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4 ZONE NETWORK AUDIO AMPLIFIER

(CL-4)

User manual

Version V1.0

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1.Overview

CL-4 4-zone network audio power amplifier supports NETWORK, Bluetooth (APTX-HD), Line, optical fiber, coaxial, HDMI and U disk input, built-in power supply and power amplifier circuit, the power amplifier chip is TPA3116D2 from Texas Instruments, and the power amplifier has a total of 50W x 16 channels (@4ohm) power output.

CL-4 also supports Windows PC graphical interface control. You can connect the power amplifier to the PC through the USB cable, observe the working status of each partition zone of the device on the PC graphical interface, switch the audio source of each partition zone, and adjust the EQ of each partition zone to realize the user's personalized adjustment of EQ, etc.

2.Technical Parameters

4 Zone Audio I/O		
Audio Input	LINE IN	MAX 1V RMS Input
	OPTICAL IN	MAX 216kHz/24bit sample rate Decode PCM encoding
	USB DISK	support MP3 / WMA / AAC / AAC+ / ALAC / FLAC / APE / WAV audio format
Audio Output	SPEAKER OUT	50W x 16channel@4ohm or 100W x 8channel@2ohm
	PRE OUT	Max 2V RMS Output
	WOOFER OUT	Max 1V RMS Output
	HEADPHONE OUT	Max 2V RMS Output (Audio monitoring)
Public Input Source		
Audio Input	BLUETOOTH	Qualcomm Bluetooth 5.0 and APT-X HD
	LINE IN	MAX 1V RMS Input
	OPTICAL IN	MAX 216kHz/24bit sample rate Decode PCM encoding
	COAXOAL IN	
	HDMI IN	support HDMI Audio and ARC
NETWORK		

Ethernet In	RJ45	Connect to internet
Ethernet Out	RJ45	Output to other device to share the network
Music Sources		
Streaming Protocol	Tidal Connect, Qobuz Connect, Airplay, DLNA	
Online Music	Spotify,Tidal,Yandex Music,Youtube Music,Apple Music,Qobuz,TuneIn, vTuner etc.	
Local Music	Mobile device music, NAS storage music files, USB disk drive music files	
Multizone function	1. By Master input source 2. By APP to setup one zone as master to sync music to other zone	
General		
Power	AC 110-240V / 50/60Hz	
Control Interface	USB Type C	
remote	Wireless remote	
size	2U rack size	

