



DA-SA20R

# User Manual



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## Wireless Streaming Preamplifier



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### 9.3 USB Audio

Connect the device to your PC with USB cable (make sure it's a data cable including the signal wires). The PC will automatically discover a USB sound card, and when you activated it as the system main output, the PC will send the audio output to the device in digital (44.1KHz/16bits). You can stream to other devices over multiroom connection. NOTE: there's about 3 seconds delay for multiroom slave devices.

## 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: 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?

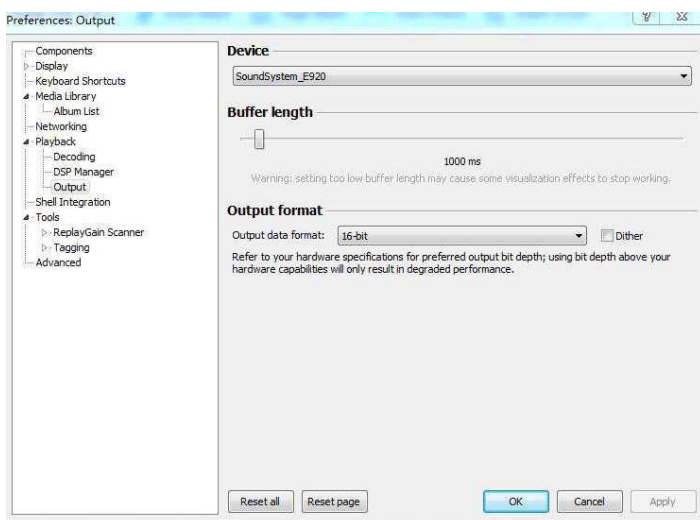
A: The Windows application is not available at the moment, but on the Windows PC, users can use iTunes, Foobar2000 and Spotify connect.

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 donot support Alexa, yet through Bluetooth, our device can work with Google Assistant.



## 1. Introduction

DA-SA20R is a wireless streaming preamplifier with network and Bluetooth 5.0 connectivity. Adding the device to your audio system will enable you stream music from your smart devices. Connect via USB, NAS or streaming services such as Spotify, Tidal or Qobuz. This is done by 4STREAM app, AirPlay, Bluetooth or other third party compatible app. It supports streaming high quality music in samplerate up to 24bit 192khz and supports decoding lossless audio format such as FLAC, APE and WAV. With multiple units it is easy to setup a wireless multiroom or multizone whole houseaudio system, it will give you a totally new and great way to experience your music.

