

# HDL{ HDL-MZBOX-A50B.30}



# Notices

## **Disclaimer**

Any changes or modifications made to the module which have not been expressly approved by HDL will void the product warranty.

The module can only be serviced by HDL trained technicians, the use of outside agencies to service any HDL product will void the product warranty.

This module must be installed and used in strict accordance to the HDL instructions, as detailed in the relevant HDL user documentation.

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## 1. Introduction

The HomePlay network player has been created to stream crystal clear audio to multiple rooms within a building. Controlled via an IOS / Android app, or a wall mounted HDL user interface, HomePlay allows you to manage the entirety of your audio collection from a single point, and stream audio directly from your favorite online providers. With the ability to directly play files from network attached storage devices (NAS), an onboard micro SD card slot, an onboard USB port, and your connected IOS & Android devices, total audio control has never been easier. Capable of playing MP3, WMA, AAC, AAC+, ALAC, FLAC, APE, and WAV file formats all of your music is now just a tap or click away.

## **1.1 Functionality**

- ✓ Multi format support
- ✓ High fidelity audio streaming
- ✓ Simultaneous multi source multi room streaming
- ✓ Simultaneous single source multi room streaming
- ✓ Fully compatible with HDL room scenes and sequences

## **1.2** Parameters

Audio system :	
Power Amplifier Rated output	32W+32W(8Ω/ohms,1kHz, 0.7%)
Speaker Impedance	4-32 Ω
Dynamic Range	>87dB
S/N Ratio:	>88 dB
Stereo Separation	>81.5dB (1KHz)
Frequency Response	20Hz to 20KHz (±3dB)
Music Source :	
Online Music Services Supported	Pandora,Spotfy,vTuner,Tidal,Qobuz,Rhapsody, iHeartRadio and TuneIn, more coming soon.
Music from Local Storage	Tunes music stored locally on IOS device, music files on Android device or USB storage
NAS	Play from your home network attached storage, DLNA compliant
USB	USB storage device
Line in	Audio input
Bluetooth Supported	BQB Approval, BT 4.0, Dual-mode(2.1 BR / EDR

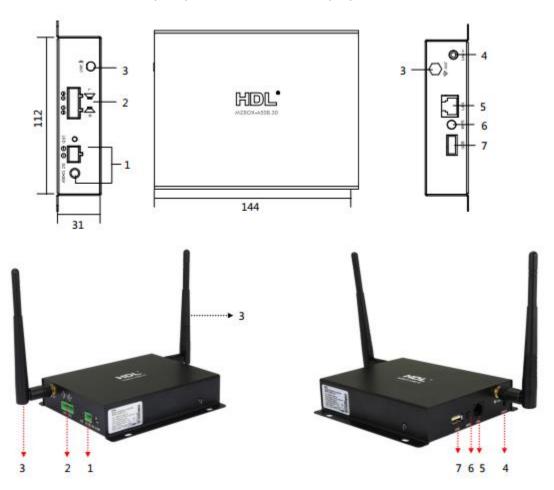


	+ Low Energy Controllers), Compatible with v2.1 + EDR and Bluetooth 4.0 Low Energy (BLE), Max
Audio Formats Supported	MP3/ WMA/ AAC/ AAC+/ ALAC/ FLAC/ APE/ WAV
Wi-Fi :	
Standard	802. b/g/n
Speed(Max)	150M
Operating Frequency	2.46
SAR Value	95dB
Sample Rate	44.1Khz
Antenna	1T1R
Antenna gain	3dBi
NETWORKING :	
Wireless Connectivity:	Supports 802.11 a/b/g/n standards
Wired Connectivity:	Single 10/100M RJ-45 jack
Environmental Conditions:	
Working temperature	-5℃~40℃
Working relative humidity	Up to 90%
Storage temperature	−20°C~+60°C
torage relative humidity	Up to 93%
Approved:	
E, RoHS	
Product Information :	
Power supply	AC100-240V, 60/50Hz/DC
Input	DC24V @ 3.3A
Dimensions	144mm(184mm with antenna)x112mmx31mm
Weight	1.3Kg
Housing material	Glass , ABS, steel plate
Installation	Desk/wall hanging/DB Box
Protection rating	IP20



## **1.3 Product Description**

This chapter is designed to detail the way in which the HomePlay(HDL-MZBOX-A50B.30) can be controlled, its connections, the functionality of specific buttons, and the purpose of additional module attributes.



