MUSICALL

DDA-SA235D

User Manual

Wireless Streaming Amplifier

Wireless | Spotify | AirPlay | Multi-Room | InternetRadio

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1. Introduction

DDA-SA235D streaming Bluetooth 5.0 amplifier. Adding it to your current stereo system will enable you to stream music from your smart device, USB, NAS or streaming services, such as Spotify,Tidal or Qobuz etc by 4STREAM App, AirPlay, Bluetooth or other DLNA apps. Adding more units to your home audio system can set up a wireless multiroom or multizone whole house audio system, it will give you totally new and great experience to play and enjoy your music

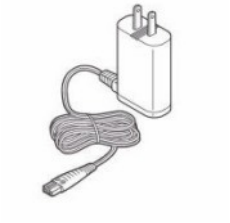
2. What's in the box

Main unit x1

User's Manual x1

2-1RCA cables x1

Power adapter x1



Remote control x1

3. Main Features

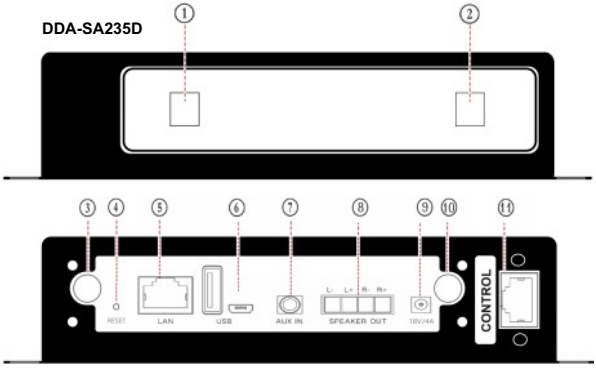
- Streaming music via network without distance limitation or Bluetooth 5.0 up to 15 meters.
- Bluetooth for true high resolution music.
- Spotify connect, Airplay, Qplay, DLNA, UPnP streaming protocols supported.
- Support streaming source from online services, smart device memory, USB pen drive, NAS, Bluetooth and line in.
- Multiroom and multizone streaming enabled by mutiple units connected in same network.
- All music sources can be restreamed in sync to other models from us.
- Airplay,Spotify Connect, Qplay, DLNA, UPnP protocol and 3rd party app compatible.
- High quality music streaming support, sample rate decoding up to 24bit, 192kHz.
- Spotify, Deezer, Tidal, Qobuz, iHeartRadio, TuneIn, Napster, lots of online streaming services integrated to use in the app.
- Free iOS and Android app available.
- Free global online update for new features.
- Full function remote controller and optional wall panel for use without a mobile device.
- Line input for more possible external audio input
- EQ adjustment via app or remote controller.
- Preset playlist is available and short buttons on remote controller and wall panel for one button play.
- iTunes works with PC streaming .
- Custom URL's can be saved as a preset in the webinterface, this makes it possible to use a central icecast server to stream all radio streams to the DDA-SA235D's which makes maintenance of the streams easy for big systems.
- HTTP API, TCP API, UART API available for integration.

4. Specification

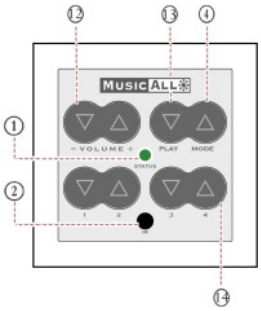
Connectivity	Wireless network	IEEE802.11 b/g/n 2.4G
	Ethernet	Single 10/100M RJ45
	BT	5.0
	USB Host	Play USB music
Bluetooth Distance		15M
Power Input		DC 18V/4A
Audio Input		3.5mm Line in
Frequency response		20Hz to 20kHz
Speaker Power		2X35W@4Ω , 2X18W@8Ω
THD+N		0.03%, @1kHz 50W+50W 24V-4Ω
Speaker Impedance		4-8ohms
Music Format		FLAC/MP3/AAC/AAC+/ALAC/APE/WAV
Decoding		Up to 24bit/192kHz
Protocols		AirPlay, DLNA, UPnP, Spotify Connect, Qplay
Dimensions		187mm*95mm*41mm
Weight		0.3kg