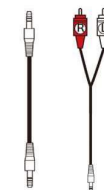
## 2. What's in the box

Main unit x1

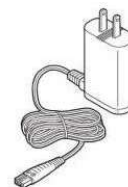
User's Manual x1

3.5mm cable x2

3.5mm to RCA cable x2

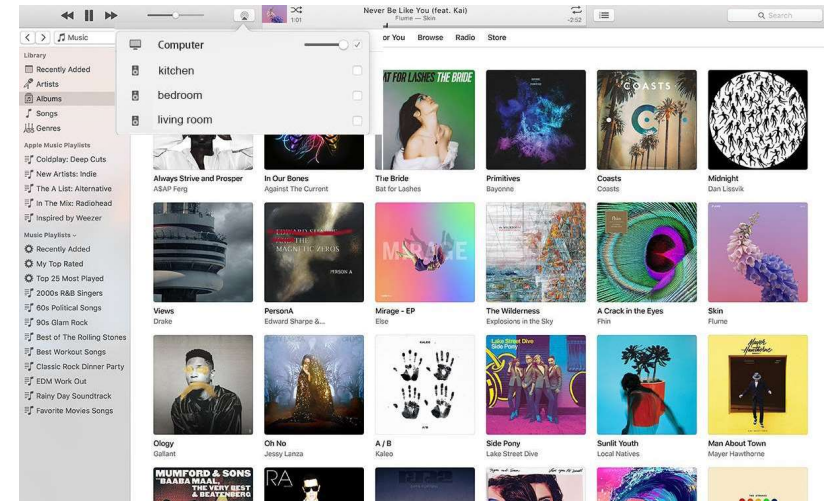


Power adapter x2



### 3. Main Features

- Streaming music via network without distance limitation or Bluetooth 5.0 up to 15 meters.
- Spotify connect , Airplay, Qplay, DLNA, UPnP streaming protocols supported.
- Supports streaming sources from online services, smart device memory, USB stick, NAS, Bluetooth or line in.
- Multiroom and multizone streaming with multiple units connected to the same network.
- All music sources can be restreamed in sync to the other devices in the network.
- Airplay, Spotify Connect, Qplay, DLNA, UPnP protocol and 3rd party app compatible.
- High quality music streaming support, audio 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 for use without a mobile device .
- EQ adjustment via app or remote controller.
- iTunes can be used with PC streaming.
- Connect to PC and stream music from a PC or Mac digitally.

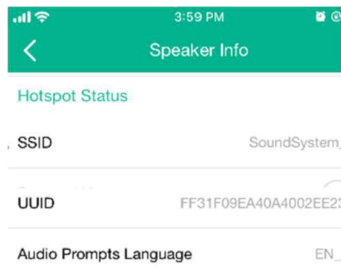


#### 9.2 To play music from Windows PC via Foobar2000

Our devices support UPnP protocol, with the popular Foobar2000, you can play music from Windows

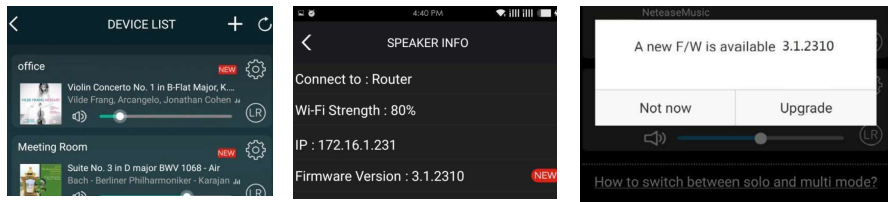
PC to our devices. Please follow the steps below:

1. download 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](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.



#### 8.10 Firmware update

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



## 9. Play from PC / Mac

There are several tools to play music from the PC

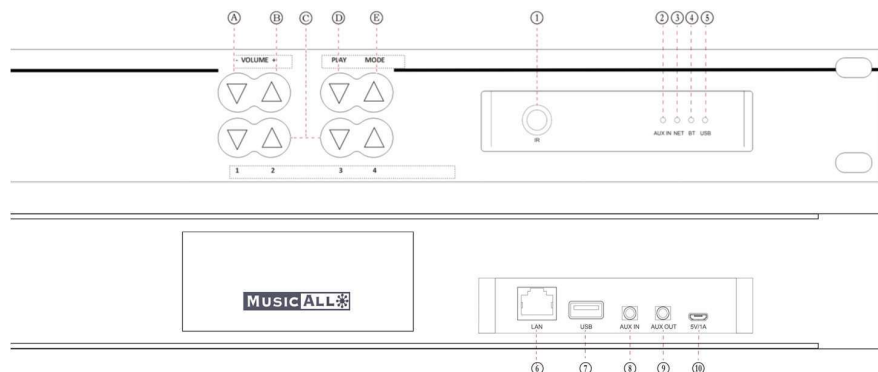
### 9.1 To play music from iTunes on Mac and Windows PC

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 or ungroup the audio devices.