SN	Model Attributes	Description
1	Power interface	Working voltage:DC12-26V
2	4P5.08 audio output port	Output the audio
3	Wi-Fi Antenna	Receive and send the signal
4	3.5mm audio jack	Input the audio
5	RJ45 port	LAN port
6	WPS button: Connect button.	Press the button, then get in the HDL ON APP input the WiFi name and password, will connect to the WiFi
7	USB interface	After insert the U disk into HomePlay, can play the music in it



# 2. Setup

## 2.1 Connections

HomePlay music player have 2 kinds of connections: wired connection and wireless connection. We recommend you to use wired connection because it is more stable with wired connection.

## Wired Connection:

1-Connect the HomePlay network player and the router with RJ45 cable.

2- Connect the phone to the same router which is connected to the HomePlay network player.

3-Configure the HomePlay network player with HDL ON APP.



## Wireless Connection:

1-Connect the device running the HDL On app to your router.

2-Open the HDL ON APP on your iOS or Android device, input the Wi-Fi name and password, and click next step.

3-Press the WPS button of the HomePlay network player, then it will connect to the corresponding Wi-Fi automatically.

4-The HomePlay network player will tip you if it can connect to the Wi-Fi successfully.





## 2.2 Maintenance and Warranty

The HDL (model number) module is designed to be maintenance free, and has a limited five (5) year warranty on parts from the date of installation. This warranty will not exceed the purchase price of the device in question. This warranty does not cover installation, removal, or reinstallation cost. This warranty is not valid in cases where damage was incurred due to misuse, incorrect installation, or through incorrect repair.

- To ensure a long service life the (model number) must be installed as per the instructions in this manual.
- The module must only be used for the purpose it was designed for.

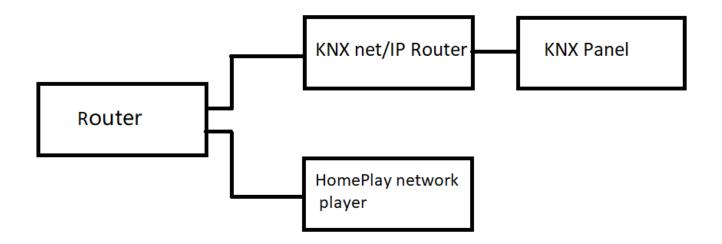
## 3. System Configuration

## 3.1 Basic Programming

## 3.1.1 KNX Setting

**Connection:** If you want to control the HomePlay network player by KNX panel, the HomePlay network and the KNX panel should connect to the same router. For the connection, please refer to the following wiring diagram.





**Physical address:** Fill in the physical address of HomePlay network player.

10-254	Office						-		×
Basic inform	nation KNX setting Setting								
- Physical ad	ldress								
1									
Target List					Current ta	arget group address infoma	tion		
Delete all target group address					0	▲ / 0 ▲ /	0	▲ ▼	
Auto add target group address in order					Add g	group address	Delet	te all	
Index	Name	Length	Data type	^	Index	Group address	De	lete	
1	Play/Stop	1 bit	DPT_Start		1	5/1/1		Delete	
2	Play/Stop Response	1 bit	DPT_Start						
3	Pause	1 bit	DPT_Enable						
4	Pause Response	1 bit	DPT_Enable						
5	Play String	14 byte	DPT_String_ASCII						
6	Play String Response	14 byte	DPT_String_ASCII						
7	Select Source Step	1 bit	DPT_Step						
8	Select Source absolute	1 byte	DPT_Value_1_Ucount						
9	Select Source Response	1 byte	DPT_Value_1_Ucount						
10	Select List/Tune/BlueToothLi	1 bit	DPT_Step						
11	Select Song/Channel	1 bit	DPT_Step						
12	Radio Search	1 bit	DPT_Step						
13	Radio Play Frequency	4 byte	DPT_Value_Frequency						
14	Radio Storig Frequency	4 byte	DPT_Value_Frequency						
15	Radio Read Frequency	4 byte	DPT_Value_Frequency						
16	Audio Mute	1 bit	DPT_Enable						
17	Audio Mute Response	1 bit	DPT_Enable	×					
		ø		🔚 Sav	/e & Close				
Current de	vice :   10-254\Office								.::

Play/stop: Add a group address for it, the length is 1 bit, ON command is for play, OFF command is for stop.



