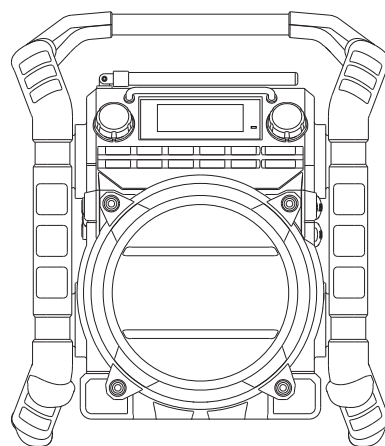
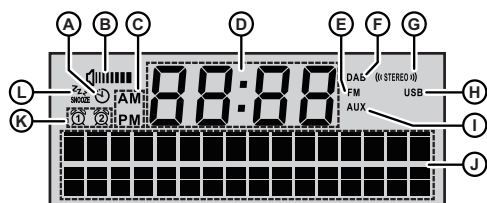
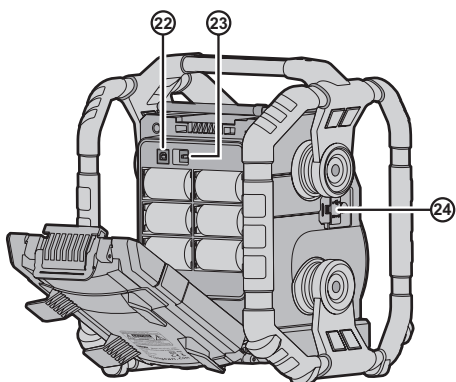
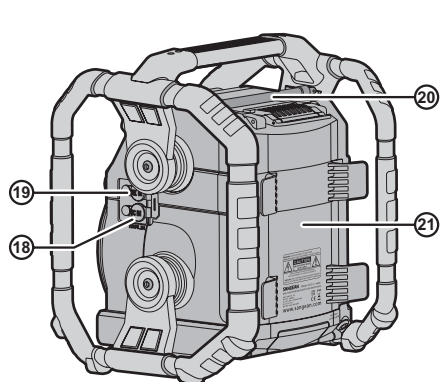
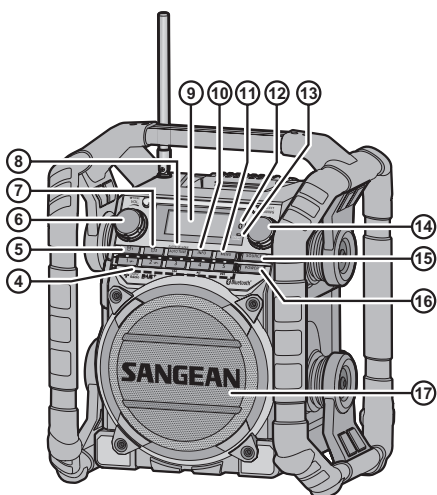
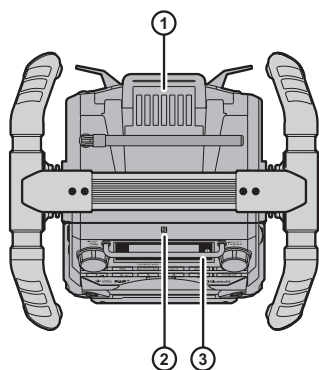


U4 DBT+



GB


Revision 1





The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by SANGEAN ELECTRONICS INC. is under license.

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. This apparatus is provided with protection against splashing water and dust ingress (IP65).

⚠ 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.

Important information on charging and using rechargeable batteries

1. Recharge the batteries in any case at least every 2 months.
2. Make sure the Battery Select switch next the battery compartment is set to the "CHARGE NIMH ON" position.
3. Put the batteries in the compartment whilst paying attention to the correct polarity of the batteries (+ and -).
4. First use: Charge new batteries in one continuous, uninterrupted, charge until they are full. This first charge may take longer than normal. For longer battery life it is advised to always recharge in one continuous, uninterrupted charge until batteries are full and to not recharge again whilst the batteries are still full.
5. New batteries will only reach their full capacity after some time of use (several charge – discharge cycles).
6. Leave the complete group of batteries in place inside the radio and do not use these batteries or a few of them for other purposes. This will result in a mix of (fully) charged and (partly) empty batteries. This can seriously damage the batteries and radio when recharged.
7. It is advised to only charge batteries at room temperatures between 5 degrees C – 35 degrees C. In lower or higher temperatures full charge cannot be achieved.
8. Depending on the capacity of the batteries, charging from "empty" to "full" can take several hours, even up to 10 hours or more.
9. Do not charge batteries when the radio is hot or exposed to heat or heat sources.

GB

F

E

NL

D

10. It is advised to clean the metal contacts of the batteries and of the charger inside the radio e.g. with a contact-spray from time to time.
11. Do not use a mix of old and new rechargeable batteries.
12. Do not use a mix of rechargeable and non-rechargeable batteries.
13. Do not use a mix of full and empty rechargeable batteries.
14. Do not use batteries that have a different mAh capacity.
15. Do not use damaged, deformed or leaking batteries.
16. Battery level indication is an approximate indication only and can vary with battery type used.
17. Batteries can become hot during charging.
18. In cold conditions the capacity of batteries will be much lower than when used at normal room temperature.
19. Batteries (even when supplied with the radio), as being consumables, do not fall under the warranty conditions of the radio.
20. Batteries should not be disposed of by incineration and with household waste.

