



Internet radio with FM WR-393

User Manual

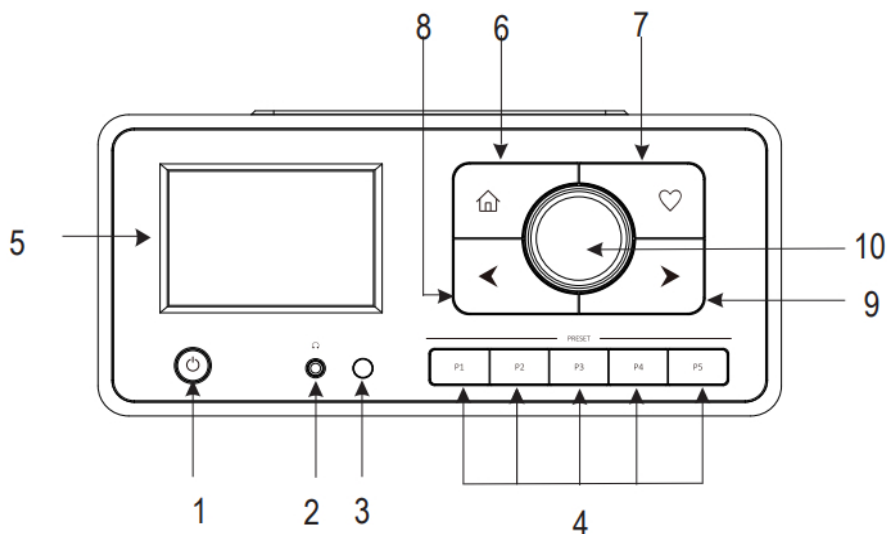


Please read this user manual carefully before using the receiver

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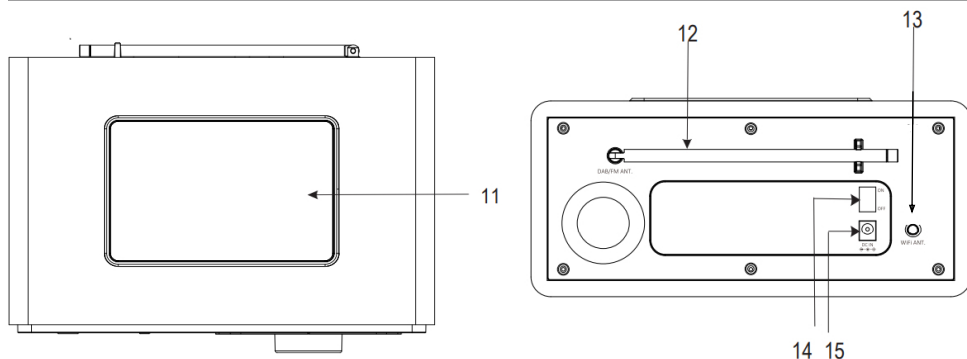
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Location of Controls



1. Press to enter/wake from Standby mode.
2. **Headphone jack (stereo)**
3.5 mm stereo output.
3. **IR sensor**
Receives Infra red signal from remote control.
4. **Dedicated Preset button No.1-5**
Press and hold to preset 5 dedicated stations. Press briefly to recall to play. These are independent presets and will not appear on the "My Favorite" list.
5. **Color display 3.5"**
6. **(HOME)**
Press to display Home menu to view different radio modes / setting options.
7. **(FAV)**
Press and hold to preset the favorite stations up to 150. Press it briefly to recall the list.
8. **(Left key)**
Press to exit to previous menu / delete entry of character / left navigation.
9. **(Right key)**
Press to cycle through the display options in radio playing mode / Enter edit menu in Favourite list / right navigation.
10. **Dial/Select knob (for volume/up/down/select/OK)**
Rotate to adjust volume/dial up/down. Push to select/confirm.

