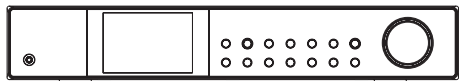
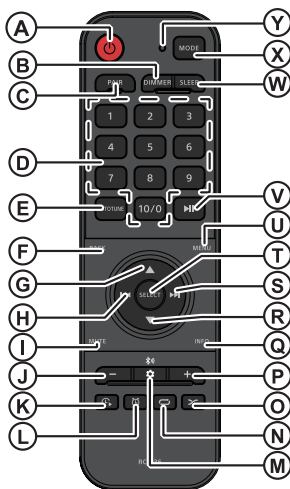
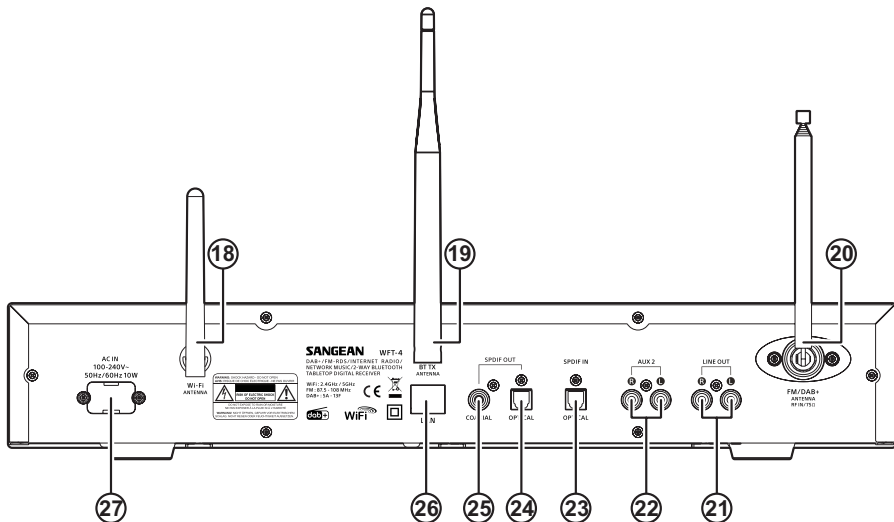
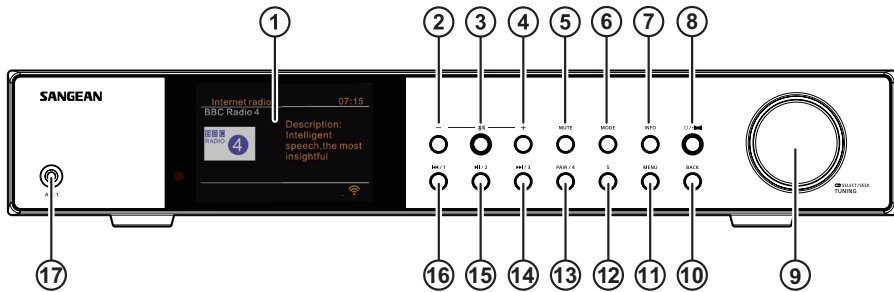


WFT-4



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Revision 4



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1. Important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong.

The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet. Consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged. Liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To Reduce the Risk of Fire or Electric Shock, Do not Expose This Appliance to Rain or Moisture.
16. The Shock Hazard Marking and Associated Graphical Symbol is provided on the back of unit.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude as to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



17. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, shall be placed on the apparatus.

18. The power plug should be close to the radio, and easy to be approached that during the emergency, to disconnect the power from the radio, just unplug the power plug from the AC power slot.
19. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnected device shall remain readily operable.

20. Replacement of a battery with an incorrect type that can defeat a safeguard (for example, in the case of some lithium battery types).

Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.

Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

21.  : The symbol indicates AC voltage.



The symbol indicates class II equipment.

CAUTION:

These servicing instructions are for use by qualified service personnel only.

To reduce the risk of the electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to so.

2. Introduction

Overview of the main unit and the remote control

- ① LCD display
- ② Volume down button for Bluetooth transmitter
- ③ Bluetooth transmitter button
- ④ Volume up button for Bluetooth transmitter
- ⑤ Mute button
- ⑥ Mode button
- ⑦ Info button
- ⑧ Power (Standby) / Sleep button
- ⑨ Tuning knob / Select / Seek button
- ⑩ Back button
- ⑪ Menu button
- ⑫ Preset 5 button
- ⑬ Preset 4 / Bluetooth pair button
- ⑭ Preset 3 / Next / Fast forward button
- ⑮ Preset 2 / Play / Pause button
- ⑯ Preset 1 / Previous / Rewind button
- ⑰ Aux in 1 socket
- ⑱ Wi-Fi antenna
- ⑲ Bluetooth transmitter antenna
- ⑳ Telescopic antenna

- 21 Line output socket
- 22 Aux in 2 socket
- 23 Optical input socket
- 24 Optical output socket
- 25 Coaxial output socket
- 26 Ethernet socket
- 27 AC IN socket

Remote control

- A Power (Standby) button
- B Dimmer button
- C Bluetooth pair button
- D Numeric buttons / Preset buttons
- E Autotune button
- F Back button
- G Menu up / Tuning up button
- H Menu left / Previous / Rewind button
- I Mute button
- J Volume down button for Bluetooth transmitter
- K Scheduled playing button
- L Alarm button
- M Menu button for Bluetooth transmitter
- N Repeat button
- O Shuffle button
- P Volume up button for Bluetooth transmitter
- Q Info button
- R Menu down / Tuning down button
- S Menu right / Next / Fast forward button
- T Select button
- U Menu button
- V Play / Pause button
- W Sleep button
- X Mode button
- Y Infrared LED

Note: All instructions in the manual use the controls on the product itself. If you would want to use the remote control instead, use the corresponding buttons on the remote control instead.

3. Getting started

Finding a suitable location for the radio

After unpacking the radio from the box, take the following guidelines into account when finding a suitable location for the radio:

- Place the radio on a flat, even surface such as a table.
- Do not place the radio near heat sources.
- Make sure there is sufficient space available around the radio for proper ventilation.

- If you are planning to connect the radio to your Wi-Fi network, make sure to place the radio in a location where Wi-Fi reception is good.
- Avoid placing the radio near appliances that can interfere with Wi-Fi reception, such as microwaves.

Preparing the remote control

The radio's remote control requires two AAA batteries to operate. To place the batteries:

1. Open the battery compartment on the back of the remote control.
2. Insert two AAA batteries in the battery compartment with polarities as shown in the diagram inside the battery compartment.
3. Close the battery compartment again.

