

# Instruction Manual

## Manufacturers original User Manual

*For use with the original remote control, that cannot control the modified receiver.*

### Covering OneRemote types

30012002

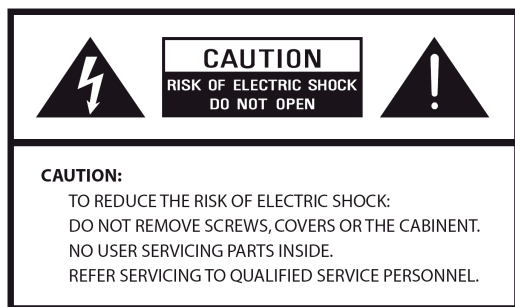
30012012



Internet, DAB/DAB+ and FM Digital Radio with  
Bluetooth Technology and Spotify and Multi-room features

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# Important Safety Instructions



1. Read these instructions.
2. Keep these Instructions.
3. Heed all Warnings.
4. Follow all instructions.
5. Do not use the speaker near water.
6. Clean only with dry cloth.

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS SPEAKER TO RAIN OR MOISTURE.**

To reduce the risk of electrical shock, fire, etc.:

1. Do not place unit near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
2. Do not block any ventilation openings of unit.
3. The unit shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the unit.
4. Do not place any heavy loads onto the unit, and do not step on it, the load may fall and cause serious injury to the unit.
5. Please read Rating Labels at the back of unit for power input and other safety information.
6. This unit is intended to be used only with the power supply provided.
7. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at any point where they exit from the unit.
8. Never unplug your unit by pulling on the power cord. Always grasp the plug firmly and pull straight out from the outlet.
9. Repair or replace all electric service cords that have become frayed or otherwise damaged immediately. Do not use a cord that shows cracks or abrasion damage along its length, the plug, or the connector end.
10. To prevent fire or shock hazard, do not use this plug with an extension cord or other outlet unless the blades can be fully inserted to prevent blade exposure.
11. During lightning or raining days, unplug the unit for additional protection during thunderstorms or when the unit is not used for prolonged periods. This will prevent damage to the unit from lightning and power surges.
12. Do not attempt to carry out any service work yourself. By opening or removing the cabinet, you may be exposed to dangerous voltage or other hazards. Any service work should be carried out by qualified technicians.
13. The normal function of the product may be disturbed by strong Electro-Magnetic Interference. If so, simply reset the product to resume normal operation by following the instruction manual. In case the function could not resume, please use the product in other location.
14. The means of disconnecting this apparatus from the mains supply is plug of adapter. The disconnect device shall remain readily operable.
15. The battery of remote control shall not be exposed to excessive heat such as sunshine, fire or the like.
16. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
17. In the interests of safety and to avoid unnecessary energy consumption, never leave the unit switched on while unattended for long periods of time, e.g. overnight, while on holiday or while out of the house. Switch it off and disconnect the mains plug from the mains socket.

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# Getting Started

Carefully remove your radio from the box. You may wish to store the packaging for future use.

## What you can find inside of your package

- Main unit
- Instruction manual
- Remote control and AAA alkaline batteries
- Power adapter
- DAB/FM antenna
- RCA cable

## Positioning your Radio

Place your radio on a flat / stable surface that is not subject to vibrations.

### Avoid the following locations:

- Where the radio will be exposed to direct sunlight.
- Where the radio will be close to heat radiating sources.
- Where the humidity is high and ventilation is poor.
- Where it is dusty.
- Where it is damp or there is a possibility of water dripping or splashing onto unit.

## Wireless LAN Setting

- A broadband Internet connection.
- A wireless access point (Wi-Fi) connected to your broadband Internet, preferably via a router.
- If your wireless network is configured to use Wired Equivalent Privacy (WEP) or Wi-Fi Protected Access (WPA) data encryption then you need to know the WEP or WPA code so you can get the Internet Radio to communicate with the network.
- If your wireless network is configured for trusted stations you will need to enter the Radio's MAC address into your wireless access point. To find the Radio's MAC address use menu items as follows: **Main menu > System settings > Network > View settings > MAC address.**

Before you continue, make sure that your wireless access point is powered up and connected to your broadband Internet. To get this part of the system working, read the instruction supplied with the wireless access point is highly recommended.

## Adjusting the Antenna

Unwind the DAB/FM antenna and screw it to **Antenna** socket on the back of the unit to ensure you receive the best reception possible in both DAB and FM radio modes. It may be necessary to adjust the position of the radio and /or antenna to achieve the best signal.

## Using Optical Cable


Connect a fiber-optical digital cable to **Optical Out** socket on the back of the unit will allow your radio transmitting digital signal to audio equipment.

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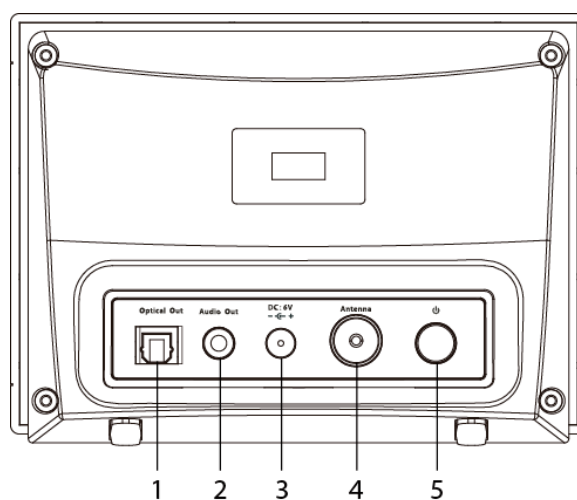
## Using RCA Cable


Connect the 3.5 mm plug at the end of your RCA cable to the **Audio Out** socket on the back of this unit. Then insert the Red and Black plugs at the other end of the RCA cable to your audio device.

## Turning the Unit On/Off

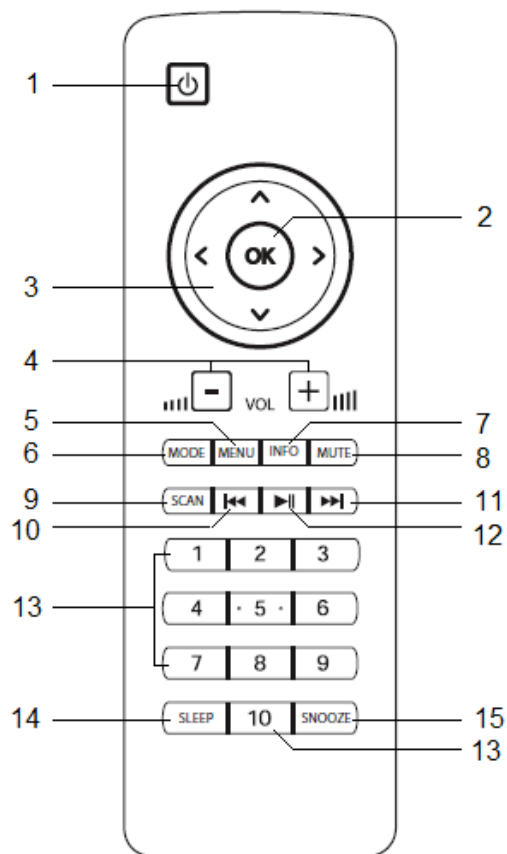
Connect the plug at the end of power adapter cable to the **DC IN** socket on the back of the unit. Then insert the power adapter into the mains socket. Press  button on the unit or on the remote control to turn unit on or standby. To switch the unit off completely, unplug the power adapter from the mains socket.