21. Disposable batteries should be taken to a suitable recycling centre if possible.

22. **⚠ CAUTION**
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Controls

- 1 Battery locker
- 2 NFC detection tag
- 3 Display protection bar
- 4 Preset button
(Preset 1: Folder down button
Preset 2: Folder up button
Preset 3: Rewind button
Preset 4: Play / Pause button
Preset 5: Fast-forward button)
- 5 Alarm 1 button
- 6 Volume control / Tone control
- 7 Alarm 2 button
- 8 Auto tune button / Bluetooth pair button / Play mode button
- 9 LCD display

- 10 Info button
- 11 Menu button
- 12 Bluetooth status indicator
- 13 Charging / Low battery indicator
- 14 Tuning control / Select
- 15 Source button
- 16 Power button
- 17 Speaker
- 18 DC in socket
- 19 Auxiliary input socket
- 20 Rod antenna
- 21 Battery compartment
- 22 Socket for software upgrade
- 23 NiMH / Alkaline batteries switch
- 24 USB socket

LCD Display

- A Sleep indicator
- B Volume indicator
- C AM / PM time indicator
- D Clock digits
- E FM mode indicator
- F DAB mode indicator
- G Stereo indicator
- H USB mode indicator
- I Aux in indicator
- J Two line text display
- K Alarm 1 and 2 indicator
- L Snooze indicator

Power the radio

Battery operation

⚠ NOTE

No batteries are included with this radio.

Pull out the battery compartment locker to release battery compartment. Insert 6 x D size (AM-1) battery into the compartment.

Ensure the battery is inserted in accordance with the diagram shown.

Return the battery locker to the original position. If the radio is not to be used for any extended period of time, it is recommended that the battery is removed from the radio.

● Battery operation using alkaline batteries

1. Before you insert the batteries, if you use non-rechargeable batteries, make sure the NiMH / Alkaline switch which located inside the battery compartment is switched to Alkaline position. If you use rechargeable batteries, make sure to switch NiMH / Alkaline switch to NiMH position.
2. Reduced power, distortion and a "stuttering sound" are all signs that the batteries need replacing.

● Battery operation using rechargeable batteries

1. Slide the battery switch to the NiMH position.
2. Insert 6 AM-1 batteries into spaces in the compartment. Make sure all batteries are inserted with the correct polarity as shown on the rear cabinet. The radio is also designed to be used with NiMH rechargeable batteries.
3. Make sure the radio is switched off and connected to the AC mains socket. When the charge indicator flashes yellow indicating batteries are charging. Batteries will be fully charged in around 10 hours. The battery shows steady yellow light when the battery charging is complete.

⚠ NOTE

Duration for charging your battery fully can be varied according to the mAh capacity of a battery. Higher mAh batteries required longer charging time.

⚠ IMPORTANT

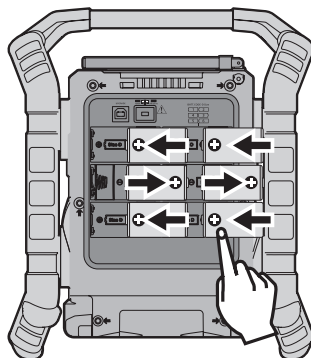
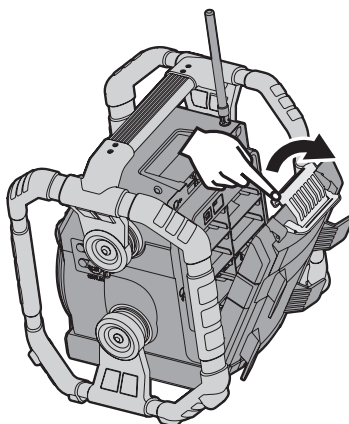
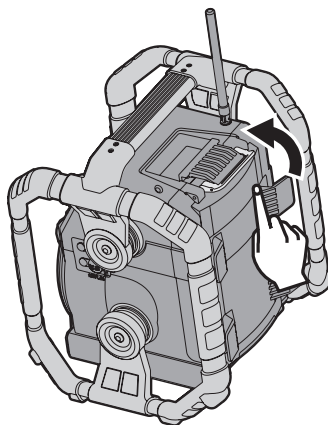
Under some conditions the charging LED indicator may switch off after flashing briefly. This may happen if the batteries are already freshly charged, or if the radio detects that you may be attempting to recharge alkaline batteries or mixed different types or capacity of rechargeable battery. In these cases the charging will be stopped.

AC operation

Before you plug the AC cord into the AC socket, be sure the voltage is correct. If you have batteries in the radio and use the AC power cord, the batteries will automatically be disconnected. AC cable hook is designed to store the cord when the radio is not in use.

⚠ IMPORTANT

The mains plug is used as the means of connecting the radio to the mains supply. The mains socket used for the radio must remain accessible during normal use. In order to disconnect the radio from the mains completely, the mains plug should be removed from the mains outlet completely.



GB

F

E

NL

D

Powered via DC IN socket

The radio can be also powered via the DC IN socket which can allow 12 Volt DC, which is designed to be powered by the vehicle or the boat so you can take the radio with you outdoors or on the boat.

An additional cigarette lighter cable is required (not supplied) for this device.

⚠ NOTE

Never use the 12 Volt socket in rainy or moist conditions to prevent moist from entering the radio. Always keep the rubber cover on the back well closed under these conditions.

⚠ NOTE

If no controls are used and no sound output from the radio for 15 minutes, the radio will be put into standby mode when using the mains power. When the radio is operated on battery power, the radio will be switched off completely in order to minimize battery usage.

Battery charging status indicator

Please note that the battery charging status detection can only be activated when the radio is in charging mode (i.e. the radio is switched off, the battery switch slides to the NiHM position and it is connected to the AC mains socket).

1. When charging is in progress, display is shown at right and the charging indicator flashes yellow.

14:21
Battery 123456
Charging ■■■■■■

2. When the charging process is completed, the charging indicator lights in steady yellow.

14:22
Battery Full

If batteries are already fully charged, display is shown at right and it will switch to standby mode after 5 seconds.

3. When there is no battery / missing batteries in the compartment or some of batteries are inserted with the incorrect polarity, display is shown at right and it will enter standby screen after 5 seconds.

14:21
No Cell

⚠ NOTE

If a battery is removed while charging, display is shown at right and the charging indicator lights red.

4. During the charging process, if a battery is detected as faulty / damaged, a solid square will be displayed under the corresponding battery number (see picture, right) and the charging indicator flashes red.