Connecting the radio to the mains power supply

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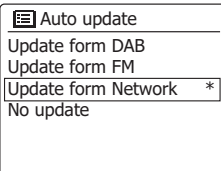
The WFT-4 can be powered using the supplied AC power cord. Before connecting the plug of the AC power cord to a wall socket, please ensure that the voltage that the wall socket supplies is within the supported range printed at the back of the radio (100-240 V ~ 50/60 Hz).

If this is the case, first connect the connector of the power cord to the radio and then insert the plug of the power cord into the wall socket.

Performing the radio's initial setup

After your WFT-4 has been supplied with power for the first time, it will automatically turn on. When the software is loaded the radio's Setup Wizard will automatically be started.

1. By default your WFT-4 will display all menus and messages in English. If English is your preferred language then press the **Tuning knob** to confirm. If your preferred language is not English, rotate the **Tuning knob** to select your preferred language and then press the **Tuning knob** to confirm.
2. Next the radio will ask if you want to start the Setup Wizard now. Use the **Tuning knob** to select **[Yes]** or **[No]** and press the **Tuning knob** to confirm your choice. Select **[Yes]** to proceed with the Setup Wizard or select **[No]**, the screen will ask if you wish to run the setup wizard again at the next start up. This will lead to go to the radio's Main menu without configuring the radio's time format and network connection.
3. After selecting **[Yes]**, the radio's display will show "12/24 hour format". Use the **Tuning knob** to select the desired time format and press the **Tuning knob** to confirm your choice.
4. Next, the auto update list is shown on the radio's display.



Rotate the **Tuning knob** to select one of the 4 following options and press the **Tuning knob** to confirm.

- **[Update from DAB]:** Synchronize the radio's time and date using DAB stations.

- **[Update from FM]:** Synchronize the radio's time and date using FM stations.
- **[Update from Network]:** Synchronize the radio's time and date using a network connection.
- **[No update]:** Time and date will not be synchronized and has to be set manually.

The default is to auto update from the network. If you choose **[No update]** you will need to set the time and date manually later (see the section of "Manually setting the time and date"). The default of **[Update from Network]** will be the best option for most users. You will first need to select the correct time zone and daylight savings setting, see steps 5 and 6.

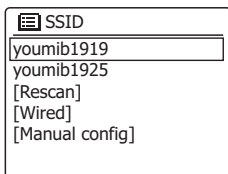
5. Rotate the **Tuning knob** to highlight the time zone which is applicable to your location. Press the **Tuning knob** to confirm the setting.
6. You will then need to set the Daylight savings option according to your location (Daylight savings is also known as Summer / Winter time or BST / GMT adjustment). Rotate the **Tuning knob** to highlight **[ON]** to turn on daylight savings if required or **[OFF]** if you do not wish to use daylight savings then press the **Tuning knob** to confirm the setting.
7. The radio will ask if you want to keep the radio connected to the network. Use the **Tuning knob** to select **[Yes]** to activate this function or select **[No]** to deactivate this function. Press the **Tuning knob** to confirm your choice.

Note:

If **[No]** is selected here, when a mode is used that does not require an internet connection or when the radio is in the Standby mode, the radio will automatically disconnect from the network after a short period of time and automatically reconnect to the network when internet is needed.

8. The Network Wizard will now scan for networks and show a list of Wi-Fi networks that are detected by the radio along with several other options.

Use the **Tuning knob** to select one of the options and then press the **Tuning knob** to confirm your selection.



- **[Name of a Wi-Fi network]:** Select the name of a Wi-Fi network to proceed to the password entry screen for the selected network.
- **[Rescan]:** Select this option to scan for Wi-Fi networks again.
- **[Wired]:** Select this option if you have connected the radio to a LAN using an Ethernet cable (not included).
- **[Manual config]:** Select this option to manually configure the radio's internet connection (wired / wireless, DHCP enabled / disabled, IP address / subnet mask, SSID, authentication method and password).

9. You have now completed the Setup Wizard and are ready to start using your WFT-4. After completing the Setup Wizard, the radio's Main menu will be shown on the display.

Notes:

- (1) All of the radio's menus can be navigated by rotating the **Tuning knob** to select an option and then pressing the **Tuning knob** to open or confirm the selection.
- (2) During the Setup Wizard, the radio's default and recommended settings are indicated using an asterisk.
- (3) In order to use any of the radio's internet features or to control the radio using the UNDOK app, the radio must be connected to a network that has internet access.

Turning the radio on / off

The WFT-4 can be switched on or off by pressing the Power button. After the radio is turned on, it will automatically select the last used source.

Selecting the operating mode

There are two ways to select the operating mode:

- Press the **Mode** button, then rotate the **Tuning knob** to select the desired operating mode. Press the **Tuning knob** to confirm your choice.
- Select from the main menu of the radio. (Refer to chapter 14 "Using the Main menu" for details regarding the radio's Main menu).

4. Controlling the radio using the UNDOK app

Aside from controlling your WFT-4 with the buttons on the radio or the remote control, it can also be controlled from a smart device using the UNDOK app. The UNDOK app offers an intuitive and easy to use user interface, allows you to configure many of the radio's settings and is available for Android and iOS.



Using the UNDOK app to control the radio

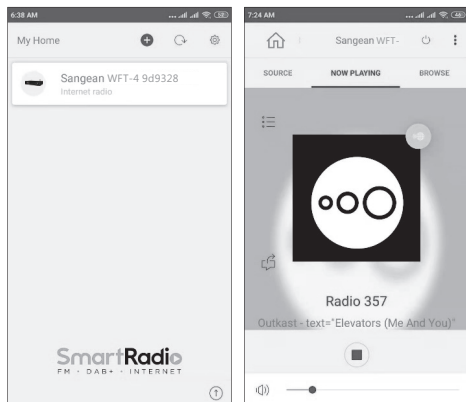
Follow these steps to use the UNDOK app to control the radio:

1. Download and install the UNDOK app for your device by searching for "UNDOK" in Apple's App Store or the Google Play Store.
2. Make sure the radio and your smart device are connected to the same network. Instructions for connecting the radio to your network can be found in the "Performing the radio's initial setup" section of chapter 3 "Getting started".
3. Open the UNDOK app on your smart device.

After starting the UNDOK app, your WFT-4 should appear on the home screen of the app with the name "WFT-4 xxxxxx" (the 6 digit alphanumeric code are the last 6 digits of your radio's MAC address).

4. Connect to the radio by tapping on it.
5. Select the "Source" tab in the upper left corner to select the radio's playback source.
6. Select the "Browse" tab in the upper right corner to browse through content for the selected source.
7. Playback and tuning can be controlled using the controls in the app.





Note:

- These instructions and screenshots are based on the Android version of the UNDOK app for smartphones. If you are using a different type of device, the screen layout and / or icons may be slightly different.