## Unit Views



1. **Optical Out** socket  
To connect an Optical cable.
2. **Audio Out** socket  
To connect a RCA cable.
3. **DC IN** socket
4. **Antenna** socket
5.  button  
Press to switch radio on or standby.


## Remote Control View



1. **Power** button  
Press to switch radio on or standby.
2. **OK** button  
Press to confirm your selection.
3. **Navigation** buttons  
Press to browse options.
4. **VOL +/-** buttons  
Press to adjust volume.
5. **MENU** button  
Press to display menu options.
6. **MODE** button  
Press to switch among Internet, Spotify, Music player, DAB, FM and Bluetooth modes.
7. **INFO** button  
Press to view station information.
8. **MUTE** button  
Press to mute radio, press again to pick up sound.
9. **SCAN** button  
Press to scan for DAB and FM stations.
10. **Previous** button  
Press to skip to previous track in Music player and Spotify mode.  
Press and hold to rewind current track in Music player and Spotify mode.
11. **Next** button  
Press to skip to next track in Music player and Spotify mode.  
Press and hold to fast forwards current track in Music player and Spotify mode.
12. **Play/Pause** button  
Press to pause/play current track in Music player and Spotify mode.
13. **Preset buttons 1-10**  
Press and hold to save a preset station.  
Press to recall a saved preset station.
14. **SLEEP** button  
Press to set up sleep time.
15. **SNOOZE** button  
Press to active snooze function.

### Replacing the batteries:

1. Open the battery compartment cover on the back of your remote control.
2. Install two AAA new batteries referring to the markings direction inside the battery compartment.

 **Note:** do not reverse any battery and do not mix battery types, also do not mix old and new batteries. When discard your old battery, please considering eco-friendly.

3. Cover the battery compartment door.

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# Setup Wizard

1. For initial use, the display will show 'Setup wizard' screen.



2. Press < or > button to confirm 'YES' to start setup. Options in the setup wizard include the following:

### Date/Time

Set 12 or 24 hour format

### Auto update

- Update from DAB
- Update from FM
- Update from Network

Select your time zone and daylight savings is needed.

- No update

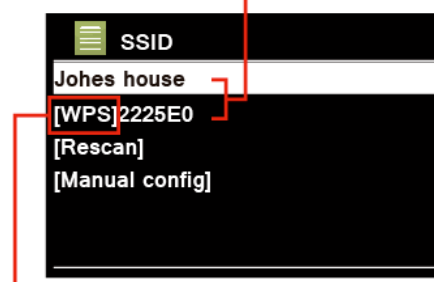
Set the date and time is needed.

### Keep network connected

Select YES or NO


3. The Wizard will now scan your location for accessible wireless networks. When the scan has finished, a list of networks will be displayed.

Names of wireless networks in range.



WPS security is available for this network.

4. Press < or > button and then press **OK** button to select a wireless network you wanted.
  - 1) If a WEP/WPA key (password) is required, radio will ask you to input the WEP/WPA code and display the password entry screen as follows:

 **Note:** If a password (WEP/WPA) isn't required by your network, radio will connect to the network automatically.



- a. Press **< ^ v >** buttons to cycle through the alphanumeric character list, press **OK** button to select an appointed character.

*Note:* WEP/WPA pass codes are case-sensitive.

- b. If a wrong operation is being conducted, select **BKSP** to delete designated character.

*Note:* **BKSP** = Backspace; **CANCEL** means return to previous track; radio will automatically save the WEP/WPA you've input, so no bother to re-enter these codes.

- c. After selecting the final character of your password, press **< ^ v >** buttons to **OK**, and then press **OK** button to confirm. The radio is connected to wireless network.

2) Devices that support connection via WPS (Wi-Fi Protected Setup) are identified in the list as **[WPS]**.

- a. If you wish to establish a connection via WPS, press **OK** button after you have selected desired network. The radio then offers the option to initiate WPS.
- b. Press **<** or **>** button to select through PUSH Button, PIN and Enter Passkey, press **OK** button to confirm.

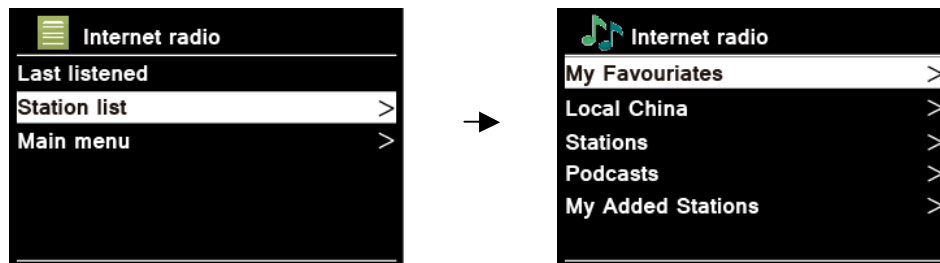
<b>Push Button</b>	You must start the WPS scan on the remote station (e.g. router). Consult the manual for your router or Access Points (AP) to learn how to do this. After you have done this, press <b>OK</b> button on the radio and then both devices will establish a connection.
<b>PIN</b>	The radio creates an 8-digit number, which you then have to enter into the remote station. After entering the PIN, press <b>OK</b> button to establish the connection between both devices.
<b>Enter Passkey</b>	In addition to a WPS connection, you can also establish a connection using a Pre-Shared-Key. The required key is often on the rear of the router, or you may have defined it yourself. This method is used automatically for networks without WPS. You can call up the Pre-Shared-Key function on networks with WPS by selecting menu item "Enter Passkey". An input field should now appear. You can enter the required key (PSK) by pressing <b>&lt; ^ v &gt;</b> buttons and press <b>OK</b> button, and then select "OK" and press <b>OK</b> button complete the entry. The radio should now establish the connection to the network.

- 5. Setup wizard completed, press **OK** button to exit.

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# Internet Radio mode

1. The display will show 'Main menu' after 'Setup wizard' completed. Press **OK** button to select **Internet radio mode**.
2. While 'Station list' is highlighted, press **OK** button to confirm.

