

Instruction Manual

DIGITRADIO 220

DAB/DAB+ and FM radio



TechniSat

Important Safety Instructions



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

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

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

1. Do not place unit near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
2. Do not block any ventilation openings of unit.
3. The unit shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the unit.
4. Do not place any heavy loads onto the unit, and do not step on it, the load may fall and cause serious injury to the unit.
5. Please read Rating Labels at the back of unit for power input and other safety information.
6. This unit is intended to be used only with the power supply provided.
7. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at any point where they exit from the unit.
8. Never unplug your unit by pulling on the power cord. Always grasp the plug firmly and pull straight out from the outlet.
9. Repair or replace all electric service cords that have become frayed or otherwise damaged immediately. Do not use a cord that shows cracks or abrasion damage along its length, the plug, or the connector end.
10. To prevent fire or shock hazard, do not use this plug with an extension cord or other outlet unless the blades can be fully inserted to prevent blade exposure.
11. To prevent fire or shock hazard, do not expose unit to rain or moisture.
12. During lightning or raining days, unplug the unit for additional protection during thunderstorms or when the unit is not used for prolonged periods. This will prevent damage to the unit from lightning and power surges.
13. Do not attempt to carry out any service work yourself. By opening or removing the cabinet, you may be exposed to dangerous voltage or other hazards. Any service work should be carried out by qualified technicians.
14. The normal function of the product may be disturbed by strong Electro-Magnetic Interference. If so, simply reset the product to resume normal operation by following the

instruction manual. In case the function could not resume, please use the product in other location.

15. The means of disconnecting this apparatus from the mains supply is plug of adapter. The disconnect device shall remain readily operable.
16. In the interests of safety and to avoid unnecessary energy consumption, never leave the unit switched on while unattended for long periods of time, e.g. overnight, while on holiday or while out of the house. Switch it off and disconnect the mains plug from the mains socket.
17. Danger of explosion if battery is incorrectly replaced. Replace only with the type which produced by the manufacturer.
18. The battery is only intended for use with the power supply provided with the product.
19. Do not attempt to charge the battery in temperatures outside the range of 0°C~40°C.
20. Keep battery out of the reach of children and pets.
21. If the battery begins to leak, do not allow the liquid to come in contact with your skin or eyes. If contact has been made, wash the affected area with plenty of water and seek medical advice immediately.
22. Do not expose the product or battery to excessive heat, including direct sunlight or fire and storage or use inside cars in hot weather, where it can be exposed to temperatures in excess of 60°C. Doing so may cause the battery and power supply to generate heat, rupture, or ignite. Using the product in this manner also may result in a loss of performance and a shortened life expectancy.
23. If the battery is damaged and ignites, do not use water to extinguish flame. Instead, use a functioning fire extinguisher.
24. Do not step on, throw, or drop battery or the power supply or expose them to a strong shock. Do not pierce, crush, dent, or deform the batteries or power supply in any way. If either becomes deformed, properly dispose of it.
25. Do not short-circuit battery. Avoid storing them around metal objects such as keys, pocket change, paper clips and jewelry.
26. Do not dismantle, open or shred the battery.
27. Do not attempt to use the battery to power other electronics. Doing so may result in permanent damage to your system and/or personal injury.
28. Please dispose of a used or damaged battery promptly and properly, following all local regulations. Do not incinerate.