Location of Controls



11. Speaker

12. Telescopic antenna for FM

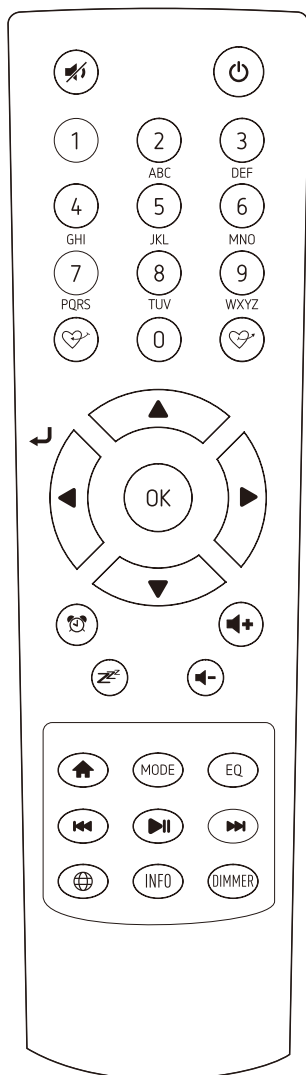
13. External Wifi antenna socket - please screw on the wifi antenna (supplied in the box) before setting up the radio

14. Power on / off switch

15. DC-IN Jack (12V 2A)

Remote control

1. : Mute
2. **0-9**: Input index number on the list / input characters for WiFi security code
3. : Preset the current playing station to Favorite
4. : Up navigation
5. : Left navigation/back to previous menu
6. : Alarm button
7. : Sleep Timer
8. **Mode**: Switch between various radio modes
9. : Home
10. : Previous station on the list (Internet radio / Podcasts)
Manual tune on FM
Previous track on BT / Media Centre
Under Podcasts, press and hold the button to skip backward in the same track
11. : Access network info of the radio unit
12. : Press to toggle between Standby and Operation
13. : Recall the favorite list
14. **OK**: confirm button
15. : Right navigation
16. : Down navigation
17. **Vol+**: Volume up
18. **Vol-**: Volume down
19. **EQ**: Equalizer
20. : Next station on the list (Internet radio / Podcasts)
Manual tune on FM
Next track on BT / Media Centre
Under Podcasts, press and hold the button to skip forward in the same track
21. : Play / pause for BT / Media Centre / Podcasts
Play/stop for Internet radio
22. **Dimmer**: Access the Dimmer menu to adjust the brightness of the display
23. **Info**: Toggle to cycle through the station's info, the big clock display or return to now playing screen



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.

Precautions

- The radio should not be used in a high temperature or high humidity environment over prolonged periods of time as this may damage the unit.
- Keep the radio away from liquids as it may get damaged. Please switch off the radio immediately if water or liquids is spilled into the radio. Consult with the shop you bought this radio for any question.
- Avoid using or storing the unit in dusty or sandy environment.
- Do not open and repair the radio by yourself.
- Use only the DC adaptor supplied with the radio. Connecting a power supply with a different rating will cause permanent damage to the radio and may be hazardous.
- Clean only with dry cloth.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD,
DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

1. Getting started

- Remove internet radio from the package box.
- Plug in the DC adapter and switch the Power on/off switch (on the rear cabinet) to ON. The radio will turn on automatically.

◇ Caution: Use only the adaptor supplied with the radio. Connecting a power supply with a different rating will cause permanent damage to the radio and may be hazardous.

2. Setting up network (Scan & Select)

- 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 available. 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.

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: 6MNOnno

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.

Enter passphrase

0	1	2	3	4	5	6	7	8	9	a	✓
A	b	B	c	C	d	D	e	E	f	F	✗
g	G	h	H	i	I	j	J	k	K	l	🗑️
L	m	M	n	N	o	O	p	P	q	Q	
r	R	s	S	t	T	u	U	v	V	w	
W	x	X	y	Y	z	Z	<	/	=	>	

When the entries are done, move the cursor to this mark and press OK to confirm.

Using control buttons on the radio unit

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

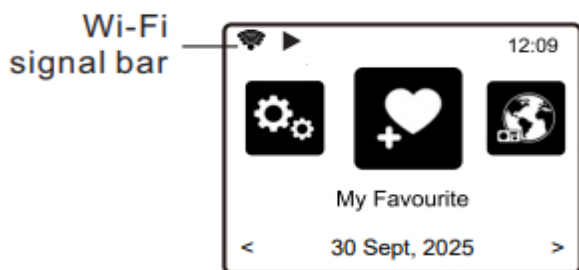
Note: The password is case sensitive.

Setting up network (WPS)

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 [Dial/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".



3. Overview of features and functions

Press [] to enter the Home screen or the  on the remote control.
Scroll by rotating the [Dial/Select] knob or the navigation buttons on the 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 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 in standby after the selected time elapsed.

Configuration — More options/settings available to personalize as you desire.

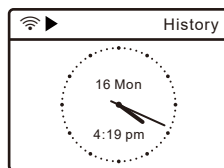
Podcasts — Explore a wide range of podcast programs from around the world.