Configuring the radio's settings using the UNDOK app

Follow these steps to configure the radio's settings using the UNDOK app:

1. Start the UNDOK app on your smart device and connect to the radio as previously described.
2. Tap the three dots icon in the upper right corner of the screen and select "Sangean WFT-4... Settings".
3. The radio's settings that can be configured using the UNDOK app now appear on the smart device's screen. To configure any setting, simply tap it and set it to the desired value.



- Note:** These instructions and screenshots are based on the Android version of the UNDOK app for smartphones. If you are using a different type of device, the screen layout and / or icons may be slightly different.

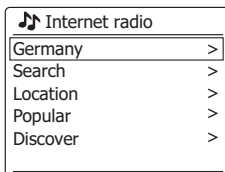
5. Listening to Internet radio

The WFT-4 is capable of receiving tens of thousands of internet stations from around the world when the radio is connected to the internet via Wi-Fi or an Ethernet connection.

To listen to Internet radio, follow these steps:

1. Turn on the radio using the **Power** button.
2. Select the Internet radio mode using the **Mode button** and **Tuning knob** or using the radio's Main menu.

3. If the Internet radio mode is being used for the first time, the Internet station selection menu is displayed on the radio's display.



Select one of the options to tune into an Internet radio station:

- **[Your country]:** Select this option to tune into Internet radio stations from your country ("Germany" in the image above). After selecting this option, you can choose to tune into local Internet radio stations or popular radio stations from your country, or to search for Internet radio stations from your country based on a genre or a city.

- **[Search]:** Select this option to search for an Internet radio station by name. After selecting this option, use the **Tuning knob** to input the search keyword.

- **[Location]:** Select this option to find and tune into Internet radio stations by location. Locations from all around the world can be selected in this submenu.

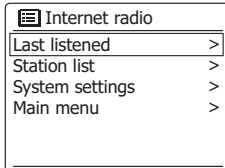
- **[Popular]:** Select this option to tune into popular Internet radio stations from around the world.

- **[Discover]:** Select this option to filter Internet radio stations by origin, genre and language.

4. After selecting a radio station using one of the options described above, the radio will tune into and start playing the selected station.

The Internet radio menu

You can open the Internet radio menu by pressing the **Menu** button while the radio is in the Internet radio mode.



The Internet radio menu offers the following options:

- **[Last listened]:** Select this option to view a list of the last Internet radio stations and Podcasts you've tuned into previously.

- **[Station list]:** Select this option to go to the internet station selection menu described in the previous section.

- **[System settings]:** Select this option to go to the System settings menu and configure the radio (refer to chapter 13 "Using the System settings menu" for details).

- **[Main menu]:** Select this option to go back to the Main menu, where you can switch to any of the radio's modes or set the radio's other functions or go to the

System settings menu (refer to chapter 14 “Using the Main menu” for details).

Storing Internet radio stations as presets

Your WFT-4 can store up to 5 Internet radio stations or Podcasts as presets. (There are 10 presets on the remote control.) Presets can be recalled quickly without having to go through most of the radio’s menus.

Follow these steps to store an Internet radio station as a preset station:

1. Turn on the radio, select the Internet radio mode and tune into an Internet radio station as previously described.
2. Press and hold one of the Preset buttons (1-5).
3. After storing a preset station, radio’s display will show the message “Preset stored” to indicate the preset has been successfully stored under the chosen preset number.
4. Repeat this procedure as needed.
5. Alternatively, to store the currently playing radio station as a preset, press and hold the required Preset button (1-10) on the remote control until the display shows “Preset stored”. The station will be stored under the chosen preset button. Repeat this procedure as needed for the remaining presets.

Recalling Internet radio station presets

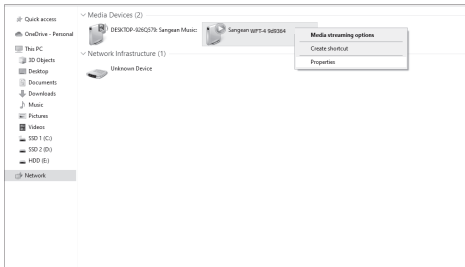
Simply press and release one of the radio’s Preset buttons (1-5) in the Internet radio mode to recall the corresponding preset.

Alternatively, momentarily press the required Preset button (1-10) on the remote control. Your radio will then tune to the station stored in the selected preset memory. The preset used will be shown at the bottom of the display screen.

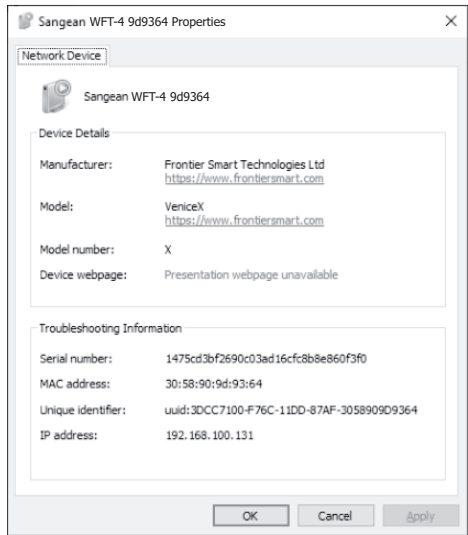
Customizing your preset list using a web browser

The preset list can also be customized from an external device with an internet browser (such as a PC or a smartphone). Follow these steps to customize your preset list from a Windows PC:

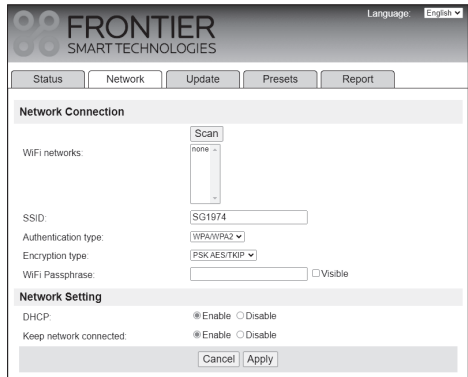
1. Make sure the PC and the radio are connected to the same Wi-Fi network.
2. On the Windows PC, open **[Explorer]**, click on **[Network]** and then right click the WFT-4 and select **[Properties]**, as shown in the image below.