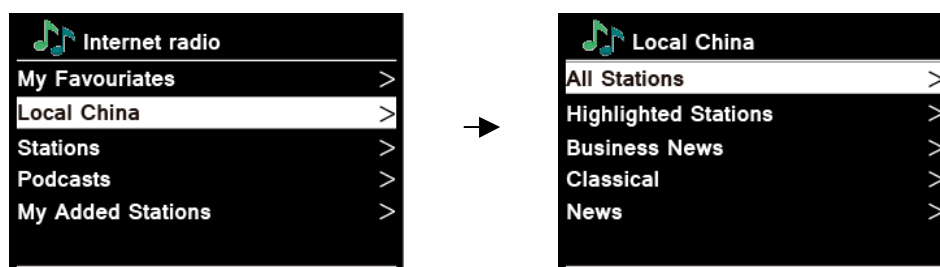


3. Then refer following section to choice stations. Or if failed to connect to network, please follow:
  - a. *Check your Router, see it working normally or not;*
  - b. *Relocate your radio to a stronger signal position is necessary!*
  - c. *Make sure your password is correct input.*

## 'Local "Country"' Stations

**Local "Country"** will change according to your current location. It displays local programs of your current location.

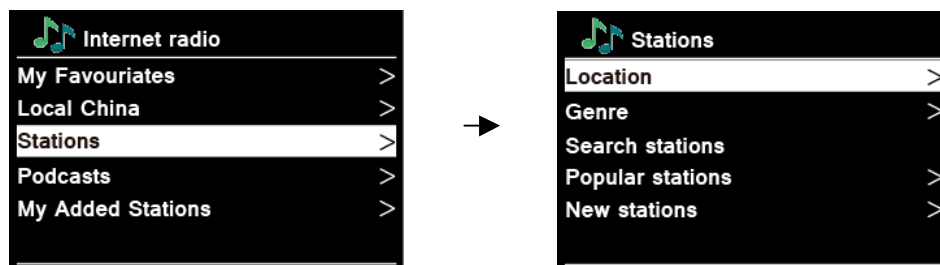
1. To enter Local stations, press **MENU** button > **Station list** > **Local "Country"**, press **OK** button to confirm.



2. Press **▲** or **▼** button to select options, and then press **OK** button to confirm.
3. Step by step to the program you desired.


## Selecting a station through 'Stations'

1. Press **MENU** button > **Station list** > **Stations**, press **OK** button to confirm.



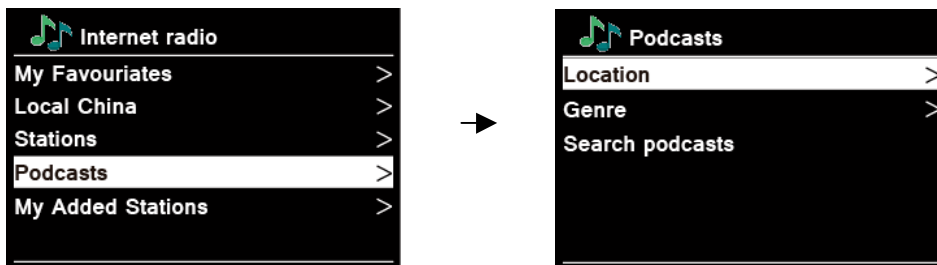
2. In '**Stations**' menu:
  - '**Location**' enables you to choose from the radio stations provided by any country which you choose from a list.
    - a) While '**Location**' is highlighted, press **OK** button to confirm.

- b) Press **▲** or **▼** button to select the region you wanted, and then press **OK** button to confirm.
  - c) Using the same method to choose country, station in turn, radio will now loading.
- **'Genre'** enables you to choose radio stations according to their content, for example Classic Rock, Sport, News, etc.
  - **'Search stations'** enables you to enter all or part of station name to find a station.
  - **'Popular stations'** enables your radio to list the stations that have the most listeners.
  - **'New stations'** enables your radio to list the stations that have recently joined the Internet radio network.

 **Note:** Some radio stations do not broadcast 24 hours per day, and some stations are not always on-line.

## Selecting a station through 'Podcasts'

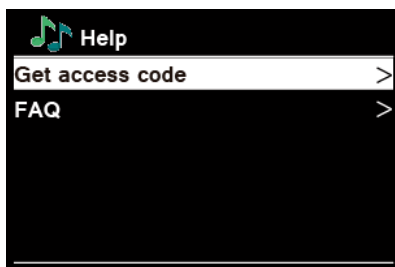
1. Press **MENU** button > **Station list** > **Podcasts**, press **OK** button to confirm.



2. Press **▲** or **▼** button to select options, and then press **OK** button to confirm.
3. Step by step to your purpose program.

## Getting Access Code and FAQ Solution

1. To assess to this order, press **MENU** button > **Station list** > **Help**, press **OK** button to confirm.



2. Press **▲** or **▼** button to select Get access code or FAQ, and then **OK** button to confirm

Get access code	It uses for creating an account when registering your radio on portal <a href="http://www.wifiradio-frontier.com">www.wifiradio-frontier.com</a> Refer to section <b>'Adding station to 'My Favourites''</b> .
FAQ	Press <b>▲</b> or <b>▼</b> button to select question, and then press <b>OK</b> button to listen the FAQ.

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## Adding station to 'My Favourites'

1. To register your radio with the portal: [www.wifiradio-frontier.com](http://www.wifiradio-frontier.com)
2. Create account login, enter **Access code** is required. Access code can be found from "**Station list > Help > Get access code**".
3. You can add your favourite stations via the portal ([www.wifiradio-frontier.com](http://www.wifiradio-frontier.com)).
4. After you added the stations, in order to have your radio access your new settings, get your radio power off for several minutes is necessary.
5. The added stations are accessible by selecting **MENU > Station list > My favourites**.

 **Note:** Doing a 'factory reset' cannot erase 'my favourites' stations.

## Adding station to 'My Added Stations'

1. Even though the Internet radio portal contains thousands of stations, you may want to listen to stations not listed. You can add your own stations via the portal ([www.wifiradio-frontier.com](http://www.wifiradio-frontier.com)).
2. After you added the stations, in order to have your radio access your new settings, get your radio power off for several minutes is necessary.
3. The added stations are accessible by selecting **MENU > Station list > My added stations**.

 **Note:** Doing a 'factory reset' cannot erase 'my added stations'.

## View Station Information

It is possible to view the information that is displaying on the second line of the display when listening Internet program. To view more information, you can press **INFO** button repeatedly, the display will show the information through Station Description, Genre, Country, Reliability, Bit rate, Codec, Sampling Rate, Playback Buffer and Date Info.

## Storing Preset Stations

Your radio can store up to 10 of your favourite Internet stations. This will enable you to access your favourite stations quickly and easily.

1. While playing your favourite station, press and hold one of Preset buttons **1-10** until display shows '**Preset stored**'.
2. Preset number '**★#**' will show on the display.