3.Product interface introduction

Front panel interface description

NO.	Function	NO.	Function
1	switch	2	ZONE Audio Headphone Monitoring
3	LCD screen	4	ZONE operation indicator
5	VOL/FUNCTION button		
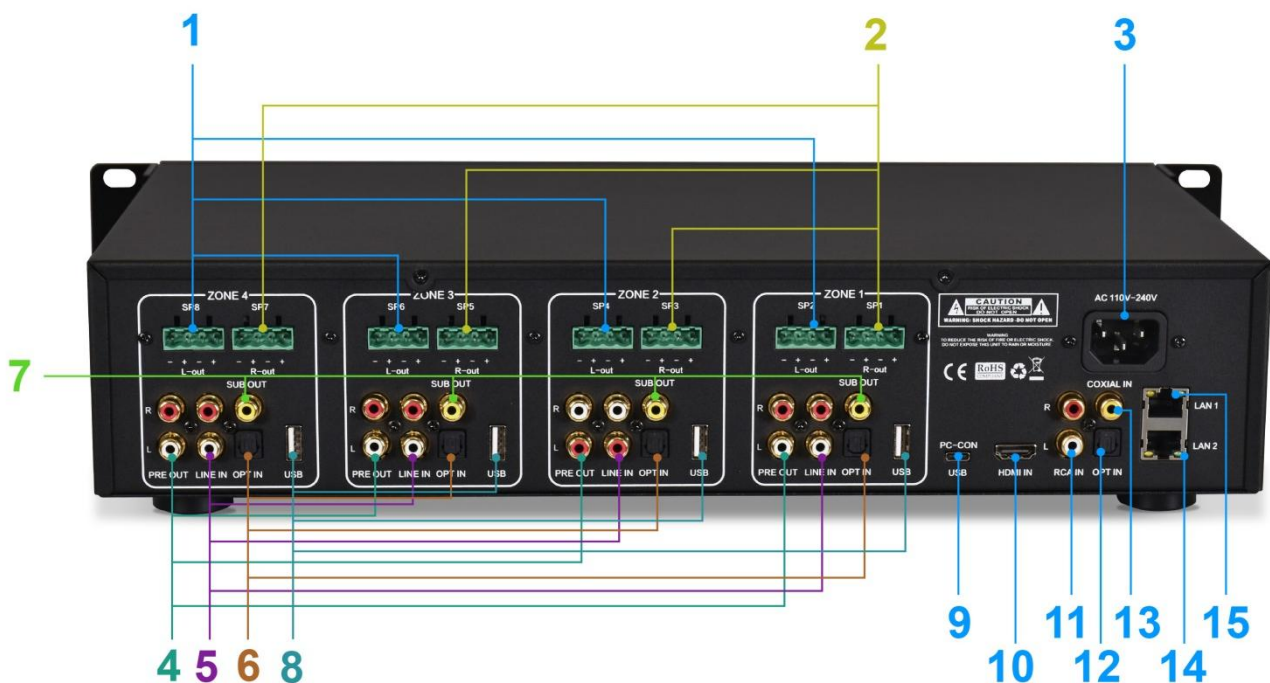
Rear panel interface introduction

NO.	Function	NO.	Function
1	ZONE Left channel output	2	ZONE Right channel output
3	AC power input	4	ZONE LINE OUT
5	ZONE LINE IN	6	ZONE OPTICAL IN
7	ZONE WOOFER OUT	8	ZONE UDISK IN
9	PC Control Interface	10	Public HDMI(ARC) IN
11	Public LINE IN	12	Public OPTICAL IN
13	Public COAXIAL IN	14	LAN IN
15	LAN OUT		

4. **Wireless Remote Control**
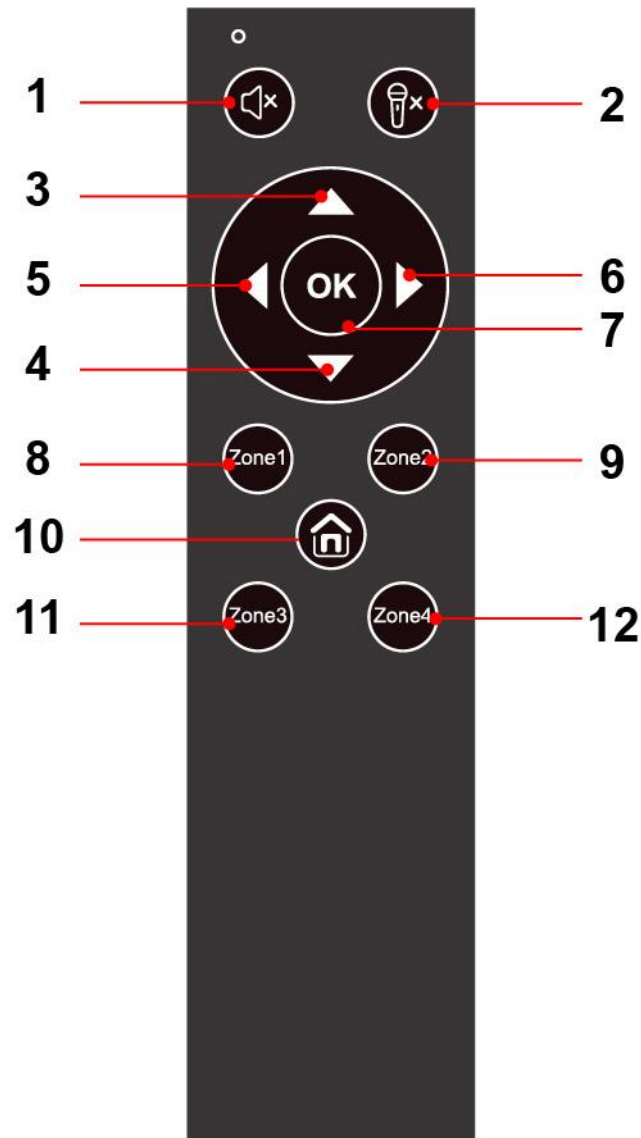
(Remote control)