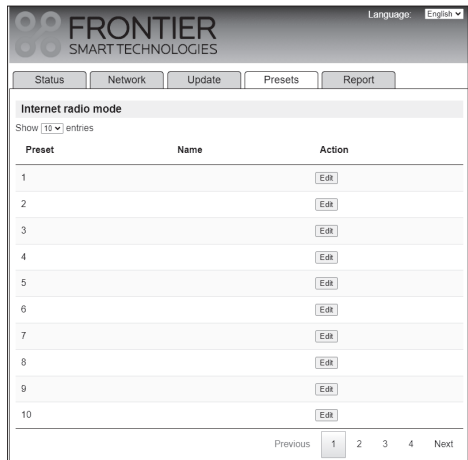
3. After clicking **[Properties]**, copy the radio’s IP address (for example, 192.168.100.131 in the image below).



4. Open your internet browser, enter the IP address you have copied as the URL. The following screen will be displayed:

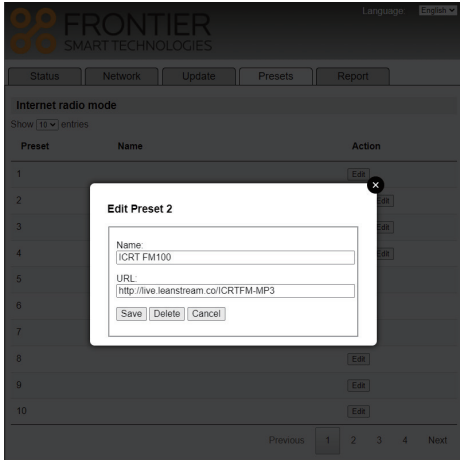


5. Click on the **[Presets]** tab, a screen with the radio’s presets will now be displayed:

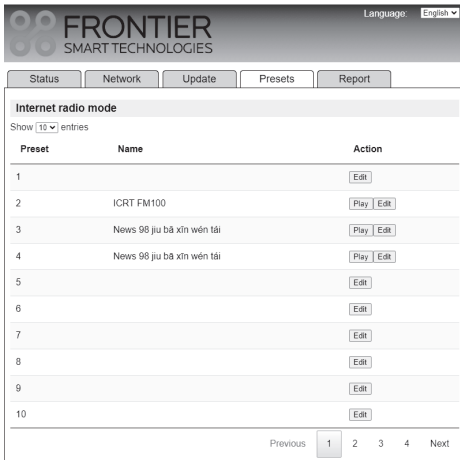


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6. If you know the URL of an internet station, you can directly edit the station list on this page by pressing the **[Edit]** button for any of the presets. The following screen is displayed:



7. After entering the name and the URL of the internet radio station, press the **[Save]** button to save the internet station to the preset list. The radio will then return to the **[Presets]** tab and show the updated station list.



8. To delete a preset, click that preset's **[Edit]** button and then select **[Delete]** on the next screen.

Showing Internet radio information on the display

When listening to an Internet radio station, press and release the **Info** button to cycle through the following information on the radio's display:

- Artist & track name
- Slogan & Description of station
- Language & Location
- Bit rate & Codec & Sampling rate
- Playback buffer

- Today's date

6. Listening to Podcasts

The WFT-4 is also capable of tuning into many different Podcasts from around the world.

To listen to Podcasts, follow these steps:

1. Turn on the radio using the **Power** button.
2. Select the Podcasts mode using the **Mode button** and **Tuning knob** or using the radio's Main menu.

3. If the Podcasts mode is being used for the first time, the Podcast selection menu is displayed on the radio's display.



Select one of the options to tune into a Podcast:

- **[Your country]:** Select this option to tune into Podcasts from your country ("Germany" in the image above). After selecting this option, you can choose to tune into local Podcasts, popular Podcasts or search for Podcasts from your country by genre.

- **[A hot topic]:** Select this option to tune into Podcasts related to a topic that is currently popular ("COVID-19" in the image above). This topic will change from time to time, depending on what's hot at the moment and your time zone / region.

- **[Search]:** Select this option to search for a Podcast by name. After selecting this option, use the **Tuning knob** to input the search keyword.

- **[Location]:** Select this option to find and tune into Podcasts by location. Locations from all around the world can be selected in this submenu.

- **[Discover]:** Select this option to filter Podcasts by origin, genre and language.

4. After selecting a Podcast using one of the options described above, the radio will tune into and start playing the selected Podcast.

The Podcast menu

The Podcast menu is identical to the Internet radio menu described previously, but instead of the option **[Station list]** it has the option **[Podcast list]**, which takes you back to the Podcast selection menu.

Storing and recalling preset Podcasts

As mentioned previously, both Internet radio stations and Podcasts can be saved and recalled in the same manner. Refer to the sections "Storing Internet radio stations as presets" and "Recalling Internet radio station presets" in the previous chapter for details.

Showing Podcast information on the display

When listening to a Podcast, press and release the **Info** button to cycle through the following information on the radio's display:

GB

- Track name
- Track description
- Artist
- Album
- Bit rate & Codec & Sampling rate
- Playback buffer
- Today's date

7. Listening to streaming services

The WFT-4 can also be used to listen to audio from the streaming services Spotify, Amazon Music and Deezer. If you have an account for any of these services, follow the instructions below to connect the radio to the audio streaming service of your choice.

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Listening to Spotify

The Spotify Software is subject to third party licenses found here: <https://www.spotify.com/connect/third-party-licenses>



Use your phone, tablet or computer as a remote control for Spotify. Go to [spotify.com/connect](https://www.spotify.com/connect) to learn how.

Listening to Amazon Music

If you want to play Amazon Music audio through the radio, follow these steps:

1. Turn on the radio using the Power button.
2. Select the Amazon Music mode using the **Mode button** and **Tuning knob** or using the radio's Main menu.
3. Use the UNDOK app (refer to chapter 4 "Controlling the radio using the UNDOK app" for more information) to connect to and log in to Amazon Music.
4. Control playback using the control app or the buttons on the radio.

More information about Amazon Music can be found at <https://music.amazon.com>.

Listening to Deezer

If you want to play Deezer music through the radio, follow these steps:

1. Turn on the radio using the Power button.
2. Select the Deezer mode using the **Mode button** and **Tuning knob** or using the radio's Main menu.
3. Login to Deezer by entering your username and password using the **Tuning knob**.
4. Use the radio's menu and buttons to control playback.

More information about Deezer can be found at <https://www.deezer.com/>.

8. Listening to DAB radio

Tuning into DAB stations

To tune into DAB radio stations, follow these steps:

1. Turn on the radio using the Power button.
2. Select the DAB radio mode using the **Mode button** and **Tuning knob** or using the radio's Main menu.
3. If this is the first time the DAB radio mode is being used, the radio will automatically perform a full scan in order to find all available DAB radio stations. During the scanning process, as new stations are detected the station counter will increase and the stations will be added to the list which is stored in the radio. The bar graph indicates the progress of the scan.
4. When scanning is completed, the radio will list all stations that were found. Use the **Tuning knob** to scroll through the list of stations and press the **Tuning knob** to tune into a station.