## 4. Specifications

Connectivity	Wireless network	2x IEEE802.11b/g/n 2.4G
	Ethernet	2x RJ45 single 10/100M
	Bluetooth	5.0
	USB Host	2.0
Bluetooth Distance		30M
Power Input		5V-1A micro USB input
Audio Output		2x Analog 3.5mm mini jack
Frequency response		20Hz to 20kHz
Audio Input		2x Analog 3.5mm mini jack
SNR		91dB
THD		0.03%
Music Format		FLAC/MP3/AAC/AAC+/ALAC/APE/WAV
Sample Rate		Decoding Up to 24bit/192kHz
Protocols		AirPlay, DLNA, UPnP, Spotify Connect, Qplay
LED		NET: White-power on/WiFi Mode BT: Blue-Bluetooth Mode USB: Red-USB Mode Aux: Green-line input Mode
Dimensions		483(W)x45(H)x112mm(D)
Weight		1.1kg

## 5.Interface



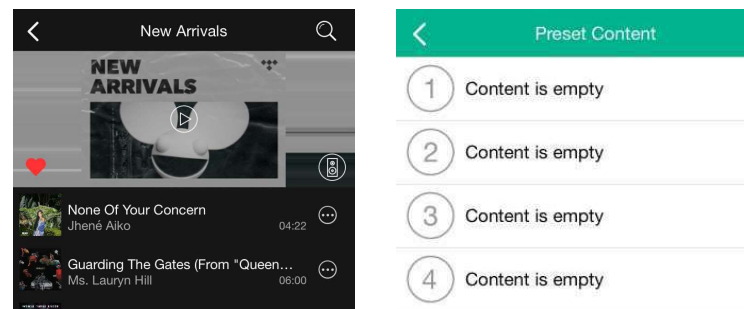
- ① **IR receiver:** For remote control.
- ② **AUX IN:** Green-line input Mode.
- ③ **NET:** White-power on/WiFi Mode.
- ④ **BT:** Blue-Bluetooth Mode.
- ⑤ **USB:** Red-USB Mode.
- ⑥ **SLEEP:** Short press once: Switch input mode;  
Long press: Switch on/off;  
Short press twice: Re-pair Wifi or Bluetooth in Wifi or Bluetooth mode;  
Short press three times: Restore to factory settings.  
\*When device is off, just short press the power button to active the device.
- ⑦ **LAN:** Wired connection to router.
- ⑧ **USB:** To connect USB pen drive(1024 tracks max).
- ⑨ **AUX IN:** For external audio sources from TV, CD player and soon.
- ⑩ **AUX OUT:** To provide analog audio to other devices.
- ⑪ **5V/1A:** 5V/1A Micro USB input.
- ① **VOLUME -:** Turn down music volume of active source
- ② **VOLUME +:** Turn up music volume of active source
- ③ **PRESET 1..4:** See chapter 8.7
- ④ **PLAY:** Play / pause active stream / playlist
- ⑤ **MODE:** Select source

## 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 Presets

There are 6 buttons on the remote control and 4 at the device, users can preset Tune-in radio stations or playlists (only the lists with speaker icon ⑧ can be a 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 remotecontrol can only save from 1-6)



## 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

Users can use the remote control to change the play modes-WiFi, Bluetooth, Line input and USB.

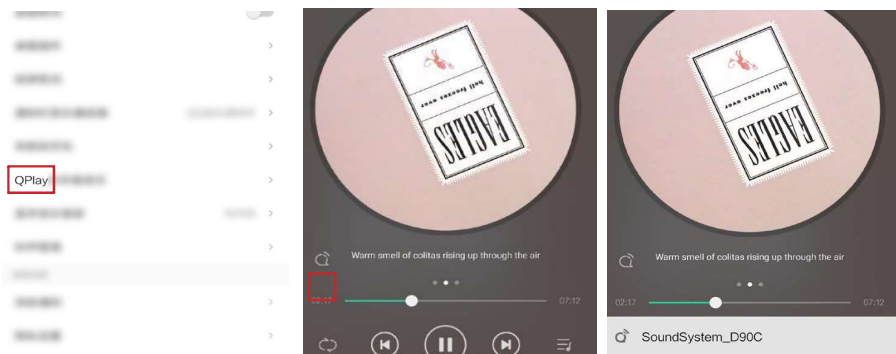
Method 3: Press mode button on the device

