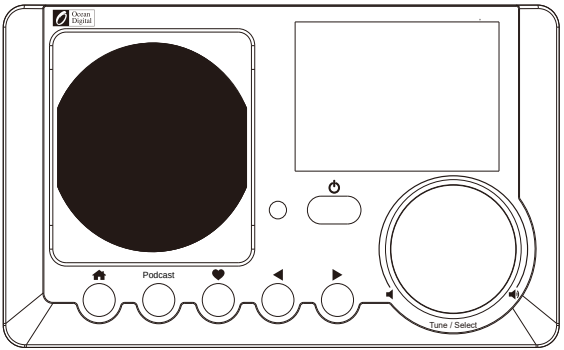
Ocean Digital

Internet Radio

WR-210N

User Manual



Please read this user manual carefully before using the receiver

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1 Introduction to the WR-210N Internet Radio

The WR-210N Internet Radio is a compact, multi-purpose and attractive portable radio with an internal 2000 mAh Li-ion rechargeable battery for many hours of audio entertainment and a gateway into the world of internet radio.

Press **(** ⌂) to enter the Home menu. Scroll by rotating the [Tune/Select] knob or the (◄ / ►) button on remote:

My Favorite — To show the list of favorite stations which have been assigned to the presets. There are up to 150 presets available.

Internet Radio — Start exploring the worldwide internet radio stations and music here.

Media Centre — You can browse and stream music from your network via UPnP or DLNA Compatible devices.

FM Radio — Receive ordinary FM radio stations in your local area (no internet connection required).

BT streaming— BT playback, to play audio stream (receive) from another BT enabled device after pairing/connected each other.

Alarm — Alarm clock. Two alarm settings available.

Timer — To count down from a specified time with alarm.

Sleep Timer — Enable the timer to turn the radio off after the selected time elapsed.

Configuration — More options/settings available

Podcasts — Here you can access thousands of Podcast channels, to subscribe or listen again any time.

Precautions

Charge the battery with a USB-C type charger – do not apply any other power source or permanent damage to the radio will occur and may be hazardous.

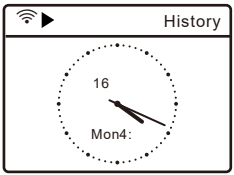
To clean use only a damp cloth and dry with a clean towel - keep away from all liquids.

To avoid loss of warranty do not attempt to repair or remove the cover for any reason.

Clock style

Change the clock graphic between digital- or analog styles under Configuration> Date & Time> Set clock style

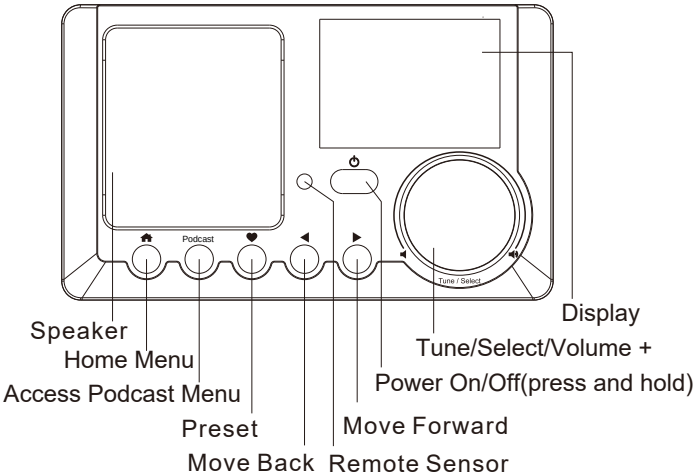
Digital style

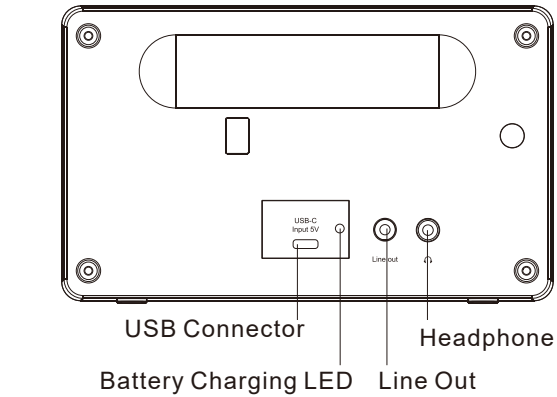


19 pm

Analog style

2 Location of Controls





Location of Controls

Control Functions

Many of the controls have multiple functions depending on the Radio mode:

a) Radio Front

Speaker – Audio off when headphone plugged in

Home – Go to the My Favorite main mode

Podcast – Access Podcasts menu

♥ – Preset. Press and Hold to add current audio source to My Favorite list;Press and Release to display My Favorite list

Move Forward – Go to next display or item in list

Remote Sensor – Infrared sensor for Remote Controller input.

