Hi-Fi WiFi Stereo Audio Amplifier

(ADAmp.100)

User manual

Version 2.1 F

2025

1.Overview

ADAmp.100 audio amplifier supports dual-band WiFi and Bluetooth wireless connection. The audio amplifier uses HIFI grade DAC - TI PCM5121 and HIFI grade digital power amplifier chip - TDA7498E. The stereo output power can reach 100W, the overall SNR can reach 95db, and the distortion is less than 0.03%, the power is strong, and the sound quality is outstanding. **ADAmp.100** also supports Apple's AirPlay function and industry device interconnection standard DLNA and Qplay of QQ music, which can play music from iPhone, iPad or iPod touch through AirPlay function, and can also use a third-party PLAYER that complies with DLNA standards to play music on Android devices or PC. Multiple interfaces, multiple experiences.

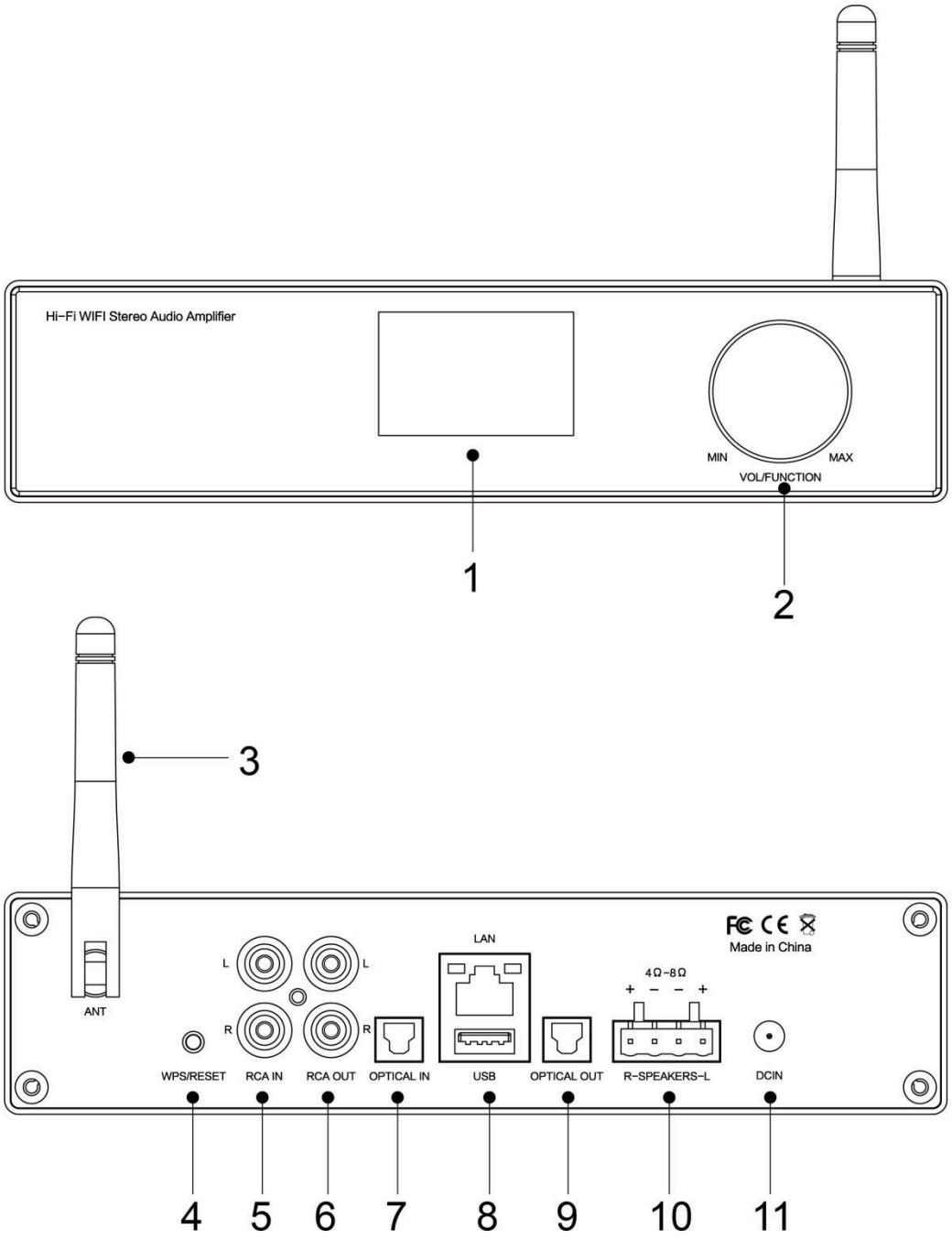
Function Introduction

- Wi-Fi protocol: IEEE 802.11 a/b/g/n/ac 1x1 dual band WiFi 2.4 GHz and 5GHz
- Bluetooth protocol: BT5.4 with EDR
- Support WiFi/Bluetooth/RCA input/optical input/U disk playback
- Support RCA output/optical fiber output
- Support TFT color LCD
- Support APP interconnection control
- Support 10/100Mbps Ethernet connection
- Support HTTP/HTTPS protocol
