

Portable FM/DAB radio

**orava**

# DAB

## Instruction manual

EN



CE

Please read this manual carefully before operating the device and retain it for future reference.

DAB

# Intended use of the device

The device is intended exclusively for the reception and reproduction of radio broadcasts, to the extent specified in the technical and operational parameters and functions, safety and user instructions and external influences of the operating environment.

ORAVA electrical equipment is manufactured in accordance with the knowledge of the current state of technology and recognized safety and technical rules. Nevertheless, incorrect and unprofessional use or use contrary to the intended purpose may create a risk of injury or endanger the life of the user or a third party, resp. damage to equipment and other property. Keep these instructions in a safe place for future reference.

## 1. General safety instructions and warnings

- Before putting the device into operation, we recommend that you carefully read the operating instructions and operate the device according to the established instructions.
- The safety instructions and warnings in this manual do not cover all possible conditions and situations that may occur when using the device. The user must understand that personal responsibility and care are factors that cannot be incorporated into any of the products. These factors must therefore be ensured by the users operating the device.
- By failing to observe the safety instructions and warnings, the manufacturer is not liable for any damage to health or property!
- If possible, keep the operating instructions close to the device throughout its service life. Always keep the operating instructions with the device for future reference and use by new users.
- Use the device only for the intended purpose and in the manner specified by the manufacturer.
- This is not a professional device for commercial use.
- Do not change the technical parameters and characteristics of the device.
- The manufacturer is not liable for damage caused during transport, improper use, damage or destruction of the device due to adverse weather conditions.

### Operating environment safety

- Do not use the device in an industrial or outdoor environment! Do not expose the device to:
  - sources of excessive heat or open flame,
  - vibration and excessive mechanical stress,
  - insects, animals and flora,
  - aggressive and chemical substances.
- The operating environment of the device must always comply with the specified basic characteristics.

### Operating environment characteristics:

1. Ambient temperature: +5 - 40 ° C
2. Humidity: 5 - 85%
3. Altitude: = <2,000 m
4. Occurrence of water: occasional condensation of water or the presence of water vapor.
5. Occurrence of foreign bodies: the amount and type of dust are insignificant

## **Electrical safety**

- Protection class II electrical equipment is equipment that is made with double insulation between hazardous parts (parts with dangerous mains voltage) and parts that are accessible during normal use.
- Electrical equipment of protection class III are equipment which is powered by a source of low safe voltage (battery or accumulator) and does not pose any danger to the user in terms of electric shock.

## **Personal safety**

- Operations of the equipment include activities such as turning the equipment on and off, user manipulation and setting of operating parameters, visual or auditory inspection of the equipment, and user cleaning and maintenance.

## **Unpacking**

- Unpack the device and accessories before putting them into operation and dispose of all parts of the packaging materials, labels and tags.
- Store packaging materials in a safe place or keep them out of the reach of children and incompetent persons.

## **Inspection/Commissioning**

- We recommend performing initial and subsequent regular inspections of the device. Use the device only with accessories supplied and approved by the manufacturer.
- Never use the device if it is incomplete, damaged or its parts or accessories have been damaged during use (e.g. due to a fall).
- Clean electrical parts only with a damp cloth and wipe dry or allow to dry.
- Keep the device clean and dry.

## **Operation/Use**

### **Warning!**

- This device may only be used with original and undamaged parts and accessories.
- Suitability and correct use are specified in the „Use“ section. Danger of serious injuries!

### **Warning!**

- The device must be kept dry.
- Do not use or place the device near containers containing water. If the device falls into water, turn it off and allow it to dry completely.
- If the device subsequently shows signs of malfunction or damage, take it to a specialist garage for inspection.
- Never overload the device above the limits set by the technical parameters! Danger of serious injuries!  
There is a risk of damage to the device or other property damage!
- Observe the operating mode of the device (operating / operating time and breaks) in accordance with the operating and operating instructions. Clean the device regularly. Contamination of the device can result in a reduction in operating parameters and possible consequent irreversible damage.
- If any safety part / component (mechanical, electrical) is part of the device, never deactivate this part / component! Do not use the device if the safety part / component is damaged or non-functional!

## 2. Special safety instructions. Read carefully!

The electrical equipment is designed and manufactured in such a way as to allow safe operation and use by persons without professional qualifications. Despite all the measures taken by the manufacturer for safe use, operation and use carry certain residual risks and the possible dangers associated with them.