Move Back – Go back to previous display or item in list

Power On/Off – Press and Hold (On/Standby with USB-C power connected) for power on/off

Tune/Select – Press and release to Select; Rotate to navigate and adjust volume

Display – 2.4” color TFT LCD

b) Radio Back

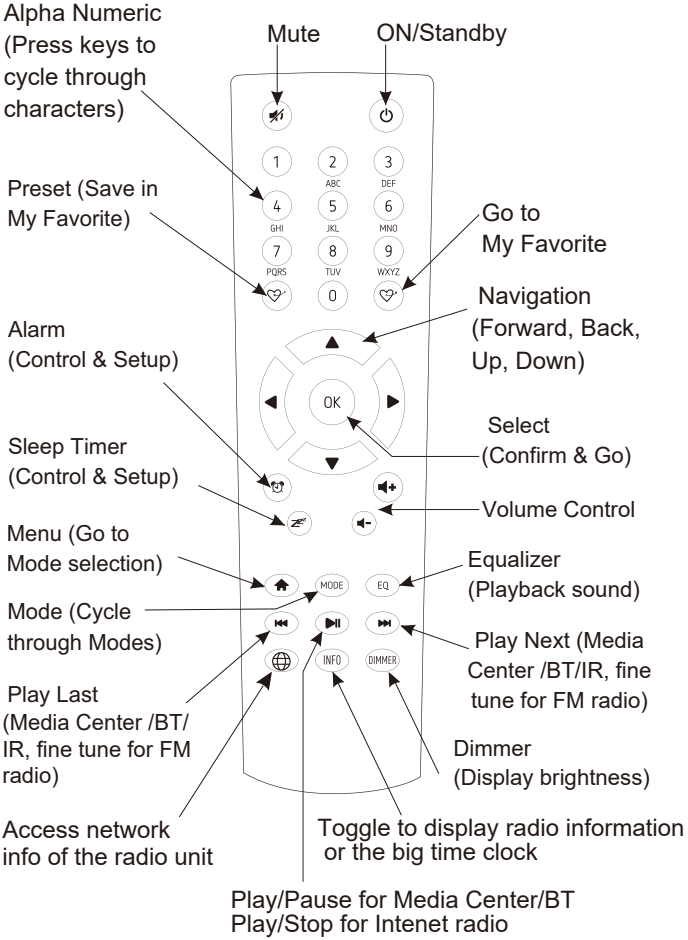
USB Connector – 5 Volt input from USB to power radio and charge battery

Battery Charging LED – Red battery charging; Green fully charged

Line Out – standard 3.5 mm (pre-amp level audio output)

Headphone – standard 3.5 mm stereo audio

3 Remote Controller



4 Choosing functions and options

All user input is information the Radio uses to provide the desired audio entertainment and pressing the **Tune/Select** knob is a confirmation and go command.

Once a desired selection is displayed or highlighted the selection is confirmed by pressing and releasing the **Tune/Select** knob.

The **Tune/Select** control knob is also used for navigating LCD displays and lists by rotating clockwise (CW) or counter clockwise (CCW) to change or highlight information displayed on the LCD screen.

The front panel **Move Forward (►)** and **Move Back (◄)** buttons can also be used to move to the next or back to the previous display but all Selections must be confirmed by pressing and releasing the **Tune/Select** knob.

Alternatively navigate to functions (i.e. My Favorite, Internet Radio, Media Center, Bluetooth, Alarm, Sleep Timer and Configuration) or a position in a list by using the Move Forward, Move Back, Move Up and Move Down controls on the Remote Controller with the OK button confirming the selection.