- Support Airplay /DLNA/Qplay streaming media protocol
- Support Airplay, Spotify, Bluetooth, RCA-in multi-room playback
- Support Spotify,Tidal,Yandex Music,Youtube Music, Apple Music, Qobuz, TuneIn, vTuner etc.
- Support common lossless audio format decoding, up to 192kHz/24bit format
- Support MP3/AAC/FLAC/ALAC/WMA/WAV/APE/AIF/AIFF/AIFC/OGG etc.
- Support NEC infrared remote control

2. Technical Parameters

Audio I/O		
Audio Input	NETWORK	WIFI2.4G&5GorLAN
	BLUETOOTH	Bluetooth5.4
	LINEIN	Max2VRMSIN
	OPTICALIN	MAX192kHz/24bitsamplerateDecodePCMencoding
	USBDISK	MP3/AAC/FLAC/ALAC/WMA/WAV/APE/AIF/AIFF/AIFC/OGG etc.
Audio Output	SPEAKER OUT	100Wx2channels(4Ω) StereoOutPutMax2V(1kHz0db)
	LINEOUT	
	OPTICALOUT.	48kHz/24BitsampleOutputMax0db
NETWORK		
Ethernet In	RJ45	Connect to router
Music Sources		
Streaming Protocol	TidalConnect,QobuzConnect,Airplay2,DLNA	
Online Music	Spotify,Tidal,YandexMusic,YoutubeMusic,AppleMusic,Qobuz,Tuneln, vTuneretc.	
MultiRoom function	Yes	
General		
Power	DC32V-5A	
Frequency	20Hz-20kHz	
THD	0.03%	
SNR	>90db	
Remote.	Infraredremotecontrol	

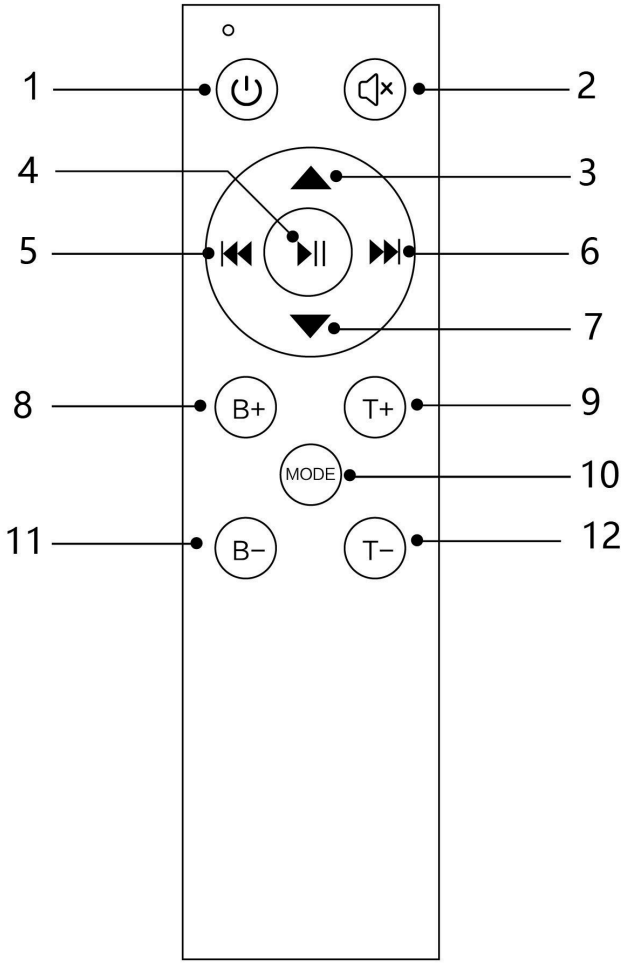
3. Structure description



No.	Features	No.	Features
1	LCD	2	Volume/function button
3	WiFi&Bluetooth antenna	4	Pairing/reset button