00:00
Battery 123456
Error ■■■■■■

Using DAB for the first time – DAB

1. Straighten up the antenna.
2. Press the Power button to switch on the radio. If the radio has been used before the last used mode will be selected.
3. Press and release the Source button to select DAB mode. The display will show DAB for a few seconds.

4. If this is the first time the radio is used a quick scan of the DAB Band III channels may be carried out. The display will show 'Scanning' (If the radio has been used before the last used station will be selected instead.) 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.

5. When scanning is completed the radio will list the stations found (in numeric-alpha order 0...9...A...Z), unless it has previously been tuned to a DAB station. Rotate the Tuning control to scroll through the list of available DAB radio stations. Press the Tuning control to select the highlighted station. When a DAB station is found, the display will show the station name on the upper line of the text display and broadcast information on the lower line. Use the Volume control to set the sound level as needed.

6. If the station list is still empty after the scan the display will show 'No DAB Station' then return to the DAB menu. If no stations are found it may be necessary to relocate your radio to a position giving better reception.

Selecting a station – DAB

1. When playing a DAB radio station, the display normally shows the name of the current station with other related information.
2. Rotate the Tuning control to access the radio station list and scroll through the available stations.
3. Press the Tuning control to select the desired station.
4. Use the Volume control to set the sound level as needed.

⚠ NOTE

If the display shows 'Service Not Available' it may be necessary to relocate your radio to a position giving better reception.

A question-mark in front of the station name merely indicates that the station has not recently been detected by the radio. It may still be available.

Secondary services – DAB

1. Certain radio stations may have one or more secondary services associated with them. If a station has a secondary service associated with it the display will show ">>" next to the station name on the station list. The secondary service will then appear immediately after the primary service as you rotate the Tuning control.
2. Press and release the Tuning control to select the station. Most secondary services do not broadcast continually and if the selected service is not available, the radio will re-tune to the associated primary service.

Display modes

Your radio has a range of display options when in DAB mode:-

1. Press the Info button to cycle through the different options.

Text	Displays text messages such as the artist or track name, phone in number, traffic alerts, etc.
Program Type	Displays the type of station being listened to such as Pop, Classic, News etc.
Multiplex Name	Displays the name of the DAB multiplex to which the current station belongs.
Time	Displays the current Time.
Date	Displays the current date.
Frequency & channel	Displays frequency and channel number for the currently tuned DAB station.
Bit rate and audio type	Displays the digital bit rate and audio coding information for the station being listened to.
Signal strength	Displays the signal strength of radio reception. The clear unfilled rectangle indicates minimum signal level required for satisfactory reception.
Signal error	Displays the signal error for the station being listened to. A lower error number indicates a better quality of radio signal.

Finding new stations – DAB

From time to time, new DAB radio stations may become available. Or you may have moved to a different part of the country. In this case you may need to cause your radio to scan for new stations.

1. Press and release the Menu button until the Advanced DAB menu shows on the display.
2. Rotate the Tuning control until 'Full Scan' is shown on the display.
3. Press the Tuning control to initiate the scan. The display will show 'Scanning' and your radio will perform a scan of the DAB Band III frequencies. As new stations are found the station counter will increase and stations will be added to the list. The bar graph indicates the progress of the scan.
4. Alternatively press Auto tune button to scan for new stations.

Manual tuning – DAB

Manual tuning allows you to tune your radio to a particular DAB frequency in Band III. Any new stations found will be added to the station list. This function can also be used

to assist the positioning of the antenna or the radio to optimize reception for a specific channel or frequency.

1. Press and release the Menu button until the Advanced DAB menu shows on the display.
2. Rotate the Tuning control until the display shows 'Manual Tune'.
3. Press and release the Tuning control to enter the manual tuning mode.
4. Rotate the Tuning control to select the desired DAB channel.
5. Press and release the Tuning control. The open block in the signal strength graph shows the minimum signal strength needed for good DAB reception. The signal blocks will go up and down showing the changing signal strength as you adjust the antenna or the radio position. Any new radio stations found on the tuned DAB multiplex will be added to the list stored in the radio.
6. Press and release the Tuning control to return to normal tuning mode.

Dynamic Range Control (DRC) – DAB

The DRC facility can make quieter sounds easier to hear when your radio is used in a noisy environment.

There are three levels of compression:

DRC Off: No compression applied. (default).

DRC High: Maximum compression applied.

DRC Low: Medium compression applied.

1. Press the Power button to switch on your radio.
2. Press and release the Source button until the DAB band is selected.
3. Press and release the Menu button until the Advanced DAB menu shows on the display.
4. Rotate the Tuning control until 'DRC' appears on the display. Press and release the Tuning control. The display will show the current DRC value which will be marked with an asterisk.
5. Rotate the Tuning control to select the required DRC setting (default is off).
6. Press and release the Tuning control to confirm the setting. After several seconds the display will return to the normal radio display.

⚠ 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.

Station order setup

Your radio has 3 station order settings from which you can choose. The station order settings are alphanumeric, ensemble and valid.

⚠ NOTE

The default station order on your radio is alphanumeric.

GB

F

E

NL

D

GB
F
E
NL
D

1. Press the Power button to switch on your radio.
2. Press the Source button as needed to select DAB radio mode.
3. Press the Menu button to enter the Advanced DAB menu shows on the display.
4. Rotate the Tuning control until 'Station Order' is shown on the display.
5. Press the Tuning control to enter the station order adjustment mode.
6. Rotate the Tuning control to choose 'Alphanumeric', 'Ensemble' or 'Valid'.
'Alphanumeric' - sorts the station list alpha-numerically 0...9 A...Z.
'Ensemble' - organizes the station list by DAB multiplex.
'Valid' - shows only those stations for which a signal can be found.
The current setting is indicated by an asterisk.
7. Press the Tuning control to select the required station order.

Prune stations – DAB

Over time, some DAB services may stop broadcasting, or may change location and then not be able to receive a station. In order to remove such stations from the DAB station list, the Prune stations function will delete the DAB stations from your station list that can no longer be received.

Stations which cannot be found or which have not been received for a very long time are shown in the station list with a question mark.

