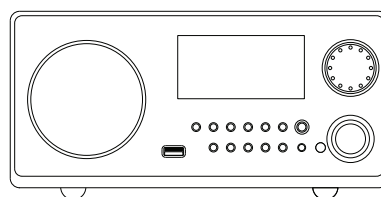


# WR-22



**GB**

Version 1

## Important safety instructions

GB

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.

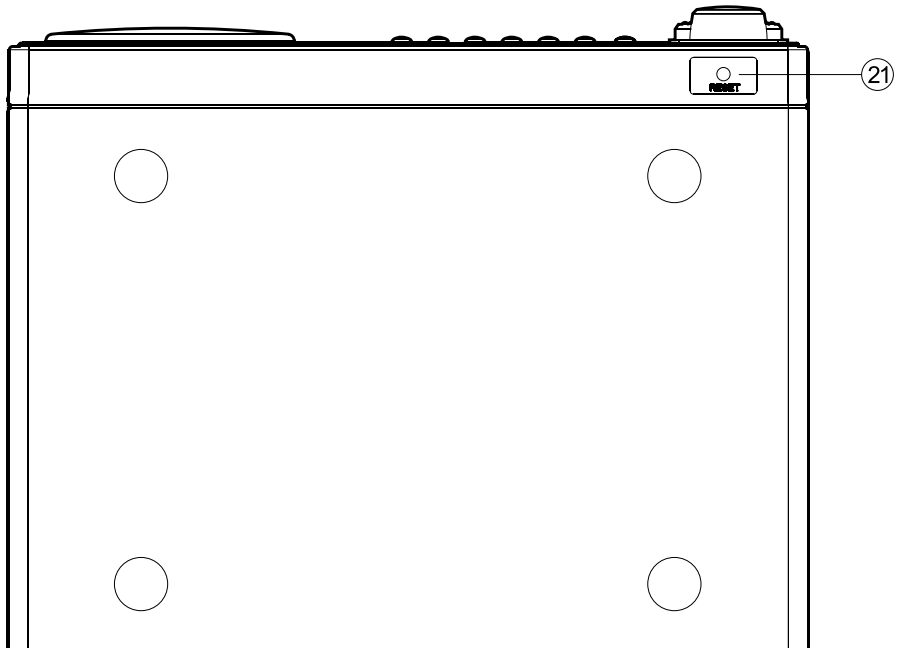
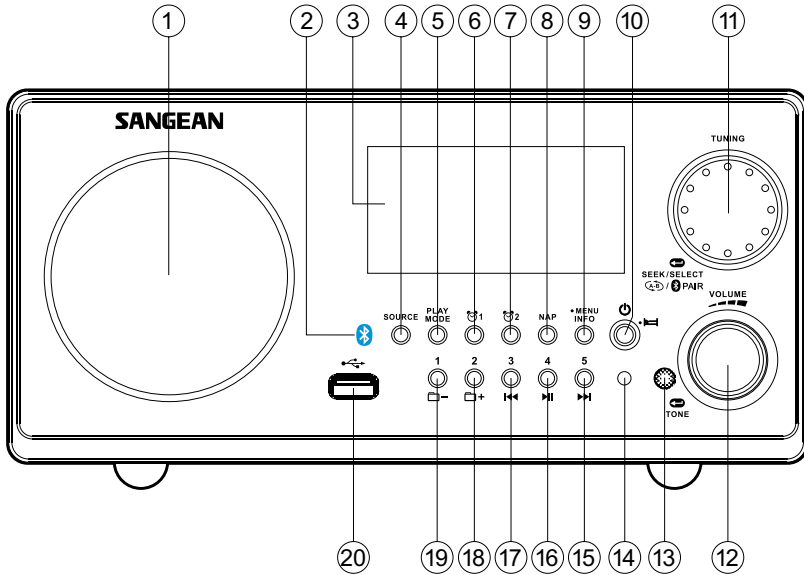


13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged. liquid has been spilled or objects have 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.