Clock style

Set the clock display in Digital or Analog as you like. Under Configuration> Date & Time > Set clock style.



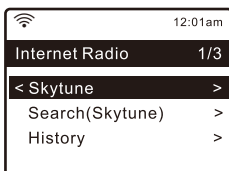
Digital style



Analog style

4. Internet Radio

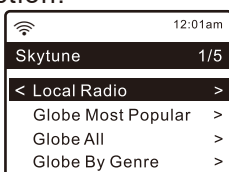
On the Home screen, choose Internet Radio and you will find the options below:



Skytune

Select Skytune to start enjoying thousands of radio stations over the world. You can filter your search by Region, Music genre and talks.

The **Local Radio** let you access quickly the stations available in your local area through internet connection.



Note — You can change the Local Radio area under **Configuration> Local radio** setup.

Note — When you scroll along the list of **Globe All** and want to quickly reach to a certain point of the long list, input the index number on the remote control to quickly jump to that point. For example, on the remote control, input 2 8 and press OK, it will highlight the station no. 28.

Search

Instead of browsing the radio station list, you can input a few characters of the desired station to filter out / short list the stations.

History

The radio memorizes the stations you have listened up to 99 stations.

If you have listened more than 99 stations, it will supersede the first station that you have listened.

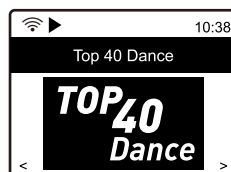
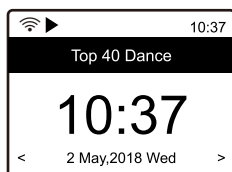
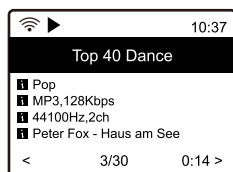
Start playing internet radio

When a radio station starts playing, more station information can be displayed. Press the [▶] button on the unit or [INFO] button on the remote control in the state of the playback screen below:



4. Internet Radio

Every time you press the [►] button on the unit or [INFO] button on the remote control, it will cycle through information at a time such as the streaming bit rate, name of the song, artist name (if available), the big time clock and the radio's station logo (if available) or return to now playing screen:



Press [⏠] to return home screen. To go back to the playback screen, press the [⏠] button again.

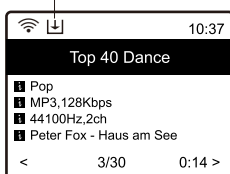
My Favorite

This is to show the list of your Favorite stations which have been assigned to the presets.

Preset a station

When a radio station is playing, press the  button on the remote control, you will see the  icon appears as below. It means the station is added to the Favorite list. Alternatively, you can press and hold the [♥] button on the radio to save to Favorite.

Preset icon



The new added station will always show in the last item on the Favorite list. You can store up to 150 presets.

Recall a station

Press the  button on the remote control to recall the list of My favorite, or navigate to My Favourite on the Home screen and select it to confirm. On the radio, press the [♥] button to recall the favorite list.

Dedicated Preset button #1-5

Program the 5 preset button to access the stations you play it most of time. Press and hold the 1-5 button on the radio to preset, press it briefly to recall. These 5 presets are stored separately from the My Favorite list.

4. Internet Radio

Note: The 5 dedicated preset stations do not appear on the "My Favorite" list. To replace it with another station, play the station you want to replace with, then press and hold the preset number button on the radio.

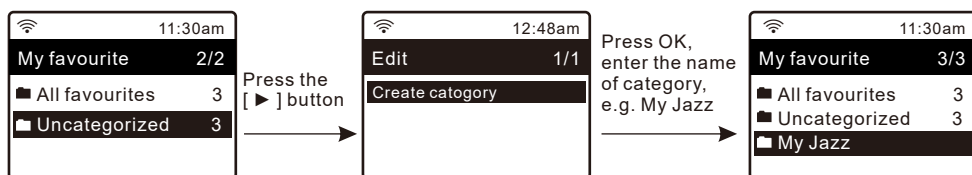
Create new categories - Organise your Favorites in your way!

