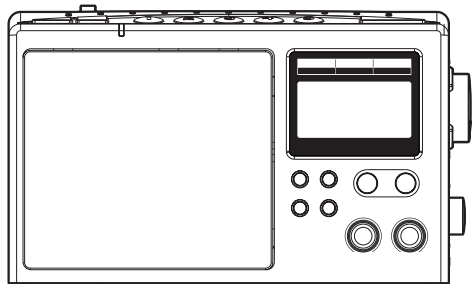
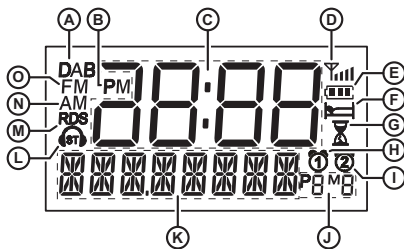
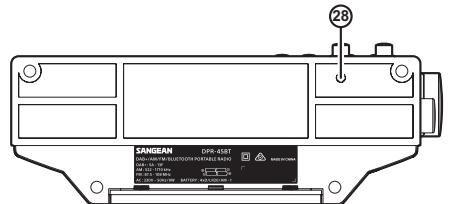
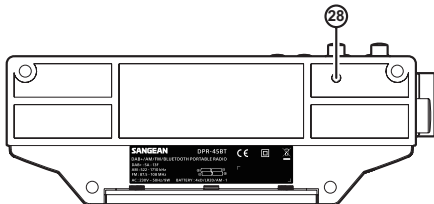
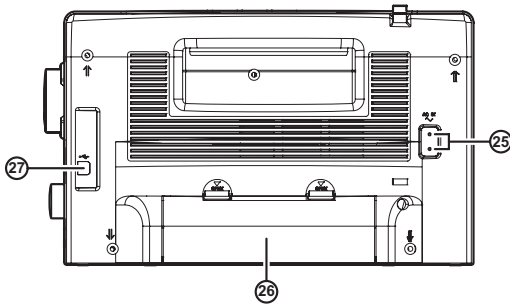
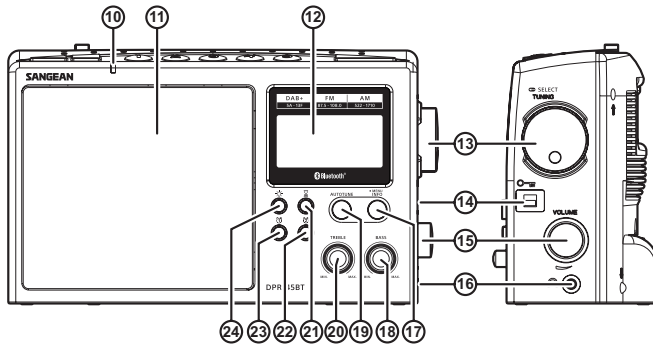
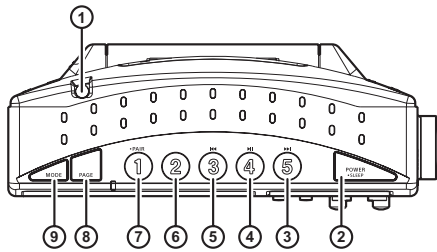


# DPR-45BT



**GB**


Version 1








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### 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 rear of unit.
17. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, shall be placed on the apparatus.
18. Excessive sound pressure on ear-and headphones could impair the hearing ability. Higher setting that idle on the equalizer leads to higher signal voltages on the output for ear and headphones.
19. 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.

20. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnected device shall remain readily operable.
21. The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
22. 

	The symbol indicates AC Voltage.
	The symbol indicates DC Voltage.
	The symbol indicates class II equipment.
23. The marking information is located at the bottom of the apparatus.