Contents

Important Safety Instructions	2
Contents	4
Getting Started	5
Unit Front View	6
Unit Back View	7
DAB Mode	8
Full Scan	8
Selecting another Station	8
Secondary Service	8
Viewing Station Information	9
Storing Preset Stations	9
Recalling Preset Stations	9
FM Mode	10
Selecting FM Mode	10
Scan Setting	10
Audio Setting	10
Viewing Station Information	10
Storing Preset Stations	11
Recalling Preset Stations	11
Aux in Mode	12
General Operations	13
Setting Sleep	13
Setting Alarm	13
Setting Equaliser	15
Setting Time	15
Setting Backlight	15
Setting Language	16
Factory Reset	16
SW Version	16
Specification	17

Getting Started

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

What you can find inside of your package

- Main unit
- Instruction manual
- Power adapter

Positioning your Radio

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

Avoid the following locations:

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

Adjusting the Antenna

Extend the antenna to ensure you receive the best reception possible in both DAB/DAB+ and FM radio modes. It may be necessary to adjust the position of the radio and /or antenna to achieve the best signal.

Using Headphones

You will require headphones fitted with a 3.5 mm diameter stereo plug. The **Headphones** socket is located on the back of this unit. Headphones are not supplied with this radio. Turn down the volume before connecting headphones. Slowly raise the volume with the headphones on until you reach your desired level.

 **Note:** *long-term exposure to loud music may cause hearing damage. It is best to avoid extreme volume when using headphones, especially for extended periods of time.*

Turning the Unit On/Off

1. Connect the plug at the end of power adapter cable to the **DC IN** socket on the back of the unit. Then insert the power adapter into the mains socket.
2. Switch the **POWER ON/POWER OFF** switch to **POWER ON** position, and then press **VOLUME**/ knob to turn the unit on or standby.
3. To turn off unit completely, switch the **POWER ON/POWER OFF** switch to **POWER OFF** position.

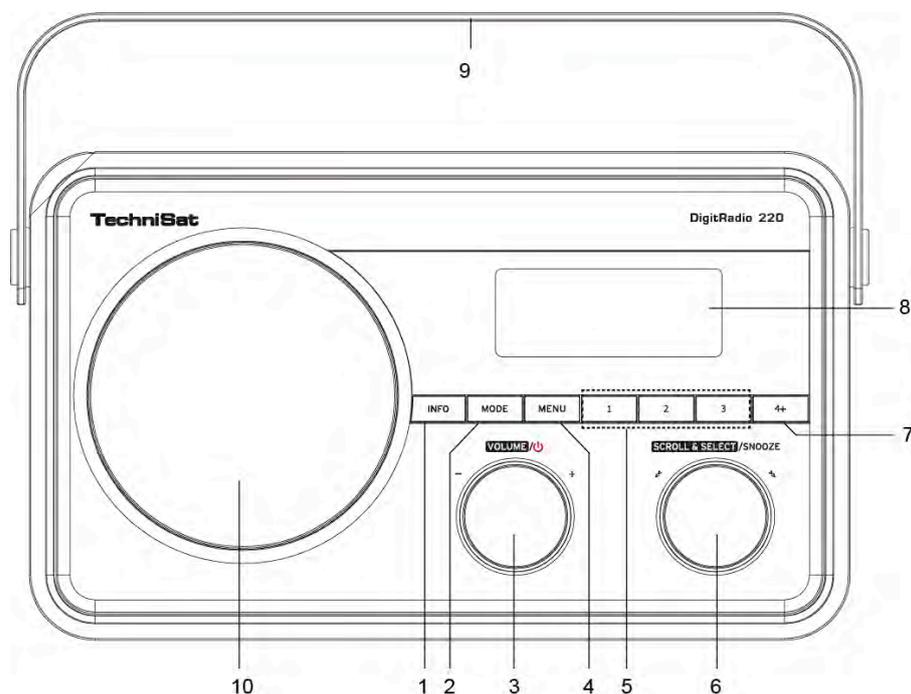
Your radio includes a built-in battery, once connected radio to mains supply, the battery will be automatically charged and automatically stop charging since fully charged. Charge the battery for 12 hours before first time use.

When radio doesn't connect to mains supply, it will run by battery power and  indicator will show on the display. Press **VOLUME**/ knob to turn the unit on or standby.