**IMPORTANT NOTE:**

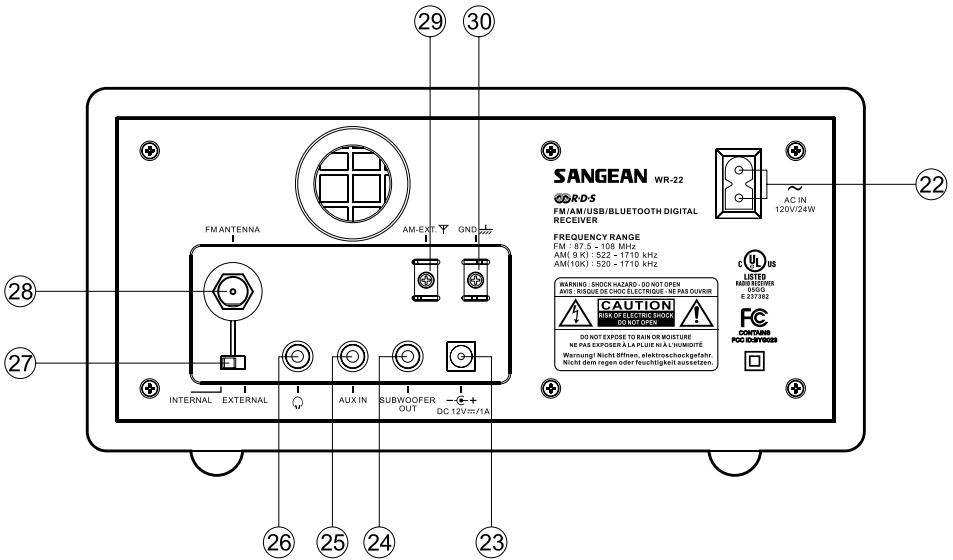
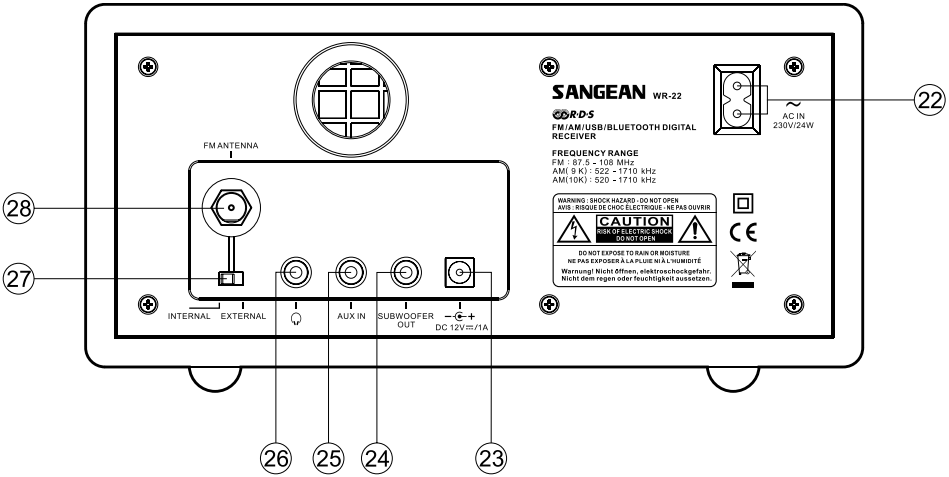
To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.