**CAUTION:**  
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.

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### Controls

- ① Telescopic antenna
- ② Power / Sleep button
- ③ Preset 5 / Next track / Fast forward button
- ④ Preset 4 / Play / Pause button
- ⑤ Preset 3 / Previous track / Rewind button
- ⑥ Preset 2
- ⑦ Preset 1 / Bluetooth pairing button
- ⑧ Page button
- ⑨ Mode button
- ⑩ Bluetooth LED indicator
- ⑪ Speaker
- ⑫ LCD display
- ⑬ Tuning knob / Select button
- ⑭ Lock switch
- ⑮ Volume control
- ⑯ Headphone socket
- ⑰ Info / Menu button
- ⑱ Bass control
- ⑲ Autotune button
- ⑳ Treble control
- ㉑ Timer button
- ㉒ Alarm 2 button
- ㉓ Alarm 1 button
- ㉔ Brightness control button

- 25 AC socket
- 26 Battery compartment
- 27 Software upgrade socket (for service use only)
- 28 Reset button

## LCD display and indicators

- A DAB indicator
- B PM time indicator
- C Time display
- D Signal strength indicator
- E Battery capacity indicator
- F Sleep timer indicator
- G Timer indicator
- H Alarm 1 indicator
- I Alarm 2 indicator
- J Preset indicator
- K Frequency / information for station display
- L FM stereo indicator
- M RDS indicator
- N AM indicator
- O FM indicator

## Getting started

### Battery operation

1. Open the battery cover on the rear of the unit by pushing the latch downward.
2. Insert 4 x AM-1 / LR20 (D size) batteries into the battery compartment. Ensure all batteries are inserted with the correct polarity as shown inside the battery compartment. Close the battery cover.
3. Reduced power, distortion and a stuttering sound or the empty battery sign flashing on the display are all signs that the batteries need replacing. If the radio is not to be used for an extended period of time, it is recommended that the batteries be removed from the radio.

#### IMPORTANT:

Batteries should not be exposed to excessive heat such as direct sunlight, fire or the like. After use, disposable batteries should be taken to a suitable recycling center. On no account should batteries be disposed of by incineration. Do not leave batteries within reach of young children, they can be a choking hazard.

#### CAUTION:

Risk of explosion if battery is replaced by an incorrect type.  
 Don't disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a Battery.  
 To avoid battery subjected to extremely low air pressure.

## AC operation

Before you plug the AC cable into an AC socket, be sure that the voltage is fully compatible with this radio.

## Navigating and using the radio menu

The radio menu can be opened from any mode, including the standby mode. The menu consists of a number of default items and some items that are specific to the mode in which the menu is opened (if applicable).

To open the radio menu, press and hold the **Info / Menu button** for 2-3 seconds until a beep is heard and the menu is shown on the radio's display. Then rotate the **Tuning knob** to select an option or a value in the menus and press the **Tuning knob** to confirm your choice.

Press the **Info / Menu button** to exit the menu. If no button is pressed within 10 seconds, the radio will also exit the menu settings.

The radio's default and recommended settings are indicated using an asterisk.

The list below gives an overview of the default options that can be selected from the menu in all of the radio modes. In some of the radio modes, the menu also features additional options specific to the selected mode. These options will be listed in the chapter belonging to that specific mode later in this manual.

- **[CLOCK]:** Select this option to go to the time submenu featuring the following items:
  - [AUTO CLK]:** With this option selected, your radio will normally update the clock time automatically when tuning into a DAB station or an FM station with RDS data.
  - [MANUAL]:** Select this option to manually set the radio's time and date.
- **[TIME FMT]:** Select this option to set the 12 or 24 hour format.
- **[DATE FMT]:** Select this option to set the date format.
- **[ALARM 1]:** Your radio has 2 separate alarms. Select this option to set one of the radio's alarms.
- **[ALARM 2]:** Select this option to set another alarm for the radio.
- **[SLEEP]:** Select this option to set the radio's sleep timer.
- **[LIGHT]:** Select this option to adjust the brightness of the radio's backlight.
- **[TIMER]:** Select this option to set the radio's timer.
- **[LOUDNESS]:** Select this option to enable or disable the radio's loudness feature.
- **[RESET]:** Select this option to reset the radio to the default settings. Please note that selecting this option and subsequently selecting **[RESET Y]** will reset the radio to its factory settings and all information stored on the radio will be deleted. This includes all settings and stored preset stations.
- **[VERSION]:** Select this option to view the radio's software version.