1) Audio output mute/relieve mute
2) microphone mute/relieve mute
3) Display operation selection menu--up (Volume up*)
4) Display operation selection menu--down (Volume down*)
5) Display operation selection menu--left (Volume down*)
6) Display operation selection menu--right (Volume up*)

7) Short press the menu operation to enter/confirm, and long press to enter the system setting menu

8) Short press ZONE1 to quickly enter, long press ZONE1 audio mute/relieve mute

9) Short press ZONE2 to quickly enter, long press ZONE2 audio mute/relieve mute

10) Short press to return to HOME, long press to enter the system setting menu

11) Short press ZONE3 to quickly enter, long press ZONE3 audio mute/relieve mute

12) Short press ZONE4 to quickly enter, long press ZONE4 audio mute/relieve mute

(*)The volume adjustment function is valid on the HOME interface and the partition zone main interface

5.Instructions for use

Please follow bellow instructions to use CL-4 NETWORK audio amplifier.

5.1 APP application

Please download the **iAudioCloud** from the APP Store or Google Play so as to use audio amplifier. The APP in the following document descriptions refers to the **iAudioCloud**.
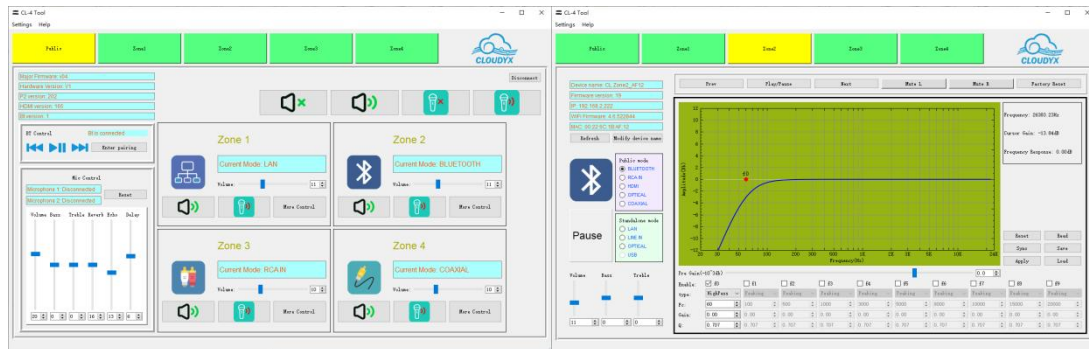


iAudioCloud

5.2 PC TOOL

The WINDOWS PC side can use CL-4 TOOL to control the amplifier. The CL-4 TOOL graphical interface can observe the working status of the amplifier, switch the audio source, control the audio output, and adjust the EQ of the output audio. More details For function description, please refer to CL-4 TOOL

user manual.