5	RCA input interface	6	RCA output interface
7	Optical input interface	8	Ethernet and U disk interface
9	Optical output interface	10	Stereo power output interface
11	DC power interface		

Infrared remote control



No.	Name	Function Description
1	Standby key	Enter standby/Power on
2	Mute button	Mute/Unmute
3	VOL+	Volume up (*)

4	Play/pause	Short press to play pause (*), long press：PAIR
5	Previous song	Previous song (*)
6	Next song	Next song (*)
7	VOL-	Volume down (*)
8	B+	BASS+
9	T+	TREBLE+
10	MODE	Short press：Mode Menu Long press：Function Menu
11	B-	BASS-
12	T-	TREBLE-

(*) Menu option control, short press on the menu interface respectively have forward, backward, up, down, confirmation control

4. Instructions for use

Before using this product, please read the following instructions carefully, and use the **ADAmp.100** Hi-Fi WiFi Stereo Audio Amplifier according to the instructions.

4.1 APP application

Please download the iAudioCloud APP from APP Store or Google Play to use audio amplifier. iAudioCloud is the name of APP in the following document descriptions .

iAudioCloud

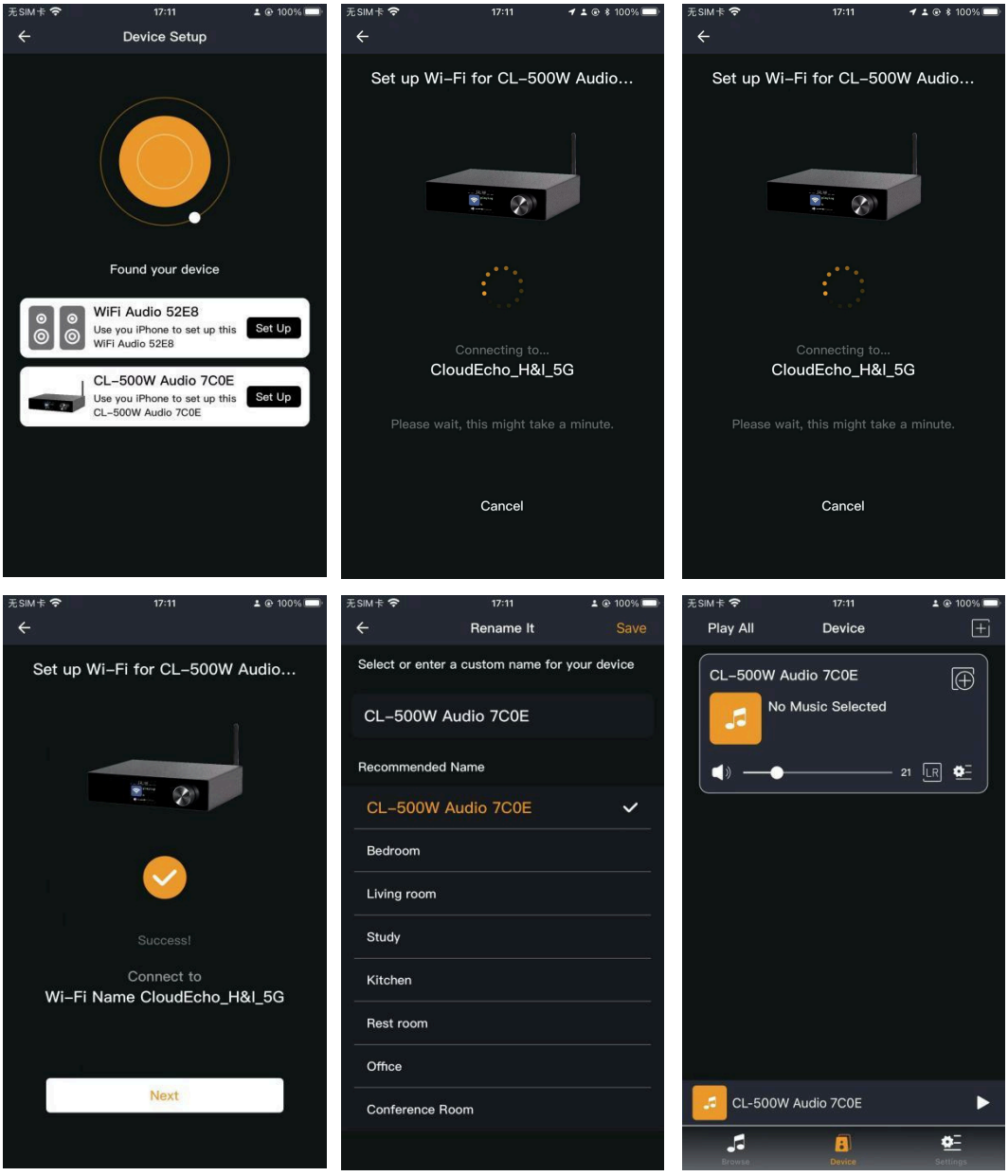
4.2 Connection of Audio Amplifier

To use the ADAmp.100 audio amplifier, please connect the antenna of the audio amplifier according to the instructions of the product description, and connect the speaker that matches the parameters of the audio amplifier to the speaker output port.

Then plug in the power adapter into the DC port to supply power to the audio amplifier.

4.3 Start-up and configure network

After powering on the audio amplifier with the power adapter, use the mobile phone to open the APP when the display of the audio amplifier lights up, and follow the APP prompts to equip the audio amplifier with a wireless network (as shown in the figure below).