Note: Before selecting the DAB radio mode and performing a scan, make sure the DAB / FM antenna at the back of the radio is fully extended and the radio's reception is good.

The DAB radio menu

You can open the DAB radio menu by pressing the **Menu** button while the radio is in the DAB radio mode. Use the **Tuning knob** to scroll through the options in the menu. Press the **Tuning knob** to confirm the setting.

The DAB radio menu offers the following options:

- **[Station list]:** Select this option display all DAB radio stations that were found and tune into one of the stations.
- **[Scan]:** Select this option to perform a full scan and store all DAB radio stations that were found in the station list.
- **[Manual tune]:** Select this option to manually tune into a DAB channel / frequency.
- **[Prune invalid]:** Select this option to delete all unavailable stations from the station list.
- **[DRC]:** Dynamic Range Control (also known as DRC) can make quieter sounds easier to hear when your radio is used in a noisy environment by reducing the dynamic range of the audio signal.

Select this option and then use the **Tuning knob** to highlight the required DRC setting:

[DRC high]: DRC is set as sent by broadcaster.

[DRC low]: DRC level is set to 1/2 that sent by broadcaster.

[DRC off]: DRC is switched off. Broadcast DRC will be ignored. This is the default setting.

Press the **Tuning knob** to confirm the setting.

- **[Station order]:** Select this option and subsequently select **[Alphanumeric]** to sort the station list alphanumerically or select **[Ensemble]** to sort the station list by DAB multiplex.
- **[System settings]:** Select this option to go to the System settings menu and configure the radio (refer to chapter 13 "Using the System settings menu" for details).
- **[Main menu]:** Select this option to go back to the Main menu, where you can switch to any of the radio's

modes or set the radio's other functions, or go to the System settings menu (refer to chapter 14 "Using the Main menu" for details).

Showing DAB information on the display

When listening to a DAB radio broadcast, press and release the **Info** button to cycle through the following information on the radio's display:

- Text
- Program type
- Multiplex name & Frequency
- Signal error & Strength
- Bit rate & Codec & Audio type
- Today's date

If the broadcast being received is in stereo, then the stereo speaker icon will be shown at the bottom of the radio's display. If the currently tuned station has been stored as a preset, then the preset number will also be shown.

If a DAB broadcast provides a slideshow image, this may be viewed full-screen by pressing the **Tuning knob**. To exit the slideshow image, press the **Tuning knob** again.

9. Listening to FM radio

Tuning into FM stations

To tune into FM radio stations, follow these steps:

1. Turn on the radio using the Power button.
2. Select the FM radio mode using the **Mode** button and **Tuning knob** or using the radio's Main menu.
3. Rotate the **Tuning knob** clockwise or anti-clockwise and then press the **Tuning knob** to automatically tune into an FM station with a higher or lower frequency respectively. (Alternatively, press and hold the **Tuning up** or **Tuning down** button on the remote control for 2 seconds then release.) Your radio will stop scanning when it finds a station of sufficient strength. The display will show the frequency of the signal which has been found and at the bottom of the display a signal strength icon will be shown to indicate the strength of the signal received. If RDS information is available, the RDS icon will also be shown at the bottom of the radio's display and after a few seconds the display will show the radio station name.
4. Rotate the **Tuning knob** (alternatively, press the **Tuning up** or **Tuning down** button on the remote control) to fine-tune the frequency with steps of 0.05 MHz if needed.
5. Repeat the steps 3 and 4 to tune into other radio stations.

Note: Before selecting the FM radio mode and tuning into stations, make sure the DAB / FM antenna at the back of the radio is fully extended and the radio's reception is good.

The FM radio menu

You can open the FM radio menu by pressing the **Menu** button while the radio is in the FM radio mode.

Use the **Tuning knob** to scroll through the options in the menu. Press the **Tuning knob** to confirm the setting.

The FM radio menu offers the following options:

- **[Scan setting]:** Select this option to configure if the radio should only look for strong signals or all signals when using the automatic tuning feature.
- **[Audio setting]:** Select this option to configure if the radio should only play FM stations in mono. Forcing the radio to play FM broadcasts in mono can help reduce noise when listening to FM broadcasts.
- **[System settings]:** Select this option to go to the System settings menu and configure the radio (refer to chapter 13 "Using the System settings menu" for details).
- **[Main menu]:** Select this option to go back to the Main menu, where you can switch to any of the radio's modes or set the radio's other functions, or go to the System settings menu (refer to chapter 14 "Using the Main menu" for details).

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Showing FM information on the display

When listening to a FM radio station that is also broadcasting RDS data (the RDS icon is shown on the radio's display), press and release the **Info** button to cycle through the following information on the radio's display:

- Text message
- Program type
- Frequency
- Today's date

If no RDS information is available, the radio will be unable to display the text message and program type. If the stereo speaker icon is shown at the bottom of the radio's display, this indicates that the radio is receiving a stereo broadcast.

Presetting stations in DAB and FM modes

Your WFT-4 can store up to 5 DAB or FM radio stations as presets. (There are 10 presets on the remote control.) They are used in the same way for each operating mode.

1. Turn on the radio, then select the DAB or FM radio mode and Tune to the required radio station as previously described.
2. Press and hold one of the radio's **Preset** buttons (1-5) until the display shows "Preset stored" to store the station under the corresponding Preset number. If another station has already been stored under the chosen preset number, that station will be overwritten.
3. Alternatively, to store the currently playing radio station as a preset, press and hold the required Preset button (1-10) on the remote control until the display shows "Preset stored". The station will be stored under the chosen preset button. Repeat this procedure as needed for the remaining presets.

Recalling a preset in DAB and FM modes

1. Turn on the radio and then select the DAB or FM radio mode using the **Mode** button and **Tuning knob** or using the radio's Main menu.

- Simply press and release one of the radio's **Preset** buttons (1-5) in the DAB or FM radio mode to recall the corresponding preset.

Alternatively, momentarily press the required **Preset** button (1-10) on the remote control. Your radio will then tune to the station stored in the selected preset memory. The preset used will be shown at the bottom of the display screen.

10. Listening to Bluetooth audio

In order to stream Bluetooth music to your radio, you need to pair your Bluetooth device with the WFT-4. Pairing creates a 'bond' so two devices can recognize each other.

Pairing your Bluetooth device for the first time

- Turn on the radio using the Power button.
- Select the Bluetooth mode using the **Mode button** and **Tuning knob** or using the radio's Main menu. After selecting the Bluetooth mode, the radio's display will show "No connect". The Bluetooth icon in the bottom bar of the radio's display will blink.
- Activate Bluetooth on your Bluetooth device (refer to the manual of the Bluetooth device if you are unsure about how to activate Bluetooth).
- Go to the Bluetooth list on your Bluetooth device and select the device named "WFT-4" (if you have changed the name of the radio in the radio's System settings menu, search for the name you have given the radio instead).