🖳 10-254	Office						- 🗆	×
Basic inform	nation KNX setting Setting							
Physical ad	Physical address							
1								
Target List		Current target group address infomation						
	Delete all target group address					▲ / 0 ▲ / 0	•	
	Auto add target group address in or	der		_	Add	group address	Delete all	
Index	Name	Length	Data type		Index	Group address	Delete	
1	Play/Stop	1 bit	DPT_Start		1	5/1/1	Delet	e
2	Play/Stop Response	1 bit	DPT_Start					
3	Pause	1 bit	DPT_Enable					

Pause: Add a group address for it, the length is 1 bit, ON command is for pause.

10-254	Office				:	×	
Basic inform	nation KNX setting Setting						
Physical ad	Idress						
1							
Target List					Current target group address infomation		
	Delete all target group address						
	Auto add target group address in or	der			Add group address Delete all		
Index	Name	Length	Data type	^	Index Group address Delete	٦	
1	Play/Stop	1 bit	DPT_Start		1 5/1/2 Delete		
2	Play/Stop Response	1 bit	DPT_Start				
3	Pause	1 bit	DPT_Enable				
4	Pause Response	1 bit	DPT_Enable				

Audio Mute: Add a group address for it, the length is 1 bit, ON command is for mute.

10-254\0	Office					-	- 🗆	$\times$
Basic inform	nation KNX setting Setting							
Physical ad	Physical address							
1								
Target List				Current target group address	infomation			
					0 + / 0	÷ / 0	<b></b>	
	Delete all target group address				· · / ·	• / •	•	
	Auto add target group address in or	der			Add group address	(	Delete all	
Index	Name	Length	Data type	^	Index Group address		Delete	
15	Radio Read Frequency	4 byte	DPT_Value_Frequency		1 5/1/3		Delete	
16	Audio Mute	1 bit	DPT_Enable					
17	Audio Mute Response	1 bit	DPT_Enable					
18	Volume Step	1 bit	DPT_Step					

**Select Song/Channel:** Add two group address for it, one group address is for last song, the other one is for next song, ON command is for last song, OFF command is for next song.



10-254	Office					-	- 🗆	×
Basic inform	nation KNX setting Setting							
Physical ad	ldress							
1								
Target List						arget group address infomation		
Delete all target group address							▲ ▼	
	Auto add target group address in oro	ler			Add g	group address	Delete all	
Index	News							
Index	Name	Length	Data type	<u>^ </u>	Index	Group address	Delete	
9	Select Source Response	Length 1 byte	Data type DPT_Value_1_Ucount		Index 1	Group address 5/1/7	Delete Delete	
			Data type	^	Index 1 2	5/1/7		
9	Select Source Response	1 byte	DPT_Value_1_Ucount	^	Index 1 2		Delete	
9 10	Select Source Response Select List/Tune/BlueToothLi	1 byte 1 bit	DPT_Value_1_Ucount DPT_Step		Index 1 2	5/1/7	Delete	

**Volume Step:** Add two group address for it, one group address is for increasing volume, the other one is for reducing volume, ON command is for increasing volume, OFF command is for reducing volume.

10-254\	Office						- 🗆	×
Basic information KNX setting Setting								
Physical ad	ldress							
1								
Target List	Target List Current target group address infomation							
	Delete all target group address					▲ / 0 ▲ / 0	•	
	Auto add target group address in or	der			Add	group address	Delete all	
Index	Name	Length	Data type	^	Index	Group address	Delete	
18	Volume Step	1 bit	DPT_Step		1	5/1/9	Delete	e
19	Volume Absolute	1 byte	DPT_Scaling		2	5/1/10	Delete	e
20 Volume Response 1 byte			DPT_Scaling				1	
21	Bass Step	1 bit	DPT_Step					
22	Bass Absolute	1 byte	DPT Scaling					

**Special Song Play:** Add a group address for it, the length is 1 bit, ON command is for playing special music. The Index 48 means special song 1, and the index 49 means special song 2, and deduce the rest from this.