1. Press the Power button to switch on your radio.
2. Press and release the Source button until the DAB mode is selected.
3. Press and release the Menu button until the Advanced DAB menu shows on the display.
4. Rotate the Tuning control until 'Prune' appears on the display. Press and release the Tuning control to enter the setting.
5. Rotate the Tuning control to highlight 'Yes'. Press and release the Tuning control to cause the stations list to be pruned, eliminating unavailable stations.
6. If you do not wish to prune stations highlight 'No' in step 5 and then press and release the Tuning control. The display will revert back to the previous display.

NOTE

If you have moved to a different part of the country you should also carry out a search for new stations (please see the section 'Finding new stations' in the previous section).

Operating your radio – FM auto-tune

1. Straighten up the antenna.
2. Press the Power button to switch on your radio.
3. Press and release the Source button until the FM band is selected.

4. To scan up in frequency, first rotate the Tuning control knob in a clockwise direction and then press the Auto tune button. Your radio will scan in an upwards direction (low frequency to high frequency) and stop automatically when it finds a station of sufficient strength.

To scan down in frequency, first rotate the Tuning control knob in an anti-clockwise direction and then press the Auto tune button. Your radio will scan in a downwards direction and stop automatically when it finds a station of sufficient strength.

5. After a few seconds the display will update. The display will show the frequency of the signal found. If the signal is strong enough and there is RDS data present then the radio may display the station name.
6. To find other stations press the Auto tune button as before. When the end of the waveband is reached, your radio will recommence tuning from the opposite end of the waveband.
7. Adjust the Volume to the required setting.
8. To switch off your radio, press the Power button.

NOTE

If you find that FM reception is poor, try repositioning the antenna.

Manual tuning – FM

1. Straighten the antenna.
2. Press the Power button to switch on your radio.
3. Press and release the Source button until the FM band is selected.
4. Rotate the Tuning control to tune to a station. The frequency will change in steps of 50kHz. If the radio is tuned to a station of sufficient signal strength with RDS information present, then the display may change to show the station name.
5. When the waveband end is reached the radio will recommence tuning from the opposite waveband end.
6. Set the Volume to the desired setting.

Display options – FM

Your radio has a range of display options for FM mode:- The Radio Data System (RDS) is a system in which inaudible digital information is transmitted in addition to the normal FM radio programme. RDS offers several useful features. The following are available on your radio.

1. Press and release the Info button to cycle through the various options.

Scrolling text	Displays scrolling text messages such as artist / track name, phone in number, etc.
Programme type	Displays type of station being listened to e.g. Pop, Classic, News, etc.
Frequency	Displays the frequency of the station being listened to.
Time	Displays the current Time.

Date	Displays the current date.
------	----------------------------

⚠ NOTE

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

Scan sensitivity setting – FM

Your radio includes a local / distant option for the auto-scan function. By setting the radio to the 'local' scan option, weaker signals from more distant transmitters can be ignored by the radio, making stronger signals easier to find.

1. Press and release the Power button to switch on your radio.
2. If needed, press and release the Source button until the FM band is selected.
3. Press and release the Menu button until the Advanced FM menu shows on the display.
4. Rotate the Tuning control until 'FM Scan Zone' shows on the display. Press and release the Tuning control to enter the scan sensitivity adjustment mode. The current setting will be marked with an asterisk.
5. Rotate the Tuning control to switch between 'Local' (Strong stations only) and 'Distant' (All stations) options on the lower line of the display. The Distant option will allow the radio to find weaker signals when scanning.
6. Press and release the Tuning control to confirm your selection. The Local or Distant setting is stored in the radio and remains in force until changed or until a System Reset.

Presetting stations – DAB and FM

You may store your preferred DAB and FM radio stations to the preset station memories. There are 10 memory presets in your radio 5 for DAB and 5 for FM. Presets are memorized by your radio in the event of a power failure. The procedure for setting presets and using them to tune stations is the same for FM and DAB mode, and is described below.

1. Press the Power button to switch on the radio.
2. Press the Source button to select the DAB or FM waveband.
3. Tune to the required station as previously described.
4. Press and hold the Preset button until the display shows, such as, 'Preset 1 stored.' The station will be stored under the chosen preset button. Repeat this procedure as needed for the remaining presets. Stations stored in preset memories may be overwritten by following the above procedure.

Recalling a preset station – DAB and FM

1. Press the Power button to switch on the radio.

2. Press and release the required waveband by pressing the Source button.
3. Press and release the required Preset button to cause your radio to tune to the station stored in preset memory.


⚠ NOTE

The display will show 'Preset Empty' if no station has been stored to that preset.

Listening to music via Bluetooth streaming

You need to pair your Bluetooth device with your radio before you can auto-link to play / stream Bluetooth music through your U4 DBT+. Pairing creates a 'bond' so two devices can recognize each other.

Pairing your Bluetooth device for the first time

1. Press the Power button to switch on the radio.
2. Press the Source button to select the Bluetooth mode. The Bluetooth status indicator () on the panel flashes blue to show the radio is discoverable.
3. Activate Bluetooth on your device according to the device's user manual to link to the radio. Locate the Bluetooth device list and select the device named 'U4 DBT+'. With some mobiles (which are equipped with earlier versions than BT2.1 Bluetooth device, you may need to input the pass code "0000").
4. Once connected, the Bluetooth icon will remain in solid blue. You can simply select and play any music from your source device. Volume control can be adjusted from your source device, or directly on your radio.

⚠ NOTE

1. If 2 Bluetooth devices, pairing for the first time, both 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.
2. If you take your source device out of range, the connection will be temporarily disconnected to your radio. Your radio will automatically reconnect if the source device is brought back in range. Be aware that during the period of disconnection, no other Bluetooth device can pair or link with your radio.
3. If 'U4 DBT+' shows in your Bluetooth device list but your device cannot connect with it, please delete the Sangean U4 DBT+ item from your list and pair the device with the radio again following the steps described previously.
4. The effective operation range between the system and the paired device is approximately 10 meters (30 feet). Any obstacle between the system and the device can reduce the operational range.
5. Bluetooth / NFC connectivity performance may vary depending on the connected Bluetooth devices. Please refer to the Bluetooth capabilities of your device before connecting to your radio. All features may not be supported on some paired Bluetooth devices.