5.3 Amplifier installation and connection

Take out the power amplifier, if it needs to be installed on the equipment rack, please install the bracket to fix the iron sheet according to the following figure, and assemble it on the equipment rack, pull out the speaker terminal, connect the speaker according to the area distribution and plug it back into the terminal. Plug the network cable into the RJ45 interface, connect the AC power supply, turn on the power switch, and wait for the device to start.
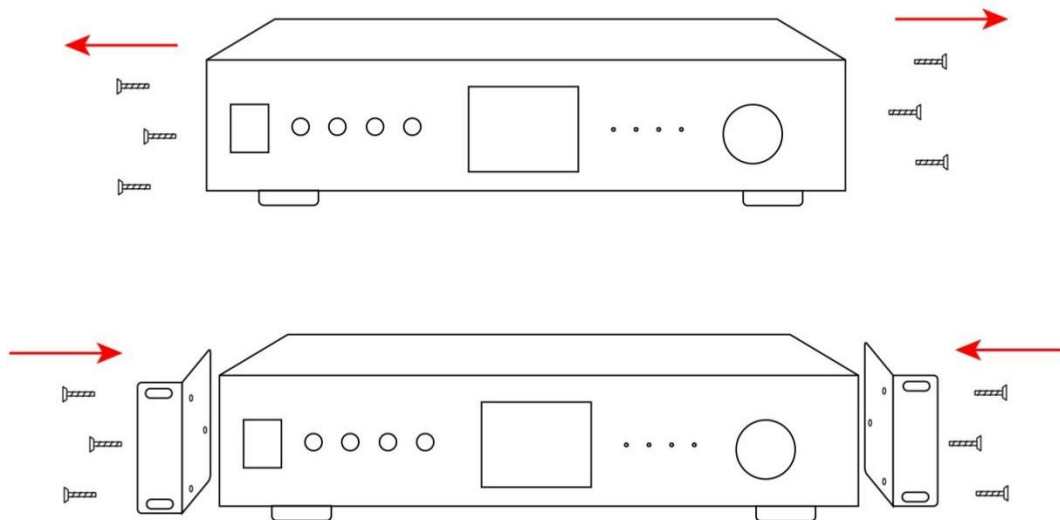
5.4 Display and operation
5.4.1 Display instructions

The front panel of the CL-4 power amplifier is equipped with a TFT liquid

crystal display. Users can use the CL-4 power amplifier according to the prompts displayed on the display. The display instructions are as follows.

Home interface display instructions:

The Home interface displays the audio source, audio playback status, volume status, and microphone status of the 4 ZONE.

The audio sources in the CL-4 public zone include BLUETOOTH IN, LINE IN, OPTICAL IN, COAXIAL IN and HDMI IN. Each partition zone audio source has LAN IN, LINE IN, OPTICAL IN, U DISK IN. When the audio of each zone is playing, the display area will display a rhythm icon. When the audio output of each zone is MUTE and the microphone audio is MUTE, the display icon in the corresponding zone will change accordingly.

ZONE interface display instructions:

The ZONE interface displays the audio source name, local network time, device name, audio playback status, device status, volume level bar, date

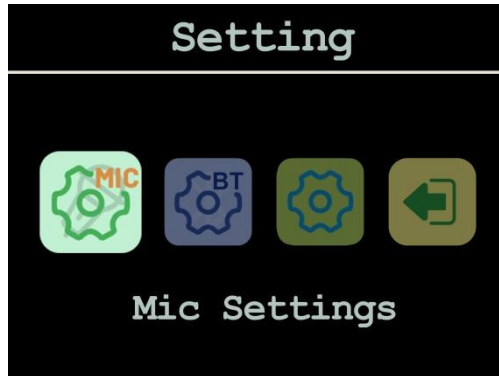### 5.4.2 Home interface operation instructions

When displayed on the Home interface:

1. Rotate the FUNCTION button or short press the direction keys on the remote control to adjust the volume level of the output audio of all zones synchronously.