🛃 1-6\HDL	-Audio_134C					- 🗆	$\times$	
Basic inform	ation KNX setting Setting							
Physical add	dress							
1	• / 1 • / 4 •							
Target List				Current	Current target group address infomation 0 • / 0 • / 0 • Add Index Group address Delete 1 5/1/4 Delete			
	Au	to add group address in	order Delete all	0		÷ Add		
Index	Name	Length	Data type	Index	Group address			
46	Display Song Name Informat	14 byte	DPT_String_ASCII	1	5/1/4	Delete		
47	Display Play Time Informatio	14 byte	DPT_String_ASCII					
48	special song play	1 bit	DPT_Start					
49	special song play	1 bit	DPT_Start					
50	special song play	1 bit	DPT_Start					
51	special song play	1 bit	DPT_Start					
52	special song play	1 bit	DPT_Start					
53	special song play	1 bit	DPT_Start					
54	special song play	1 bit	DPT_Start					
55	special song play	1 bit	DPT_Start					
56	special song play	1 bit	DPT_Start					
57	special song play	1 bit	DPT_Start					
58	special song play	1 bit	DPT_Start					
59	special song play	1 bit	DPT_Start					
60	special song play	1 bit	DPT_Start					
61	special song play	1 bit	DPT_Start					
62	special song play	1 bit	DPT_Start					
63	special song play	1 bit	DPT_Start					
		¢	S.	ave & Close				
Current dev	/ice :   1-6\HDL-Audio_134C							

## 3.1.2 Setting

Test: You can test the function of play, stop, previous song, next song, volume+ and volume-.



뎊 10-254\办公室	1		_	×
Basic information	KNX setti	ng Setting		
Test				
Play		Previous song/channel Volume+		
Stop		Next song/channel Volume-		
Current device :	I.	10-254协公室		.::

## 3.1.3 Control the HomePlay Network Player with DLP Panel

**Music page setting of DLP:** Enable the HomePlay network player, select Z-Audio mode, Zone NO.1, and set the subnet ID and device ID. After that, you control the HomePlay network player with DLP panel. About the source of the HomePlay network player, we can select USB, NAS, AUDIO-IN and Bluetooth from DLP.



💀 1-7\zhuo						- 0	×
Settings 1 to 4 Pages AC	Floor heatin	ng Music LE	D color & shortcuts	Sleep mode			
Settings							
Enable O Disable	e						
Mode: Z-Audio	~	Zone	NO.(1-24):	1 ~			
Subnet ID: 10		Devi	ce ID:	254			
CMD list for playing music							
ID	Subnet ID	Device ID	Туре	Parameter 1	Parameter 2	More parameters	
SD Card: ON/Play	0	0	Invalid	N/A	N/A	N/A	
SD Card: OFF/Stop	255	255	Invalid	N/A	N/A	N/A	
FTP: ON/Play	255	255	Invalid	N/A	N/A	N/A	
FTP: OFF/Stop	255	255	Invalid	N/A	N/A	N/A	
Radio: ON/Play	255	255	Invalid	N/A	N/A	N/A	
Radio: OFF/Stop	255	255	Invalid	N/A	N/A	N/A	
Audio IN: ON/Play	255	255	Invalid	N/A	N/A	N/A	
Audio IN: OFF/Stop	255	255	Invalid	N/A	N/A	N/A	
		¢		Save &	Close		
Device:	1-7\zh	uo					.:

**USB:** Insert the U disk into the USB port of the HomePlay network player, change to SD-CARD source in DLP music page, then you can play the music in USB disk by DLP.

**AUDIO-IN:** Connect the music source device to line in port of the HomePlay network player, change to AUDIO-IN source in DLP music page, then you can play the music on device connect to line in port by DLP.