5. Interface

DDA-SA235D



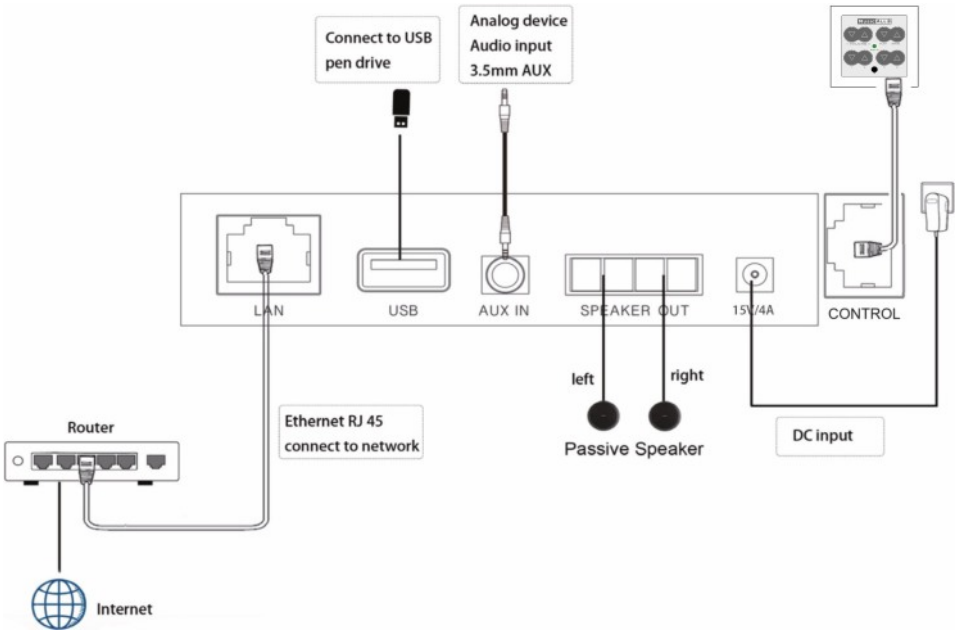
IPC8 Controller (optional accessory)
Connect to DDA-SA235D using cat5/6 patch cable.



1 **LED** Device status
White: Streaming
Blue: Bluetooth, ready to pair when flashing
Red: PC/USB
Green: Aux input
2 **IR receiver** for remote control.
3 **WiFi** antenna connection for (supplied) Wi-Fi antenna.
4 **RESET/MODE**
Short press: Change source
Long press: Turn device on/off
2x quickly in Bluetooth mode, unpair existing Bluetooth connection
2x quicky in Streaming mode, unpair Wi-Fi connection
3x quickly: Restore factory setttings
5 **LAN connection**-> Connect before powering the device to use LAN instead of Wi-Fi. When LAN is not connected during startup the device enters Wi-Fi setup mode.
6 **USB** connection for USB-stick (1024 tracks max.).
Micro-USB connection for PC, for use as external sound card.
7 **AUX** connection for external line source like TV, beamer, etc.
8 **SPEAKER OUT** connection for passive speakers (4-16 Ohm).
9 **18V/4A** DC connection for (supplied) power supply.
10 **BT** antenna connection for (supplied) Bluetooth antenna.
11 **CONTROL** connection for MusicAll IPC8 wall panel **ONLY!**
12 **VOLUME** set volume (for every source independently)
13 **PLAY** play/pause stream or Bluetooth device
14 **PRESET 1-4** save radiostreams, playlists

6. Remote controller

7. Connection diagram



8. How to use

8.1 App download

Download the 4STREAM application from App Store for iOS based devices and Google Play Store for Android based devices.
The application supports English, Spanish, French, German, Italian, Portugese, Korean, Simplified Chinese, Traditional Chinese and Japanese