Many other controls are available on the remote controller with discrete buttons for many functions e.g. volume up or down.

Throughout this manual “Select” will mean navigating through display screens or option lists to display or highlight desired selection and confirming it by pressing and releasing the **Tune/Select** knob or **OK** button on the remote controller.

5 Network Setup

Before you start

Please ensure the following is ready:

You have a broadband internet connection. A wireless broadband router is connected to the internet successfully. The radio supports Wireless B, G and N connection (Wireless N router can also be used with the setting on B or G). You know the Wired Equivalent Privacy (WEP) or Wi-Fi Protected Access (WPA) data encryption code/password. You need to key in the correct code when the radio is connected to the wireless router for network connection. If you do not know the code/password, please contact the person/technician who set up the router/network for you. The radio works via 2.4GHz Wireless network connection (Wi-Fi connection) only.

1. Getting started

The radio is powered by a built-in lithium battery. A USB cable is included in the product package.
Press and hold the ⏻ button to power on.
To turn the radio off, press and hold the same button.
Standby mode is only activated when external power is connected, allowing the alarm feature to be used. Connect the power supply to the radio, then press and hold the ⏻ button to switch it on. Press the ⏻ button again to switch the radio to standby mode.

Network Setup

• Setting up the radio for the first time will prompt you to select your preferred language and the time zone. Next, configure the network following the wizard. Choose Yes to start.

• There are two ways to search the wifi networks: "Scan & Select" or via "WPS button".

Scan & Select

• Choose "Scan & Select", it will start scanning the network availalbe. Choose your network and press (**OK**) to confirm. If your wifi network has a password protected, it will ask you to enter the passphrase/ password.

Note: The password is case sensitive, please consult with the one who setup your network if you don't know the password. Refer to the chapter in the next page for the instructions on how to enter the password. An "Association Complete" will pop up if the connection is successful. The Wifi signal bar will appear on the top left of the display.

WPS button

If your wifi router has a WPS button, you can choose the "WPS button" option to quickly connect to the wifi network.

Suggest to place the radio near to the WiFi router for the setup. Select the "WPS button" option on the radio, press **(OK)** on the remote, or push the **Tune/Select** knob on the radio unit to confirm.

Meanwhile, press the WPS button on the Wifi router, it will start connecting with the radio. Once the connection is made, it will display "Association complete".

Entering password for your wireless network

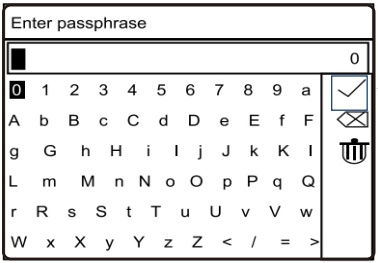
Using Remote control

On the alpha-numeric keypad, press the button repeatedly to cycle through the characters assigned to each button (see the list below). Press (**OK)** to input the next one.

Button 1: 1 !@#$%^&*()_+[]{};:'"\|,./<>?

Button 2: 2ABCabc
Button 3: 3DEFdef
Button 4: 4GHIghi
Button 5: 5JKLjkl
Button 6: 6MNOmno
Button 7:7PQRSpqrs
Button 8: 8TUVtuv
Button 9:9WXYZwxyz
Button 0: 0

Alternatively, use the ▲ and ▼ button to select the character, press **(OK)** to input the next one. When done, move the cursor to the mark ✔ and press OK to confirm.



Using control buttons on the radio unit

Rotate the **Tune/Select** knob to scroll through the characters, highlight it and push the **Tune/Select** knob to input the next one. When done, scroll to the ✔ mark and push the **Tune/Select** knob to complete the entry.

Note: The password is case sensitive.

6 My Favorite

This mode displays a list of up to a maximum of 150 favorites for the radio station that have been Preset (stored) using the Preset button on the remote controller **( )** while an radio station is playing.

Press and hold button until the Preset symbol **( )** is displayed in the top left corner of the LCD.

After the first 150 presets have been stored the next Preset will be stored in the first location, the next in the second location; continuing to overwrite each list location until it loops back to the first location again.

To Edit the list highlight a list item then press the Move Forward button **(►)** to move to the Edit list function where the item can be moved Up, Down or Deleted from the list.