Volume Control

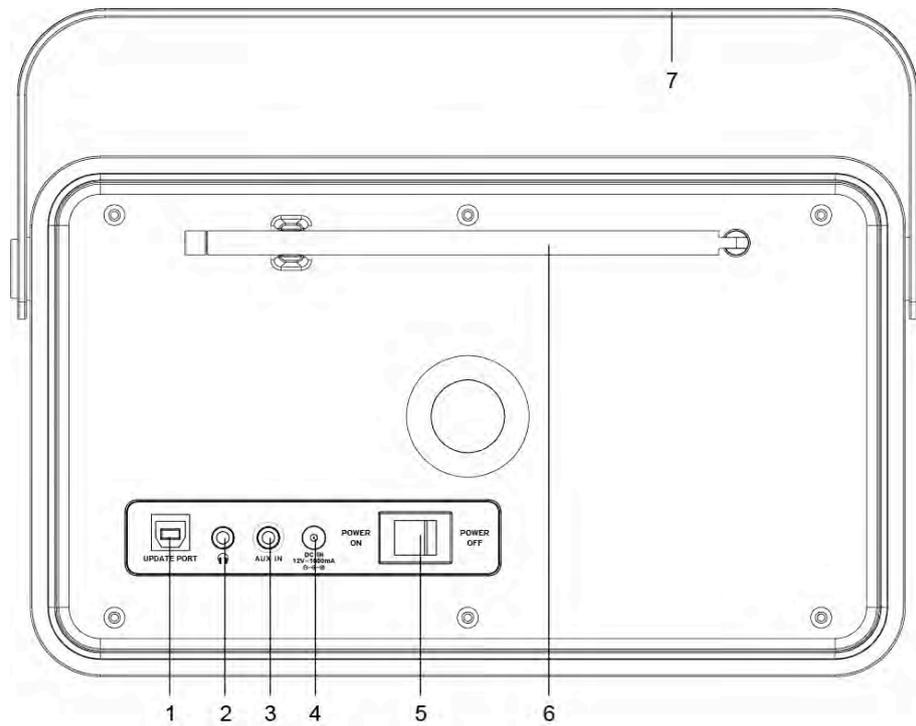
Adjust the radio volume by turning **VOLUME**/ knob clockwise or anticlockwise to increase or decrease volume level.

Unit Front View



1. **INFO** button
Press to browse station information.
2. **MODE** button
Press to switch among DAB, FM, Bluetooth and Aux in modes.
3. **VOLUME**  knob
 - Press to switch radio on or standby.
 - Turn to adjust volume level.
4. **MENU** button
Press to display or exit menu.
5. **PRESET** buttons **1, 2** and **3**
 - Simply press and hold one of **PRESET** buttons **1, 2** and **3** to save preset station 1, 2 or 3.
 - Simply press one of **PRESET** buttons **1, 2** and **3** to recall preset station 1, 2 or 3.
6. **SCROLL&SELECT/SNOOZE** knob
 - Turn to browse options.
 - Press to confirm selection.
 - Press to activate snooze function when alarm sounds.
7. **PRESET** button **4+**
 - Press and hold **PRESET** button **4+** to save a preset station among 1-10.
 - Press one of **PRESET** button **4+** to recall a saved preset station among 1-10.
8. Display
9. Handle
10. Speaker

Unit Back View



1. **UPDATE PORT**
Please leave this for service professional!
2.  **Headphones** socket
3. **AUX IN** socket
4. **DC IN** socket
12V/1000mA
5. **POWER ON/POWER OFF** switch
Switch unit between **POWER ON** and **POWER OFF**.
6. DAB/FM antenna
7. Handle

DAB Mode

When you turn on the radio it will automatically search and store all the available stations. You should conduct an additional Full Scan to ensure all stations are picked up and stored. It is also recommended every few months to run a new scan to pick up any new DAB/DAB+ that may have begun broadcasting after purchasing your DAB radio.

