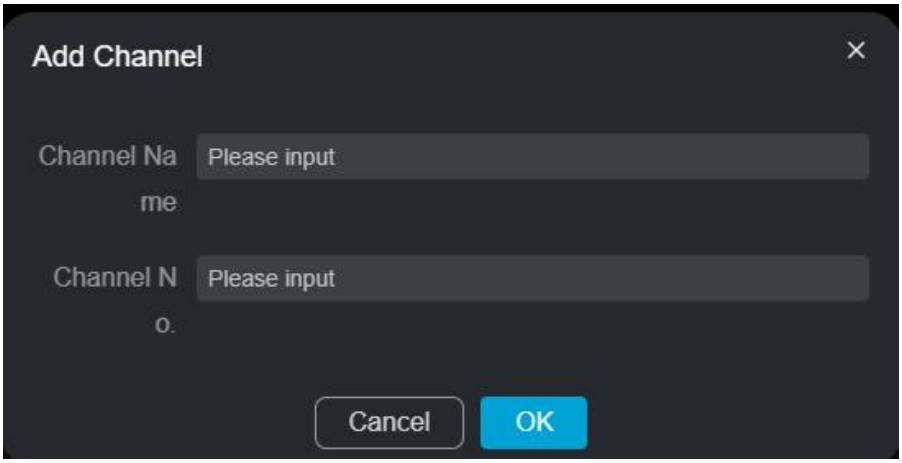
Alarm Output

Task Linkage: After the switch is turned on, the alarm output interface of the corresponding channel will be closed when receiving the broadcast. The corresponding relationship is that audio output channel 1 corresponds to alarm output 1, audio output channel 2 corresponds to alarm output 2, and so on. The default value is off.

State Recovery: After the task linkage switch is opened, the closing time of alarm output interface can be set. 0 indicates lasts to the task end. A value greater than 0 indicates the number of seconds before recovery. The maximum value is 29.

Radio

Set the broadcast channel that the FM antenna of the device received. The broadcast volume can be set.



Bluetooth Configuration

Set the Bluetooth related parameters.

Parameter Settings are as follows:

Bluetooth Password	Set the password of the Bluetooth.

Other

Audio Management: The uploaded audio can be used as local alarm input audio.

Please Operate Carefully

Firmware Upgrade: Click "Firmware Upgrade", then click "Browse", select the firmware upgrade file provided by the manufacturer, and click the "Firmware Upgrade" button to start the upgrade.
Note: Do not power off during the upgrade. Otherwise, the upgrade may fail and the device may be faulty. The upgrade process takes about 120s. After the upgrade, the device and web page will automatically restart. (Do not upgrade firmware unless there is a special need)
Device Reboot: Click “Device Reboot”button can manually reboot the device.
Restore Default Settings: Click this button to restore all parameters of the device to the factory Settings (please use it with caution).

Other Function

In addition to the above functions, the Cloud Paging Amplifier can also cooperate with the server to realize the functions of timing ringing, real-time broadcasting. For details, please see the user guide of the service software.

4.5 Basic Functions

Receive Broadcast

The device can receive broadcasts initiated by other terminals. It will answer automatically, no need to pressing a button.

Sound Reinforcement

When the sound reinforcement function is enabled, and there is no broadcast task.The line output interface of the device can make the input of non-moving microphone to the sound reinforcement output

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