To play an audio source in the list highlight the item, Select it by pressing the **Tune/Select** knob or the **(OK)** button on the remote controller and the radio will automatically go to the correct mode and start playing.

7 Internet Radio

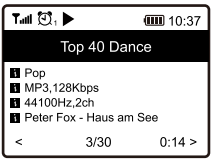
Select Internet Radio mode (Home>My Favorite>Internet Radio) and navigate the extensive list of worldwide radio stations using these options:

1) Skytune – Select a radio station using the structured lists that aid and reduce the task of finding the right station.

2) Use Search instead of browsing the extensive radio station list by using the initial letters of the desired station name, creating a shorter list of stations the more characters used in the search.

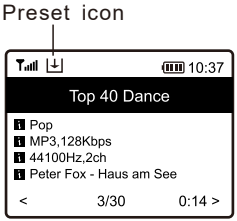
3) The History option will show a list of the radios stations recently selected. Every station selected is added to the list automatically until a maximum of 99 is reached when the next station selected will replace the first station in the list.

When playing Internet stations information about the station and what is playing will be displayed on the LCD screen. Pressing the Move Forward **(►)** button once will display more information and pressing Move Forward **(►)** again will display the time of day in 12 or 24 hour format depending on the time setup in Configuration.



Radio Stations can be added to the My Favorite list at anytime a station is playing by pressing and holding Preset ♥ button until the Preset symbol is displayed in the top left hand corner of the LCD as shown below.

Internet Radio



A maximum of 150 Presets can be stored in the list before the next Preset will overwrite the first item in the list.

To edit My Favorite list highlight a Preset location and press Move Forward to display edit options; Move Up, Move Down and Delete.

8 Media Center

The Radio device is compatible to the industry standard Universal Plug and Play (UPnP) and Digital Living Network Alliance (DLNA) standards.

This enables the Radio Tuner to browse and play music files located on UPnP or DLNA server provided the server has been setup to allow sharing of files on the network.

Set up Media Center playback options in Configuration and Select the Media Center to display a list of options:

1) UPnP – A scan is made to find UPnP and DLNA devices that are streaming on the Wi-Fi network (this can take a few seconds) and when complete options are listed to select music or playlists files. If no UPnP or DLNA servers are found “Empty List” is displayed.

2) My Playlist – Your own play list may be created by playing selected music and while it is playing pressing and holding a Preset button until the Preset symbol **(⊻)** is displayed.

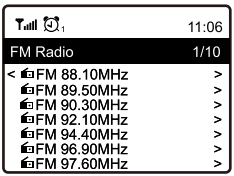
3) Clear My Playlist – Select to delete all music files from My Playlist.

9 FM Radio

To receive the ordinary FM stations (no internet connection is required), place the radio close to the window and extend the antenna as far as it can go to get the best reception. You may need to adjust the direction of the antenna to improve reception.

On the Home menu, scroll to FM Radio or use the **(Mode)** button on remote to switch to FM Radio. Confirm by pushing **Tune/Select** knob or press **(OK)** on the remote.

It will ask whether you want to Scan FM Station. Press **(OK)** to start scanning and it will show the progress and the number of channels found. When it is done, it will automatically save the found channels on presets and display the list for your action.



You can select the channel and start listening to it. Whenever you want to add to **My Favourite**, press the ( ) button on remote or press and hold the ♥ button on the unit, and it will add to the favourite list.
Always press the (◀) button to return to the Preset list.
Note: When it is playing FM radio, press the (▶) button on the radio to view more radio information, each time you press the (▶) button, it will display various information at a time such as radio frequency and big clock display (or press the **INFO** on the remote).

Manual Tune

To manual tune the frequency, press the **(⏮ / ⏭)** button on remote to fine tune the frequency.

10 BT streaming

After selecting Bluetooth the display will show the Radio 's Bluetooth identifier code (WR-210N-XXXX) and connection status. If it is not connected “pairing” must take place with the audio source Bluetooth device.

When the Radio’s identification code appears in the list of local Bluetooth devices on the audio source Bluetooth device pair the two devices so that they can recognize each other and will automatically connect whenever the Radio Tuner is in Bluetooth mode and in range.