# Controls

GB

- ① Speaker
- ② Bluetooth indicator
- ③ Display
- ④ Source button
- ⑤ Play mode button
- ⑥ Alarm 1 button
- ⑦ Alarm 2 button
- ⑧ Nap button
- ⑨ Menu / Info button
- ⑩ On / Off button / Sleep button
- ⑪ Rotary tuning control
- ⑫ Volume control / Tone control
- ⑬ Dimmer sensor
- ⑭ Remote control sensor
- ⑮ Preset 5 / Fast-forward button
- ⑯ Preset 4 / Play / Pause button
- ⑰ Preset 3 / Backward button
- ⑱ Preset 2 / Fold up button
- ⑲ Preset 1 / Fold down button
- ⑳ USB port
- ㉑ Reset button



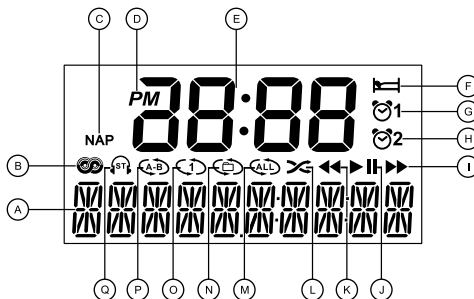
## Controls

- ②② AC power cord socket
- ②③ 12V DC input socket
- ②④ Subwoofer output socket
- ②⑤ AUX IN socket
- ②⑥ Headphone socket
- ②⑦ External / Internal antenna switch
- ②⑧ External F-type FM antenna terminal
- ②⑨ & ③① External AM antenna terminal (USA version only)

GB

## Display

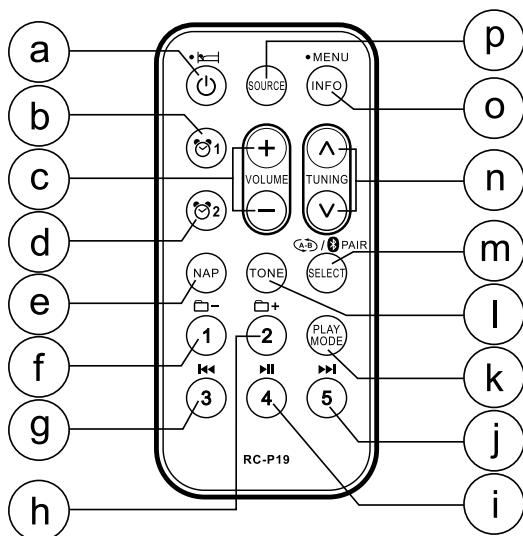
- Ⓐ Frequency / Station display
- Ⓑ RDS / RBDS indicator
- Ⓒ Nap indicator
- Ⓓ PM indicator
- Ⓔ Time indicator
- Ⓕ Sleep indicator
- Ⓖ Alarm 1 indicator
- Ⓗ Alarm 2 indicator
- Ⓘ Fast-forward indicator
- Ⓙ Play / pause indicator
- Ⓚ Backward indicator
- Ⓛ Shuffle
- Ⓜ Repeat all
- Ⓝ Repeat folder
- Ⓞ Repeat one
- Ⓟ Repeat section A-B
- Ⓠ Stereo indicator





# Remote control

- (a) On / Off button / Sleep button
- (b) Alarm1 button
- (c) Volume control button
- (d) Alarm 2 button
- (e) Nap button
- (f) Preset 1 / Folder down button
- (g) Preset 3 / Backward button
- (h) Preset 2 / Folder up button
- (i) Preset 4 / Play / Pause button
- (j) Preset 5 / Fast-forward button
- (k) Play mode button
- (l) Tone control button
- (m) Repeat A-B / Select button / Bluetooth pairing button
- (n) Tuning up / down button
- (o) Info / menu button
- (p) Source button



## Power your radio

### AC operation

Before plugging the AC cord into the radio, make sure the AC voltage is correct. Insert the plug on the end of the supplied power cord into the AC power socket on the back of the radio.

GB

### DC operation

For outdoor use, you can power the radio by using 12v DC input socket from a DC power supply (example, from the power supply of vehicles or boats). An AC power adaptor with 1 Ampere and center positive in polarity can also power the radio in house.

## Antenna setup for FM reception

The radio comes with built-in AM/FM antenna and external antenna.