## 8.9 Restore factory settings

Two methods to restore device to factory setting

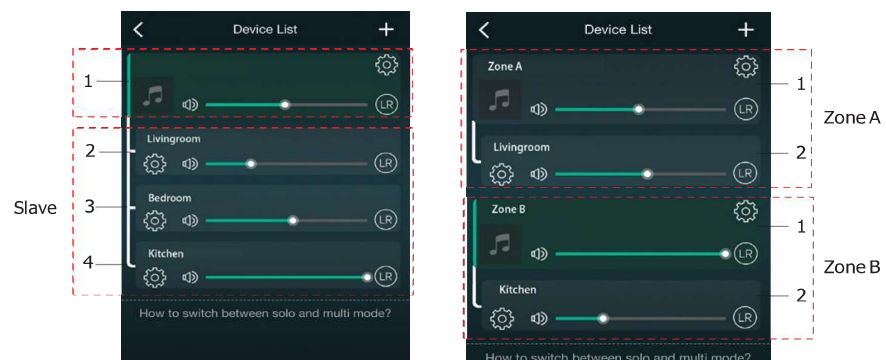
Method 1: long press the SLEEP button on the device for 8-10 seconds

Method 2: In the app choose Settings->speaker Info->restore factory settings



### 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.

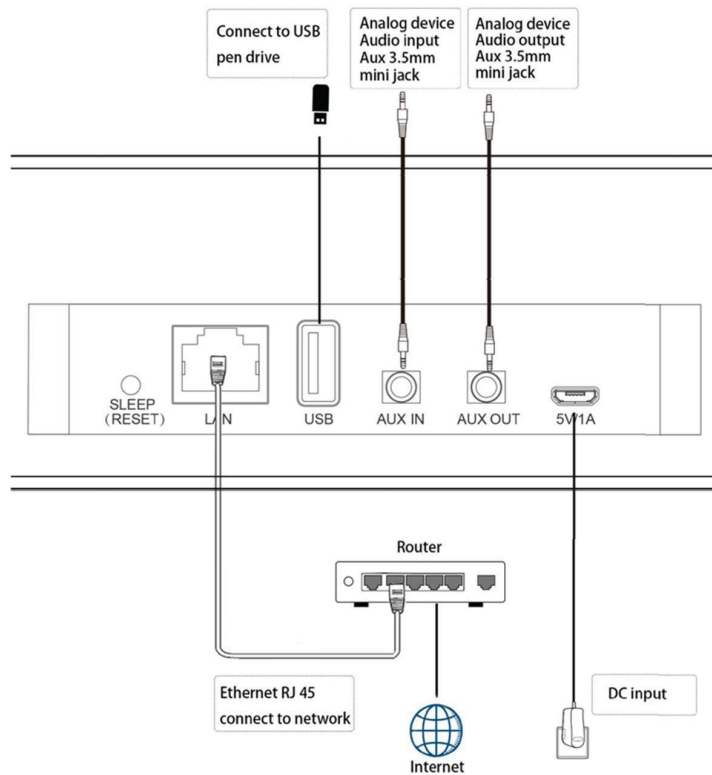


### 6. Remote controller (optional)





## 7. Connection diagram

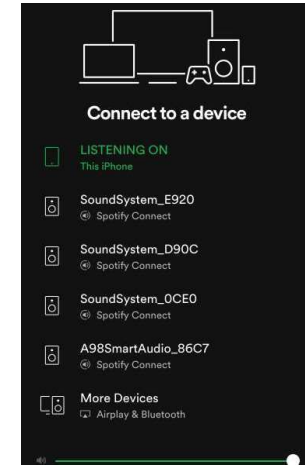
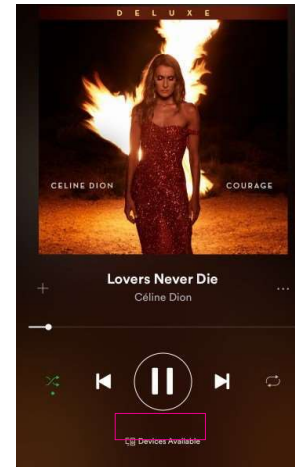


## 8. How to use

### 8.1 App download

Download the 4STREAM application from the App Store for iOS based devices or from the Google Play Store for Android devices.