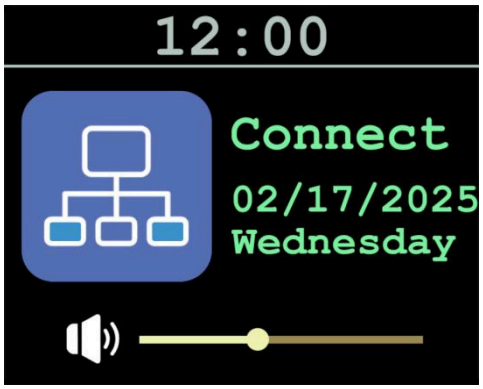
4.4 Display and Operation 4.4.1 Display description

The front panel of the ADAmp.100 audio amplifier is equipped with a TFT LCD display. The user can use the ADAmp.100 power amplifier according to the prompts displayed on the display screen. The display instructions are as follows:

The Source display area of the display screen displays the current Source icon, and the clock display area displays the local network time. The other areas display device status, playback spectrum and volume level respectively.

4.4.2 Display status description

The Source icon on the display of the audio amplifier is used to indicate the source of playback, including: Network, Bluetooth, RCA, Optical, and USB Disk. After the audio amplifier is connected to the Internet, it can obtain the local network time and display the real time on the display screen of the audio amplifier, as shown in the figure below. When the music is idle, the date and week will be displayed on the display screen.



When the audio amplifier is in Network Source and Bluetooth Source, the work status will be displayed on the display screen, and the status display description is as follows

Source	Status	Description
Network	Starting	Systemisbooting
	Pairing	WiFiisWaitingfornetwork configuration
	Connected	Connectedtotheinternet
	Playing	Musicisplaying
Bluetooth	Starting	Systemisbooting
	Pairing	Bluetoothispairing
	Connected	Bluetoothisconnected
	Playing	Musicisplaying

The volume level display is used to indicate the current volume level, and the volume bar display increases and decreases as the system volume changes.

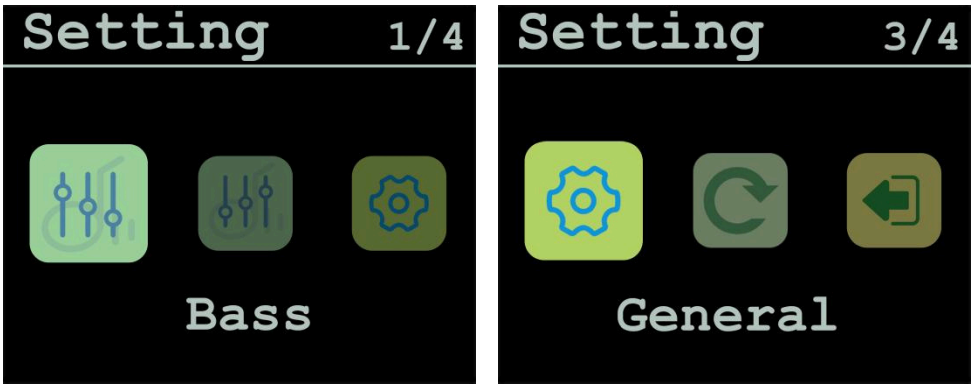
4.4.3 Operation instructions

StandbyandPoweron:

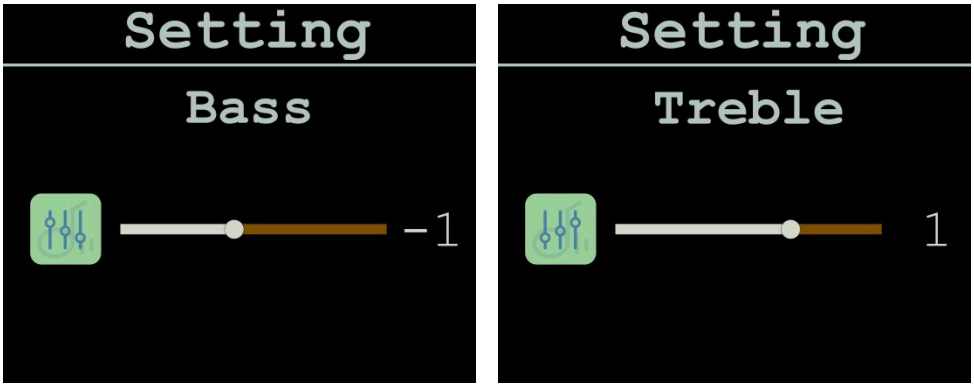
When ADAmp.100 is working, short press the standby button on the remote control to control the ADAmp.100 to enter standby, stop music, and turn off the display; When ADAmp.100 is in standby, short press the standby button on the remote control or short press Function button to wake up the audio amplifier.

- **Source switching:** When ADAmp.100 is working, short press the Mode button on the remote control or short press the FUNCTION key on the front panel to enter the Source selection menu according to the remote control instructions, and then press the remote control button or turn the knob to select the corresponding Source icon, as shown in the figure below, and press FUNCTION key or play button to confirm; You can also directly select Source in the APP.

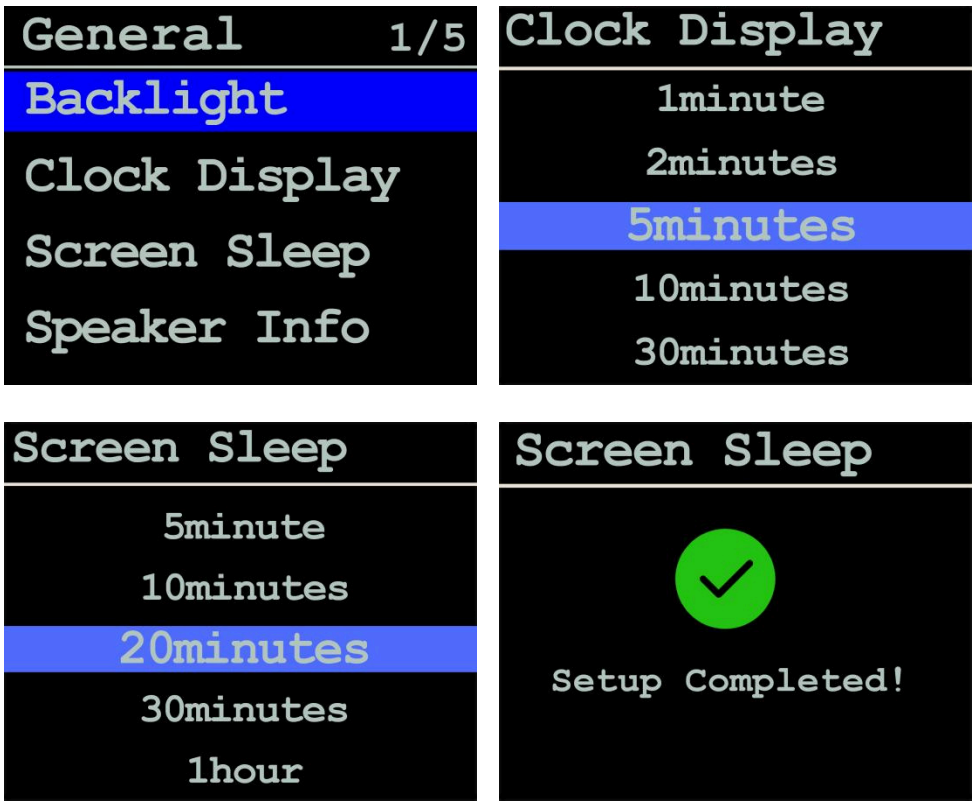
- **Network configuration/pairing:** When ADAmp.100 is working, in Network Source or Bluetooth Source, long press the play button on the remote control or short press the Reset button on the back of the device to release the WiFi hotspot to reconfigure the network or disconnect the current Bluetooth connection and re-pair.
- **Master volume adjustment:** The master volume of ADAmp.100 is divided into 32 levels. The volume can be adjusted through the remote control, coding knob and APP respectively. The output gain of the audio amplifier changes with the volume level and is displayed on the display screen and the APP volume bar.
- **Audio operation:** When ADAmp.100 works on Network, Bluetooth, or USB Disk Source, it supports using the remote control and APP to control the previous/next song, play and pause, and you can also drag the playback progress and switch playback modes in the APP (such as: single song loop/shuffle).
- **Menu description:** When ADAmp.100 is working, press and hold the MODE button on the remote control or the FUNCTION button on the device to call out the setting menu (as shown in the picture below). In the menu, users can independently adjust the BASS level, TREBLE level, system settings and restore factory settings. Press the switch button on remote control or rotate the knob to scroll to select, and then short press the FUNCTION button or the play button to confirm.