GB

F




E

NL

D

Playing audio files in 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 playing has started adjust the volume to the required setting using the Volume control on your radio or on your enabled Bluetooth device.
2. Use the controls on your device to play / pause and navigate tracks. Alternatively, control the playback using Play / Pause , Next track , Previous track  buttons on the radio.
3. Press and hold the Fast-forward / Rewind button to move through the current track. Release the button when the desired point is reached.

NOTE

1. That not all player applications or devices may respond to all of these controls.
2. Some mobile phones may temporarily disconnect from your radio when you make or receive calls. Some devices may temporarily mute their Bluetooth audio streaming when they receive text messages, emails or for other reasons unrelated to audio streaming. Such behaviour is a function of the connected device and does not indicate a fault with your radio.

Bluetooth display options

Your radio has a range of display options when in Bluetooth mode.

Press the Info button to cycle through the different options. If your connected device is able to provide information from the track being played, your radio can display the following in Bluetooth mode: Title, Artist, Album, Time and Date details.

Please note that the availability of information depends on the specific media format.

Pairing a different device to your radio

Before pairing another device to the radio, you need to make the radio discoverable.

1. Press and hold the Bluetooth pair button to make the radio discoverable again and the Bluetooth status indicator flashes.
2. Follow step3-4 in the previous section of Pairing your Bluetooth device for the first time.

Playing previously-paired devices

This unit can memorize up to 8 sets of paired device, when the memory exceed this amount, the earliest paired device will be over written.

If your Bluetooth device already paired with the radio previously, the unit will memorize your Bluetooth device and it attempts to reconnect with a device in memory which is last connected. If the last connected device is not available, the radio will be discoverable.

Alternatively, you can select your required Bluetooth device in the memory, as following:

Press and release the Bluetooth pair button to enter the Bluetooth device memory. Then rotate the Tuning control to find the desired memorized Bluetooth device and press the Tuning control to connect to the required Bluetooth device.

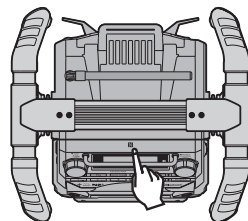
Disconnecting your Bluetooth device

Press the Source button to select any bands other than Bluetooth band. Alternatively, press and hold the Bluetooth pair button to disconnect the link.

If you disconnect the Bluetooth device when you are in Bluetooth mode, the LED light for Bluetooth icon will then start to flash indicating Bluetooth is discoverable again for pairing.

Pairing and playing your device via NFC

U4 DBT+ is equipped with wireless NFC (Near Field Communication) feature, allowing playing NFC-enabled devices to pair and play the music. For non-NFC devices, please refer to the above sections for standard Bluetooth pairing.



1. Turn on your NFC feature on your device.

IMPORTANT

Please make sure the screen of your playing device is on and unlocked to allow NFC to work.

2. Touch the NFC area of your playing device against the NFC area marked on top panel of U4 DBT+. The unit will turn on and enter automatic pairing mode. If you pair with U4 DBT+ for the first time, your NFC-enabled device will be asked the permission to link with the radio. Once paired with a device, the Bluetooth icon will remain illuminated.
3. Use the controls on your device or on your radio to play / pause and navigate tracks.

NOTE

1. If you would like to link a different Bluetooth device for the first time via NFC, disconnect the currently-linked Bluetooth device first.
2. The location of the NFC detection area is not the same on all devices. When connecting with other Bluetooth device via NFC, refer to the User guide of your Bluetooth device for more information.
3. Some of metallic case or cover for mobile phones may reduce the sensitivity of NFC. Make sure you remove it, before activating the NFC.

Disconnecting your NFC-enabled device

To disconnect your device, simply touch it again on the top of the unit. The LED light for Bluetooth icon will then start to flash indicating your radio is discoverable again for pairing.

IMPORTANT

Please make sure the screen of your playing device is on and unlocked to allow NFC to work.

Alarms


Your radio has 2 separate alarms which can be set to wake you to DAB, FM radio or buzzer alarm. Each alarm can be set to sound once, daily, on weekdays or at weekends. The alarms can be set whether the radio is on or in standby mode. In the event of a power interruption your radio has a built in memory chip that will maintain your alarm settings for when the power is restored.

Ensure that the time is set correctly before setting the alarms.

⚠ NOTE

If no buttons are pressed for a while, the radio will exit the alarm setup.

Setting an alarm

1. Press and release the Alarm 1 button to enter the setting, 'Alarm 1 Setup' will show on the display and alarm 1 icon  will flash on the display. Or press and release the Alarm 2 button to enter alarm 2 setting.

⚠ NOTE

If the time is not set before setting the alarms, "Time is not set" will show on the display. Then use the Tuning control to set the time and date. When the setting is complete, proceed to step 2.

2. Press the Tuning control to enter the setting menu.
3. Rotate the Tuning control to select On or Off. If Off is selected any current setting for that alarm will be cancelled. With 'On' selected, press and release the Tuning control to cause the alarm hour digits to flash on the display.
4. Rotate the Tuning control to choose the desired hour for the alarm and then press the Tuning control to cause the alarm minute digits to flash on the display.
5. Rotate the Tuning control to choose the desired minute for the alarm and then press the Tuning control. If the radio has been set to the 12 hour clock format, there will also be an option here for setting AM or PM for the alarm time. Rotate the Tuning control to select AM or PM. Press the Tuning control to confirm the setting.
6. The alarm duration will flash on the display. Rotate the Tuning control to choose the alarm duration. Choose between 15, 30, 45, 60, 90 or 120 minutes. Press and release the Tuning control to confirm the alarm duration.
7. The alarm source option will flash on the display. Rotate the Tuning control to choose the desired source for the alarm (DAB, FM, Buzzer). Press the Tuning control when the desired source alarm is shown on the display. For which ever radio mode is selected, the radio alarm may be set to any of the stations which have been stored as presets or to the station last listened to.
8. Press and release the Tuning control to confirm the selection. The alarm day option will flash on the display.