## Setting the alarms

Your radio has two alarms, each of which can be set to wake you up to AM, FM, or DAB radio, as well as a buzzer alarm. Ensure that the current time is set correctly before setting the alarms.

When the unit is in standby or playing mode, you can set the radio alarm by pressing the **Alarm 1 button** or **Alarm 2 button** or using the **[ALARM 1]** or **[ALARM 2]** option in the radio menu. Follow these steps to set the radio's alarms:

1. Press the **Alarm 1 button** or **Alarm 2 button** to enter the corresponding alarm settings. Alternatively, open the radio menu to select **[ALARM 1]** or **[ALARM 2]** and then press the **Tuning knob** to enter the setting.
2. Rotate the **Tuning knob** to select **[ON]** or **[OFF]** to enable or disable the selected alarm. Press the **Tuning knob** to confirm. If **[OFF]** is selected, the alarm will be disabled, the alarm's indicator will no longer be shown on the radio's display, and the radio will return to the selected mode. If **[On]** is selected, the alarm hour digits will flash.
3. Rotate the **Tuning knob** to set the desired alarm hour. Then press the **Tuning knob** to confirm.
4. The alarm minute will then flash, rotate the **Tuning knob** to set the desired minute. Press the **Tuning knob** to confirm.
5. Rotate the **Tuning knob** to select the alarm frequency, the available settings here are **[Once]**, **[Daily]**, **[Weekdays]** and **[Weekends]**. Press the **Tuning knob** to confirm.
6. Rotate the **Tuning knob** to select the source that is used for the alarm (BUZZER, DAB, FM or AM). Press the **Tuning knob** to confirm. If **[BUZZER]** is chosen in this step, proceed to step 8.
7. If **[DAB]**, **[FM]** or **[AM]** is chosen in step 6, rotate the **Tuning knob** to select the desired preset station or the last listened station as the alarm station. Press the **Tuning knob** to confirm.
8. Rotate the **Tuning knob** to set the alarm volume. Press the **Tuning knob** to save the alarm settings. The alarm symbol will appear on the radio's display to indicate that the alarm has been enabled.

## Snoozing or stopping alarms

When an alarm is activated, it will start softly and gradually increase in volume (Humane Wake System), and will remain active for 60 minutes.

The alarm can be stopped by pressing the **Power button**, or snoozed for five minutes by pressing or rotating any other button (excluding the Treble and Bass control knobs and the Lock switch).

For DAB / FM / AM radio alarms, the **Volume control knob** can be used to adjust the alarm volume.

To cancel the snooze timer while the alarm is suspended, press the **Power button**.

## Setting the sleep timer

The sleep timer allows you to automatically turn off the

radio after a preset time has elapsed. Follow the steps below to set the sleep timer:

1. Press and hold the **Power / Sleep button** for 2-3 seconds to enter the sleep timer setting. Alternatively, open the radio menu to select **[SLEEP]** and then press the **Tuning knob** to enter the setting.
2. Rotate the **Tuning knob** to select the desired sleep time (15-120 minutes), then press the **Tuning knob** to confirm.
3. If you want to check the remaining time of a sleep timer, repeat step 1. To cancel a sleep timer, repeat step 1, while selecting **[OFF]** in step 2. Press the **Tuning knob** to confirm.


## Brightness control

The brightness of this unit can be adjusted when the radio is turned on or in standby mode.