2. Short press the FUNCTION button or short press the remote control's OK key to select the partition zone. Rotate the FUNCTION button or short press the remote control's direction keys to select the partition zone to be operated, and then short press the FUNCTION button or short press the remote control's OK button to confirm entering the partition zone.
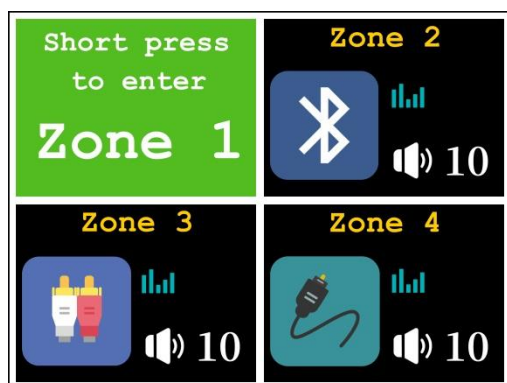
3. Long press the FUNCTION button or long press the HOME button on the

remote control to enter the system setting menu. You can set microphone parameters, Bluetooth re-pairing, and system function configuration in the system setting menu.

### 5.4.3 ZONE interface operation instructions

When displayed on the ZONE interface:

1. Rotate the FUNCTION button or short press the arrow keys on the remote control to adjust the volume level of the output audio of the current zone.

2. Short press the FUNCTION button or short press the OK button on the remote control to enter the audio source selection menu. Select the Source icon to be switched by rotating the FUNCTION button or short pressing the direction keys on the remote control. Then short press the FUNCTION button or short press the OK button on the remote control to confirm switching the audio source of the current zone.


3. Long press the FUNCTION button or the OK button on the remote control to enter the partition zone setting menu. You can adjust the BASS or TREBLE level of the current partition zone in the partition zone setting menu, and you

can also check the partition zone device information and restore the factory operation of the partition zone.
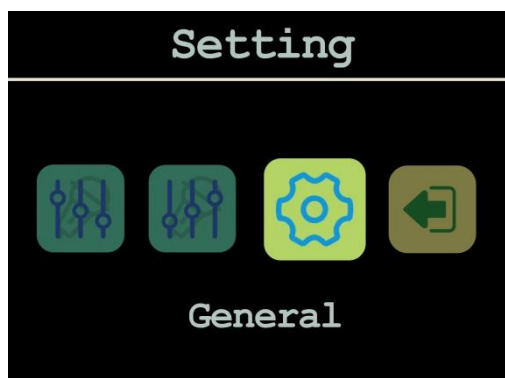

5.4.4 Operation and Display Instructions

● **Volume adjustment:** CL-4 has a total of 32 volume levels, which can be adjusted through the encoding knob, remote control and APP respectively. The output gain of the power amplifier changes with the volume level and is displayed on the display screen or APP.

● **BASS/TREBLE adjustment:** There are 10 adjustable BASS/TREBLE levels for CL-4, and the positive and negative gains are 5db respectively. The output of the power amplifier will change according to the adjustment, and the level will be displayed on the display.
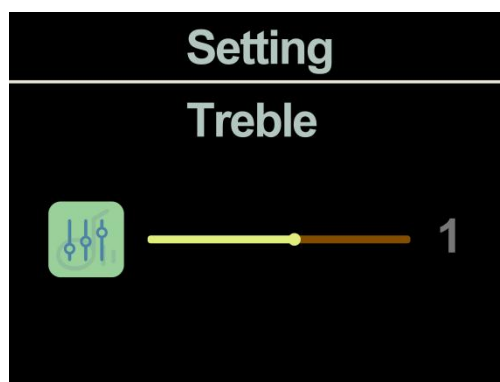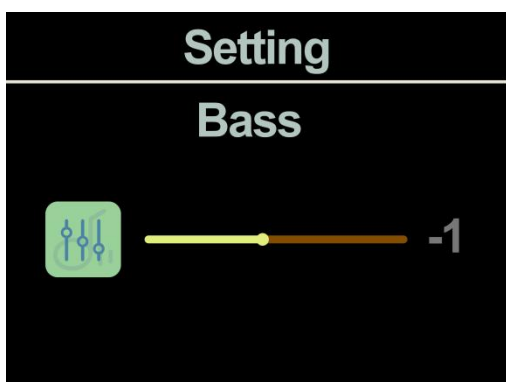