1. For initial use, your radio will conduct a full scan and store stations list in memory.



2. Once the scanning is completed, the DAB/DAB+ stations will be displayed in alphanumeric order. The first station in the list will be selected.

 **Note:** a. The DAB/DAB+ stations will be displayed and stored in alphanumeric order.
b. If no DAB/DAB+ signal is found, it may be necessary for you to relocate your radio.

Full Scan

This feature enables your radio to scan for all available stations.

Press **MENU** button, and then turn **SCROLL&SELECT/SNOOZE** knob to select **Full scan**, press **SCROLL&SELECT/SNOOZE** knob to confirm.

Selecting another Station

1. Press **MENU** button, and then turn **SCROLL&SELECT/SNOOZE** knob to select **Auto select**, press **SCROLL&SELECT/SNOOZE** knob to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to select Enable, and then press **SCROLL&SELECT/SNOOZE** knob to confirm.
3. While a program is playing, turn **SCROLL&SELECT/SNOOZE** knob to show station list.
4. Turn **SCROLL/SELECT** knob to browse through stations list, the station you want to play will be automatically broadcast.
5. Alternatively, once **Auto select** is set Disable, turn **SCROLL&SELECT/SNOOZE** knob to browse through stations list, and then press **SCROLL&SELECT/SNOOZE** knob to confirm broadcasting.

Secondary Service

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

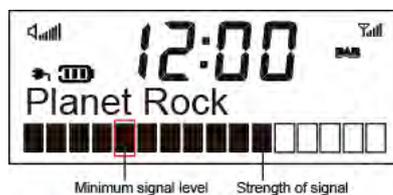
To select the secondary station, turn **SCROLL&SELECT/SNOOZE** knob until you find the secondary service you want, then press **SCROLL&SELECT/SNOOZE** knob to select it. When the secondary service ends, the unit will automatically switch back to the primary station.

Viewing Station Information

DAB/DAB+ stations broadcast additional information. Press **INFO** button repeatedly to view information through Scrolling text, Signal strength, Program Type, Ensemble, Frequency, Signal quality, Bitrate and Codec, Format, Time and Date, and then press **SCROLL&SELECT/SNOOZE** knob to confirm your selection.

Showing Signal Strength

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



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

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

Storing Preset Stations

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

1. While a station is playing, press and hold **PRESET** button **4+** until display shows '**Preset Store <1: (Empty)>**'.
2. Turn **SCROLL&SELECT/SNOOZE** knob to select among preset numbers 1-10.
3. Press **SCROLL&SELECT/SNOOZE** knob to confirm, the display shows '**Preset # stored**'.
4. Alternatively, while a station is playing, you can simply press and hold one of **PRESET** buttons **1, 2** and **3** to save preset station 1, 2 or 3.

Recalling Preset Stations

1. Press **PRESET** button **4+** to show stored preset stations.
2. Turn **SCROLL&SELECT/SNOOZE** knob to select through stored preset station list, and then press **SCROLL&SELECT/SNOOZE** knob to confirm the station which you want to play.
3. Alternatively, simply press one of **PRESET** buttons **1, 2** and **3** to recall preset station 1, 2 or 3.

FM Mode

Selecting FM Mode

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



3. To manually change the FM frequency, making sure no other order/system setting is going on, turn **SCROLL&SELECT/SNOOZE** knob to change the frequency by 0.05MHz per step.
4. To automatically scan, while FM frequency shows up, turn **SCROLL&SELECT/SNOOZE** knob clockwise or anticlockwise, and then press **SCROLL&SELECT/SNOOZE** knob, your radio will skip forwards or backwards until it reached the next available station.

Scan Setting

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

1. To change the scan settings to stop only at stations with good signal strength, press **MENU** button, and then turn **SCROLL&SELECT/SNOOZE** knob to select **Scan setting**, press **SCROLL&SELECT/SNOOZE** button to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to browse 'Strong stations only', and then press **SCROLL&SELECT/SNOOZE** knob to confirm.