1. Repeatedly press the **Brightness control button** to adjust the backlight.
2. Alternatively, open the radio menu to select **[LIGHT]**, then press the **Tuning knob** to enter the setting. Rotate the **Tuning knob** to select the backlight level and then press the **Tuning knob** to confirm.

## Timer

Use the timer function to set a countdown timer from 1 to 120 minutes, at the end of which the buzzer will sound. The buzzer will sound with gradually increasing volume (Humane Waking System).

1. Press the **Timer button** to enter the timer setting. Alternatively, open the radio menu to select **[TIMER]**, then press the **Tuning knob** to enter the setting.
2. Rotate the **Tuning knob** to adjust the setting between 1 and 120 minutes in 1 minute increment. Press the **Tuning knob** to confirm.  will appear on the LCD display.
3. To view the remaining time for an active timer setting, repeat step 1.

Press the **Power button** to deactivate and cancel a sounding timer alarm.

To cancel the timer before it sounds, repeat steps 1~2 and select **[OFF]** in step 2. Press the **Tuning knob** to confirm.

## Listening to DAB radio

### Tuning into DAB stations

To tune into DAB radio stations, follow these steps:

1. Turn on the radio by pressing the **Power button**.
2. Select the DAB radio mode by repeatedly pressing the **Mode button**.
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.

- When the full scan has completed, the radio will automatically tune into the first DAB station in the station list and play the station.
- Rotate the **Tuning knob** to browse through the station list and press the **Tuning knob** to tune into the selected station.

**Note:**

Before selecting the DAB radio mode and tuning into stations, make sure the telescopic antenna has been fully extended and positioned upright.

### The DAB radio menu

In DAB radio mode, the radio menu features five additional items specific to this mode:

- [FULL SCAN]:** Select this option to perform a full scan and store all DAB radio stations that were found in the station list. Alternatively press **Autotune button** to scan for new stations.
- [MANUAL]:** Select this option to manually tune into a DAB channel / frequency.
- [PRUNE]:** Select this option and subsequently select **[PRUNE Y]** to delete all unavailable stations from the station list.
- [ORDER]:** Select this option to configure the order of the station list. Select **[NAME]** to order stations by name, select **[ENSEMBLE]** to sort the station list by DAB multiplex, or select **[ACTIVE]** to sort the station list by active / inactive stations.
- [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.

After selecting this option, select the desired DRC setting:

**OFF (default):** DRC is switched off. Broadcast DRC will be ignored.

**LOW:** DRC level is set to 1 / 2 that sent by broadcaster.

**HIGH:** DRC is set as sent by broadcaster.

**Note:** Not all DAB broadcasts are able to use the DRC function. If the broadcast does not support DRC, then the DRC setting in the radio will have no effect.

### Showing DAB information on the display

When listening to a DAB radio station, repeatedly press the **Info / Menu button** to cycle through the following information on the radio's display:

- Station Name
- Scrolling Text
- DL Plus Text (Some stations may provide other programme related information for the display in addition to the regular text. If none is available, a message "NO INFO" is displayed.)
- Program Type
- Multiplex Name
- Date
- Frequency

- Bit Rate
- Audio Type
- Signal Strength

## Listening to FM radio

### Tuning into FM stations

To tune into FM radio stations, follow these steps:

- Turn on the radio by pressing the **Power button**.
- Select the FM radio mode by repeatedly pressing the **Mode button**.
- Rotate the **Tuning knob** clockwise or anti-clockwise and then press the **Autotune button** to automatically tune into an FM station with a higher or lower frequency respectively. 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. If RDS information is available, an RDS indicator will also be shown in the radio's display and after a few seconds the display will show the radio station name.
- Rotate the **Tuning knob** to fine-tune the frequency with steps of 0.05MHz if needed.
- 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 telescopic antenna has been fully extended and positioned upright.