● **Audio MUTE operation:** CL-4 can MUTE CONTROL the audio output of each partition through the remote control or PC TOOL, and display the status on the LCD.
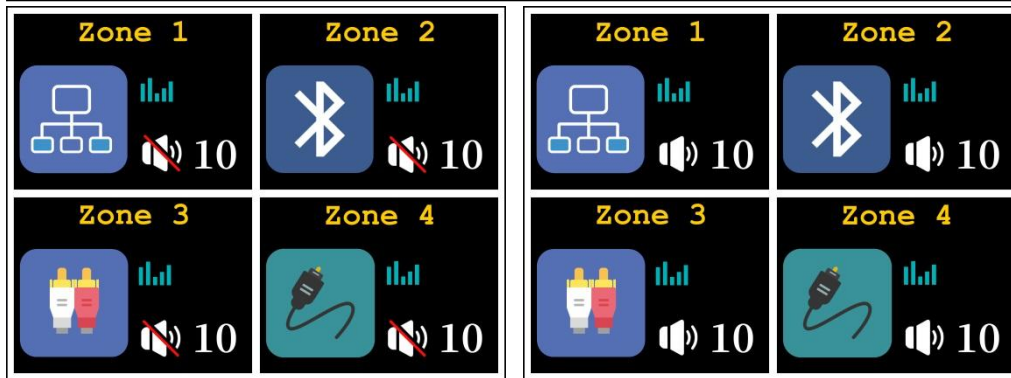
- **Microphone audio MUTE operation:** CL-4 can MUTE CONTROL the microphone audio of each zone through the remote control or PC TOOL, and display the status on the LCD.
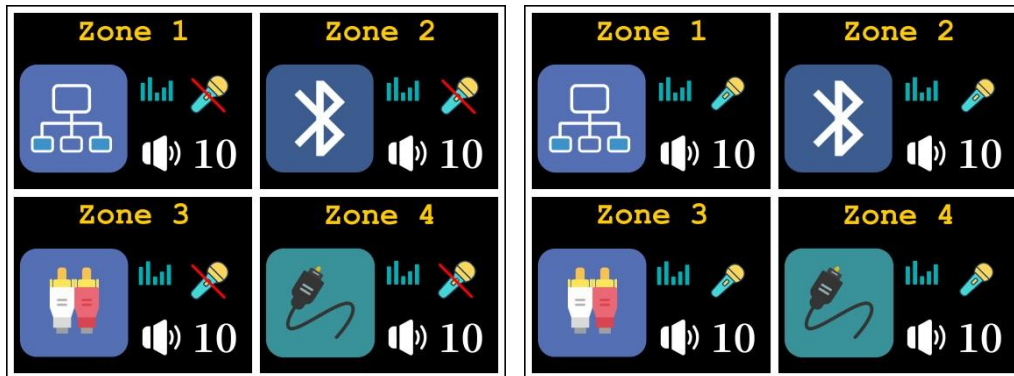
- **System function configuration:** After calling out the system setting menu on the Home interface, select "General" to enter the system function setting interface, you can set the Backlight of the CL-4 display, clock display when the system is idle, automatic sleep when the backlight is idle, wireless remote control pairing, device information viewing and reset configuration parameters.
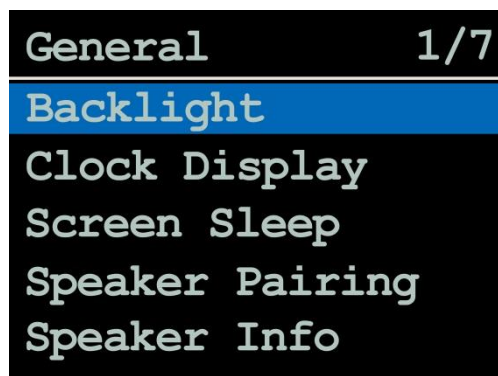
- **Display configuration:** There are 10 levels of backlight brightness

displayed on CL-4, the higher the level, the brighter the display. If the backlight is turned on to sleep at idle, the display backlight will slowly drop to level 1 after the power amplifier has not been operated for a certain period of time. If the clock display is turned on, the local network time (24-hour system) will be displayed after the power amplifier has not been operated for a certain period of time.