Audio Setting

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

1. To play weak stations in mono, press **MENU** button, and then turn **SCROLL&SELECT/SNOOZE** knob to select **Audio setting**, press **SCROLL&SELECT/SNOOZE** knob to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to browse 'Forced mono', and then press **SCROLL&SELECT/SNOOZE** knob to confirm.

Viewing Station Information

FM stations broadcast additional information. Press **VOLUME / INFO** knob repeatedly to view information through Radio text, Program Type, Program name, Audio info, Time and Date.

Storing Preset Stations

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

1. While a station is playing, press and hold **PRESET** button **4+** until display shows '**Preset Store <1: (Empty)>**'.
2. Turn **SCROLL&SELECT/SNOOZE** knob to select among preset numbers 1-10.
3. Press **SCROLL&SELECT/SNOOZE** knob to confirm, the display shows '**Preset # stored**'.
4. Alternatively, while a station is playing, you can simply press and hold one of **PRESET** buttons **1**, **2** and **3** to save preset station 1, 2 or 3.

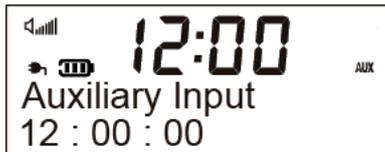
Recalling Preset Stations

1. Press **PRESET** button **4+** to show stored preset stations.
2. Turn **SCROLL&SELECT/SNOOZE** knob to select through stored preset station list, and then press **SCROLL&SELECT/SNOOZE** knob to confirm the station which you want to play.
3. Alternatively, simply press one of **PRESET** buttons **1**, **2** and **3** to recall preset station 1, 2 or 3.

Aux in Mode

Aux in allows for quick and easy connection to an MP3 player or other external audio sources.

1. Before connecting to the mains socket, use a 3.5mm audio cable (not supplied) to connect to your external audio device through the **AUX IN** socket on the rear of unit.
2. Connect power adapter to mains socket, press **VOLUME**/ knob to switch unit on.
3. Press **MODE** button repeatedly to select **Auxiliary Input** mode.



4. In Aux in mode, you may operate your audio device directly for playback features.
5. To gain optimal volume levels, adjusting the output volume level on the audio device as well is recommended.

 **Note:** the unit will automatically switch to standby mode after 10 minutes if the source device is disconnect, switch off or the volume is too close to mute.

General Operations

Setting Sleep

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

1. Press **MENU** button, turn **SCROLL&SELECT/SNOOZE** knob to select **Sleep**, and then press **SCROLL&SELECT/SNOOZE** knob to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to view options **Sleep off, 15, 30, 45, 60** or **90 minutes**, press **SCROLL&SELECT/SNOOZE** knob to confirm. The sleep icon  will show on the display.
3. To view the set sleep time, redo above step 1.
4. To turn the sleep function off while the sleep timer is still counting down, select '**Sleep**' option, turn **SCROLL&SELECT/SNOOZE** knob to select '**Sleep off**'.

Setting Alarm

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

1. Press **MENU** button, turn **SCROLL&SELECT/SNOOZE** knob to select 'Alarm', press **SCROLL&SELECT/SNOOZE** knob to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to browse 'Alarm 1' and 'Alarm 2', press **SCROLL&SELECT/SNOOZE** knob to confirm.  or  will flash on the display.
3. Follow your radio's instructions to configure the following parameters:

Alarm states:	On or Off
Alarm time:	On Time: 00:00 (manually set up the time)
Alarm duration time:	15/30/45/60/90 minutes
Alarm source:	DAB, FM or Buzzer
Last listened:	Only available when DAB or FM source is selected
Alarm active day:	Daily, Once, Weekends or Weekdays
Alarm volume:	turn VOLUME /  knob to set the alarm volume

4. When display shows 'Alarm Saved', the alarm setting is successful.
5. To temporarily switch off alarm, press **SCROLL&SELECT/SNOOZE** knob to activate Snooze function when the alarm sounds and set Snooze time cycle through 5, 10, 15 or 30 minutes.