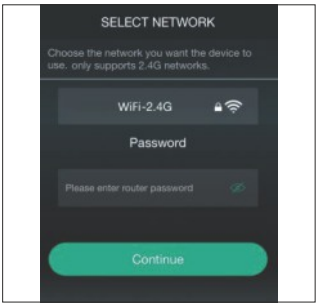
4STREAM

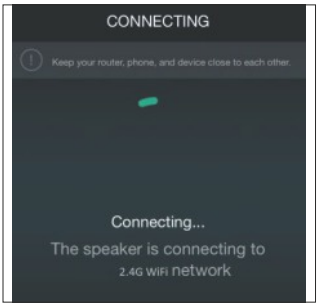
Available on the App Store

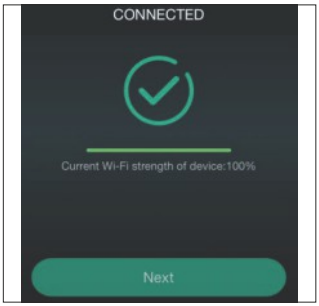
ANDROID APP ON Google play

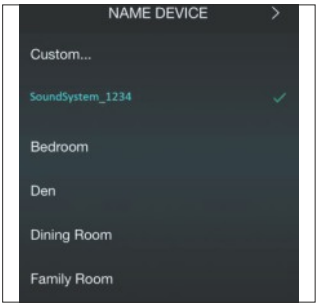
8.2 Connection

8.2.1 Option 1 - Connection via Wi-Fi -> **We recommend using LAN, see option 2.**
1. Power the device.
2. Connect your mobile devices to your network.
3. Go for mobile device WLAN settings> Connect
mobile device to hotspot SoundSystem_xxxx you will see a WiFi logo .(short press the reset button if the hotspot is not found)
4. Open the 4STREAM application, follow the guides
5. Choose the 2.4G network(only 2.4G network will appear), enter router password>wait for the device to be configured.
* For multiple units connecting to same router, router password will be saved .

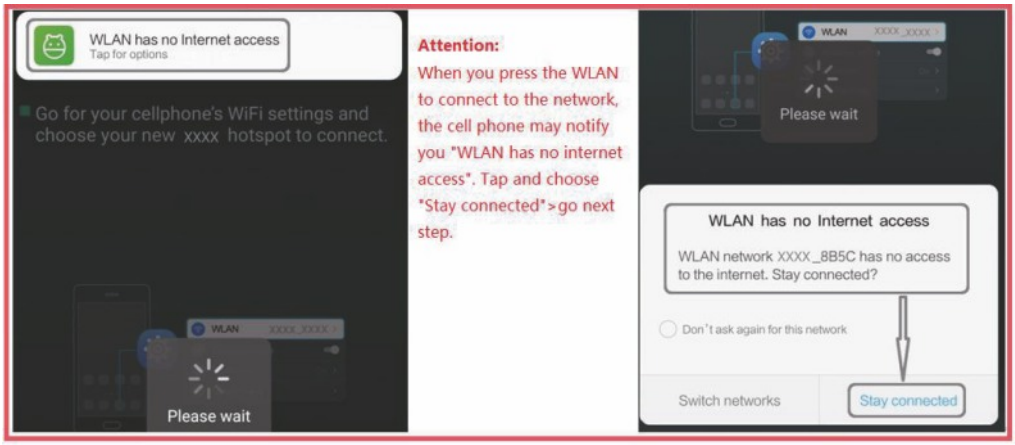








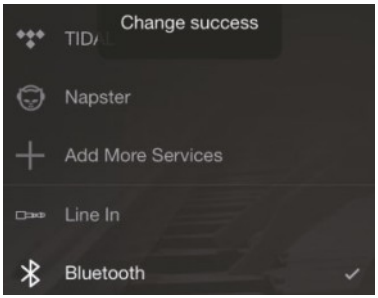
*Attention for Android users
Different brand mobile phones may ask you to allow to use SoundSystem WiFi network, please choose yes, if not, you may not able to set up successfully .



8.2.2 Option 2 - Connection via LAN
1. Before powering up the device plug in the wired cable to the RJ45 Ethernet, and after that the power supply. The device will show on the app in about 10 seconds. (Note: the cell phone and the device must be in the same network)

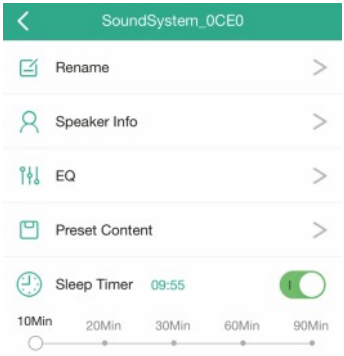
8.2.3 Option 3 - Bluetooth pair
1. Open the 4STREAM app.
2. Choose the Bluetooth mode at the bottom of the music source page of 4STREAM app.(to activate the Bluetooth). You can also start Bluetooth pairing by selecting the Bluetooth mode on the remote or wall panel.
3. Open the Bluetooth on the mobile device.
4. Pair to device Bluetooth “SoundSystem”.

-> When you want to unpair a Bluetooth connection make sure to select the Bluetooth mode (blue led) and press mode button on the wall panel 2x short. When the blue led starts flashing the device is ready to pair.