**NAS:** After the HomePlay network player and the other Android/iOS device connect to the same router, change to NAS source in DLP music page, then you can play the music on Android/iOS device by DLP.

**Bluetooth:** The Bluetooth name of the HomePlay network player is HDL-Audio, you can match the HomePlay network player with the other Bluetooth device. After matching them, change to SD-CARD source in DLP music page, then you can adjust the volume of Bluetooth device by DLP.(Attention: for the Bluetooth device now only support the function of adjusting volume).

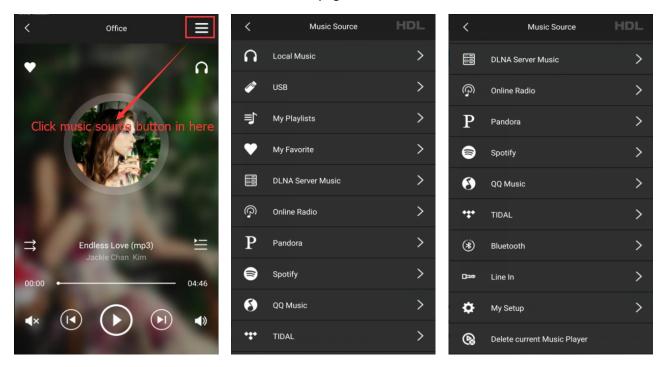
## 3.1.4 Control the HomePlay Network Player with HDL ON

1. After connecting the Android/iOS device and the HomePlay network player to the same router, run HDL ON APP, click music icon to enter music page.





2. Click the device on the device list to enter music page, click music source button to select music source.



Music source include local music, USB, DLNA server music, Spotify and QQ music and so on. Now I will introduce them one by one.

Local Music: The music stored in the Android/iOS device, you can play the local music after click it.

USB: The music stored in the U disk, you can play the USB music after click it.

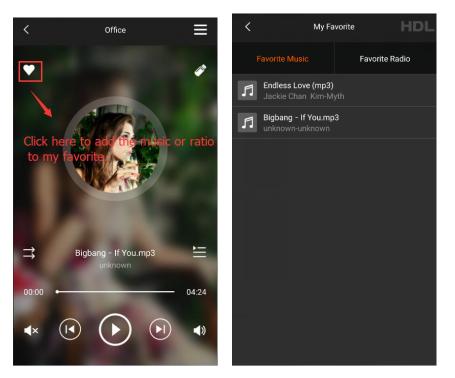
My List: Create new list, add the favorite music to the list. You can add the music from local music and USB and so on.



K My List HDL	K My List HDL
Favorite +	Favorite +
	• Favorite >
1.Input the name	
2.Click add button	
册 ☺ 拼 英• 小 Q ∨	品 ☺ 拼 英• 小 Q ∨
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \begin{array}{c} \stackrel{\scriptscriptstyle I}{a} \stackrel{\scriptscriptstyle B}{s} \stackrel{\scriptscriptstyle \#}{d} \stackrel{\scriptscriptstyle S}{f} \stackrel{\scriptscriptstyle \%}{g} \stackrel{\scriptscriptstyle h}{h} \stackrel{\scriptscriptstyle *}{j} \stackrel{\scriptscriptstyle (}{k} \stackrel{\scriptscriptstyle )}{l} \\ \end{array} $	a s d s s h j k l
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
123 英/ abc <u>,</u> '符 (2)	123 英 <sub>仲</sub> abc <u></u> , ' 符 伊
<ul> <li>Local Music</li> <li>HDL</li> </ul>	K My List HDL
₽ 業盤 王晓天·华为荣耀主题曲	< My List HDL New list +
■ 荣耀 上	
★羅 王晓天-华为荣耀主题曲     +       ▲     Magic Mullet	New list +
京菜輝       +         王晓天-华为荣耀主题曲       +         Magic Mullet       +         Music Beyond Library-INDIE ROCK       +         「」Pachelbels Canon In       +         Ken Morrison-Pump Audio       +         「」Polonaise       +         Carlo Chiarappa-Classical       +	New list +
京菜羅       +         王晓天-华为荣耀主题曲       +         Magic Mullet       +         Music Beyond Library-INDIE ROCK       +         Pachelbels Canon In       +         Ken Morrison-Pump Audio       +         Polonaise       +	New list + Favorite >
第       業         上 院 天 华为荣耀主题曲       +         Magic Mullet       +         Music Beyond Library-INDIE ROCK       +         Pachelbels Canon In Ken Morrison-Pump Audio       +         Polonaise Carlo Chiarappa Classical       +         Carlo Chiarappa Classical       +         Classical       +	New list + Favorite >
	New list + Favorite >
<ul> <li>デ 幕輝 王晓天华为荣耀主题曲</li> <li>+</li> <li>Magic Mullet Music Beyond Library-INDIE ROCK</li> <li>+</li> <li>Pachelbels Canon In Ken Morrison-Pump Audio</li> <li>+</li> <li>Polonaise Carlo Chiarappa-Classical</li> <li>+</li> <li>○ Click add button in here unknown-经典老歌</li> <li>*</li> <li>掌声响起来 梁辞茹 —</li> <li>*</li> </ul>	New list + Favorite >
京菜羅       +         王院天华为荣耀主题曲       +         Magic Mullet       +         Music Beyond Library-INDIE ROCK       +         Image: Multic Beyond Library-INDIE ROCK       +         Image: Pachelbels Canon In Ken Morrison-Pump Audio       +         Image: Polonaise Carlo Chiarappa-Classical       +         Image: Polonaise Carlo Chiarappa-Classical	New list + Favorite >