9. Your alarm can be set to sound once, daily, weekdays and weekends.


Once - Will sound at one time only.

Daily - Will sound every day.

Weekdays - Will sound only on weekdays.

Weekends - Will sound only on weekends.

10. Rotate the Tuning control to choose the day option and then press and release the Tuning control to confirm the setting.
 - If setting alarms to daily, weekdays or weekends proceed to point 14.
 - If selecting the alarm to once you will need to set the day, month and year options as described from step 11 -13.
 11. Rotate the Tuning control to select the correct day and then press the Tuning control to confirm the setting.
 12. Rotate the Tuning control to select the correct month and then press the Tuning control to confirm the setting.
 13. Rotate the Tuning control to select the correct year and then press the Tuning control to confirm the setting.
 14. Rotate the Tuning control to choose the desired volume and press the Tuning control to confirm the setting. Your radio will show 'Alarm Saved' and will exit the alarm setting procedure.
- ### ⚠ NOTE

Active alarms are indicated in the display by the alarm symbol (e.g. ). If the radio cannot connect to the radio station, buzzer alarm will be used instead. The alarm will sound for the selected duration unless cancelled.
- ## Cancelling alarms
1. While an alarm is sounding, it can be cancelled by pressing the Power button.
 2. To cancel the alarm before going off, enter the alarm setting wizard and set the alarm On / Off option to 'Off' (Please refer to previously described 'setting an alarm' section). Alternatively, press the required alarm button and rotate the Tuning control to select 'off.' Press the Tuning control to confirm the setting.
- ## Snooze
1. When the alarm sounds, press any button other than the Power button will silence the alarm for 5 minutes. Remaining snooze time will show on the display.
 2. You can also select your required snooze time, as following:
 - a. Access the menu for the current mode by pressing the Menu button.
 - b. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.

GB

F

E

NL

D

c. Rotate the Tuning control until 'Snooze Duration' appears on the display. Press and release the Tuning control.

d. Rotate the Tuning control to select the desired snooze time. The options are 5, 10, 15, 20 minutes. Press and release the Tuning control.

3. To cancel the snooze time while the alarm is suspended, press the Power button.

Sleep function

Your radio can be set to turn off after a preset time has elapsed. The sleep setting can be adjusted between 15, 30, 45, 60, 90 and 120 minutes.

1. Access the menu for the current mode by pressing the Menu button.

2. Rotate the Tuning control until 'Sleep' is shown on the display. Press the Tuning control to enter the setting menu.

3. Rotate the Tuning control to select the desired sleep time. The options are 15, 30, 45, 60, 90, or 120 minutes. Use the 'Sleep Off' option to cancel the sleep function. Press the Tuning control to confirm the setting.

4. Your radio will switch off after the preset sleep time has elapsed.

5. To cancel the sleep function before the preset time has elapsed, either set the sleep timer to off (step 1-3) or press the Power button.

Automatically updating the clock

1. Press the Power button to switch on your radio.

2. Press and release the Menu button until the Advanced menu of the current mode shows on the display.

3. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.

4. Rotate the Tuning control until 'Time' appears on the display. Press and release the Tuning control.

5. Rotate the Tuning control until 'Auto Update' appears on the display. Press and release the Tuning control.

6. Rotate the Tuning control to choose an update option from 'Update from Any', 'Update from DAB', 'Update from FM' or 'No Update' as required. The current update option will be marked with an asterisk. Press and release the Tuning control to confirm your choice. The radio will exit to the previous menu.

NOTE

If you select 'Update from Any', 'Update from DAB', 'Update from FM' the current time received will be displayed. If no signal is found you should either position the radio or its antenna so that a signal can be received, or revert to manual clock mode.

Setting the clock manually

Your radio will set its clock automatically using the DAB or FM radio signal. If no signal is available and you need to set the time manually, please follow the procedure shown below.

1. Press the Power button to switch on your radio.

2. Press and release the Menu button until the Advanced menu of the current mode shows on the display.

3. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.

4. Rotate the Tuning control until 'Time' appears on the display. Press and release the Tuning control.

5. Rotate the Tuning control until 'Set Time / Date' appears on the display.

6. Press and release the Tuning control. The hour digits will flash on the display.

7. Rotate the Tuning control to set the desired hour. Press and release the Tuning control.

8. The minute digits will flash on the display. Rotate the Tuning control to set the desired minute. Press and release the Tuning control.

- 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 control to select AM or PM. Press the Tuning control to confirm the setting.

9. If the radio has been set to use a DD-MM-YYYY date format (for example). The day will flash on the display. Rotate the Tuning control to change the day as needed. Press and release the Tuning control.

10. The month will flash on the display. Rotate the Tuning control to set the current month. Press and release the Tuning control.

11. The year will flash on the display. Rotate the Tuning control to set the current year. Press and release the Tuning control to confirm the clock setting. The display will show 'Time Setup Saved' then exit the menu.

NOTE

If the radio has been set to use a MM-DD-YYYY date format, follow the steps above to set the month / day / year setting.

Setting the time format

The display used in standby mode and when the radio is in use can be set to 12 or 24 hour format. The selected format is then also used when setting the alarms.

1. Press the Power button to switch on your radio.

2. Press and release the Menu button until the Advanced menu of the current mode shows on the display.

3. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.

4. Rotate the Tuning control until 'Time' appears on the display. Press and release the Tuning control.
5. Rotate the Tuning control until 'Set 12 / 24 Hour' appears on the display. Press and release the Tuning control.
6. Rotate the Tuning control to select either 12 or 24 hour format. The current hour format will be marked with an asterisk. Press and release the Tuning control. If the 12 hour clock format is chosen, the radio will then use the 12 hour clock for setting of alarms, and will display a 12 hour clock with an AM or PM indicator.