8.3 App features

8.3.1 Device setting



Rename: to customize the device name

Speaker info: you will see the device information like Mac ID,device,IP, SSID etc

EQ: open to control the device bass and treble

Preset content: you will see all the preset contents here

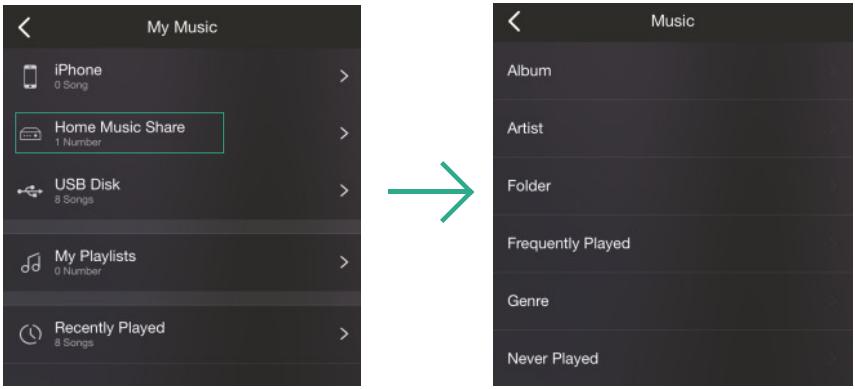
Sleep timer: Countdown to turn off the device.

Alarm clock: Set up to 4 different alarm clocks with the playlist or preset of your choice.

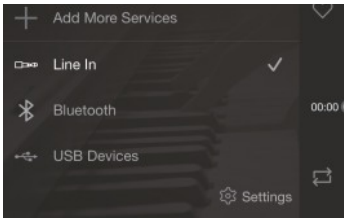
8.3.2 To play local storage music

-Click the “My Music” on the application and choose the music ready there. NOTES: the iOS based devices have blocked the access to iTunes library.

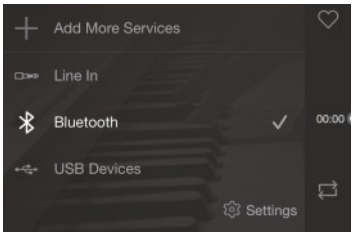
8.3.3 To play music from NAS
Please note that our system only support NAS with DLNA feature.



8.3.4 To play line in mode
- Connect the AUX cables to the TV or other audio sources
- Choose line in mode on the application or remote control

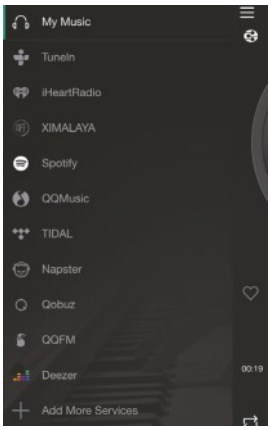


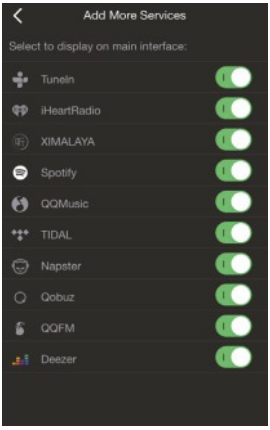
8.3.5 To play Bluetooth mode
- Choose the Bluetooth mode on the application or remote control, the LED will change to blue
- Open the Bluetooth on your cellphone/tablet
- Pair the device Bluetooth (SoundSystem) and play



8.4 Streaming services

To use the online streaming services, iHeartRadio, Spotify, Tidal, Qobuz and Deezer may need to register account at the service provider platform.



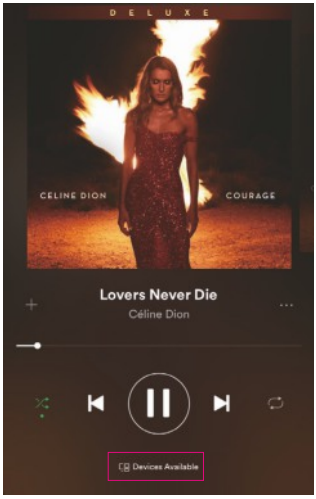


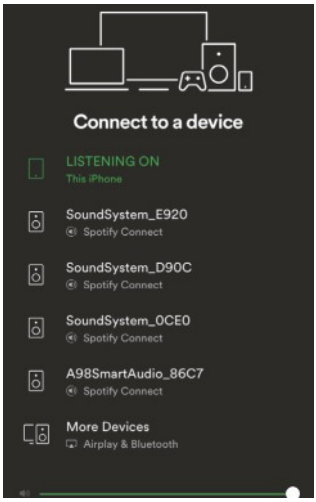
8.4.1 Spotify

To use Spotify, you have to own spotify premium account .

You will find the device in the device list on the Spotify application and choose the device you want to play.

NOTE: one Spotify account can only streaming to one device at a time.