Note: On some Bluetooth devices with Bluetooth version 2.1 or earlier, you might be requested to enter a passcode. If this is the case, enter the passcode "0000".

- After the devices have paired and connected, the radio's display will show the name of the connected Bluetooth device and the playback status. The Bluetooth icon in the bottom bar of the radio's display will stop blinking. You can now play music on your Bluetooth device.

Notes:

- If 2 Bluetooth devices are pairing for the first time, both must search for your radio, it will show its availability on both devices. However, if one device links with this unit first, then the other Bluetooth device won't find it on the list.
- If you take your Bluetooth device out of range, the connection between your device and the radio will be temporarily disconnected. Your radio will automatically reconnect if the Bluetooth device is brought back into range. Be aware that during the period of disconnection, no other Bluetooth device can pair or link with your radio.
- If "WFT-4" shows up in your Bluetooth device list, but your Bluetooth device cannot connect with it, please delete the item from your list and pair the Bluetooth device with the radio again following the steps described previously.
- The effective operation range between the radio and the paired Bluetooth device is approximately 10 meters (30 feet). Any obstacle between the system and the device can reduce the operational range.
- Bluetooth connectivity performance may vary

depending on the connected Bluetooth device. Please refer to the Bluetooth capabilities of your device before connecting it to your radio. Not all features may be supported, depending on the Bluetooth device used.

- With some mobile phones, making / receiving calls, text messages, e-mails or any other activities unrelated to audio streaming may mute the Bluetooth audio streaming or even temporarily disconnect from your device. Such behavior is a function of the Bluetooth device and does not indicate a problem with your WFT-4.

Audio playback in the Bluetooth mode

When you have successfully connected your radio with the chosen Bluetooth device you can start to play your music using the controls on the radio or your connected Bluetooth device.

- After connecting a Bluetooth device, the playback status will be displayed at the bottom of the radio's display.
- The volume can be controlled on the external Bluetooth device.

Playback can be controlled both on the radio and on the Bluetooth device as well. When using the radio's controls:

- Press the **Play / Pause** button to start audio playback or to pause / resume playback.
- Press the **Next** or **Previous** button to go to the next or previous track.
- Press and hold the **Next** or **Previous** button to fast forward or rewind within a track and release the button when the desired point is reached.

Note: Not all player applications or devices may respond to all of these controls.

Audio playback from a previously-paired Bluetooth device

The WFT-4 can memorize up to 8 sets of paired Bluetooth devices, when the memory exceed this amount, the earliest device with which the radio was paired will be overwritten in the radio's memory.

If your Bluetooth device has paired with the WFT-4 previously, the radio will still remember your Bluetooth device and attempt to reconnect with the device that was last connected. If the last connected Bluetooth device is not available, the radio will try to connect to the second last Bluetooth device.

The Bluetooth menu

You can open the Bluetooth menu by pressing the **Menu button** while the radio is in the Bluetooth mode.

The Bluetooth menu offers the following options:

- [Forget devices]:** Select this option to clear the list of devices the radio has previously paired with. If the radio is currently paired and connected to a device, the connection will be lost.
- [System settings]:** Select this option to go to the System settings menu and configure the radio (refer to chapter 13 "Using the System settings menu" for details).

- **[Main menu]:** Select this option to go back to the Main menu, where you can switch to any of the radio's modes or set the radio's other functions, or go to the System settings menu (refer to chapter 14 "Using the Main menu" for details).

Disconnecting your Bluetooth device

To disconnect your Bluetooth device, either turn off Bluetooth on the Bluetooth device, press the **Bluetooth pair** button to switch over to the pairing mode (the Bluetooth icon in the bottom bar of the radio's display will blink), or switch to any mode other than Bluetooth mode.

Showing Bluetooth information on the display

When listening to Bluetooth audio, press and release the **Info** button to cycle through the following information on the radio's display:

- Artist
- Album
- Title

11. Listening to audio using the Aux in socket

You can listen to the sound of an external device (such as an iPod or MP3 player) through the WFT-4. To do this, follow these steps:

1. Connect an external device to the radio's Aux in 1 or Aux in 2 socket.
2. Make sure both the radio and the external device are turned on.
3. Select the AUX In 1 or AUX In 2 mode using the **Mode button** and **Tuning knob** or using the radio's Main menu.
4. Playback and volume can be controlled on the external device.

12. Listening to audio using the SPDIF in socket

1. Connect a device's SPDIF output to the WFT-4's SPDIF IN socket using an optical cable (not included).
2. Make sure both the radio and the external device are turned on.
3. Select the OPTICAL In mode using the **Mode button** and **Tuning knob** or using the radio's Main menu.
4. Playback and volume can be controlled on the external device.

13. Using the System settings menu

The System settings menu can be used to configure the WFT-4. Follow these steps to access the System settings menu:

1. Turn on the radio using the Power button.
2. Press the **Menu button** to open the menu for the current mode.
3. Rotate the **Tuning knob** to select **[System settings]**

and press the **Tuning knob** to open the menu.

The System settings menu offers the following options:

- **[Backlight]:** Select this option and then select **[Timeout]** to configure the time after which the backlight turns off, select **[On level]** to adjust the display's brightness level when the radio is turned on or select **[Dim level]** to adjust the display's brightness when the radio is in standby mode.
- **[Streaming audio quality]:** Select this option to configure the streaming audio quality.
- **[Network]:** Select this option to configure the radio's network connection, view and select available network profiles, run PBC setup or view the network settings.
- **[Time / Date]:** Select this option to set the time and date manually, to set the source for automatically updating the time and date and set the time format.
- **[Inactive Standby]:** Select this option to configure the time after which the radio automatically switches to the standby mode when not being used. **By default this period is set to 2 hours but you can change it if desired.** Setting Inactive Standby to **[Off]** will disable this feature.
- **[Language]:** Select this option to configure the language in which the radio's menus are shown.
- **[Factory reset]:** Select this option to reset the radio to the default factory settings. After confirmation, all user settings and preset stations will be erased.
- **[Software update]:** Select this option to configure whether the radio should periodically check for available software updates or check for currently available software updates.
- **[Setup wizard]:** Select this option to perform the Setup wizard again, either right away or at the next startup. Refer to chapter 3 "Getting started" for more information on using the Setup wizard.
- **[Info]:** Select this option to view the radio's Spotify version, Radio ID and Friendly Name.