| Screen Sleep	Clock Display	Enjoy CL-4
5minute	1minute	
10minutes	2minutes	
20minutes	5minutes	12:00
30minutes	10minutes	
1hour	30minutes	

- **Wireless remote control pairing:** In the "General" menu, select Remote Pairing, clear the original wireless remote control, and receive wireless remote control pairing within 30 seconds. During the pairing time, press and hold the Home button on the remote control until the display shows "Paired successfully" means the pairing is successful.

Remote Pairing	Remote Pairing
Please hold down the Homebutton on the remotecontrol. 30	 Paired successfully!

- **Microphone parameter setting:** In the system setting menu, select "Mic Settings" to enter the microphone parameter configuration interface. In the microphone parameter configuration interface, you can adjust the microphone volume, microphone audio BASS and TREBLE, microphone reverberation intensity, microphone echo intensity, microphone echo delay time, and reset microphone parameters.

- **Wireless microphone pairing:** After resetting the microphone in MIC Settings, turn on the two hand-held microphones of channel A and channel B respectively within 1 minute of pairing time, and press and hold the SET button for 5 seconds to perform microphone pairing until the display shows two the microphone logo means that the pairing is successful. If the pairing is still not done after the timeout, please repeat the operation.
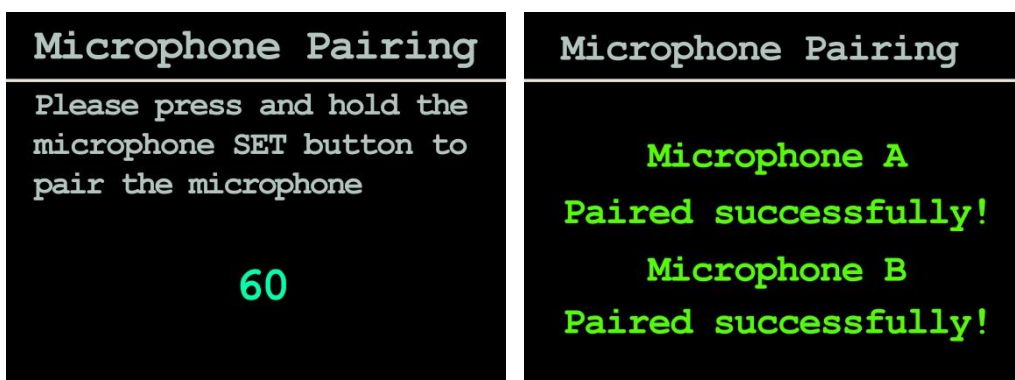
- **System function restore factory settings:** In the system setting menu, operate restore factory settings, the device will reset the following parameters to the default parameters:

1) Reset the display backlight brightness to 5/10

2) The clock display time is reset to 1 minute when the system is idle

3) Automatically reset the sleep time to 1 minute when the backlight is idle.

- **ZONE restores factory settings:** In the ZONE setting menu, the operation restores factory settings, and the device will reset the following parameters to the default state:

1) Reset output audio volume to 10/32

2) Reset output audio BASS and TREBLE level to 0

3) Reset custom SSID

4) Reset EQ to Flat

6.Parts list

NO.	Name	Qty
1	CL-4 amplifier	1 pc
2	Iron for fixed installation	1 pair
3	UHF wireless microphone	1 pair
4	AC power cord	1 pc
5	RCA-RCA audio cable	1 pc
6	wireless remote	1 pc
7	AAA battery	1 pair
8	AA battery	2 pair
9	manual	1 pc