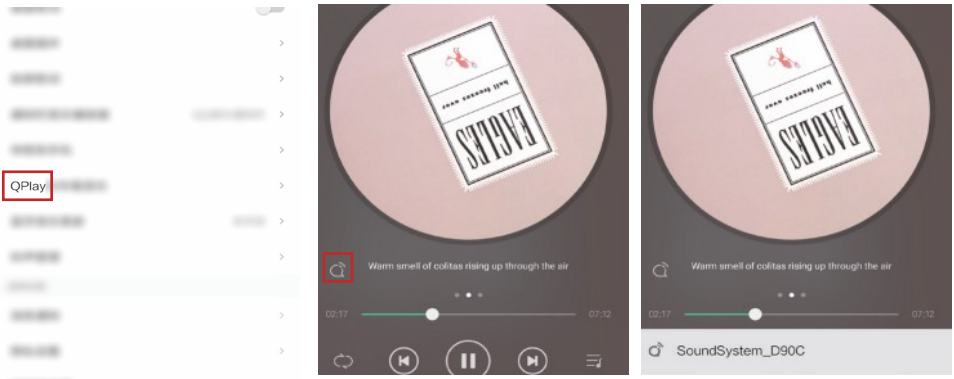


8.4.2 AirPlay

The device supports AirPlay1, you can choose the AirPlay and play music

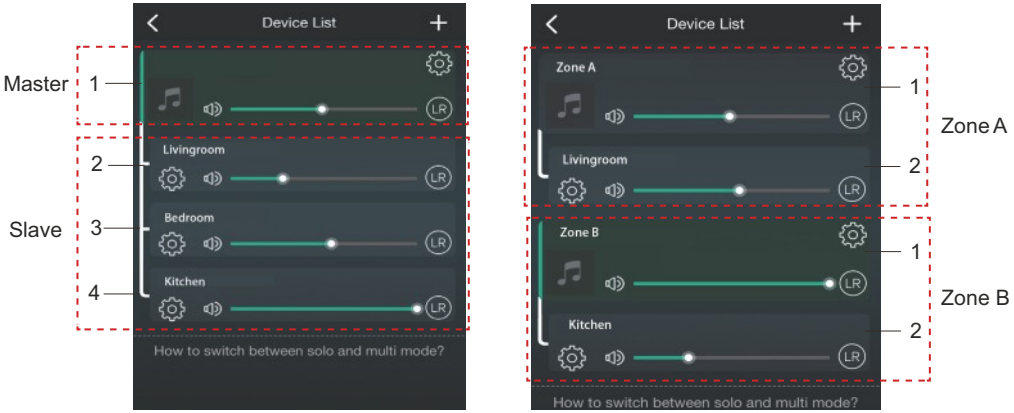
8.4.3 Qplay

Our devices support QQ music using the Qplay protocol, you have to turn on the Qplay in the QQ music player setting and then find the device in the Qplay list.



8.5 Multiroom and Multizone

Users can group multiroom and multizone on the Application, for example you can group device 1,2,3 and 4 together and play same music in sync, or group device 1 and 2 as zone A and device 3 and 4 as zone B, and play different music in zone A and zone B.



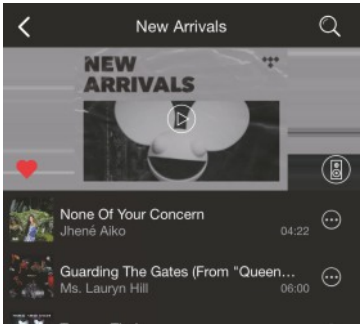
8.6 Left and right channel

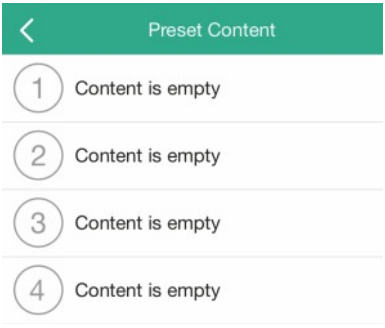
Users can choose the right channel or left channel or stereo mode on the application, or choose left channel on device A and choose right channel on device B, and group them together and play in sync to make stereo.

8.7 Preset

There are 6 buttons on the remote control and 4 at the IPC8 wall panel, users can preset play lists(only the lists with speaker icon

can preset) on the application from 1~6 for example, then when you press button 1 on the remote, the preset list 1 will play. (Users can preset 10 playlists on the application, but the remote control can only save from 1-6). See chapter 10 for custom URL's and presets.