The following symbols and their meanings have been used on the device and in the accompanying documentation to warn of possible dangers:



This symbol alerts users to the risk of serious injury or death if the safety instructions for the use and operation of the device are not observed!  
Danger of equipment damage or other property damage!



This symbol indicates that the product is made with double insulation between hazardous parts (parts with dangerous mains voltage) and parts that are accessible during normal use. Use only safe accessories when charging the built-in battery with the AC adapter.

### Transport/Carrying

- Only transport / transport the device after a thorough inspection of the area and the route, which must be unobstructed.
- When carrying, make sure that your hands and the device are not wet or slippery.  
Danger of serious injury or death!  
Danger of damaging the device!

### Unpacking/Packaging

- Before commissioning, unpack the device and dispose of all parts and accessories of packaging materials, labels and tags. Keep all packaging materials in a safe place or keep them out of the reach of children and incompetent persons.  
Danger of serious injuries!  
Danger of suffocation!

### Inspection/Commissioning

- Never use the device if it is incomplete, damaged or any part of it has been damaged during use. Have the device repaired by a specialist garage.
- Always switch the device off to position "0" when attaching or removing attachments.  
Risk of serious injury!

### Warning!

- The device is intended for household use. This is not a professional device.
- Do not use the device in an industrial environment or outdoors.
- Be careful not to let the device come in contact with water - it could be damaged.
- Do not use the device in a humid environment (near a swimming pool, washbasin or shower, etc.).
- For safety reasons, stop using the device if the cover of the device or other parts are damaged.

- The device must not be used if it has been dropped or if it shows visible signs of damage.
- Do not repair or modify the device yourself. Have all repairs carried out by an authorized service center. By interfering with the product, you run the risk of losing the legal right from incorrect performance, or quality guarantees.  
Danger of serious injuries!  
There is a risk of damage to the device or other property damage!

### **Location/Installation**

- Children under the age of 3 must be denied access unless they are permanently supervised.
- Children from the age of 3 and under the age of 8 must not switch on the device, regulate it, clean it and perform maintenance by the user.
- This device is intended for use by children over 8 years of age and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided they have been given supervision or instruction concerning the safe use of the device and understand the risks involved.
- Children must not play with the device!

### **Warning!**

- Place the device in a place where children cannot reach freely. Do not allow children to manipulate (play with) the device. The device can tip over and cause very serious injuries. Mechanical damage (cracking or breaking of parts and covers) of the device can cause serious injuries.  
Danger of serious injury or death!  
There is a risk of damage to the device or other property damage!
- Keep the device out of the reach of animals. The device can tip over and mechanical damage (cracking or breaking of parts and covers) of the device can cause serious injury.
- The device must be stored on a stable surface.
- Always make sure that the place where you want to place the device has sufficient space, stability, mechanical strength.
- Do not place the device on or near an electric or gas cooker and other heat sources.
- Turn off the device when not in use, cleaning it, attaching accessories, or when a malfunction occurs.
- Never leave the device unattended and freely accessible.

### **Personal safety**

- This device is intended for use by persons without electrical qualification (by laymen), according to the instructions provided by the manufacturer.
- Operation of the equipment includes activities such as turning the equipment on and off, user manipulation and setting of operating parameters, visual or auditory inspection of the equipment, and user cleaning and maintenance.
- This device is intended for use by children 8 years of age and older and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, only if they have been given supervision or instruction concerning use of the device safely and understand the dangers involved. .
- Cleaning and user maintenance may only be performed by children 8 years of age and older under the supervision of a responsible person.
- Children must not play with the device!
- Always keep the device out of the reach of children during use and operation. Remember that the device can also be pulled down with a freely accessible mains cord.
- Always take extra care when operating an electrical device. Do not use the electrical device if you are excessively tired, under the influence of drugs or narcotics that reduce attention and concentration. Careless handling can lead to serious injuries.  
Danger of serious injury or death!  
There is a risk of damage to the device or other property damage!

### **Safety instructions for battery and charger**

- Make sure that the mains current is the same as that indicated on the battery charger.
- Do not allow moisture, rain or splashing water to reach the charging point of the device.
- Do not charge the battery when the temperature is below 10 ° C or above 40 ° C. Charging the battery in extreme temperatures may shorten its life.
- A damaged battery that can no longer be charged must be treated as hazardous waste. Do not dispose of the battery in normal household waste, fire or water!
- Use only the battery and charger approved by the manufacturer for use in these devices.
- The battery and charger become slightly warm during charging.
- Be careful not to drop the battery or hit it on surfaces or objects. Do not use damaged batteries.
- Use the charger only indoors and do not expose it to moisture or rain.