## Recalling a Preset Station

1. Press one of Preset buttons **1-10** to play the preset station.
2. The display will show '**Preset empty**' if the preset station isn't allocated.



# Spotify Connect

Spotify gives you millions of songs at your fingertips. The artists you love, the readymade playlists for every mood and genre, the latest hits and new discoveries just for you.

With Spotify Connect feature, you can play and control all this music wirelessly. Choose music on your smartphone or tablet, and listen on your radio.


\*For service availability in your country, check [www.spotify.com](http://www.spotify.com)

## Using Spotify Connect

Your radio has Spotify Connect built in. This lets you control the music playing on your radio using the Spotify app on your smartphone or tablet.

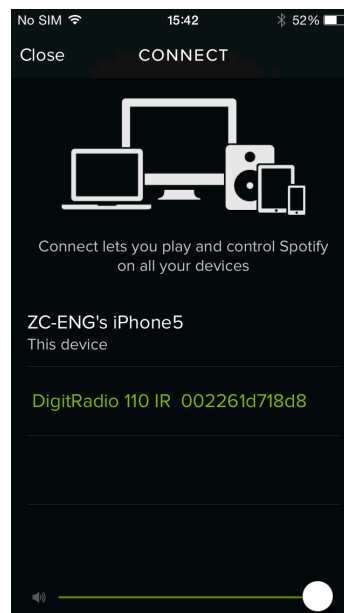
Listening is seamless – you can take calls, play games, watch a video, even switch your phone off, all without interrupting the music. It's a better way to listen at home.

You'll need a Spotify Premium account to use Spotify Connect. If you don't have it, just go to [www.spotify.com/freetrial](http://www.spotify.com/freetrial) for your free 30-day trial.


1. Download Spotify app for your smartphone or tablet (iOS or Android).
2. Connect your radio to the same WiFi network as your smartphone or tablet, and then press **MODE** button on the remote control repeatedly to select **Spotify Connect** mode.
3. Open the Spotify app on your smartphone or tablet, and play any song.
4. Tap the square image of the song's cover art in the bottom left of the screen. Then tap the **Connect** icon .
5. Tap 'DigitRadio 110 IR' from the list to select your radio. If you can't see it, just check it's connected to the same wifi network as your smartphone of tablet.

You will notice that your radio is currently listed as "DigitRadio 110 IR xxxxxxxxxxxx" (the 12 digit alphanumeric code is the MAC address of your radio) in the Spotify App. If you would like to change this name to something more personal ('John's DigitRadio 110 IR' for example), you can do so as follows:

- a. On the radio: Press **MENU** and select **Main menu > System settings > Network > View settings**. Scroll down and take a note of the 'IP address'.
  - b. On your computer: Ensure that your computer is on the same network as the radio, then enter the IP address into your browser's address bar (example: 192.168.0.34). This will allow you to view some of the radio's diagnostics, but also change its name.
6. The **Connect** icon will turn green to signify that your radio is now selected and being used for audio playback.



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7. Your Spotify app will only recognize your radio when the radio is connected to the internet (i.e. in Internet Radio, Spotify Connect or Music player modes). To use Spotify when your radio is in non-internet modes (i.e. in DAB, FM or Bluetooth mode) you need to select **Main menu > System settings > Network > Keep network connected > YES**. This also allows you to wake the radio from standby using your Spotify app.

 **Note:** *If unattended to use radio for long periods of time, e.g. overnight, while on holiday or while out of the house, select **NO** to save power is recommended.*

## Controlling Spotify Connect

You can now control Spotify from the app like normal; search for and play your tracks, change the volume and add to playlists even though playback is through your radio. The next time you open the Spotify app, playback will continue through your radio.

Spotify Connect is a cloud-based service, therefore after activation on your radio, your smartphone or tablet no longer needs to be on the same WiFi network to control audio playback.

## Using another Spotify account with your radio

Your Spotify account details are now stored on your radio. To overwrite this with another Spotify account, simply follow the activation steps again whilst running the Spotify app using your desired account. Please remember that both your smartphone or tablet and your radio need to be on the same WiFi network for the overwriting to occur.

# Music player Mode

## Setting up a Music Server

In order for your radio play music files from a computer, the computer must be set up to share files or media.

**UPnP media sharing** allows devices like this radio to play music from a shared media library, navigating through tag menus such as Artist, Album or Genre.

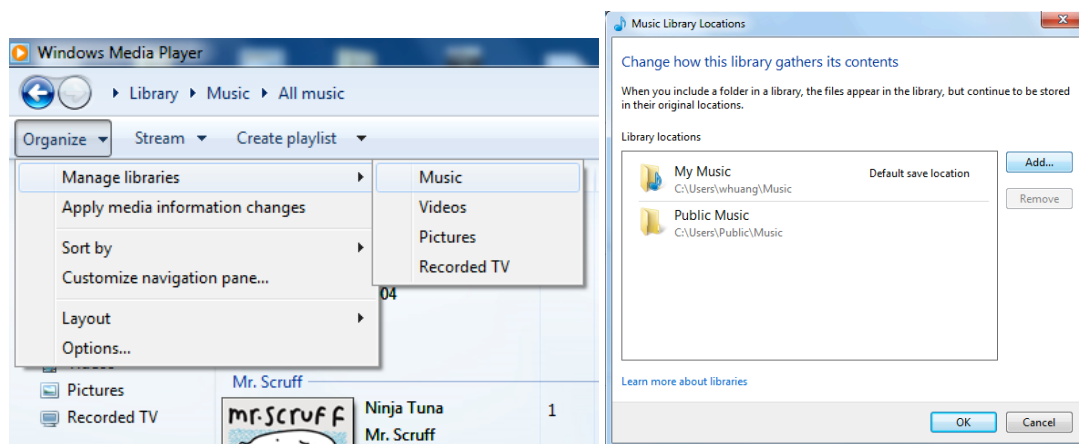
If you are running a suitable server system such as a PC with Windows Media Player 10 or later (WMP), and your music library is well-tagged, then it is recommended to use media sharing.

Only the UPnP (Universal Plug and Play) server needs to be set up. (iTunes does not currently work as a UPnP media server.)