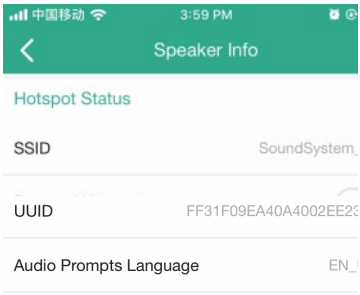




8.8 Source mode change

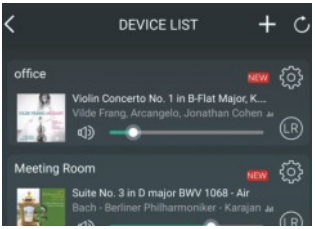
Method 1: change on application
Users can change play mode on the application, WiFi, Bluetooth, Line input and USB. To change from Bluetooth/line input/USB to WiFi, only need choose the online streaming services such as Tidal, Qobuz or Spotify or cell phone local storage music or any music via DLNA or UPnP streaming.
Method 2: change with remote control or IPC8 wall panel.
Users can use the remote control to change the play modes-WiFi, Bluetooth, Line input and USB.

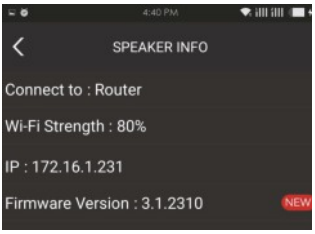
8.9 Restore factory setting
Two methods to restore device to factory setting
Method 1-press the reset button 3 times very quickly on the device (or use mode button on IPC8 wall panel).
Method 2-go for "App setting-speaker info-restore factory setting"

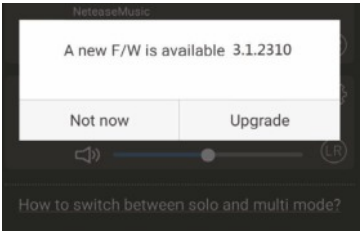


8.10 Firmware update

The application will notify you in app when there is a new fireware version available.It's recommended to update fireware whenever available as this might not only correct bugs or improve security,but also can add new features or services.