### **Tips to ensure maximum battery life**

- Charge the battery before it is completely discharged.
- Never charge a fully charged battery.
- Allow the hot battery to cool before charging.
- If the battery is not used for a long time, it must be charged first.

### **Chemical hazard**

- Do not open the battery pack. Protect the battery from impact. If electrolyte leaks from the battery, it is necessary to prevent its saturation with the skin. If the electrolyte comes into contact with the skin, rinse the affected area with water. If electrolyte gets into your eyes, see a doctor immediately!  
Danger of serious injury or death!

### **Cleaning/Maintenance**

#### **Cleaning the outside of the machine**

- Switch off the device before cleaning.
- Wipe the device with a cloth that has been slightly dampened. However, under no circumstances may liquid enter the device or accessories. Then wipe everything dry.
- Do not use metal objects, petrol, thinners or abrasive cleaners, etc. for cleaning to avoid damaging the surface.
- To prevent possible damage, do not wash the device under running water, spray water on it, or immerse it in water or any other liquid.
- Do not reuse the device until it is completely dry. There is a risk of electric shock!  
Danger of serious injury or death!

### **Disposal**

- In order to protect the environment, the device must not be disposed of with normal household waste at the end of its service life.
- The device must be taken to the appropriate collection yard.
- Observe local regulations for material disposal.

# Technical specifications

<b>Power supply:</b>	3.7 V rechargeable Li-ion battery, 1,050 mAh (supplied)
<b>Connectors:</b>	3.5 mm mini headphone jack 3.5 mm mini connector AUX (input) microUSB charging connector
<b>Radio bands:</b>	FM and DAB
<b>Tuning range:</b>	FM: 87.5 - 108 MHz DAB: 5A 174.928 - 13F 239.200 kHz
<b>Number of redials:</b>	40 in the FM band, 40 in the DAB band
<b>Speaker power:</b>	3 W
<b>Antenna: FM:</b>	telescopic rod antenna

Subject to change!

## **Producer:**

ORAVA retail 1, a.s.  
Seberiniho 2  
821 03 Bratislava  
Slovenská republika

## **Importer:**

ORAVA retail 1, a.s.  
Seberiniho 2  
821 03 Bratislava  
Slovenská republika

ORAVA distribution CZ, s.r.o.  
Ostravská 494  
739 25 Sviadnov  
Česká republika



## **DISPOSAL OF USED ELECTRICAL AND ELECTRONIC EQUIPMENT**

The symbol on the product or on its packaging indicates that this product does not belong to household waste. It is necessary to take it to a collection point for electrical recycling and electronic equipment.

By ensuring proper disposal of this product, you will help prevent negative consequences

to the environment and human health that would otherwise be caused by inappropriate disposal of this product. For more detailed information about recycling of this product, please contact your local authority, your household waste disposal service or the shop where you purchased the product.



This product meets all the essential requirements of the EU directives that apply to it.

## **DECLARATION OF CONFORMITY**

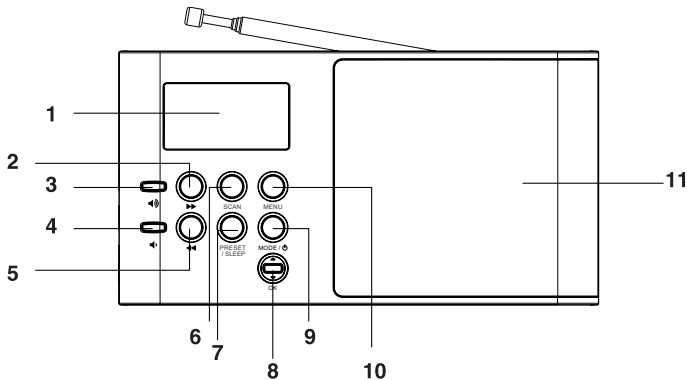
Short text Declaration of Conformity:

ORAVA retail 1, a.s. hereby declares that the DAB complies with the essential requirements and other relevant conditions of Directive 2014/53/ EU of the European Parliament and of the Council.