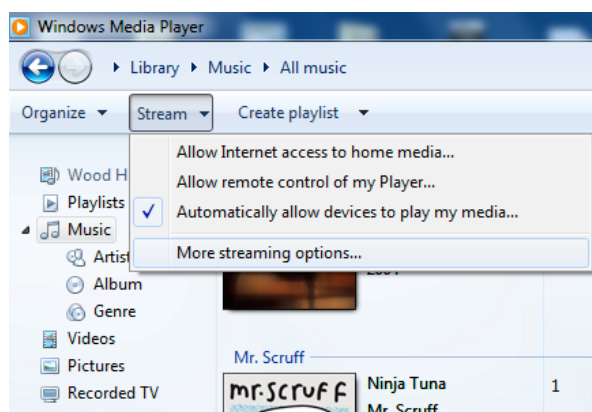
## Sharing Media with Windows Media Player

The most common UPnP server is Windows Media Player (10 or later. Viewing version from **Help > About Windows Media Player**). Alternatively, other UPnP platforms and servers may be used. To set up WMP for media sharing, perform the following steps:

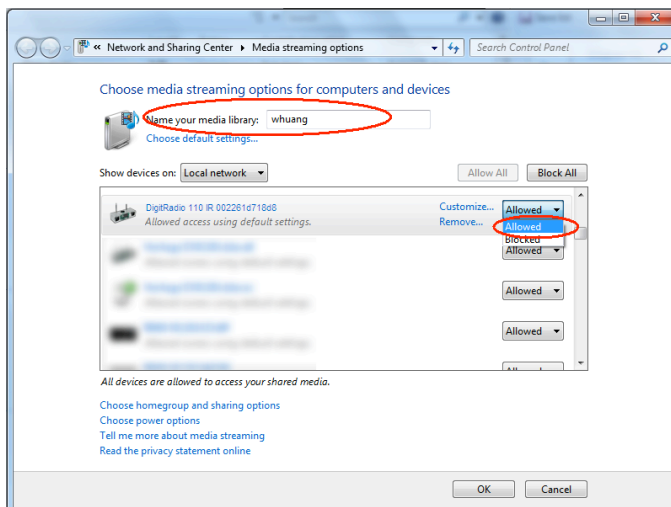
1. Ensure that the PC is connected to the network.
2. Ensure that the radio is powered on and connected to the same network.
3. In WMP, add to the media library the audio files and folders you want to share with your radio by selecting **Organize > Manage Libraries > Music / Videos / Pictures / Recorded TV**, click **Add** to add audio files and folders and then click **OK** to finish adding.



4. In WMP, enable media sharing (**Stream > More streaming options...**).



5. Make sure that the radio has access to the shared media by selecting it and clicking **Allow**. You can also set a name for the shared media in the box of **Name your media library**. Click **OK** to close the dialogue boxes.



6. The PC is now ready to stream the music to the radio. The WMP UPnP service runs in the background; there is no need to start WMP explicitly.

## Playing Shared Media

1. Press **MODE** button repeatedly to select **Music player** mode.
2. While **'Shared media'** is highlighted, press **OK** button to confirm.



3. Available media servers will be listed. Press **▲** or **▼** button to browse servers and press **OK** button to confirm, and then step by step to your selecting music.



4. When a track is playing, you can use remote control to:
  - a. Press **⏮** button to skip to previous track; press and hold **⏮** button to fast reverse current playing track.
  - b. Press **⏸** button to play/pause current playing track.
  - c. Press **⏭** button to skip to next track; press and hold **⏭** button to fast forward current playing track.

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## My Playlist

The My Playlist feature enables you to create a playlist of your favourite tracks from your music libraries.

Once you have your playlist ready you can choose to play through the playlist on your radio and can also set shuffle and repeat play functions while your playlist is playing.

**To save a track to 'My Playlist'**, browse the track you want to add to the playlist, press and hold **OK** button, then the track is added to the playlist.

**To play 'My Playlist'**, press **MENU** button, and then press **▲** or **▼** button to select **'My playlist'**, press **OK** button to confirm. Browse the track you want to play, press **OK** button to select.

## Repeat Play Mode

Press **MENU** button, and then press **▲** or **▼** button to select **'Repeat play: Off'**, then press **OK** button repeatedly to shift repeat play **'On'** or **'Off'**.

## Shuffle Play Mode

Press **MENU** button, and then press **▲** or **▼** button to select **'Shuffle play: Off'**, then press **OK** button repeatedly to shift repeat play **'On'** or **'Off'**.

## Clearing My Playlist

You can use this feature to clear the contents of your playlist.

1. Press **MENU** button, press **▲** or **▼** button to select **'Clear My playlist'** and then press **OK** button to confirm.
2. Select **'YES'** to clear my playlist.

## Prune Servers

The Prune Servers feature enables you to remove music servers that are no longer available to you to browse for music.

1. Press **MENU** button, press **▲** or **▼** button to select **'Prune servers'** and then press **OK** button to confirm.
2. Select **'Yes'** to **'Prune shared media wake on LAN servers'**.

## Now Playing Information

While a track is playing, the display shows the track and a progress bar with figures for elapsed and total track time.

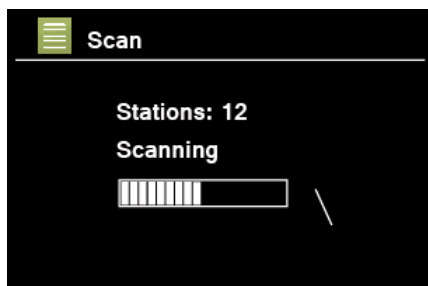
To view further information, press **INFO** button on the main unit repeatedly to show the information through Artist, Album, Bit Rate, Codec, Sampling Rate, Playback buffer and Date on the display.

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# DAB Mode

## Selecting DAB mode

1. Press **MODE** button repeatedly to select **DAB** mode.
2. For initial use, radio will carry out a full scan and store stations list in memory.



3. Once the scanning is completed, the DAB/DAB+ stations will be displayed in alphanumeric order. The first station in the list will be selected, press **OK** button to broadcast.

 **Note:** if no DAB/DAB+ signal is found in your area, it may be necessary to relocate your radio to a stronger signal area.

## Selecting another Station

1. While a program is playing, press **▲** or **▼** button to display station list, and then press **▲** or **▼** button to select the stations you want to play. Press **OK** button to confirm.
2. Alternatively, press **MENU** button and then press **▲** or **▼** button to select '**Station list**', press **OK** button to confirm. Step by step to select the station you want.

## Secondary Service

You may see a “>>” symbol after the name of the station, this indicates that there are secondary services available to that station. These secondary services contain extra services that are related to the primary station. E.g. a sports station may want to add extra commentaries. The secondary services are inserted directly after the primary station (a “<<” symbol is before the name of the station) in the station list.

To select the secondary station, press **▲** or **▼** button until you find the secondary service you want, then press **OK** button to select it.

When the secondary service ends, the unit will automatically switch back to the primary station.

## Scanning Stations

Simply press **SCAN** button to scan for all available stations.

Alternatively, press **MENU** button, press **▲** or **▼** button to select '**Scan**', and then press **OK** button to full scan.

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## Prune Invalid

You may remove all unavailable stations from the station list.

1. Press **MENU** button, press **▲** or **▼** button to select '**Prune invalid**', and then press **OK** button to confirm.
2. Press **<** or **>** button to select '**YES**', and then press **OK** button to confirm.

## DRC (Dynamic Range Control) value

You can set the compression level of stations to eliminate the differences in dynamic range or sound level between radio stations.