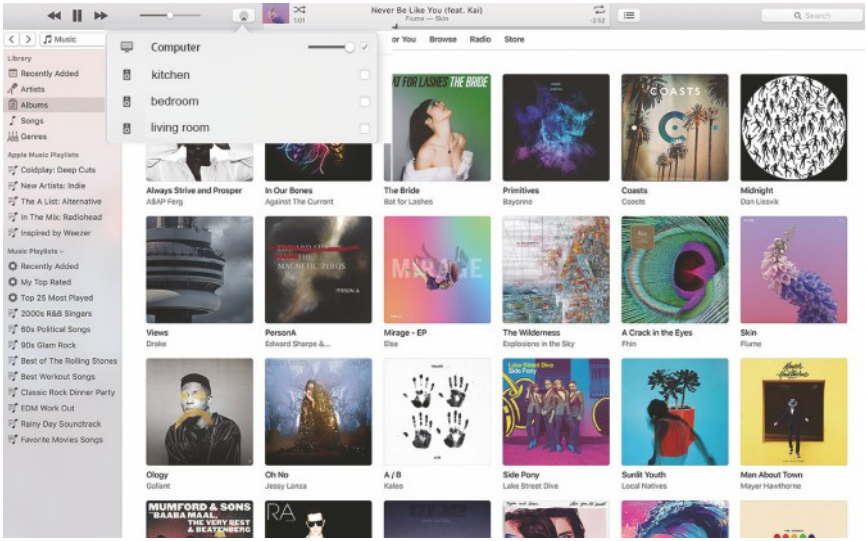




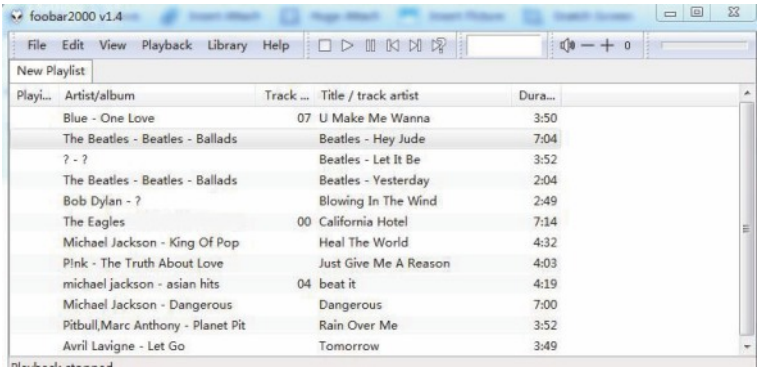
9. Play on PC

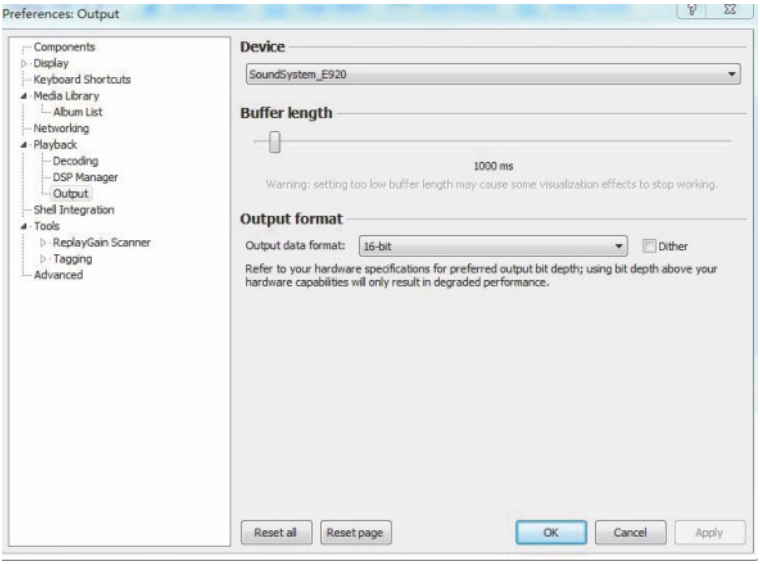
There are several tools to play music from the PC

9.1 To play music from iTunes on Mac and Windows PC
Our devices can stream audio sources from local storage, media library in Mac and Windows PC and online services from iTunes. Users can easily play and switch music, control volume and choose the audio devices to group and upgroup the audio devices.



9.2 To play music from Windows PC via Foobar2000
Our devices support UPnP protocol, with the popular foobar2000, you can play music from Windows PC to our devices. Please follow the steps below:
1. download the foobar2000 and install it.
2. refer to the doc how to add UPnP component at our website download column.
3.refer the link below how to add UPnP component http://wiki.hydrogenaud.io/index.php?title=Foobar2000:How_to_install_a_component
4. restart the foobar2000, then check: Library>configure>output>device, you will see the PLAYER in device option column.
5. Choose the device to play the music.