Setting the date format

1. Press the Power button to switch on your radio.
2. Press and release the Menu button until the Advanced menu of the current mode shows on the display.
3. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.
4. Rotate the Tuning control until 'Time' appears on the display. Press and release the Tuning control.
5. Rotate the Tuning control until 'Set Date Format' shows on the display. Press and release the Tuning control.
6. Rotate the Tuning control to select your desired date format. The current format will be marked with an asterisk. Press and release the Tuning control.

Language function

Your radio can be configured to a different language.

1. Press the Power button to switch on your radio.
2. Press the Menu button until the Advanced menu of the current mode shows on the display.
3. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.
4. Rotate the Tuning control until 'Language' appears on the display.
5. Press and release the Tuning control to enter the language adjustment menu.
6. Rotate the Tuning control until your desired language appears on the display.
7. Press and release the Tuning control to confirm your choice. The display will change to the chosen language.

Equalizer function

The sound of your sound system can be adjusted to suit your personal taste for the material that you are listening to. Your radio has six preset equalizer modes. Alternatively, you may set the treble and bass levels to your own preferences.

1. Press the Volume control and rotate the Tuning control to cycle through the various modes. Press the Tuning control to confirm the option.
 - a. My EQ (Treble / Bass - tone setting may be adjusted / Loudness / off may be adjusted)

- b. Normal-no tone modification is applied
- c. Classic
- d. Jazz
- e. Pop
- f. Rock
- g. Speech

Set up my EQ profile

If you find the preset equalizer functions not to your liking, you may set up a custom treble and bass as following:

1. Press the Volume control to enter EQ menu.
2. Rotate the Tuning control until 'My EQ...' is shown on the display. Press the Tuning control to enter the adjustment mode.
3. Rotate the Tuning control until 'Treble' is shown on the display. Press the Tuning control to enter the treble adjustment mode.
4. Rotate the Tuning control to adjust the treble level (between -5 and +5). The sound will change as you adjust the level. Press the Tuning control to confirm the setting. The display will then revert to My EQ menu.
5. Rotate the Tuning control until 'Bass' is shown on the display. Press the Tuning control to enter the adjustment setting. Rotate the Tuning control until the desired level (between -5 and +5) is displayed. The sound will change as you adjust the level. Press the Tuning control to confirm the setting.
6. Rotate the Tuning control until 'Loudness' is shown on the display. Press the Tuning control to enter the adjustment setting. Rotate the Tuning control to select the desired setting. The options are On or Off. Then press the Tuning control to confirm the setting.

⚠ NOTE

To quickly cancel the effect of My EQ profile, rotate the Tuning control until 'Normal' is shown on the display and press the Tuning control. The treble and bass settings will be memorized for the next time that you wish to use the My EQ.

Software version

The software display cannot be altered and is just for your reference.

1. Press the Power button to switch on your radio.
2. Press the Menu button until the Advanced menu of the current mode shows on the display.
3. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.
4. Rotate the Tuning control until 'SW Version' appears on the display.
5. Press and release the Tuning control. The software version shows on the display.

GB

F

E

NL

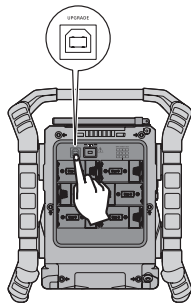
D

6. Press and release the Menu button to exit the software version display.

USB socket for software upgrade

Software updates for your radio may be available in the future. As software updates become available software and information on how to update your radio can be found at <http://www.sangean.com>

For more information, please contact our Head Office by sending an email to contact@sangean.com



1. Using the micro USB cable (not supplied) to connect the USB socket in the battery compartment and your PC USB port.
2. Go to the website above to download the latest software. Follow the on-screen instructions on your PC provided with the upgrade software to complete the software upgrade.

System reset

If your radio fails to operate correctly, or some digits on the display are missing or incomplete carry out the following procedure.

1. Press the Power button to switch on your radio.
2. Press the Menu button until the Advanced menu of current mode shows on the display.
3. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.
4. Rotate the Tuning control until 'Factory Reset' appears on the display. Press and release the Tuning control.
5. Rotate the Tuning control until 'Yes' is highlighted on the display and press and release the Tuning control. A full reset will be performed. The station list and presets will be erased. Alarms will be cancelled and sleep timer settings will be set to their default values. The display will show 'Welcome to Digital Radio' and the unit will behave as when first switched on.

If you do not wish to carry out a system reset, highlight 'No' and then press the Tuning control. The display will revert back to the previous display.

In case of malfunction due to electrostatic discharge, reset the product using the above procedure. In some circumstances it may be necessary to disconnect and then reconnect the mains power in order to resume normal operation.

Setting the Backlight timeout

Your radio can be set to timeout the backlight. The backlight timeout setting can be adjusted between **ON, 10, 20, 30, 45, 60, 90, 120 and 180** seconds.

1. Access the menu for the current mode by pressing the Menu button.

2. Rotate the Tuning control until 'System' appears on the display. Press and release the Tuning control.
3. Rotate the Tuning control until 'Backlight' is shown on the display. Press the Tuning control to enter the setting menu.
4. Rotate the Tuning control to select the desired time. The options are on (backlight will be on all the time), 10, 20, 30, 45, 60, 90, 120, or 180 seconds.
5. Your radio will switch off the backlight after the preset time has elapsed.

Auxiliary input socket

A 3.5mm Auxiliary input socket is provided on the right side of your radio to permit an audio signal to be fed into the unit from an external audio device such as an iPod, MP3 or CD player.

1. Connect a stereo or mono audio source (for example, iPod, MP3 or CD player) to the Auxiliary input socket (marked 'Aux In').
2. Press the Power to switch on your radio.
3. Press the Source button until the Auxiliary Input band is selected.
4. Adjust the Volume control on your iPod, MP3 or CD player to ensure an adequate signal and then adjust the volume on the radio for comfortable listening.

⚠ NOTE

Never use the Aux-In socket in rainy or moist conditions to prevent moist from entering the radio. Always keep the rubber cover on the back well closed under these conditions.