To use FM internal antenna, make sure to switch FM external/internal antenna switch in the back of your radio to internal antenna position (i.e. INT. FM ANTENNA). As for external antenna, there are two types of antenna can be used to improve FM reception. You can connect the supplied FM antenna to the F-type antenna terminal and adjust the wire for best reception. You can also connect a 75 ohm coaxial cable of outdoor antenna to the terminal. Make sure to switch external/internal antenna switch to external position while connecting the outdoor / rooftop antenna.

### Note:

In some of the European countries, you may have to use adaptor plug to connect with the outdoor/rooftop antenna in case your antenna has an incorrect type of plug.

## **Antenna setup for AM reception**

The radio comes with built-in AM Ferrite antenna which should be enough for normal listening. To improve the AM reception, you may connect the outdoor AM antenna (not supplied) with AM external antenna terminal.

## Operating your radio

Your radio is equipped with three tuning methods- Scan tuning, manual tuning and memory preset tuning.

GB

### Scan tuning FM / AM

1. Make sure you have set up the FM antenna in advance .
2. Press the On/Off button to switch on your radio.
3. Press the Source button repeatedly to select the desired wave band.
4. Press the Tuning control rotary. Your radio will scan in an upwards direction (low frequency to high frequency) 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 / RBDS data present then the radio will display the station name.
6. To find other stations, press the Tuning control rotary as before.
7. When the waveband end is reached your radio will recommence tuning from the opposite waveband end.
8. Adjust the Volume buttons to the required setting.
9. To switch off your radio press the On/Off button.

## **Manual tuning – FM / AM**

1. Press the On/Off button to switch on your clock radio.
2. Press the Source button repeatedly to select the desired wave band.
3. Rotate the Tuning control rotary to tune to a station. The frequency will change in steps of 50kHz/100 kHz in FM or 9 kHz/10 kHz in AM.
4. When the waveband end is reached the radio will recommence tuning from the opposite waveband end.
5. Adjust the Volume buttons to the desired settings.
6. To switch off your clock radio press the On/Off button.

## **Setting up the tuning step increment**

1. Press and hold the Info/menu button to enter the menu setting when the radio source is in AM/FM mode.
2. Rotate the Tuning control rotary button until FM xxK or AM xxkHz shown on the display, and press the Tuning control rotary to enter the step increment setting.
3. Rotate the Tuning control rotary button to select 50kHz/100kHz for FM radio, and 9kHz/10kHz for AM radio. Then press the Tuning control rotary to confirm the setting.

## Display modes - FM

Your radio has four display modes for FM radio. These use data provided by broadcasters which is commonly known as RDS/RBDS.

The Radio Data System (RDS / RBDS) is a system in which inaudible digital information is transmitted in addition to the normal FM radio programme.

RDS / RBDS offers several useful features. The following are available on your radio:-

1. Press the Menu / Info button to cycle through the various modes.

- |                   |  |
|-------------------|--|
| a. Station name   | Displays the name of the station being listened to.  |
| b. Programme Type | Displays the type of station being listened to e.g. Pop, Classic, News, etc.               |
| c. Radio text     | Displays radio text message such as, new item etc.   |
| d. Year / Day     | Displays the current year and day of the week according to the date setting of your radio. |
| e. Date / Day     | Displays the current date and day of the week according to the date setting of your radio. |
| f. Frequency      | Displays the frequency of the station being listened to.                                   |

If there is no RDS / RBDS data available (or if the signal is too weak) then the radio will display only the FM frequency and the optional Stereo indicator.

## FM range setting

FM range is different from countries to countries. It is necessary to adjust FM range to allow the radio to work properly.

1. Press and hold the Menu/ Info button to enter the menu setting.
2. Rotate the Tuning control rotary till the range of FM shows on the display. Press the Tuning control rotary to confirm the desired FM range. FM range setting is then completed.