There are two items in the My Favorite list as below, "All Favorites" and "Uncategorized":

11:30am
My favourite 2/2
All favourites 3
Uncategorized 3

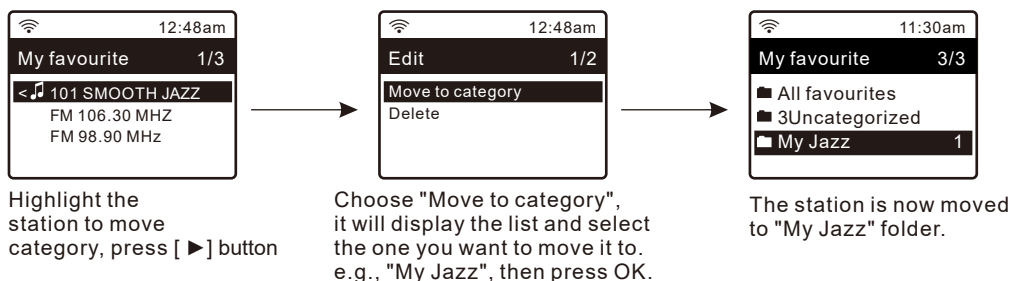
You can create new categories of your favorites and name it as you like, e.g., "Morning mix", "My Jazz", "After work"...etc to manage your favorites.

In the page of "My Favorite", press the [►] button, it will enter the edit menu with "Create Category" as below:



Once a category is created, you can assign the favorite stations to the category as desired. The "Uncategorized" folder gathers the stations that are not yet assigned to any custom categories.

To move stations to the desired category, navigate to the "Uncategorized" folder, choose the station to move, press the [►] button and select "move to category". Then highlight the desired category to move it to, and push [Dial/Select] on the radio device or press [OK] on the remote to confirm. You will find the selected station is moved to the new category. You can always move the station from one to another.



5. Media Centre

The device supports UPnP and is DLNA-compatible.

This provides the opportunity to stream music from your network. However, this requires you to have a compatible device in your network that can function as a server. This can be e.g., a network hard drive or a conventional PC with e.g., Windows 8 via which access to the shared folder or media sharing is permitted. The folders can then be browsed and played on the radio.

Note — Please make sure your computer laptop is on the same Wi-Fi network as the Radio before you start using this function.

Music streaming

- Once the UPnP/DLNA compatible server is configured to share media files with your radio, you can start music streaming.
- On the main menu, select **Media Centre** and choose **UPnP**.
- It may take a few seconds for the radio to complete the scan for available UPnP servers. If no UPnP servers are found, it will show **Empty List**.
- After a successful scan is done, select your UPnP server.
- The radio will show the media categories available from the UPnP server, e.g. 'Music', 'Playlists' etc.
- Choose the media files that you wish to play.

You can set the mode of playback under **Configuration > Playback setup**.

My Playlist

You can make your own playlist for the UPnP music files. Choose and highlight the song you want to add to playlist, press and hold the [♥] button or press the ♥ button on remote, until the sign ⬇ appears. The song will be added to **My playlist**.

Clear My Playlist

Remove all songs in "My Playlist" to allow a new playlist to be prepared.

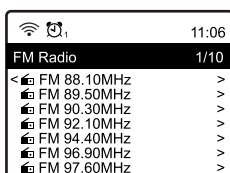
Note — If you have DLNA compatible servers available, follow the steps described above to browse the audio files from DLNA compatible device on the radio to play.

6. 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.

On the Home screen (main menu), scroll to FM Radio or use the **[MODE]** button on remote to switch to FM Radio. Press **[OK]** to start.

Choose **FM full scan** to confirm scanning if this is the first time using the FM radio. When it is done, it will automatically save the found channels on presets and display the list for your action.



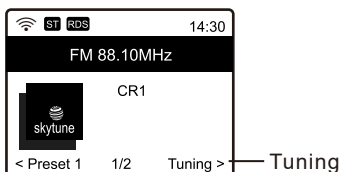
You can select the channel and start listening to it. Whenever you want to add to **My Favourite**, press the  button and it will add to the favourite list (or press and hold the **[♥]** button on device).

Press the **[◀]** button to return to preset list.

Note — When it is playing FM radio, press **[▶]** button on the device or **[INFO]** button on the remote control 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.

Manual Tune

To manual tune the frequency, long press the **[Dial/Select] knob** on the unit, until you see the "Tuning" appeared on the display at the bottom right corner. Use the **[◀ / ▶]** buttons to tune the frequency. When done, long press the **[Dial/Select] knob** to exit manual tune.



Using the remote control to fine-tune the frequency, press the **[◀ / ▶]** buttons and the frequency will begin advancing or receding, when done, add it to the Favorite.