1. Press **MENU** button, press **▲** or **▼** button to select '**DRC**', and then press **OK** button to confirm.
2. Press **▲** or **▼** button to select through 'DRC high', 'DRC low' or 'DRC off', press **OK** button to confirm.

## Changing Station Order

You may want to display the stations in different order.

1. Press **MENU** button, press **▲** or **▼** button to select '**Station order**', and then press **OK** button to confirm.
2. Press **▲** or **▼** button to select through 'Alphanumeric', 'Ensemble' or 'Valid', and then press **OK** button to confirm your selecting option.

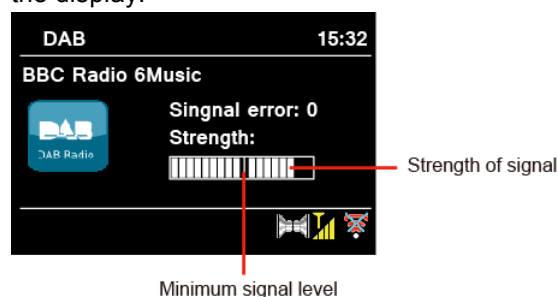
<b>Alphanumeric</b>	Display all stations in alphanumeric order.
<b>Ensemble</b>	List currently broadcasting active stations before inactive ones.
<b>Valid</b>	Remove inactive stations from the station list.

## Viewing Station Information

DAB/DAB+ stations broadcast additional information. Press **INFO** button on the main unit repeatedly to view information through DLS (Dynamic Label Segment), Ensemble, Program Frequency, Signal Quality, Signal Strength, Bitrate, Codec, Channel and Date.

### Showing Signal Strength

While you selected signal strength, a signal bar with the strength of the current station will show on the display.



The indicator on the signal bar shows the minimum acceptable signal level.

**Note:** Stations with signal strength below the minimum signal level may not provide a steady stream of audio.

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## Storing Preset Stations

Your radio can store up to 10 of your favourite DAB stations. This will enable you to access your favourite stations quickly and easily.

1. While playing your favourite station, press and hold one of Preset buttons **1-10** until display shows **'Preset stored'**.
2. Preset number **'★#'** will show on the display.

## Recalling a Preset Station

1. Press one of Preset buttons **1-10** to play the preset station.
2. The display will show **'Preset empty'** if the preset station isn't allocated.



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# FM Mode

## Selecting FM Mode

1. Press **MODE** button repeatedly to select **FM** mode.
2. For initial use, it will start at the beginning of the FM frequency range (87.50MHz). Otherwise, the last listened FM station will be selected.



3. **To manually change the FM frequency**, while FM frequency shows up, press **▲** or **▼** button to change the frequency by 0.05MHz.
4. **To automatically scan**, while FM frequency shows up, press **▲** or **▼** button and then press the **SCAN** button, your radio will skip forwards or backwards until it reached the next available station.

## Scan setting

By default, FM scans stop at any available station. This may result in a poor signal-to-noise ratio (hiss) from weak stations.

1. To change the scan settings to stop only at stations with good signal strength, press **MENU** button, press **▲** or **▼** button to select '**Scan setting**', and then press **OK** button to confirm.
2. Display will show '**Strong stations only**', press **<** or **>** button to select '**YES**' and then press **OK** button to confirm.

## Audio Settings

By default, all stereo stations are reproduced in stereo. For weak stations, this may result in a poor signal-to-noise ratio (hiss).

1. To play weak stations in mono, press **MENU** button, press **▲** or **▼** button to select '**Audio setting**', and then press **OK** button to confirm.
2. Display will show '**Listen in Mono only?**' Press **<** or **>** button to select '**YES**', and then press **OK** button to confirm.

## Storing Preset Stations

Your radio can store up to 10 of your favourite FM stations. This will enable you to access your favourite stations quickly and easily.

1. While playing your favourite station, press and hold one of Preset buttons **1-10** until display shows '**Preset stored**'.
2. Preset number '**★#**' will show on the display.

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









## Recalling a Preset Station

1. Press one of Preset buttons **1-10** to play the preset station.
2. The display will show '**Preset empty**' if the preset station isn't allocated.

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# Bluetooth Mode

Pair the unit with a Bluetooth device to listen to music:


1. Press the **MODE** button to select **Bluetooth** mode.
2. The display will flash in  repeatedly.
3. Activate your Bluetooth device and select the search mode.
4. 'DigitRadio 110 IR' will appear on your Bluetooth device.
5. Select 'DigitRadio 110 IR' and enter "0000" for the password if necessary.
6. The  icon will remain steadily on the display when connection is successful.
7. While a track is playing, you can:
  - a. Press  button once to resume to the beginning of track, and then press  button once again to skip to previous track; press and hold  button to fast reverse current playing track.
  - b. Press  button to pause or play current playing track.
  - c. Press  button to skip to next track; press and hold  button to fast forward current playing track.
8. To disconnect the Bluetooth connection, press **MENU** button on the unit, Press  or  button to select '**BT disconnect**', and then press **OK** button to confirm. The display will show '**Device disconnect?**', Press  or  button to select '**YES**', and then press **OK** button to confirm.

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# General Operation

## Setting Sleep

This feature enables your radio to switch to standby mode by itself after a set sleep time.




1. Press **MENU** button > **Main menu** > **Sleep**, and then press **OK** button to confirm.
2. Press **▲** or **▼** button to view options **Sleep OFF, 15, 30, 45** or **60 minutes**, press the **OK** button to confirm. The sleep icon  and sleep time will show on the display.
3. To turn the sleep function off while the sleep timer is still counting down, select '**Sleep**' option, press **▲** or **▼** button to select '**Sleep OFF**'.
4. Alternatively, press **SLEEP** button repeatedly to set sleep time.

## Setting Alarm

Your radio includes dual alarms. Set Alarm, making sure set time at first.

1. Press **MENU** button > **Main menu** > **Alarms**, and then press **OK** button to confirm.
2. Press **▲** or **▼** button to select '**Alarm 1**' or '**Alarm 2**', and then press **OK** button to confirm.
3. Press **▲** or **▼** button to select options, and then press **OK** button to confirm the setting.

<b>Enable:</b>	Alarm active day: Off, Daily, Once, Weekends or Weekdays
<b>Time:</b>	Alarm date: DD-MM-YYYY (only available when alarm repeat is set to 'Once') Alarm time: HH:MM
<b>Mode:</b>	Alarm mode: Buzzer, Internet radio, DAB or FM
<b>Preset:</b>	<b>Last listened</b> or <b>saved preset station</b> (not available for Buzzer mode).
<b>Volume:</b>	Alarm volume
<b>Save:</b>	Save the alarm

4. When the display shows 'Alarm Saved', the alarm setting is successful.  or  will show on the display.
5. **To temporarily switch off alarm**, press **SNOOZE** button to activate Snooze function when the alarm is sounding. Press **SNOOZE** button repeatedly can set Snooze time of 5, 10, 15 or 30 minutes in turn. The set snooze time will show on the display.
6. **To turn off alarm**, press  button when the alarm is sounding.
7. **To cancel Alarm**, refer to steps 1-3 to enable alarm '**Off**'.