Charging with USB socket

Your radio has a USB socket which is intended for charging an iPhone, smart phone or similar devices. Charge time may vary and in some cases may take longer to charge than when using the manufacturers charging unit supplied with the smart phone.

When using AC power cord and the radio is in power on or standby mode or when using batteries only and the radio is in power on mode, the radio can charge the iPhone, smart phone or similar devices.

⚠ NOTE

1. The USB jack can only provide power for the USB memory stick only with 1A 5V maximum and most of iPhone models. However, it does not support external Hard disk drive, all types of mobile phones and electronic device.
2. The maximum volume of the output power speaker will decrease when your USB is charging.

⚠ IMPORTANT

1. Do not connect this USB socket with your PC USB port, as it highly possible may cause breakdown of the unit.
2. Never use the USB socket in rainy or moist conditions to prevent moist from entering the radio. Always keep the rubber cover on the back well closed under these conditions.

Using USB memory devices

⚠ IMPORTANT

1. Your radio is only designed to work with USB flash memory devices. It is not intended to be connected to hard disk drives or any other type of USB device.
2. It is possible to use SD or SDHC cards for media playback when held in a suitable USB adaptor. However, due to the wide variation of such adaptors, it is not possible to guarantee that all adaptor / card combinations will work with the radio.
3. The radio has been tested with a range of USB memory devices of up to 32GB capacity. It supports USB 2.0 full speed and USB 3.0. (Note: when using USB 3.0, please allow the radio to detect the device for a longer period of time.)
4. USB memory must use the FAT or FAT 32 filing system in order to operate with the radio, it does not support NTFS.
5. Audio formats supported for playback are MP3, WMA and AAC. Playback does not support files encoded using WMA lossless, WMA Voice, WMA 10 professional, nor files of any format which have DRM protection.

⚠ CAUTION

1. In order to minimize the risk of damage to your radio, your USB Memory, please place the radio such that the device cannot easily be knocked while it is inserted in the socket.
2. Remove the USB before carrying the radio or if not using the USB feature for a prolonged period.
3. Turn off the radio before removing your USB memory device.
4. The USB connection is intended only for flash memory devices. The use of hard disk storage media is not supported.
5. Playback via USB files stored on MP3 players is not guaranteed.
6. Large file size or high memory USB device takes longer time to read.


Playing files from USB memory devices

1. Insert the USB memory device into the USB slot which is located on the left hand side of the radio behind the rubber cover.
2. Press the Power button to turn on the radio and Press the Source button to select USB mode. The "Loading" will appear on the LCD display. Then the radio will start playing from the USB memory device.

⚠ NOTE

The text coding only supports ASCII.

3. To pause playing, press the Play / Pause button () .

To resume playing, press the Play / Pause button () again.

⚠ NOTE





- a. If you turn off the radio, the next time the radio is turned on, it will resume to the last played track.
- b. If you switch to other mode when playing from the USB memory device, playback will be paused. When you switch to the USB mode again, playback will resume from the point where it was paused.
- c. It is recommended to store only music files (MP3 / WMA / AAC) in your USB memory device. If there is one folder contains file(s) other than music files, your radio will skip this file / folder and the file / folder number shown on the display will not be serial.

Display modes



Your radio has a range of display mode while in USB playback mode.

Press the Info button to cycle through the different options: Folder and file numbers, Genre, Time, Date, Song title, Artist name, Album name, Folder name, File name.

Selecting a file

1. While the USB memory device is playing, press either the Next track button () or Previous track button () to change to the desired file. The file number is updated on the display. If there's more than one folder, all files in the current folder should have been played and the next folder will be played.
2. Press and hold the Next track button () or Previous track button () to fast-forward / Rewind the current track. Release the button when the desired point in the track is reached.

To skip to another folder


With the USB memory device is in pause or play mode, press and release the Next folder button () or Previous folder button (). The first file of the next or previous folder will be played.


⚠ NOTE


If your USB contains a folder without files, the device will skip the folder and play the files in the next folder.

Play Mode

When playing the files in the USB memory device, press and release Play mode button to select:

Repeat 1  : repeatedly play the file you are listening to.

Repeat Folder  : repeatedly play the files within the folder you are listening to.

Repeat All  : repeatedly play the folders in the USB.

Random  : it will play files in the USB by in random.

GB

F

E

NL

D

Specifications

Frequency Coverage	FM 87.50-108 MHz DAB 174.928-239.2 MHz
AC Power	AC 100~240 V ~ 50/60 Hz 40W (Europe)
Batteries	6 x AM-1 (D size)
DC IN	12V / 1.2A center pin positive (operational voltage 9-14 V) 5.5mm in diameter.
Bluetooth	
Bluetooth specification	Bluetooth® Ver 3.0
Profile Support	A2DP, AVRCP 1.4
Bluetooth Audio CODEC	SBC, AAC
Transmitting Power	Specification Power Class 1
Line of sight range	10meters / 30feet
The frequency and maximum transmitted power	2402MHz ~ 2480MHz: -1.048dBm (Bluetooth EDR)
Output Power	4W 10% T.H.D. @ 100Hz @ DC battery 9V 7W 10% T.H.D. @ 100Hz @ AC 230V or 110V
Aux in socket	3.5mm diameter, stereo jack to be mixed as monaural
Input sensitivity	300m Vrms at output 7W @ 1000Hz
Input impedance	47kohm
DC Out	USB Socket, 5V 1000mA
Speaker unit	6.5inches 8ohm 15W, full range FM / DAB / DAB+ bended spring antenna
LED illuminator	2 x white LED, current consumption 30mA
Battery life	Approx. 36hours using Alkaline batteries at 500mW output power.
Operating temperature range	0°C to +35°C
Dimension	298 x 342 x 268 mm
Weight	approx. 4.56kgs

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



aH 18 12 00001
 ↑ ↑ ↑ ↑
 Serial number
 Production month
 Production year
 Product code

The company reserves the right to amend the specifications without notice.



If at any time in the future you should need to dispose of this product please note that: Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. (Waste Electrical and Electronic Equipment Directive).