7. BT playback

Before transmission between your BT device and the radio is possible, both devices must be coupled. This process is called "pairing". The radio is served as a receiver, to receive music stream to play on the radio.

If you have already coupled to a BT device before, this connection will be restored automatically when both devices are in range and BT operation has been selected on the radio. "Pairing" does not have to be repeated. This function may need to be activated in your BT device, however.

- Choose BT Streaming on the radio to enter the BT mode.
- Switch your BT device to which you want to connect the radio on and activate the pairing mode here. The device scans for BT devices in the reception range.
- When the radio is found, your BT device shows its name WR-393-XXXX (the XXXX is an identification code for your radio unit).
- Select the radio at your BT device.
- Start playback on your BT device.
- Playback now takes place using the radio.

8. Alarm Setting

- Choose **Alarm** from the Home menu or press the  button on the remote control.
- Select either Alarm 1 or Alarm 2, choose **Turn on** to activate the Alarm.
- Follow the alarm wizard instructions to set the alarm.
- The wizard will guide you through the settings below:

Time — Set the time for the alarm

Sound — You can choose **Wake to Tone, My Favourite, Wake to FM Radio** as the alarm source.

Note — Wake to FM - only the preset stations can be used for the radio alarm (if the preset scan has been completed).

Wake to My Favourite — Please preset your favorite station before setting this as the alarm source.

 The Presets in Preset button 1-5 cannot be selected direct as the alarm source. If you want those 5 presets to become one of the alarm sounds, add these stations to the "My Favorite" list by press and hold the [] button or the [] button on remote.

Repeat — You can schedule the alarm as you desire -Everyday, Once or multiple days.

Alarm Volume — Adjust the volume setting of the alarm by rotating the [Dial/Select] or [▲/▼] buttons on remote.

Alarm duration — Set the duration of the alarm from the preset options ranging from 30 to 180 minutes. The radio will be turned to standby when the selected duration of time is due.

- After the above settings are completed, press the [◀] button to exit and make sure the Alarm is turned on. You will see the Alarm icon appeared on the display if it is activated.

Stopping the Alarm/Activate the Snooze function

When the alarm goes off, press the [] to stop the alarm or press the [OK] button 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 [] button.

9. Timer Setting

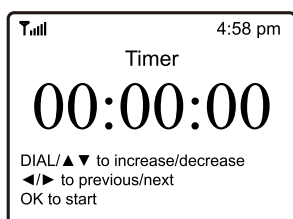
Setting the Timer

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 **[OK]** button on the radio device or on the remote control.

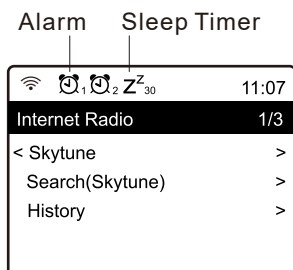


10. Sleep Timer Setting

You can set the timer to let the radio goes to sleep after the selected timer elapsed. There are number of preset timer options from 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.



11. Podcasts operation

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 remote when it's playing. It will be added to the list. To remove it from Listen again, highlight the episode and press the right 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 button , then select Subscribe.

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

History — the previous listened episode 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.

Using remote control to operate more functions. 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.

Press the  to pause the playback.

12. Configuration

Here you will find the complete settings / options available to configure your own radio. On the main menu, navigate to Configuration setting. Press OK and you will see a list of options available.

Network

• Wireless Network

» Add wireless network

Scan & select — It will scan out a list of wireless networks around.

WPS button— Choose this option to connect your Wi-Fi router via WPS if the router has a WPS button.

» Remove wireless network

If you have already set up a network and want to remove it, choose this option.

Note — Always bring the radio within 2 meters of the Wi-Fi router for setup.

» AP: []

If you have added more than one network on the radio and want to switch to another one, select this option to change.

» Signal

This is to show the strength of the wifi Signal of the wifi router as received by the radio. Usually signal levels lower than -70dBm is at weaker level and if it affects the reception of your radio, you may need to optimize the router location or check any problem of the router itself.

» IP

The IP is set Dynamic by default. Select to change Fixed IP according to your network condition.

» DNS

The DNS is set Dynamic by default. Select to change <Fixed> DNS according to your network condition.

12. Configuration

- **Network auto on/off**

Always on: The WLAN function remains switched on (faster access when switching from FM mode to Internet radio).

Auto off in 15s/30s: The WLAN function shuts down after 15/30 seconds when not in use (to save energy).