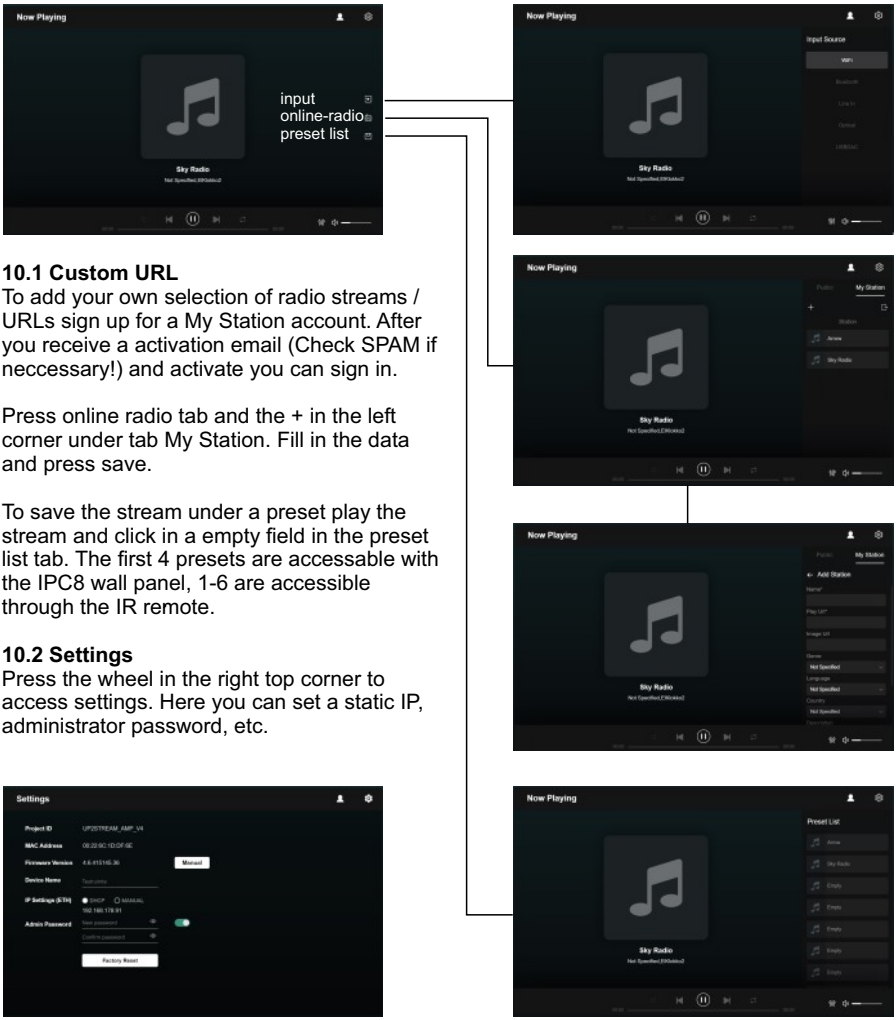

foobar2000 v1.4
File Edit View Playback Library Help
New Playlist
Playi... Artist/album Track ... Title / track artist Dura...
Blue - One Love 07 U Make Me Wanna 3:50
The Beatles - Beatles - Ballads Beatles - Hey Jude 7:04
? - ? Beatles - Let It Be 3:52
The Beatles - Beatles - Ballads Beatles - Yesterday 2:04
Bob Dylan - ? Blowing In The Wind 2:49
The Eagles 00 California Hotel 7:14
Michael Jackson - King Of Pop Heal The World 4:32
Pink - The Truth About Love Just Give Me A Reason 4:03
michael jackson - asian hits 04 beat it 4:19
Michael Jackson - Dangerous Dangerous 7:00
Pitbull,Marc Anthony - Planet Pit Rain Over Me 3:52
Avril Lavigne - Let Go Tomorrow 3:49


Preferences: Output
Components
Display
Keyboard Shortcuts
Media Library
Album List
Networking
Playback
Decoding
DSP Manager
Output
Shell Integration
Tools
ReplayGain Scanner
Tagging
Advanced
Device
SoundSystem_E920
Buffer length
1000 ms
Warning: setting too low buffer length may cause some visualization effects to stop working.
Output format
Output data format: 16-bit
Dither
Refer to your hardware specifications for preferred output bit depth; using bit depth above your hardware capabilities will only result in degraded performance.
Reset all
Reset page
OK
Cancel
Apply

10. Web interface

To activate, reset the device to factory settings, see page 14. Then browse to the device's IP adress which can be found in the app under settings/loudspeaker information.

Log in with your password, default is admin.



10.1 Custom URL

To add your own selection of radio streams / URLs sign up for a My Station account. After you receive a activation email (Check SPAM if neccessary!) and activate you can sign in.

Press online radio tab and the + in the left corner under tab My Station. Fill in the data and press save.

To save the stream under a preset play the stream and click in a empty field in the preset list tab. The first 4 presets are accessable with the IPC8 wall panel, 1-6 are accessible through the IR remote.

10.2 Settings

Press the wheel in the right top corner to access settings. Here you can set a static IP, administrator password, etc.

FAQ

Q: Do your devices support airplay and third-party DLNA apps?
A: Yes. They support airplay and third-party apps like BubbleUPNP...
Q: How many zones can you group in one system?
A: 12 rooms is the maximum, while 8 zones are recommended.
Q: How many individual devices can you use in one system?
A: As long as they are not grouped the maximum depends on the available IP adresses from the router.
Q: What distance can your wireless audio system cover?
A: Once the system is connected to your WiFi router, you can stream your music anywhere there is a WiFi signal.
Q: Can it play high resolution music?
A: Yes. Our devices can play APE and FLAC within the normal bit rate range. They also support decoding 24bit/192kHz music files.
Q: How many languages do you support?
A: Our devices will auto-detect your mobile device language and change automatically. Currently, we support English, French, German, Spanish, Chinese, Portuguese, Korean and Japanese and more on the way.
Q: What online music services do you support?
A: Spotify,Deezer,Quboz, Tidal, iHeartRadio, TuneIn, Napster, and more, with more pending.
Q: Can I play local music?
A: Yes. You can play music from “MY MUSIC” on the application from local storage devices such as mobile device storage, USB thumb drives and NAS.
Q: Can the device work with Windows devices?
A: The Windows application is not available at the moment, but on the Windows PC, users can use iTunes, Foobar2000 and Spotify connect.
Q: Can all music sources play in multiroom mode?
A: Yes, the online streaming music, line input and Bluetooth all can play multiroom mode.
Q: Does your device support Google Assistant or Alexa?
A: Our devices do not support Alexa, yet through Bluetooth, our device can work with Google Assistant.

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