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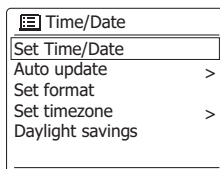
Manually setting the time and date

Setting the radio's date and time works slightly different from configuring most of the other radio's options and features. If you would be unable to automatically update the time and date using the DAB, FM or network, follow these steps to manually set the time and date:

1. Open the System settings menu using the three steps previously described.
2. Select **[Time / Date]**.

The Time / Date submenu offers the following options:

- **[Set Time / Date]:** Select this option to manually configure the time and date.



• **[Auto update]:** Select this option to select a source for automatically updating the time and date.

• **[Set format]:** Select this option to select the 12 or 24 hour format.

If the **[Update from Network]** is selected under **[Auto update]**, the Time / Date submenu will also show the following two options:

• **[Set timezone]:** Select this option to configure the timezone.

• **[Daylight savings]:** Select this option to enable or disable Daylight Savings Time (DST).

3. Select **[Set Time / Date]** and press the **Tuning knob** to manually set the radio's time and date.

4. The radio's display will show the date and time and the day digits are blinking on the display.

5. Rotate the **Tuning knob** to select the current day and press the **Tuning knob** to confirm.

6. Next, the month digits will blink on the display.

7. Rotate the **Tuning knob** to select the current month and press the **Tuning knob** to confirm.

8. Next, the year digits will blink on the display.

9. Rotate the **Tuning knob** to select the current year and press the **Tuning knob** to confirm.

10. Next, the hour digits will blink on the display.

11. Rotate the **Tuning knob** to select the current hour and press the **Tuning knob** to confirm.

12. Next, the minute digits will blink on the display.

13. Rotate the **Tuning knob** to select the current minutes and press the **Tuning knob** to confirm. If the radio has been set to use a 12 hour format, there will be an option here for setting AM or PM for the clock time. Rotate the **Tuning knob** to select AM or PM. Press the **Tuning knob** to confirm the setting.

14. Manually setting the time is now completed and the radio will return to the Time / Date submenu.

14. Using the Main menu

The Main menu can be used to select the radio's mode or to set the following functions. Follow these steps to access the Main menu:

1. Turn on the radio using the **Power button**.

2. Press the **Menu button** to open the menu for the current mode.

3. Rotate the **Tuning knob** to select **[Main menu]** and press the **Tuning knob** to open the menu.

The Main menu offers the following options:

• **[FM]:** Select this option to switch to the FM radio mode.

• **[DAB]:** Select this option to switch to the DAB radio mode.

• **[Bluetooth]:** Select this option to switch to the Bluetooth mode.

• **[Spotify]:** Select this option to switch to the Spotify mode.

• **[Internet radio]:** Select this option to switch to the Internet radio mode.

• **[Podcasts]:** Select this option to switch to the Podcast mode.

• **[Amazon Music]:** Select this option to switch to the Amazon Music mode.

• **[Deezer]:** Select this option to switch to the Deezer mode.

• **[AUX in 1]:** Select this option to switch to the Audio IN 1 mode.

• **[AUX in 2]:** Select this option to switch to the Audio IN 2 mode.

• **[OPTICAL in]:** Select this option to switch to the OPTICAL in mode.

• **[Bluetooth transmitter]:** Select this option to switch to the Bluetooth transmitter menu. (Please refer to the later sections "Pairing the WFT-4 Transmitter with your Bluetooth device" and "The Bluetooth transmitter menu" for details).

• **[Sleep]:** Select this option to set the radio's sleep timer.


• **[Alarms]:** Select this option to set the radio's alarms.

• **[Scheduled Playing]:** Select this option to set the radio to play during a specified period.

• **[System settings]:** Select this option to go to the System settings menu (refer to chapter 13 "Using the System settings menu" for more information on this menu).

Pairing the WFT-4 Transmitter with your Bluetooth device




1. Please follow the instruction of your Bluetooth receiving device to bring it into pairing mode.

2. The first time you use the transmitter, when in any mode except Bluetooth mode, press the **Bluetooth transmitter's Menu button**  on the remote control or using the **[Bluetooth transmitter]** option in the Main menu to enter the Bluetooth transmitter menu setting.

3. Rotate the **Tuning knob** to select the **[Scan]** and then press the **Tuning knob** to confirm. Now the transmitter starts scanning for available devices.

4. Rotate the **Tuning knob** to select your Bluetooth device and then press the **Tuning knob** to confirm. The display will show "Connect or Remove this device?". Selecting "Remove" will remove the device. Selecting "Connect" will enter the pairing mode.


5. Rotate the **Tuning knob** to select "Connect" and then press the **Tuning knob** to enter the pairing mode. The blue LED light around **Bluetooth transmitter button**

 and the  icon in the bottom bar of the radio's display will blink. Once connected, the blue LED light and the  icon will stop blinking.


Notes:

• The effective operation range between the radio and your Bluetooth device is approximately 10 meters (30

feet). Any obstacle between the system and the device can reduce the operational range.

- The Bluetooth transmitter can remember previous paired devices. Pressing the **Bluetooth transmitter button**  will reconnect to the last used Bluetooth device. If the transmitter cannot pair with your Bluetooth device, please clear the pairing history. Then restart the transmitter to pair again. You may need to try this a few times if it does not work on your first attempt.

The Bluetooth transmitter menu

In any mode except Bluetooth mode, you can open the Bluetooth transmitter menu by pressing the **Bluetooth transmitter's Menu button**  on the remote control or using the **[Bluetooth transmitter]** option in the main menu.

When in the Bluetooth transmitter menu, rotate the **Tuning knob** to scroll through the options in the menu. Press the **Tuning knob** to confirm the setting.

The Bluetooth transmitter menu offers the following options:

- **[Enable]:** Select this option to enable (On) or disable (Off) the Bluetooth transmitter function.
- **[Audio output]:** After selecting this option, you can choose whether the audio output is via Bluetooth only or all connected audio devices.
- **[Audio codec]:** All supported audio codecs will be listed by selecting this option. Choose the corresponding codec to your external device.
- **[Scan]:** Select this option to perform a full scan for available devices.
- **[Available devices]:** Select this option to display available devices.
- **[Current connected]:** Select this option to display currently connected device. Then select this device to disconnect from the currently connected Bluetooth device.
- **[Forget devices]:** Select this option to clear the list of devices the WFT-4 has previously paired with. If the WFT-4 is currently paired and connected to a device, the connection will be lost.

Setting the sleep timer

The sleep timer allows you to automatically turn off the radio after a preset time has elapsed. It can be set from 15 to 60 minutes using by pressing and holding the **Power / Sleep** button on the radio and then using the **Tuning knob** to select the desired sleep time or by using the **[Sleep]** option from the Main menu.