- **Wireless Channels**

Not all of the Wireless channels are available in every country. There may be variation between different countries. Therefore it is necessary to choose the Wireless channels to ensure the Wi-Fi performs satisfactory.

We have already set the channels according to the requirement in different countries. Choose the country you are staying from the list to get the correct channel.

- **Network connection test**

In case there are any issues in connecting Skytune, select this option to check out any failed items of the network parameters for further diagnosis.

Date and Time

- **Set date & time**

Enter date and time manually by selecting this option.

- **Time zone**

Set the time zone to synchronize the time automatically to the network time. Coupled with the "set time from network" and "DST (Daylight time saving)" will be adjusted automatically if you choose to use network time.

- **Set Time Format**

Choose either 12-hour or 24-hour notation you prefer.

- **Set clock style**

You can choose the clock display in digital form or Analog style. The selected style will apply in Standby as well as the big clock display in radio playback.

- **Set Date Format**

- **DST (Day Light Saving)**

Enable on/off

12. Configuration

- **Set time from network**

This is designed to synchronize a device's clock with a time server. Your radio will synchronize the time server by default every time it powers up and connects to Internet. This ensures a very high degree of accuracy in the radio's clock. You can change to use other time server by inputting the URL address (see below Network time server). You can choose not to use the network time by setting "off" in this option.

- **Network time server**

It shows the default time server being used to synchronize the radio device's clock. If you want to set another time server, input the URL to make the change.

- **Set time from FM**

Choose to synchronize the time with the FM broadcasts. The accuracy depends on the broadcasting station, and may vary by station.

Language

There are multiple languages available.

FM Setup

- **Scan setting**

Either "All stations" or "strong stations" (with stronger signal) can be selected for the scan.

- **Audio setting**

If the signal is weak and stable stereo reception is not possible, select "Forced Mono" to get better reception.

- **FM full scan**

You can always carry out a new scanning of FM channels by selecting this option. All current presets and channels will be erased. The radio at the lowest frequency of the scanned values will be highlighted. The preset list will be saved unless a new preset scan is carried out.

- **FM station list**

You can adjust the preset ranking by Move down, Move up or Delete it. Highlight one of the preset and press the [►] button, it will enter into the Edit menu.

Always press the [◀] button to return to the Preset list.

Local Radio

The region of the Local radio is set by default. Follow the steps below to change the region:

1. Highlight the Local Radio and press OK.
2. Choose Manual-set Local radio to change the region setting.

12. Configuration

Playback Setup

This is to set the mode of playback under UPnP/DLNA compatible streaming: Repeat All, Repeat Once or Shuffle.

Power-On Options

This is to select the state of the radio after a power reset / power cut, or the next power up from Standby. There are 3 options available:

- Go to Standby
- Resume once ready: the radio will resume playing the last listened station.
- Ready to use: the radio will stay in Home screen for your action.

Auto Power Save

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

Dimmer

You can set the backlight level for the display as you prefer.

There are two settings: Mode and Level

• Mode — Normal or Power Saving

Normal — the display will stay with the same level of brightness all the time without dim down.

Dim — the display will dim down after 20 seconds if no operation is made on the radio.

• Level — Bright and Dim

Bright — This is to adjust the level of brightness in Normal mode.

Dim — This is to adjust the level of brightness in Dim mode.

• Dimmer in Standby

The highest backlight level in standby is set by system default. To further reduce the backlight or turn it completely off, adjust it by pressing the ▼ button. Increasing the backlight beyond the system level will illuminate for 20 seconds and then dim to default setting automatically.

12. Configuration

EQ(Equaliser)

Various music genres can be set.

Buffer Time

Sometimes you may experience uneven playback of the internet radio. This can happen if the internet connection is slow or network congestion occurs. To help improving the situation, you can choose longer buffer time to get a few seconds of radio stream before beginning to play.

The default value is 2 seconds. You can choose 5/10 seconds if you prefer to have a longer buffering time.

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. To access quickly to this information, press the [] button on the remote control.

When you use your PC to manage the My favorite stations, you have to use the IP address and you can view this info from here. Then type in the IP address (Configuration > Network Information > IP) to your PC's browser input window.

System information

The model number, system MID and software version (App version) can be found here.

Software Update

There may be software release to upgrade features of the radio from time to time. Check the update regularly to keep your radio up to date with the latest software.