My Favorite: You can add your favorite music and ratio to here from the music page.





DLNA Server Music: We can control the DLNA server music by two ways.

1. Run DLNA Server on the computer, and connect the computer and the HomePlay network player to the same router.

2. Connect the DLNA Server device and the HomePlay network player to the same router.

**Online Ratio:** You can select different ratio here.

**Pandora:** Need to install Pandora APP first, then you can play the Pandora music via HomePlay network player.

**Spotify:** Need to install Spotify APP first, then you can play the Spotify music via HomePlay network player.

**QQ Music:** Need to install QQ music APP first, then you can play the QQ music via HomePlay network player.

**TIDAL:** Need to install TIDAL APP first, then you can play the TIDAL music via HomePlay network player.

**Bluetooth:** The Bluetooth name of the HomePlay network player is HDL-Audio, you can match the HomePlay network player with the other Bluetooth device. After matching them, select Bluetooth source from HDL ON, then you can adjust the volume of Bluetooth device by HDL ON.

Line in: Select the Line in music, then you can play the line in music by HDL ON.

**My Setup:** In this option, we can mark the HomePlay network player, modify the Bluetooth name, adjust the treble and bass and get the device information.



<	My Setup	HDL
Music player name:	HDL-Audio_13	4C >
Bluetooth		>
Equalizer		>
Device information		>

**Bluetooth:** Click the Bluetooth button and modify the Bluetooth name, need to restart the HomePlay network player after modify the Bluetooth name.

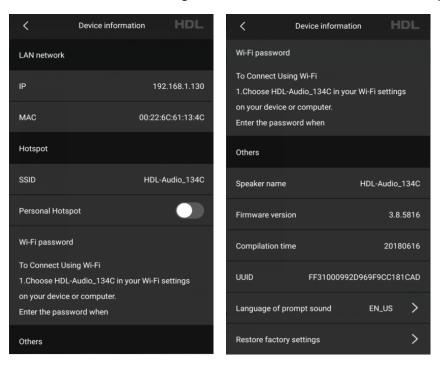
	My Setup HID				
Please enter new name for bluetooth.					
Test		1			
Cancel	Sure				

Equalizer: Adjust the Treble and Bass of the HomePlay network player.





**Device Information:** We can get the device information if we click this option.



Delete Current Music Player: Delete the HomePlay network player from device list.