The full text of the Declaration of Conformity is available at: [www.orava.eu](http://www.orava.eu)

# Description of parts

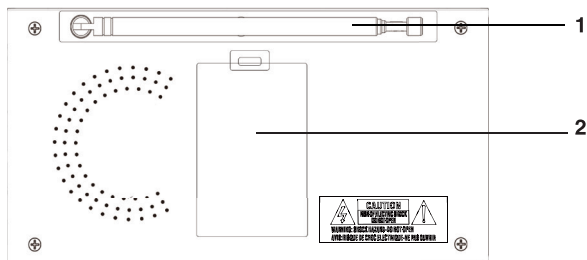
## Front side



- 1 LCD display
- 2 ►► button (tuning, forward (tracks, presets))
- 3 volume up button
- 4 volume down button
- 5 ◄◄ button (tuning, rewinding (tracks, presets))
- 6 **SCAN** button
- 7 **PRESET/SLEEP** button
- 8 **OK** button
- 9 **MODE**/⏻ button (on/off/mode)
- 10 **MENU** button
- 11 speakers



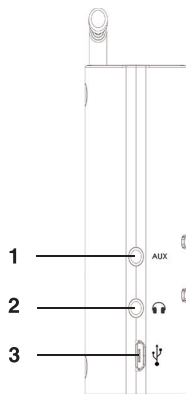
## Back side



1 telescopic FM antenna

2 battery compartment cover

## Side



1 3.5 mm **AUX** mini connector (external audio device connection)

2 3.5 mm mini headphone jack

3 micro USB connectors for connecting the AC power adapter

# Preparation

The device is delivered completely assembled.

**1** Carefully unpack the device from the box.

Make sure that all the items listed are included in the package.

**2** Check the device for any damage or damage during transport.

**3** Save the packing material.

## Package Contents

Equipment, battery and operating instructions.

## Power supply

The device works on an inserted 3.7 V rechargeable battery, which is part of the product packaging.

A rechargeable battery is available in the battery compartment.

**1** Squeeze the tab on the battery compartment covers and open the battery compartment.

**2** A 3.7 V, 1,050 mAh rechargeable Li-ion battery is inserted in the battery compartment. Make sure that the battery is inserted and connected correctly. An incorrectly inserted and connected battery can cause serious damage to the device.

**3** Close the battery cover until it clicks.

## Battery warnings!

- Keep batteries out of the reach of children. If the battery compartment cannot be closed properly, do not continue to use the product and keep it out of the reach of children.
- If the battery is swallowed or otherwise enters the body, seek medical attention immediately.
- If the battery leaks, avoid contact with the skin and eyes and mucous membranes. Immediately flush affected areas with clean water and seek medical attention immediately.
- Warning! If the battery is not inserted or connected properly, it may explode.
- Do not disassemble, throw into fire or short-circuit batteries.
- Protect batteries from excessive heat. Remove the batteries from the device after discharging them or before using the product for a long time. This will prevent damage from battery leakage.

## **Rechargeable battery powered**

The device is powered by an inserted rechargeable battery.

Before using for the first time or whenever the battery is low (the battery status indicator on the display shows that the battery is low, the sound is weak, distorted, or the device turns off completely arbitrarily), charge the battery.

You can charge the device battery from the mains using a suitable charger with a micro USB connector (not supplied, 5 V, 1 A).

Charge the battery at least once a month when you are not using the device.

Connect the charger to a wall socket, and connect the micro USB connector to the micro USB connector on your device.

The battery starts charging. It takes about 2 hours to charge a fully discharged battery. When charged, the indicator on the display will show a fully charged battery.

You can charge with the device on or off.

### **Note**

If you do not have a suitable charger, you can charge the battery by connecting the device to a PC with a suitable USB cable. With this connection, the battery will be charged in the device from the PC.

# Using the device

## Listening to FM radio

- 1 Extend the telescopic rod FM antenna for good FM reception.
- 2 Press and hold the **MODE/⏻** (on/off/mode) button (9) to turn on the unit.  
The unit turns on, and if a station is tuned in, the last station you listened to will be played.
- 3 Briefly press the **MODE/⏻** button to switch the mode between DAB, FM and AUX input. Select FM mode.  
The frequency is displayed on the LCD.

## 4 Auto Tuning

Pressing and holding the **SCAN** button (6) starts auto tuning in the selected band. Tuning stops when the unit tunes in a station with a good signal, or tunes in and stores all available FM stations.

## Manual tuning

Press **◀◀/▶▶** (2, 5) left or right to tune in the desired station.

Watch the tuning on the frequency displayed on the LCD.

For good reception of the FM station, extend and adjust the telescopic rod antenna (1) as much as possible and change the length and position to set the best (undisturbed) reception.

## 5 Store the tuned station under a preset number

A total of 40 FM stations can be stored as presets in the radio. Follow step 4 to tune to the desired station.