Follow the steps below to set the sleep timer using the radio's Main menu:

1. Open the Main menu using the three steps previously described.
2. Select **[Sleep]** and press the **Tuning knob**.
3. Rotate the **Tuning knob** to select the desired sleep

time.

4. Press the **Tuning knob** or wait several seconds to enable the sleep timer with the selected time.
5. After the sleep time has elapsed, the radio will automatically switch to the standby mode. When a sleep timer is active, a sleep timer icon and the remaining sleep time will be shown in the bottom bar of the radio's display.
6. To cancel the sleep time before the preset time has elapsed and to turn off the radio, press the **Power** button to turn the unit off manually. To cancel the sleep timer and leave the radio playing, go back into the sleep timer settings (steps 1 to 3 above) and select the "Sleep OFF" option in step 3.

Setting the alarms

The radio's alarms can be set by pressing the **Alarm** button on the remote control while the radio is powered on or using the **[Alarms]** option in the Main menu. Follow these steps to set the radio's alarms:

1. Turn on the radio using the **Power** button.
2. Press the **Alarm** button on the remote control or open the Main menu, select **[Alarms]** and press the **Tuning knob**. Both alarms and their settings will be shown on the display. Select the alarm that you want to set.
3. Rotate the **Tuning knob** to select the desired alarm and press the **Tuning knob** to confirm.

The submenu for configuring an alarm offers the following options:

- **[Enable]:** Select this option to configure the alarm frequency, the available settings here are **[Off]**, **[Daily]**, **[Once]**, **[Weekends]** and **[Weekdays]**.
- **[Time]:** Select this option to set the alarm time. If the previous option is set to **[Once]**, you need to set the date and time here. This can be done in the same way as setting the date and time in the previous chapter.
- **[Mode]:** Select this option to set the mode that is used for the alarm.
- **[Preset]:** Select this option to select a preset or the last listened station as the alarm source.
- **[Save]:** Select this option to save the alarm settings.

Use the **Tuning knob** to scroll through the options in the menu. Press the **Tuning knob** to confirm the setting.

Notes:

- (1) When an alarm sounds, press the **Power** button to turn off the alarm and switch the radio back to the standby mode. If the radio cannot connect to the specified radio station, the buzzer alarm will be used instead.
- (2) Alarms will stop sounding after 60 minutes have elapsed since the start of the alarm.
- (3) Alarms can be quickly enabled and disabled by pressing and releasing the **Alarm** button on the remote control in the standby mode.

Setting the scheduled playing

While the radio is powered on, press the **Scheduled playing** button on the remote control or using the **[Scheduled Playing]** option in the Main menu to enter the scheduled playing menu setting.

After selecting this option, a submenu containing the following items appears:

- **[Enable]:** Select this option to configure the frequency of scheduled playing, the available settings here are **[Off]**, **[Daily]**, **[Once]**, **[Weekends]** and **[Weekdays]**.
- **[Time]:** Select this option to set a start time for the scheduled playing. If the previous option is set to **[Once]**, you need to set the date and time here.
- **[End time]:** Select this option to set the end time of the scheduled playing.
- **[Mode]:** Select this option to set the mode that is used for the scheduled playing.
- **[Preset]:** Select this option to select a preset or the last listened station as the source.
- **[Save]:** Select this option to save the settings.

Use the **Tuning knob** to scroll through the options in the menu. Press the **Tuning knob** to confirm the setting.

Note:

When enabled, the Scheduled Playing feature will only be activated if the radio is turned on or switched to the Standby mode. It will not be activated if the radio is turned off.

15. Line out socket / Optical and Coaxial SPDIF output socket / Mute function

Line out socket

A pair of Line out RCA jack located on the rear of your radio is provided for connecting the audio signal to an external amplifier.

Optical and Coaxial S / PDIF output socket

Two types of digital output sockets providing an S / PDIF signal are provided on the rear of your radio for connection to an amplifier, mini-disc or other equipment with a digital optical input.

Mute function

Press the **Mute button** to mute / unmute the audio output.


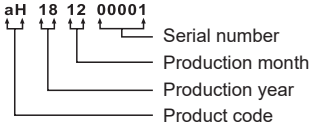
16. Specifications

Power requirements	
Mains power supply	AC 100-240V, 50/60 Hz / 10W
Remote control battery	2 x AAA
Frequency coverage	
FM	87.5-108 MHz
DAB	174.928-239.200 MHz
Connectivity	
Wired ethernet	10 / 100 Mbps / sec via RJ-45 socket
WiFi	802.11 b, g, n or a supported with WEP and WPA / WPA2 encryption. Compatible with 2.4GHz and 5GHz WiFi bands. The frequency and maximum transmitted power: WiFi: 2412MHz ~ 2472MHz, EIRP = 12.38dBm 5180MHz ~ 5240MHz & 5745MHz ~ 5825MHz, EIRP = 14.42dBm Operations in the 5.15-5.35 GHz band are restricted to indoor usage only.
Bluetooth	
Bluetooth version	5.0
Supported Bluetooth profiles	A2DP, AVRCP
Supported Bluetooth codecs	SBC and AAC
Transmitting power	Power Class 2
Bluetooth range	approx. 10m (30feet)
The frequency and maximum transmitted power	2402MHz ~ 2480MHz: 1.21dBm (EDR), 2.39dBm (BLE)
Bluetooth Transmitter	
Bluetooth version	5.2
Supported Bluetooth profiles	A2DP
Supported Bluetooth codecs	SBC / APTX / APTX-adaptive
Transmitting power	Power Class 1
Bluetooth range	approx. 10m (30feet)


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The frequency and maximum transmitted power	2402MHz ~ 2480MHz: 8.81dBm (EDR), 9.84dBm (BLE)
Circuit features	
Optical SPIDF output socket	Toslink
Coaxial SPIDF output socket	RCA
Aux in 1 socket	3.5mm diameter, stereo
Aux in 2 socket	RCA, stereo
Line out socket	3.5mm diameter, stereo
Digital optical output socket	Toslink
Antenna system	Wi-Fi antenna
	Bluetooth transmitter antenna
	DAB telescopic antenna
	FM telescopic antenna
Operating temperature range	0°C to +40°C
Information on Power Consumption	
Power standby	The device has a standby mode with a power consumption of less than 0.9W.
Bluetooth mode	In Bluetooth mode, when there is no signal output, the idle power consumption is 2.3W after 15 minutes.
AUX mode	In AUX mode, when there is no signal output, the idle power consumption is 2.1W after 15 minutes.

※ The barcode label on the product is defined as below:

	 <p>Serial number Production month Production year Product code</p>
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Sangean reserves the right to amend the specifications without notice.

 **RECYCLING** This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.