The available FM range is as following:

87-108 for the common area (default)

76-90 for Japan

64-108 for Eastern European countries and Russia

76-108 for some of China area

## FM stereo / mono setting

GB

If the FM radio station being listened to has a weak signal some hiss may be audible by headphone. It is preferable to reduce this hiss by forcing the radio to play the station in mono rather than stereo.

1. Press the Standby button to switch on your radio.
2. Tune to the required FM radio station as previously described.
3. Press and hold the Menu/Info button to enter the menu setting.
4. Press the Tuning control rotary until 'FM AUTO or FM MONO' shown on the display. Press the Tuning control rotary to enter the setting. If the setting is Auto rotate the Tuning control rotary to switch to Mono mode to reduce the hiss.
5. To return to Auto (stereo) mode, rotate the Tuning control rotary to alter the setting, so that the radio will switch back to Auto mode.



## **Presetting stations**

There are 5 memory presets for each FM/ AM wavebands.

1. Press the On/ Off button to turn on the radio.
2. Tune to desired station using one of methods previously described.
3. Press and hold the desired Preset button until the radio beeps.  
The preset number will appear in the display and the station will be stored under the chosen preset button.
4. Repeat this procedure for the remaining presets.
5. Station stored in preset memories may be overwritten by following the above procedure.

## **Recalling a preset station**

1. Press the On/ Off button to turn on the radio.
2. Select the desired waveband by repeatedly pressing the Source button.
3. Momentarily press the desired Preset button. The preset number and station frequency will appear in the display.

## Clock and Alarms

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### Setting the time format

The clock display used in stand-by mode and on the playing mode screens can be set to 12 or 24 hour format. The selected format is then also used when setting the alarms.

1. Press and hold the Info/menu button to enter the menu setting.
2. Rotate the Tuning control rotary until CLOCK XXH appears on the display, then press the Tuning control rotary to enter the setting and the setting of time format begins to flash.
3. Rotate the Tuning control rotary to select either 12 or 24 hour format.

Press the Tuning control rotary to confirm your choice of clock format. The display will then revert to the previous menu.

If the 12 hour clock format is chosen, the radio will then use the 12 hour clock for the setting of alarms with a PM indicator.

### Setting the date format

1. Press and hold the Info/menu button to access the menu setting.
2. Rotate the Tuning control rotary until a series digit for month/date/day shown on the display. Press the Tuning control rotary to enter the date format setting and the digit for month and date will flash.
3. Rotate the Tuning control rotary to select the required date format. Press the Tuning control rotary to confirm your choice of date format. The display will then revert to the previous menu.

## Setting the clock time

### Manual setting

1. When radio power is off, press and hold Menu/ info button to enter the menu setting.
2. Rotate the Tuning control rotary until 'CLOCK SET' shown on the display. Press the Tuning control rotary to enter the setting.
3. The hour setting on the display will begin flashing. Rotate the Tuning control rotary to select the desired hour, and press the Tuning control rotary to confirm the setting. Then rotate the Tuning control rotary to select the desired minute, and press the Tuning control rotary to confirm the setting.

### Radio Data System (RDS/ RBDS)

When you set the clock time using the RDS/ RBDS function, your radio will synchronize its clock time whenever it tunes to a radio station using RDS / RBDS with CT signals.

1. When tuning to a station transmitting RDS / RBDS data, press and hold the Info/menu button.
2. Rotate the Tuning control rotary until a clock symbol shown on the display. Press the Tuning control rotary to enter the setting.

3. Rotate the Tuning control rotary until 'RDS CT' shown on the display. Press the Tuning control rotary to confirm the setting.  
The clock time of the radio will set up automatically according to the RDS/ RBDS data received.
4. When the action is completed, the RDS/ RBDS icon will appear on the LCD display indicating the radio time is RDS/RBDS clock time. The radio clock time will be valid for 2 days each time the radio time is synchronized with RDS CT.