### The FM radio menu

In FM radio mode, the radio menu features two additional items specific to this mode:

- [AUDIO]:** Select this option to configure playback in the FM mode. Select **[MONO]** to force mono playback, or select **[STEREO]** to allow stereo playback if available. Forcing mono playback can help reducing hiss from weak FM signals.
- [SCAN SET]:** Select this option to configure the radio's autotune feature. Select **[LOCAL]** to only have the autotune feature scan for local, strong signals, or select **[DISTANT]** to have the autotune feature scan for distant, weaker signals as well.

### Showing FM information on the display

When listening to an FM radio station that is also broadcasting RDS information (the RDS indicator is shown on the radio's display), repeatedly press the **Info / Menu button** to cycle through the following information on the radio's display:

- Station name
- Date
- Frequency
- Text message
- Program type

If no RDS information is available, the radio will be unable to display the station name, text message and program type.

## Listening to AM radio

### Tuning into AM stations

To tune into AM radio stations, follow these steps:

1. Turn on the radio by pressing the **Power button**.
2. Select the AM radio mode by repeatedly pressing the **Mode button**.
3. Rotate the **Tuning knob** clockwise or anti-clockwise and then press the **Autotune button** to automatically tune into an AM station with a higher or lower frequency respectively. 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.
4. Rotate the **Tuning knob** to fine-tune the frequency with steps of 9kHz or 10kHz if needed.
5. Repeat the steps 3 and 4 to tune into other radio stations.

#### Note:

The radio's built-in AM antenna should provide sufficient reception for normal listening. If AM reception is poor, try rotating the radio for better reception.

### The AM radio menu

In AM radio mode, the radio menu features one additional item specific to this mode:

- **[AM RANGE]:** There are 2 AM step options as below, rotate the **Tuning knob** to choose the suitable AM step and then press the **Tuning knob** to select the option.  
522-1710 (9k)  
520-1710 (10k)

### Showing AM information on the display

Repeatedly press the **Info / Menu button** to cycle through the following information on the radio's display:

- Frequency
- Date

## Presetting stations in DAB / FM / AM modes

The radio has 20 memory presets each for DAB, FM or AM modes. The preset stations can be stored into 4 memory pages and 5 presets in each memory page for DAB, FM or AM modes. They are used in the same way for each operating mode.

1. Tune to the desired station as previously described.
2. Repeatedly press the **Page button** to select the desired preset page.
3. Press and hold the desired **Preset button** (1-5) until the radio's display shows the message "SAVED". The station is now saved as a preset and the corresponding preset indicator will appear on the display.
4. Repeat this procedure as needed for the remaining presets. Preset stations cannot be deleted, but they can be overwritten by storing a new station on an already used preset.

## Recalling a preset in DAB / FM / AM modes

1. Turn on the radio by pressing the **Power button**.
2. Select your desired radio mode by repeatedly pressing the **Mode button**.
3. Repeatedly press the **Page button** to select the desired preset page.
4. Press the desired **Preset button** (1-5) to recall the desired preset station.

## Listening to music via Bluetooth streaming

In order to stream Bluetooth music to your radio, you need to pair your Bluetooth device with your DPR-45BT. Pairing creates a 'bond' so two devices can recognize each other.

### Pairing your Bluetooth device for the first time

1. Turn on the radio by pressing the **Power button**.
2. Repeatedly press the **Mode button** to select the Bluetooth mode.  
  
The radio's display will show the message "PAIRING" and the Bluetooth LED indicator will blink blue to indicate that the radio is available for Bluetooth pairing.
3. Activate Bluetooth on your Bluetooth device (refer to the manual of the Bluetooth device if you are unsure about how to activate Bluetooth).
4. Go to the Bluetooth list on your Bluetooth device and select the device named "DPR-45BT".

#### Note:

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

5. After the devices have paired and connected, a confirmation tone will be played on the radio and the radio's display will show the name of the connected Bluetooth device. You can now play music on your Bluetooth device and stream the music through the radio's speaker.

#### 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 "DPR-45BT" 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 DPR-45BT.