Once pairing is complete the audio file being transmitted by the Bluetooth device will be received by the Radio Tuner and played the same as any other audio source.

10.1 Listening via Bluetooth Headphones (BT Out)

Disconnect your headphones from other devices and put them into Pairing mode. Follow the steps below on the radio to finalize the connection.

1. Play an internet radio station, then navigate to Configuration > BT Headphone > select ON.
2. Choose “ Scan & Select”.
3. It will detect the BT headphone shortly, then select it to confirm.
4. You can always “Disconnect the device” and pair with new BT headphones. The list of paired devices will appear on “My devices”.
5. The next time you turn on the radio, it will reconnect to the last used BT headphone automatically.

Note:
Reconnecting Bluetooth Headphones

- Using the BT streaming mode will automatically disconnect your connected Bluetooth headphones.
- To reconnect, first select an audio playback source (e.g., internet radio). Then, navigate to Configuration > BT headphone
  > My device and select your headphones.

11 Alarm

To save battery power the **Alarm function is not available unless the radio is connected** to the USB charging power source via the USB-C cable.

There are two separate wake up alarms that can be set up independently to start at a given time, with selectable sounds, at adjustable volume and with repeat options, on their own or at the same time e.g. set Alarm 1 for normal wake time and Alarm 2 to wake in case of falling asleep again .

Select Alarm 1 or 2 and a setup wizard will start to guide selecting options.

The wake sounds selected can be a tone or a source in the My Favorites list.

After selecting the final option or adjustment exit the set up wizard by using the Move Back button **(◄)**.

Set the wake sound volume before sleeping using volume control knob on the front panel or the volume Up / Down controls on the remote.

After setting up the Alarm check to confirm it is set by the presence of the alarm icon **(⏰)** at the top, left side of the display.

The Alarm will function while the radio is On or in Standby mode if USB power is connected.

Stopping the Alarm/Activate the Snooze function

When the alarm goes off, press the ⏻ to stop the alarm or press the **Tune/Select** knob to activate the Snooze feature.

When the Snooze is activated, the alarm is muted for 9 minutes and sounds again when the time is due. You can repeat the process multiple times.

To stop the "Snooze" function, press the ⏻ .

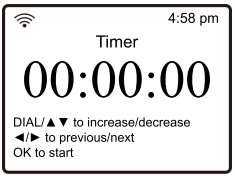
12 Timer

Setting the Timer

The device offers the Timer function as a kitchen timer. The time will count down from a specified time and ends with a beeping sound. Timer settings is up to 99 hours, 59 minutes, 59 seconds. The beeping sound volume and sound duration is adjustable from the Timer settings in Configuration menu.

Switching off the timer

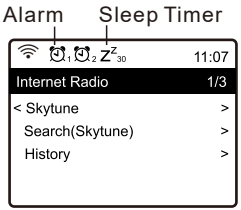
When the alarm sounds, you can turn it off by pressing the **Tune/Select** knob on the radio device or **(OK)** button on the remote control.



13 Sleep Timer

You can set the timer to let the radio turns off after the selected time elapsed in the range of 15 minutes to 180 minutes.

Press **[ZZZ]** button on the remote control to set the timer. You will see the icon appeared on the display if the timer is set.



14 Configuration

Select Configuration for a list of adjustments and options to be displayed, navigate the list and select the desired function, use the **Move Forward / Back** (◄/►) controls to go forward or backwards in the decision tree to make selection.

Network

Wi-Fi Network

- Network Options – Select if the Radio Tuner should be permanently connected or to disconnect if the connection is not active for more than 30 seconds.

- Wi-Fi Channels – Select your location to minimize interruption (drop outs) of the audio stream e.g. music.

- Wi-Fi Network
  - Add/Remove AP – Scan local area to find and list available Wi-Fi networks
  - AP:[ ] – If there is more than one router on the network select the one for the Radio Tuner to use.
  - Signal – Display Wi-Fi signal strength
  - IP [current setting] – Factory Reset default is Dynamic
  - DNS [current setting] - Factory Reset default is Dynamic

Date & Time – Set up and select options for time zone, clock and date formats, adjust for day light saving time, network time, NTP server address.

Language – There are multiple PC languages available.