After tuning, press and hold the **MENU** button (10) and press the buttons **◀◀/▶▶** select SAVE PRESET. Press the OK button (8). „Preset #“ appears on the display.

Press **◀◀/▶▶** to select the desired preset number to store. After selecting the desired preset number, briefly press the **OK** button and the station you are currently listening to will be stored under the selected preset number. If a station is already stored under the selected preset number, the new station will overwrite this old stored station.

## 6 Listening to a stored preset

Turn on the radio and in FM mode, press and hold the **MENU** button (10) and press ◀◀/▶▶ to select CALL PRESET.

Press the **OK** button (8). „Preset #“ appears on the display. Press ◀◀/▶▶ to select the desired preset number.

After selecting the desired preset number, briefly press the OK button and the selected preset will be played.

To listen to another stored preset, press ◀◀/▶▶ select another desired preset number with the stored station.

After selecting the desired preset number, the station stored under the selected preset number will be played.

You can also activate the presets with the **PRESET/SLEEP** button (7).

Briefly press the button to activate the menu and press ◀◀/▶▶ to select the desired station. After selecting the desired preset number, press the **OK** button.

**7** To adjust the volume, press the volume buttons (**3, 4**) (increase or decrease) to adjust the desired volume level.

**8** To listen to the sound through the headphones, connect suitable headphones (not supplied) to the 3.5 mm headphone mini-connector (**2**).

**9** When you have finished listening, switch off the device by pressing and holding the **MODE/⏻** (on/off/mode) button (**9**) for approx. 2 seconds.

## Using the menu in FM mode

In FM mode, you can use the device's menu to save/activate stored presets, restore factory settings and display the software version.

**1** Press and hold the **MENU** button (**10**) for about 2 seconds. The first menu item is displayed. Press ◀◀/▶▶ to select the desired Menu item. See the description above to save and recall presets via the menu.

**2** To restore the factory settings, press ◀◀/▶▶ to select **SYSTEM RESET** in the menu, then press **OK**. Confirm that you really want to reset the system (Yes or No) and press **OK**. The factory settings are restored. All stored stations will be deleted.

**3** To display the system version, select in the menu by pressing ◀◀/▶▶ this item to display the software version and press **OK**.

To use the menu to display information about the station you are listening to, briefly press the **MENU** button while listening to the station.

If an RDS station is tuned in, the following information will be displayed sequentially when switching: the current date and time, the frequency of the tuned station, the signal (auto/stereo/mono), RDS information and the program type.

The display also shows the signal strength in the form of a bar.

## Listening to DAB broadcasts

1 Press and hold the **MODE/⏻** (on/off/mode) button (9) to turn on the unit.

2 Briefly press the **MODE/⏻** button to switch the mode between DAB, FM and AUX input. Select DAB mode.

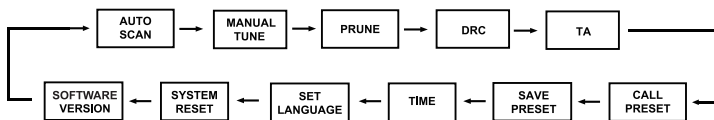
The device automatically tunes in and stores all available DAB stations.

3 Press **◀◀/▶▶** to select the desired station.

## Settings in DAB mode

1 In DAB mode, press and hold the **MENU** button (10) for about 2 seconds.

2 Press **◀◀/▶▶** to select the desired menu item. The menu structure is as follows:



## AUTO SCAN

1 Select this item and press **OK** briefly.

The device automatically retunes and stores all available DAB stations.

## MANUAL TUNE

1 Select this item and press **OK** briefly for manual tuning.

2 Press **◀◀/▶▶** to tune in stations.

3 Briefly press the **OK** button to confirm.


## PRUNE (delete unavailable station)

1 Select this item and press **OK** briefly.

2 Press **◀◀/▶▶** to select “Yes” or “No”.

3 Press **OK** to confirm the selection. Unavailable stations will be removed from the list.

### **DRC** (signal strength adjustment)

- 1 Select this item and briefly press the **OK** button to set the DRC.
- 2 Press **MODE**/ to select the desired DRC setting:  
„Off“, „Low“ or „High“.
- 3 Press **OK** to confirm the selection.

### **TA** (traffic information)

- 1 Select this item and briefly press the **OK** button to set the TA (traffic information) function.
- 2 Press **◀◀/▶▶** to select “On” or “Off”.
- 3 Press **OK** to confirm the selection.