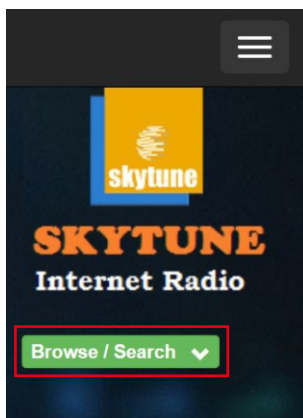
Reset to Default

You can do the reset to clear all the settings and return to default settings. **Please note all the Station presets, Settings and configuration will be erased after you have performed the Reset.

13. Web browser control via PC / Smart phone – Tuning internet radio & manage favourite

Experience an easy way to control tuning internet radio channels and manage your favourite list via PC or Smart phone's web browser. The supported browsers are Internet Explorer and Chrome. Have the radio stayed on Internet radio mode when using this feature.

- Connect your PC or Smart phone to the same Wi-Fi network as your radio.
- Visit www.skytune.net
- On the home page, click “Browse/Search”



- Browse or enter the name to search the radio channel, a list of internet radio channels will be displayed.
- Click the “♥” symbol

Result for Searching 'dance'



1.fm 90's
Dance



1.fm Dance
One



101.RU - Club
Dance



101.RU -
Russian Dance



13. Web browser control via PC / Smart phone — Tuning internet radio & manage favourite

- It will prompt you whether to "Add Favourite" or "Listen to Station". Enter the IP address of your radio (e.g. 192.168.1.11):

Add Favourite / Listen to Station

Which operation do you want to apply to the station ?

1.fm Dance One

☒ Add station to my radio device favourite

☐ Listen to station on my radio device

Please enter your radio device's IP below.

192 . 168 . 1 . 11

Send

Close

The IP address can be located on the radio unit as follow:

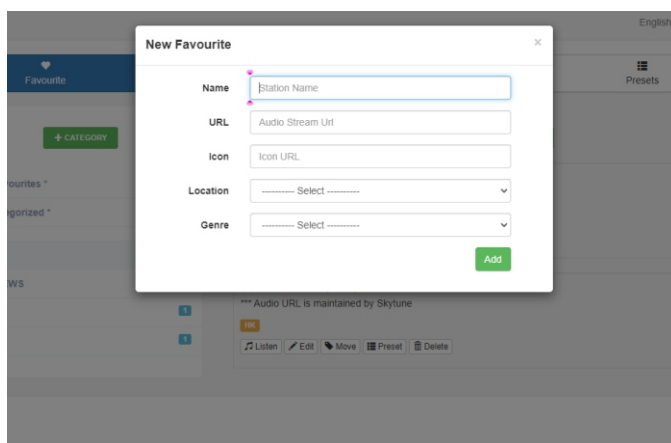
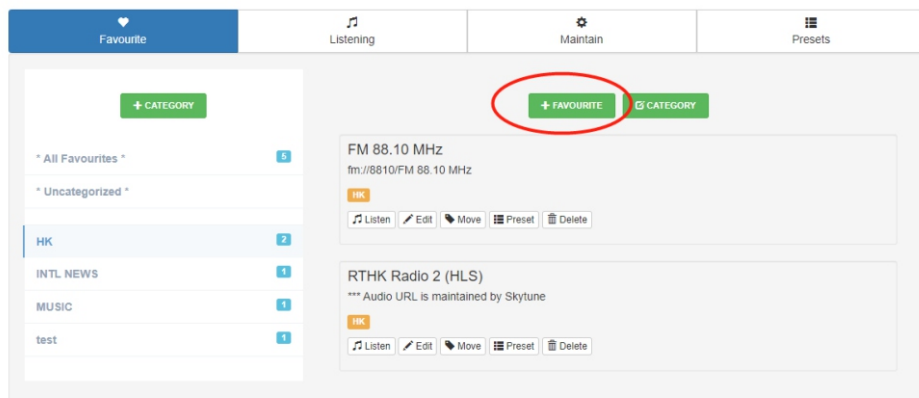
* On the remote control, press the [] button, scroll to IP to view the IP address

* On the radio, return to the Home menu. Navigate to **Configuration > Network Information > IP**

- Select "Listen to Station", click "Send" and the radio unit will switch playing the channel and the "My Favourite" page will pop up on the web browser.

You can then choose to add the playing station to favourite or manage your list by other edit options. Any changes will synchronize to the radio unit immediately.