The application supports English, Spanish, French, German, Italian, Portuguese, Korean, Simplified Chinese, Traditional Chinese and Japanese language.



### 8.4.2 AirPlay

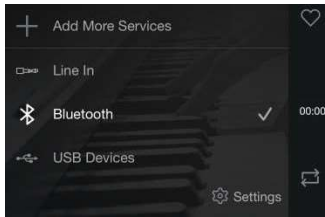
The device supports AirPlay 1, you can choose AirPlay and play music



### 8.4.3 Qplay

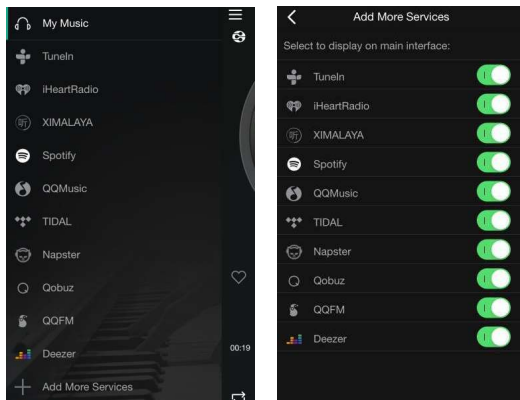
Our devices support QQ music using the Qplay protocol, you have to turn on the Qplay in the QQ music player setting and then find the device in the Qplay list.





#### 8.4 Streaming services

To use the online streaming services, iHeartRadio, Spotify, Tidal, Qobuz and Deezer you need a user account at the service provider platform.



##### 8.4.1 Spotify

To use Spotify Connect, you need access to a Spotify premium subscription.

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

NOTE: Spotify accounts can only stream to one device at a time.

8.2 Initial setup (We recommend LAN connection for best results, see chapter 8.2.2)

##### 8.2.1 Connection via WiFi

- 1) Hold the SLEEP button then plug in the power cable to force the device into WiFi setup.
- 2) The LED light will start flashing, release the button and wait until the LED flashes slowly.
- 3) Make sure your mobile is connected to your home network using 2.4G and your GPS and Bluetooth is on.
- 4) Open the 4Stream app. For Android devices the system will ask for permission to use GPS data & File storage, please click accept to continue.

This GPS permission is setup by Google for BLE usage, once setup is finished you can go to system settings and disable it, file storage permission is to let 4Stream access your mp3 files stored in your mobile.

- 5) The 4Stream app will list out all the device available for setup, choose the one you want.
- 6) The 4Stream app will then ask you to choose the network you want the device to connect to, choose the one you want to connect.
- 7) Now enter password for your network, if this is not the network you want the device to connect, you can change it to the desired one.
- 8) Once connection is finished, it will automatically check for new updates. Install them and proceed.
- 9) Then you can change the name of the device. You can select a pre-configured one or enter your own.
- 10) After you define the name of the device, you will see it appears in the device list in 4stream app and now you can start streaming music.

\*If you change to another router, or the password of the connected router has been changed, please long press SLEEP button for 5 secs in WiFi mode to reset the connection.