- **BASS/TREBLE adjustment instructions:** ADAmp.100 has 11 adjustable BASS/TREBLE levels, the positive and negative gains are 5db respectively, the output of the audio amplifier will change with the adjustment, and the gain will be displayed on the display.

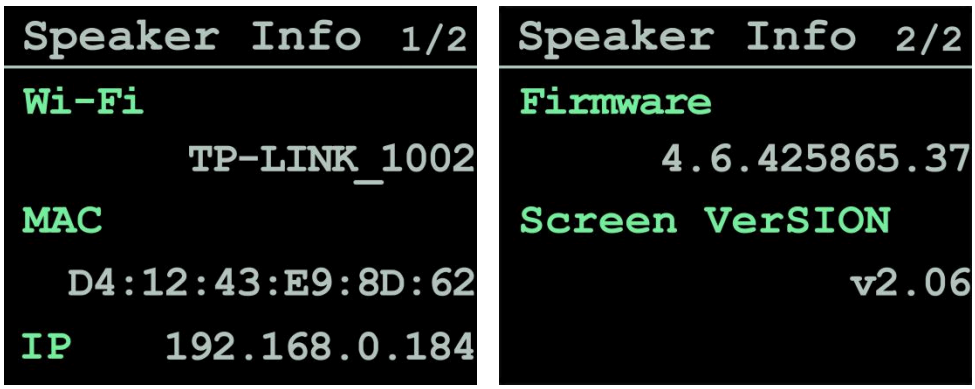


- **System setting description:** After selecting the General setting menu on the Setting interface, you can adjust the brightness of the display backlight, set the clock to display when the clock is idle, set the backlight to automatically sleep when the backlight is idle, and view device information (as shown in the figure below). Backlight brightness, clock display and backlight sleep time can be selected according to the screen prompts, after configuration, short press the FUNCTION key or play button to confirm.



- **Clock display:** After the ADAmp.100 is connected to the network, it will automatically synchronize the network time. According to the clock display configuration in the General settings, after a certain period of time without operation of the audio amplifier, it will display the local time (24-hour system), as shown below:

- **Device information:** Key information of the device can be obtained on the Speaker Info page, as shown in the figure below, the routing name, IP address, device MAC and Firmware Version of the device connection can be obtained.



- **Reset:** Long press the Reset button on the back of the device to restore the factory settings of the ADAmp.100, reset the system parameters to the factory default state and clear the wireless network connection information.

5.Parts list

NO.	Name	Qty
1	ADAmp.100 Hi-Fi Wifi Stereo Audio	1pcs
2	Amplifier Power cord	1pcs
3	RCA to RCA line	1pcs
4	Remote control	1pcs
5	Omnidirectional Glue Stick Antenna	1pcs