BT headphone -To use BT headphone / BT speaker to play audio streamed from the WR-210N, select this option, then set the status to ON. Choose “Scan & select”, it will start scanning the BT devices. Refer to the section “BT operation” for the steps.

FM setup -Choose the FM area, scan settings and conditions.

Local Radio (United States) – Highlight the Local Radio and press OK to select the region.

Playback Setup – Options to repeat all, repeat one, shuffle or normal

Power-on options – This is to select the state of the radio on the next power up.

Auto power save-The radio will automatically turn to Standby/ sleep after certain time of no signal/ not playing. There are several timer selections available.

Dimmer – options to set LCD brightness levels in play and Standby – set Dim and Bright light levels independently from dark to full brightness

EQ [current setting] – options for playback sound e.g. Flat, Rock, Classical

Buffer Time [current setting] – select either a 2 or 5 second minimum amount of audio streaming data in the buffer (storage) when recovering from breaks in the Internet data stream before playing resumes

Timer-This is to set the alarm sound volume and the duration for the Timer function.

Network Information-View the network signal and other parameters by pressing the **( )** button on the remote control.

If using a PC to manage the My favorite stations, use the IP address and you can view this info from here. Enter the IP address (Configuration > Network Information > IP) to your PC's browser input window.

System Information – Network and System information

Software Update – There may be software release to upgrade features of the radio from time to time. Do not turn off the radio until the update has completed. If an error occurs or radio hangs up (i.e. becomes unresponsive) press and hold both the power On/Off and Mode buttons until the radio turns off

Reset to default – reset all the Radio Tuner settings and options back to the exit factory condition

15 Podcasts

On the Home screen, select "Podcasts" and press OK to confirm. You will find the following options:

Listen again – You can always add a particular episode to "Listen again" to repeat on listening or continue the unfinished part.

To save the episode to "Listen again", press the Preset button on the radio unit ♥ when it's playing, or the ♡ button on the remote. It will be added to the "Listen again" menu. To remove it from Listen again, highlight the episode and press the → button to edit.

Note: The episode will resume to play from where it left off.

Subscribed – Subscribe your favourite Podcast for easy access to listen to the latest episode.

To subscribe a Podcast, highlight the Podcast and press the right arrow button →, then select Subscribe.

To remove the subscription, highlight the podcast and press the right arrow button → to edit.

History — the previous listened episodes of the Podcasts.

Browse — To browse the list of Podcasts available

Search — Search the Podcast by keywords

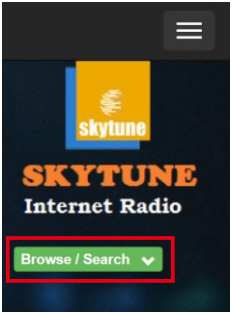
Search history — the list of previous search records.

When an episode is playing, you can always skip forward / backward by "press and hold" the ⏮ ⏭ buttons, press these buttons briefly will skip to next / previous episode.

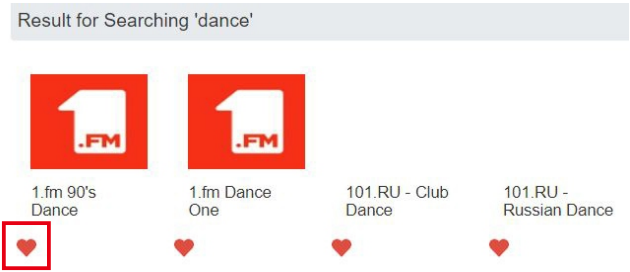
Push the **Tune/Select** knob or the ⏯ on the remote to pause pause the playback.

Browse / Search

On the opening page click Browse / Search at the lower right side of the page.

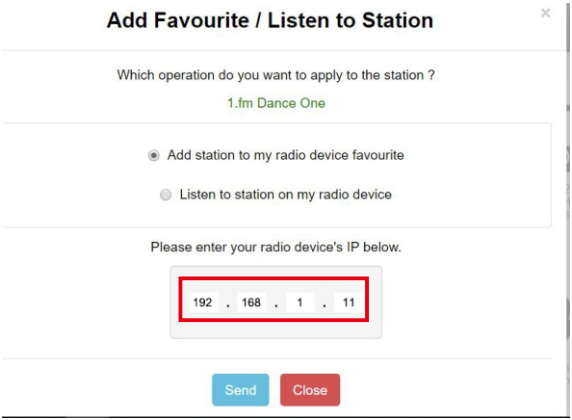


Enter the name of a Radio Station or Browse the structured list of stations available, select the one of interest and click on the heart symbol (♥) - the station logo is displayed.