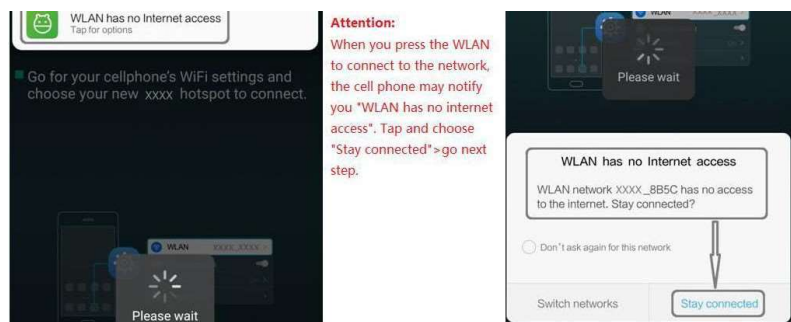
\* Hold SLEEP button then plug in the power can force the device to enter WiFi mode. If you have setup router connection before, the device will auto connect to that router.

If the above method failed to find your device, it will prompt you to setup by WiFi.

Please click "pair via wifi" and do the following:

1. Turn on your GPS.
2. Goto your mobile WiFi settings and search for SoundSystem\_xxxx WiFi and connect.
3. Go back to 4Stream app and select the router SSID you want your Up2stream device connect to (enter password if required) and select continue.
4. After you define the name of the device, you will see it appears in the device list in 4stream app and now you can start streaming music

\*Attention for Android users: Some mobile phone brands may ask you to allow to use SoundSystem WiFi network, please choose yes, if not, you may not able to set up successfully. It may also ask you to authorize other things, please choose yes or it may affect your use.



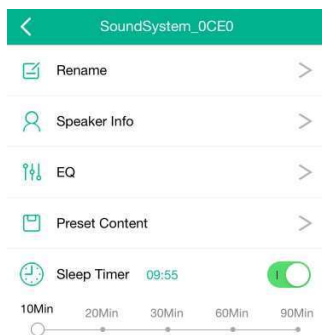
## 8.2.2 Connection via LAN

Install and open the 4STREAM app.

Plug in the wired cable to the RJ45 Ethernet, the device will show on the app in about 10 seconds.

## 8.3 App features

### 8.3.1 Device settings



**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 bass and treble

**Preset content:** You will see all the preset contents here

**Sleep timer:** Countdown to stop the music

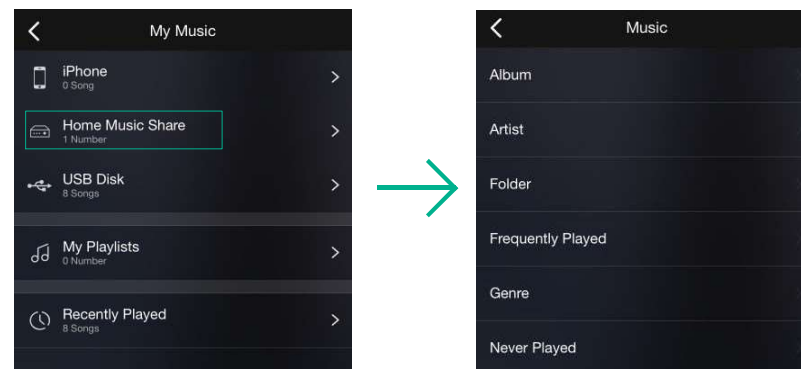
### 8.3.2 To play locally stored music

-Click the "My Music" on the application and choose the music files there.

NOTES: the iOS based devices have blocked the access to the iTunes library.

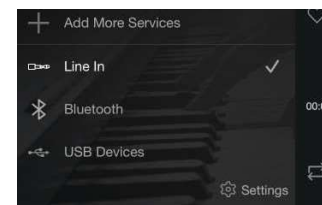
### 8.3.3 To play music from a NAS

Please note that our system only supports Network Attached Storages with DLNA feature.



### 8.3.4 To play line in mode

- Connect the Aux 3.5mm cable to a line source like a TV
- 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 and the device becomes visible for other Bluetooth devices.
- Open the Bluetooth on your cellphone/tablet.
- Pair the device (SoundSystem\_XXXX) and play.