### 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 your connected Bluetooth device.

1. Once playback has started, adjust the volume to the desired setting using the **Volume control** on your radio or the connected Bluetooth device.
2. Playback can also be controlled using the controls on your Bluetooth device and on the radio.

Press the radio's **Play / Pause button** to start or pause playback.

Press the **Next track** or **Previous track button** to select the desired track.

Press and hold the **Next track** or **Previous track button** to fast forward or rewind within a track. Release the button when the desired point within the track 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 DPR-45BT can memorize up to 8 sets of paired Bluetooth devices. Once more than 8 devices are memorized, the earliest device with which the radio was paired will be overwritten in the radio's memory.

If your Bluetooth source device has previously paired with the DPR-45BT, the radio will still remember your Bluetooth device and attempt to reconnect with the device that was last connected.

### Disconnecting your Bluetooth device

Press and hold the **Bluetooth pairing button** to disconnect the radio from your Bluetooth device.

You can also press the **Mode button** to select any mode other than Bluetooth mode or turn off Bluetooth on your Bluetooth source device to disable the connection.

If you disconnect from the Bluetooth device in the Bluetooth mode, a confirmation tone will be played and the radio's Bluetooth LED indicator will flash blue to indicate that the radio is available again for pairing.

### The Bluetooth menu

In Bluetooth mode, the radio menu features one additional item specific to this mode:

- **[CLR LIST]:** Select this option, then choose "YES" to clear all Bluetooth pairings, or "NO" to keep them.

### Showing Bluetooth information on the display

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

- Device name
- Date
- Artist
- Title
- Album

### Treble / Bass control

Rotate the **Treble** or **Bass control knob** to adjust the treble or bass of the radio sound.

### Lock switch

The Lock switch is used to prevent unintentional operation of your radio.

When the **Lock switch** is set to the lock position  , the radio will not respond to any user input and the display will show "LOCK". To release the lock, slide the **Lock switch** down to the unlock position. The display will show "UNLOCK" and the radio can be operated again using its buttons.

### Headphone socket

A 3.5mm stereo Headphone Socket is provided on the right hand side of your radio for use with headphones. Inserting a plug automatically mutes the internal loudspeaker.

Please be aware that the sensitivity of headphones can vary widely. We therefore recommend setting the volume to a low level before connecting headphones to the radio.

#### IMPORTANT:

Excessive sound pressure from earphones and headphones can cause hearing loss.

To prevent possible hearing damage, do not listen at high volume levels for long periods of time.

### Reset button

Unlike the "RESET" option in the radio menu, which restores the original settings of the radio, the purpose of the **Reset button** located on the bottom of the radio is to force restart the radio in the event of a system failure or a software crash.

**Note:** Pressing this button will not restore the original factory settings.


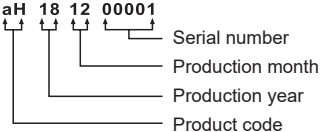


## Specifications

Power Source	
AC Power	230V ~ 50Hz / 9W
Battery	4 X 1.5V Size"D" / AM-1 / LR20
Frequency Coverage	
DAB (BAND III)	5A - 13F (174.928MHz - 239.200MHz)
FM	87.5-108 MHz
AM	522-1710 kHz (9k)
	520-1710 kHz (10k)
Bluetooth	
Bluetooth Specification	Bluetooth Ver 5.2
Profile Support	A2DP, AVRCP
Bluetooth Audio Codec	SBC, AAC
Transmitting Power	Class 2
Line of Sight Range	10meters / 30feet
The Frequency And Maximum Transmitted Power	2402MHz ~ 2480MHz: -1.95dBm (Bluetooth EDR)
Circuit Features	
Speaker	5" 4Ω
Speaker Output Power	3W
Headphone Socket	3.5mm diameter
Antenna System	DAB / FM telescopic antenna
	AM Built-in ferrite antenna
Operating Temperature Range	
	0°C to 40°C

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

	
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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.