# 3.2 Advanced Programming

## 3.2.1 Party Mode

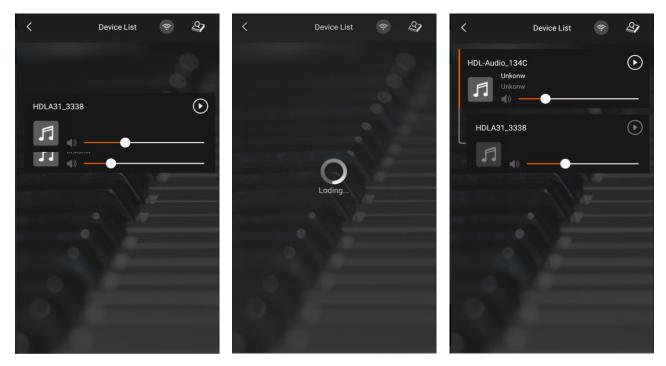
When there are several HomePlay network players in the system, if we want to all HomePlay network players play music synchronously, party mode can achieve to this function.

1. Run HDL ON APP, click music icon to enter music page.

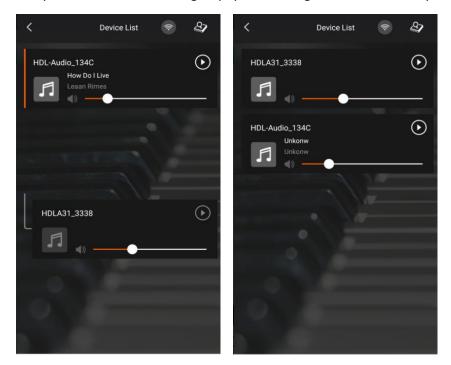


2. Drag one HomePlay network player to the other HomePlay network player position, then finish the configuration of party mode. In the party mode, the slave player will follow the master player to play the same music.





3. If you want to dissolve the group, you and drag the slave HomePlay network player out of group.



## 3.2.2 Play the Special Song

If you want to play the special song or warning tone, you can follow the next steps to achieve it.

1. Modify the suffix of audio file from mp3, wma and wav to voc, and the file name should be from 001 to 255, and put the audio files into the special folder like the below picture.



ile Edit View Tools	Help			
Organize 🔻 🛛 Share wi	ith 🔻 Burn New folder			
Desktop 🔺	Name	Date modified	Туре	Size
Downloads	001.voc	2018/1/24 14:22	VOC File	4,478 KB
📃 Recent Places	002.voc	2018/1/24 14:22	VOC File	4,478 KB
🥽 Libraries	003.voc	2018/1/24 14:22	VOC File	4,478 KB
Documents				
Documents Music				
Pictures				
▶ 📄 PPTV视频 🗉				
Videos				
▷ 🔐 迅雷下载				
🖳 Computer				
🖻 🚢 Local Disk (C:)				
▷ 💼 Local Disk (D:)				
Local Disk (E:)				
Removable Dis				
▷ 🛆 WPS云文档				

2. If we want to play the special audio, such as play the 001.voc audio, we can use the command in the below picture. The song number is corresponding to the audio name, if you want to play 002.voc, the song NO. should be 2.



🛃 Targets Configura	ation						:	×
Basic Information Subnet ID: 1	Device ID: 5		Name: You Xian	Mian ban2				
Current selected page	e: 1		~					
Current selected butt	ion: 1		~					
Button type: Single ON		Button name:						
Targets								
Input target number:	:(1-1) From	1	<b>To</b> 1	Read	Sav	e	Targets create	
Index	Subnet ID	Device ID	Туре	Param1	Param2	Param3	Param4	
1	10	254	Music Control	Source Play	Specify List	1(Song NO.)	0(Duration(S))	



## 4. Customer Service and Technical Support

HDL is proud to provide its clientele with the very best automation products possible. If you require support from HDL, please do not hesitate to contact our Customer Service or Technical Support teams.

## **Customer Service**

Email: kfzl@hdlchina.com.cn

Phone: 0086 020-84651666

Fax: 0086 020-84860772

## **Technical Support**

Email: <a href="mailto:support1@hdlchina.com.cn">support1@hdlchina.com.cn</a>

Phone: 0086 020-84651666

Fax: 0086 020-84860772

## Local Support

If you would prefer to speak to your local HDL representative, please visit the 'contact us' page from the HDL website (http://www.hdlautomation.com/contact-us/), and select your countries HDL representative from the drop down list.



#### **Head Office**

#### Guangzhou Hedong Electronic Co., Ltd

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