The Radio Tuner connection page will ask if the station is to be played or saved in My Favorite list in your Radio Tuner.

To make an Internet connection to the Radio Tuner it's IP address must be entered in the space provided on the web page – the Radio Tuner IP can be found at Configuration>Information>Network Information.



Once the IP address has been entered select Save or Listen, click Send and My Favorite web page will be displayed i.e. a duplicate of your Radio Tuner My Favorite list.
The list can be edited using the tools provided on the web page and any changes sent to the Radio Tuner My Favorite list automatically.

Request to add Radio Station
If you know the name of a Radio Station but it is not in the list a request can be made to have it added.
On the opening page select the Suggest Station tab and fill in the application.

Adding a Radio Station

To add a Radio Station its name and URL can be entered in the Add Channel section along with selecting the Country where it is located and Genre of audio entertainment it provides.

Smart Phone, Tablet or Computer Control

With device connected to the same Wi-Fi network as the Radio Tuner use web browser to edit lists and add radio stations.

Enter the Radio Tuners IP address (Configuration > Information>Network to find IP address) as web address and a window will open to edit lists e.g. add your favorite radio station URL if it is not in the list.

17 Problems and Solutions

Cannot connect to the Wi-Fi Network

a) Common Causes

- Incorrect passcode / password for the selected Network.
- Location of the Radio Tuner has a weak Wi-Fi signal – if possible check with another Wi-Fi connected device in the same location or move to a location closer to the router.

b) Unusual Causes

- Incorrect Network security encryption – Radio Tuner supports WEP, WPA and WPA 2

Cannot play UPnP or DLNA Files

- There is no UPnP or DLNA server.
- The UPnP server is not streaming flies over the Wi-Fi Network.
- The server is not correctly configured to allow sharing of files over the network

Internet Radio has interruptions (drop outs)

- Wi-Fi Channel interference – incorrect region selected Configuration>Network>Wi-Fi Channels.
- Weak Wi-Fi signal – check the Wi-Fi symbol (top left hand side of LCD display) for a minimum of two “Bars” - add a Wi-Fi Extender to the Network if necessary.
- Radio Station has interrupted streaming – check by trying a stations in the Skytune> Globe Most Popular list.
- The Internet connection does not have sufficient bandwidth (capacity) to support all the devices connected to the Network when operating at the same time or is

experiencing excessive error rates – have the Internet connection checked by the ISP (Internet Service Provider).

Internet Radio cannot play some stations

- The station may not be streaming – not all stations stream for 24 hours a day.
- There are too many users at this time – some stations have a limited number of users they can support at any given time.
- The station link is out of date – it is updated regularly. Please access Skytune again will refresh the latest station list. In case there is still problem, please report the case to us or Skytune.
- The station link is no longer active – the station is no longer available.

18 Technical Specifications

Model: WR-210N

DC Power Input: 5 Volts 1 Amp. (USB-C)

Battery: 3.7 Volt 2000 mAh Li-Ion

Wi-Fi Wireless Network: IEEE 802.11b/g/n

(5 GHz only version ac -not supported) Frequency: 2.4 GHz

Security: WEP, WPA, WPA2

BT Version: V5.3

Frequency: 2.4 GHz

Range: 32 Feet (10 meters) Line of sight

FM frequency range: 87.5-108MHz

Analogue: 3.5 mm Stereo Headphone

3.5 mm Stereo Line Out

Dimension: 167 x 103 x 107 mm(L x W x H)

Weight: 0.8Kg

IN THE BOX

- Internet Radio
- User Manual
- Remote Controller (2 x AAA battery not included)
- USB Cable

WEEE AND RECYCLING

The European laws do not allow any more the disposal of old or defective electric or electronic devices with the household waste. Return your product to a municipal collection point for recycling to dispose of it. This system is financed by the industry and ensures environmentally responsible disposal and the recycling of valuable raw materials.

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FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Statement
This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.