 **Note:** the options of Snooze time depends on which alarm duration time you selected.

Alarm duration time	Snooze time
15 minutes	5 or 10 minutes
30 minutes	5, 10 or 15 minutes
45/60/90 minutes	5, 10, 15 or 30 minutes

6. To turn off alarm, press **VOLUME**/ knob when the alarm sounds.

7. To cancel Alarm, refer to steps 1-3 to set Alarm states to 'Off'.

Setting Equaliser

This feature enables you to set a sound equalization profile. The equalization setting will change the tone of the sound from your radio.

1. Press **MENU** button, turn **SCROLL&SELECT/SNOOZE** knob to select **Equaliser**, and then press **SCROLL&SELECT/SNOOZE** knob to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to browse through Treble and Bass, and then press **SCROLL&SELECT/SNOOZE** knob to confirm.
3. Turn **SCROLL&SELECT/SNOOZE** knob to set the level of Treble and Bass among '-5' to '+5', and then press **SCROLL&SELECT/SNOOZE** knob to confirm.

Setting Time

1. Press **MENU** button, turn **SCROLL&SELECT/SNOOZE** knob to select **Time**, and then press **SCROLL&SELECT/SNOOZE** knob to view options as below:

Set Time/date:	Manually set-up both Time and Date
Auto update:	'Update from Any', 'Update from DAB', 'Update from FM' or 'No update'
Set 12/24 hour format:	'Set 24 hour' or 'Set 12 hour'
Set date format:	'DD-MM-YYYY' or 'MM-DD-YYYY'

2. Then setting time according to your personal preference.

Setting Backlight

1. Press **MENU** button, turn **SCROLL&SELECT/SNOOZE** knob to select **Backlight**, press **SCROLL&SELECT/SNOOZE** knob to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to select '**Power on**' or '**Standby**', then press **SCROLL&SELECT/SNOOZE** knob to confirm.
3. Turn **SCROLL&SELECT/SNOOZE** knob to select backlight level, and then press **SCROLL&SELECT/SNOOZE** knob to confirm the setting.

Power on	<ul style="list-style-type: none">• High• Medium• Low
Standby	<ul style="list-style-type: none">• High• Low• Off

Setting Language

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

1. Press **MENU** button, turn **SCROLL&SELECT/SNOOZE** knob to select **Language**, and then press **SCROLL&SELECT/SNOOZE** knob to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to browse, and then press **SCROLL&SELECT/SNOOZE** knob to select you desired language.

Factory Reset

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

1. Press **MENU** button, turn **SCROLL&SELECT/SNOOZE** knob to select **Factory Reset**, and then press **SCROLL&SELECT/SNOOZE** knob to confirm.
2. Turn **SCROLL&SELECT/SNOOZE** knob to select '**Yes**', and then press **SCROLL&SELECT/SNOOZE** knob to confirm.

SW Version

Press **MENU** button, and then turn **SCROLL&SELECT/SNOOZE** knob to select **SW version**, press **SCROLL&SELECT/SNOOZE** knob to confirm. The software version will show on the display.

Specification

ITEMS	SPECIFICATIONS
Description:	DAB/DAB+ and FM Digital Radio
Frequency Ranges:	FM: 87.5-108MHz DAB/DAB+: 174.928 – 239.200MHz
Power Supply:	AC Input: 100-240V, 50-60Hz DC Output: 12V/1000mA
Battery Requirement:	Rechargeable Li-ion Polymer Battery
Audio Output Power:	5W rms
Power Consumption:	12W (Max)
Dimension (W x D x H):	250mm x 86mm x 153mm



This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU.

For more information, please contact the local authority or your retailer where you purchased the product.