## Setting Equaliser

This feature enables you to choose a sound equalization profile. Each of the equalization setting will change the tone of the sound from your radio when selected.

1. Press **MENU** button > **Main menu** > **System settings** > **Equaliser**, and then press **OK** button to confirm.
2. Press **▲** or **▼** button to select through Normal, Flat, Jazz, Rock, Movie, Classic, Pop, News, My EQ or My EQ profile setup, and then press **OK** button to confirm.

- To set up My EQ, select '**My EQ profile setup**', and then press **OK** button to confirm. Press **▲** or **▼** button to select Bass or Treble, and then press **OK** button to confirm. Press **▲** or **▼** button to change the value of Bass or Treble, and then press **OK** button to confirm. Press **◀** button, display will show 'Save changes'. Press **▲** or **▼** button to select 'YES' and then press **OK** button to save changes.

## Network Setup

Users encountering networking issue may find these options useful for diagnosing and fixing network problems.

- Press **MENU** button > **Main menu** > **System settings** > **Network**, press **OK** button to confirm.
- Press **▲** or **▼** button to select your preferred network setting option:

<b>Network wizard:</b>	Scan for available networks
<b>PBC Wlan setup:</b>	Set up a WPS encrypted network (only support the router uses WPS 2.0)
<b>View settings.:</b>	View network settings such as MAC address, Wlan region, IP address etc.
<b>Manual settings:</b>	Set wireless connection
<b>NetRemote PIN setup</b>	Set a Net Remote Pin code
<b>Network profile:</b>	List of registered networks or delete some of unwanted networks
<b>Clear network settings:</b>	Clear current network settings
<b>Keep network connected:</b>	Keep network connected in non-internet mode such as DAB, FM, Bluetooth, Aux in and standby modes

- Press **OK** button to confirm your setting.

## Setting Time/Date

- Press **MENU** button > **Main menu** > **System settings** > **Time/Date**, press **OK** button to confirm.
- Press **▲** or **▼** button to select options, and then press **OK** button to confirm the setting.

<b>Set Time/date:</b>	Manually set-up both Time and Date
<b>Auto update:</b>	'Update from DAB', 'Update from FM', 'Update from Network' or 'No update'
<b>Set format:</b>	12 or 24 hour format
<b>Set timezone:</b>	Select a timezone (Only available when auto update from Network.)
<b>Daylight saving:</b>	Daylight saving settings (Only available when auto update from Network.)

- Then setting time according to your personal preference.

## Setting Language

This feature enables you to change menu language. The default menu language is German.

- Press **MENU** button > **Main menu** > **System settings** > **Language**, press **OK** button to confirm.
- Press **▲** or **▼** button to select your language, and then press **OK** button to confirm.

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## Factory Reset

A factory reset resets all user settings to default values, so time/date and presets are lost.

1. Press **MENU** button > **Main menu** > **System settings** > **Factory Reset**, press **OK** button to confirm.
2. Press **<** or **>** button to select '**YES**', and then press **OK** button to confirm.

## Software Update

From time to time, your radio may make software upgrades available with bug fixes and/or additional features.

If your radio detects that newer software is available, it will ask if you want to go ahead with an update.

If you agree, the new software is then downloaded and installed.

After a software upgrade, all user settings are maintained.

### CAUTION

Before starting a software upgrade, ensure that your radio is plugged into a stable mains power connection. Disconnecting power during a software update may permanently damage the unit.

1. Press **MENU** button > **Main menu** > **System settings** > **Software update**, press **OK** button to confirm.
2. Press **▲** or **▼** button to select '**Auto-check setting**', your radio will check periodically for new version software.
3. Press **▲** or **▼** button to select '**Check now**', your radio will now to check new version software and automatically upgrade the detected new version software.

## Setup Wizard

When this unit is started for the first time, it runs through a setup wizard to configure settings for date/time and network. Once this has finished, the system is ready to use in most modes.

1. Press **MENU** button > **Main menu** > **System settings** > **Setup wizard**, press **OK** button to confirm.
2. Press **<** or **>** button to select '**YES**', and then press **OK** button to confirm.

## Viewing System Info

This information may be requested when dealing with technical support issues.

1. Press **MENU** button > **Main menu** > **System settings** > **Info**, press **OK** button to confirm.
2. Press **▲** or **▼** button to view '**SW version**', '**Spotify version**', '**Radio ID**' and '**Friendly Name**'.

## Setting Backlight

1. Press **MENU** button > **Main menu** > **System settings** > **Backlight**, press **OK** button to confirm.
2. Press **▲** or **▼** button to select '**Power-on Level**' or '**Standby Level**', then press **OK** button to confirm.
3. Press **▲** or **▼** button to select backlight level, and then press **OK** button to confirm the setting.

<b>Power-on Level</b>	<ul style="list-style-type: none"> <li>• High</li> <li>• Medium</li> <li>• Low</li> </ul>
<b>Standby Level</b>	<ul style="list-style-type: none"> <li>• High</li> <li>• Medium</li> <li>• Low</li> </ul>

## Multi-room

Multi-room is a feature that enables you control your radio (one or group) via UNDOK App for playback.

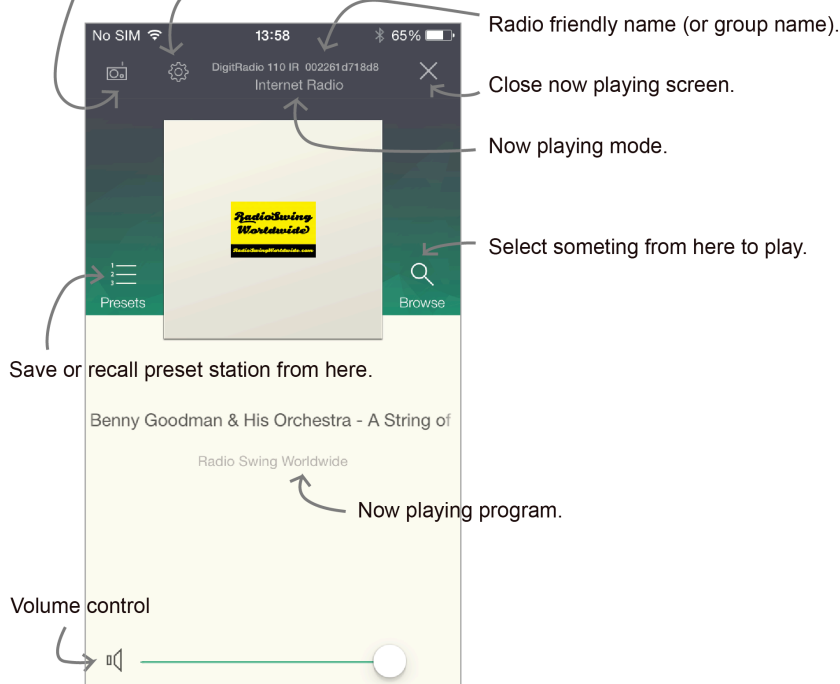
You can enjoy music by using your smartphone which has UNDOK App to control the radios (multi-room capable devices) in the kitchen, bedroom or living room. Of course you also can control the radios playing together.