### **CALL PRESET** (recall DAB preset)

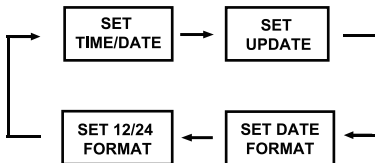
- 1 Select this item and briefly press the **OK** button to activate and listen to the desired preset from memory.
- 2 Press **◀◀/▶▶** to select the desired preset.
- 3 Press **OK** to confirm the selection. The selected preset will be played.

### **SAVE PRESET** (save DAB preset)

- 1 Select this item and briefly press the **OK** button to store the desired preset.
- 2 Press **◀◀/▶▶** to select the desired preset number under which the tuned station is to be stored.
- 3 Press **OK** to confirm the selection. The station is stored under the selected preset number.

### **TIME** (time and date setting)

- 1 Select this item and briefly press the **OK** button to activate the time and date setting mode.
2. Press **◀◀/▶▶** to select the desired item from the following submenu structure:



- 3 After selecting the desired item (setting the date and time, setting daylight saving time, setting the date format, setting the 12-/24-hour time display mode), press the **OK** button to confirm the item selection.
- 4 Press **◀◀/▶▶** to select the desired setting for the item (set the date and time, etc.).
- 5 After completing the settings, press **OK** to confirm and save the settings.

## LANGUAGE

- 1 Select this item and briefly press the **OK** button to set the display language.
- 2 Press **◀◀/▶▶** to select the desired language (if available).
- 3 Press **OK** to confirm the selection.

## SYSTEM RESE

- 1 Select this item and press **OK** briefly to restore the factory settings.
- 2 Confirm that you really want to reset the system (Yes or No) and press **OK**.  
The factory settings are restored. All stored stations will be deleted.

## FIRMWARE VERSION

- 1 Press **◀◀/▶▶** to select in the menu to display the system version this item to display the software version.

# Additional features

## Play audio from another audio device (AUX)

- 1 Connect a suitable audio cable with a 3.5 mm micro-connector to the 3.5 mm AUX mini-connector (1) on this unit and to the audio output connector on another device.
- 2 Press **MODE/⏻** (on/off/mode) (9) to turn on the unit.
- 3 Briefly press the **MODE/⏻** button to switch the mode between DAB, FM and AUX input. Select AUX mode.
- 4 Start playback on the connected device and adjust the volume on this device by pressing the volume adjustment buttons (3, 4) (increase or decrease).



## Notes

- Audio cable is not supplied.
- Refer to the operating instructions of the connected device for playback.

## Auto power off function

The device is equipped with an automatic power saving function in AUX mode.

If the connected device is in stop or pause mode for more than 10 minutes (there will be no signal at the AUX input), it will turn off automatically. After switching off, press the **MODE/⏻** (on/off/mode) button (9) again to switch on the device.

## Listening through headphones

- 1 Connect a suitable headphone with a 3.5 mm micro-connector to the 3.5 mm headphone mini-connector (2) on this device.
- 2 Press **MODE/⏻** (on/off/mode) (9) to turn on the unit.
- 3 Briefly press the **MODE/⏻** button to select the desired mode.
- 4 Adjust the desired volume by pressing the volume adjustment buttons (3, 4) (increase or decrease).

## Sleep mode (timed shutdown)

In any mode, you can set the device to turn off automatically after a set time.

- 1 Press and hold the **PRESET/SLEEP** button (7) for about 2 - 3 seconds. „OFF“ appears on the display, which means that the timer switch-off is not activated.
- 2 Press **◀◀/▶▶** (2, 5) to change the sleep time setting from 10 minutes to 10/20/30/40/50/60/70/80/90.
- 3 After selecting the desired time, press **OK** to confirm the setting. The device switches off automatically after the set time has elapsed.

# Cleaning and maintenance

Switch off the device before cleaning.

## Cleaning and storage

- Store the device in a safe, cool and dry place.
- Clean the device with a soft cloth dampened with water.  
In case of heavy soiling, you can dampen the cloth in a mild detergent solution.
- Do not use aggressive, harsh cleaning agents or thinners. There is a risk of surface damage.
- Do not chemically clean the device. There is a risk of surface damage.
- The device must not fall to the ground during cleaning.
- Make sure that no water enters the device.  
If this happens, remove the batteries and do not use the device until it is completely dry. Test whether the device will work.
- Never immerse the device in water or other liquids when cleaning.

## Notifications!

- Never attempt to repair the device yourself.
- The device does not require special maintenance.