13. Web browser control via PC / Smart phone — Tuning internet radio & manage favourite



You can also add the radio channel if you know the published audio stream URL with the streaming format as follow:

1. Audio formats: MP3, AAC, AAC+
2. Stream formats: Shoutcast, Icecast (HTTP, HTTPS) and HLS
3. Playlist formats: PLS, M3U
4. Sampling frequency: 44.1 KHz and 48 KHz

14. Trouble Shooting

Problem	Cause	Solutions
Cannot connect to Wi-Fi network	Network down	• Confirm that a Wi-Fi or Ethernet Wired connected PC can access the internet (i.e. can browse the web) using the same network. • Check that a DHCP server is available, or that you have configured a static IP address on the radio. • Check that you firewall is not blocking any outgoing ports. As a minimum the radio needs access to UDP and TCP ports 80,443 and 8008, DNS port 53.
	Router restricts access to listed MAC addresses	Obtain the MAC address from Configuration > Information > Network > Wi-Fi MAC and add to the allowed equipment list on your access point. Note: The radio has separate MAC addresses for wired and wireless networks
	Insufficient Wi-Fi signal strength	• Check distance to router; see if a computer can connect to the network in this location • Optimize the distance of the router's location
	Unknown encryption method	Change encryption method on router. The radio supports WEP, WPA, WPA2
	Firewall preventing access	• Disable the fire wall to see if radio can connect to the network. • Windows Media Player: varies non Microsoft firewalls may require configuration for UPnP.

15. Trouble Shooting

Problem	Cause	Solutions
If your radio can connect to the network successfully, but is unable to play particular stations		• The station is not broadcasting at this time of the day (remember it may be located in a different time zone). • The station has too many people trying to attach to the radio station server and the server capacity is not large enough. • The station has reached the maximum allowed number of simultaneous listeners. • The update of the link is done regularly. To get the updated list of stations, please access from Internet radio > Skytune. If case a particular stream is still not working, please contact us or Skytune to report the case.
No FM reception		• Please carry out “Factory Reset” on the radio and extend the antenna. • Move the radio close to the window.
FM Radio reception is poor		• Please check that the aerial is extended for the maximum signal strength and improved reception. • Check that you do not have other electrical equipment too close to your radio, causing interference.
No sound		• Please check if the playback is stopped. Press the OK button on the remote to resume playback. • Adjust the volume • Check if other radio stations have the same problem or just happened on a particular station.

Helpful Tips

1. If the Internet Radio keeps re-buffering radio station:

The Internet Radio is streaming the data from the radio station via your broadband connection, if there is a high error rate on your broadband connection, or the connection is intermittent, then it will cause the Internet Radio to pause until the connection is re-established and it has received enough data to start playing again. If your Internet Radio keeps stopping, please check the DSL modem to ensure that the Broadband line is not suffering a high error rate or disconnections. If you are experiencing these problems, you will need to contact your broadband supplier.

2. What is Buffering?

When playing a stream, the Internet Radio/Media player, downloads a small amount of the stream before it starts playing. This is used to fill in any gaps in the stream that may occur if the internet or the wireless network is busy. The Internet Radio streams music data from the PC while you are listening. If a stream gets blocked or experiences Internet congestion while transferring it may stop/interfere with the quality of play. If this happens, check your internet connection speed- it must be faster than the speed of the streams.

3. My radio is working but some stations cannot be played.

The problem may be due to one or more of the followings:

- a. The radio station is no longer broadcasting.
- b. The radio station has reached the maximum allowed number of simultaneous listeners.
- c. The radio station has changed the stream arrangement and the link is no longer valid.
- d. The radio station is not broadcasting at the time of the day (not all stations are broadcasting 24 hours throughout the day).
- e. The Internet connection between your radio and the radio station server is too slow or unstable to support the data rate of the broadcast.

Technical Specification

Model	WR-393
Power input	12V  2A
Power voltage	100-240V~50/60Hz
Wireless Network	IEEE802.11b/g/n
Wireless network frequency	2.4 GHz
Security Protocol	WEP/WPA/WPA2
BT version	V5.3
BT frequency	2.4 GHz
BT range	10 meters (line of sight)
FM frequency range	87.5-108MHz
Audio output	Stereo headphone jack 3.5 mm
Telescopic antenna	for FM
Wifi antenna	for wireless network reception
Unit Dimension	140 x 250 x 160mm(L x H x D)

Remark: Specification may vary without notice

In the box

- Internet Radio
- Power adaptor
- Remote control (without batteries)
- Wifi antenna
- User manual

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.

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.

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.