1. To use multi-room feature, download **UNDOK** app from **App Store** for your iOS smartphone or download from **Google Play** for your Android smartphone.
2. Start UNDOK app, making sure your radio and smartphone are connected to same WiFi network.
3. All available devices will be listed. Tap your radio "DigitRadio 110 IR xxxxxxxxxxxx" (the 12 digit alphanumeric code is the MAC address of your radio) to connect to.
4. Now playing screen is shown. (Playing Internet radio mode for example.)

Select a mode from here to listen.

Set device settings such as change friendly name, view radio information, ect..



5. Multi-room capable devices can be connected to play synchronously if they are added to a group.

6. Edit group through App, tapping **'Edit'** at the right-top corner on device list.
  - a. Tap **'+ Create Group'** at the bottom on device list to create a new group and then enter a group name or select one usual name from the list, and then select **'Create'**.
  - b. As many new groups can be created as needed. The new empty groups are shown at the top of the list. Hold down the three horizontal line and then drag your radio into group.
  - ✍ **Note:** some modes are not supported when grouping your radio. If your radio is in mode DAB, FM or Bluetooth you cannot move it into the selected group.*
  - c. If your radio is a client in the group, the radio display will show "Waiting for synchronisation" and then the radio will play the same program as master device playing.
  - d. Tap **'Close'** at top-right corner on editing screen to leave editing. (Refer to Figure 1.)
  - e. The devices in the group will be listed below group name. Tap on group name to select the group.
  - f. Group will synchronously play the program which the master device is playing. You can drag the volume control bar to change the master volume for all grouped devices. You also can tap on the volume control and then change volume for each device respectively. (Refer to Figures 2 and 3.)
  - ✍ **Note:** when select playing mode, the standalone modes (DAB, FM or Bluetooth) are incompatible for grouped devices, if you select these modes, the master device will be removed from group.*

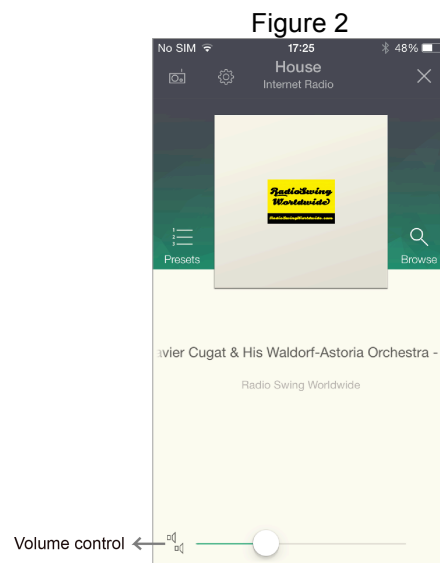
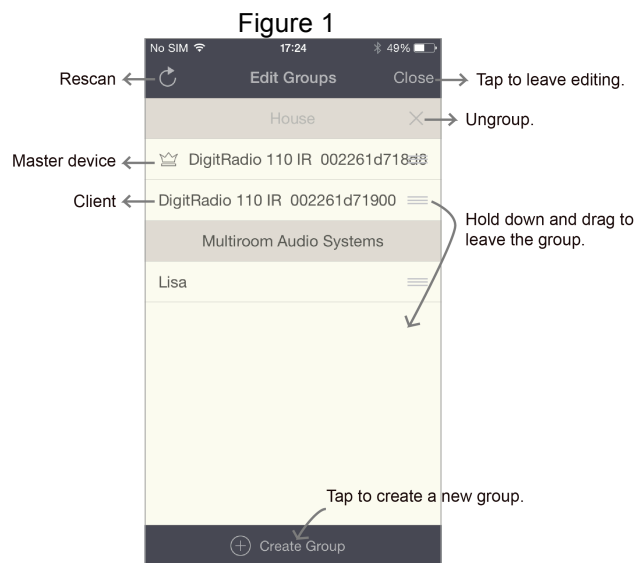
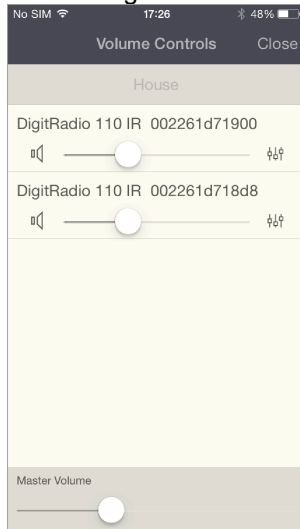





Figure 3



7. Alternatively, you can edit group through your radio.
  - a. Press **MENU** button > **Main menu** > **System settings** > **Multi-room**, and then press **OK** button to confirm.
  - b. Press **^** or **v** button to select options, and then press **OK** button to confirm.

<b>View details</b>	View your radio state (Ungrouped, Server or Client) and the group which it belong to.
<b>Create new group</b>	Create a new group that your radio will be joined.
<b>Add to group</b>	Devices in current network will be listed. Select the client you desired to add to the group which your radio belong to.
<b>List current clients</b>	Clients in the group which your radio belong to will be listed. Select the client you want to remove from group.
<b>Leave group</b>	Remove your radio from group
<b>Dissolve group</b>	Dissolve the group which your radio belong to.

8. To ensure you can use UNDO app when your radio is in all modes especially in non-internet modes (i.e. in DAB, FM or Bluetooth mode) you need to select **Main menu** > **System settings** > **Network** > **Keep network connected** > **YES**. This also allows you to wake the radio from standby using your UNDO app.

 **Note:** *If unattended to use radio for long periods of time, e.g. overnight, while on holiday or while out of the house, select **NO** to save power is recommended.*

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# Specification

ITEMS	DESCRIPTION
<b>Specifications:</b>	Internet, DAB/DAB+ and FM Digital Radio with Bluetooth Technology and Spotify and Multi[room features
<b>Power Supply:</b>	AC Input: 100-240V~, 50-60Hz DC Output: 6V, 500mA
<b>Frequency Ranges:</b>	FM: 87.5-108MHz DAB/DAB+: 174.928 – 239.200 MHz
<b>Power Consumption:</b>	3W (Max)
<b>Dimension (L x W x H):</b>	130mm x 42mm x 95mm



This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. For more information, please contact the local authority or your retailer where you purchased the product.