## Setting the alarm clock

There are two alarms which can each be set to wake you to AM, FM radio, USB buzzer alarm . The alarms may be set while the unit is in standby mode or while playing.

1. Before setting an alarm ensure the clock time is set.  
Press and hold the Alarm 1 button to enter the alarm 1 setting.
2. The hour setting of alarm 1 will begin to flash. Rotate the Tuning control rotary to select the required alarm hour, and press the Tuning control rotary to confirm the setting. Rotate the Tuning control rotary to select the required alarm minute, and press the Tuning control rotary to confirm the setting.
3. Then the display will show the frequency options for the alarm.  
Rotate the Tuning control rotary to select the desired option and press the Tuning control rotary to confirm the setting.

The alarm options are as follows:

ONCE – the alarm will sound once

DAILY – the alarm will sound everyday

WEEKDAY – the alarm will sound only on weekdays

WEEKEND – the alarm will sound only at weekends

4. Rotate the Tuning control rotary to choose the required alarm type, and then press the Tuning control rotary to confirm the setting. The alarm can be set to buzzer, FM, AM or USB.  
When radio mode is selected, the radio frequency and the preset number on the display will begin to flash. Rotate the Tuning control rotary to adjust the required radio frequency or the required preset number for the radio alarm, then press the Tuning control rotary to confirm the setting.
5. Rotate the Tuning control rotary to choose the required sound level for the alarm. Press the Tuning control rotary to confirm the setting. The alarm has now been set. Symbol for active alarm is shown on the display.

**Note:**

If USB is selected as your alarm type, but USB is not inserted when the alarm is sounding, the buzzer alarm will be used instead.

## **When the alarm sounds**

To cancel a sounding alarm, press the Standby button to cancel a sounding alarm.

When the buzzer alarm activates, the alarm will start softly and gradually increase in level. It will sound for 1 minute and silence for 1 minute in repetition for 60 minutes unless cancelled. When the other alarm types are set, the radio will sound non-stop at the selected time for up to 60 minutes.

When the radio alarm is activated, the alarm will go off in Humane Waking System. It will increase its volume in 0.5 increments from 0 to your set volume.

## **Disabling / cancelling alarm setting**


To cancel the alarm setting, press and hold the corresponding alarm button before the alarms sound off.

## Snooze

1. When the alarm sounds, press any button other than the Standby button will silence the alarm for 5 minutes. "SNOOZE" will appear on the display.
2. To adjust the silence time for the snooze timer, press and hold the Info/menu button to enter the menu setting.
3. Rotate the Tuning control rotary until "SNOOZE X" shown on the display, then press the Tuning control rotary to enter the setting. Rotate the Tuning control rotary to adjust the silence time. There are 5, 10, 15 and 20 minutes for the snooze timer.
4. To cancel the snooze timer while the alarm is suspended, press the Standby button.

## Sleep timer

Sleep timer will automatically switch off the radio after a preset time has elapsed.

1. Press and continue to hold the Power On/ Off button, the display will cycle through the available sleep time in the order of 60-45-30-15-120-90-60. Release the button when the required sleep time shown in the display and the radio will play the last station selected.
2. Cancel the sleep function, press the Power On/Off button, The radio power will be off and the symbol  will disappear from the display.



## Playback MP3 or WMA Files from USB

This section describes how to use your radio to access and playback your audio files via USB memory devices. USB slots are located on the front panel of the unit. Important: Your radio is only designed to work with USB memory flash memory devices. It is not intended to be connected to hard disk drives or any other type of USB device.

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.

The unit 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, at the beginning it will show 'No device' on the display, please allow the unit to detect the device for a longer period of time.) USB memory must use the FAT or FAT 32 filing system in order to operate with the sound system, it does not support NTFS.

Audio formats supported for playback are MP3 and WMA. Playback does not support files encoded using WMA lossless, WMA Voice, WMA 10 professional, nor files of any format which have DRM protection.

### Cautions:

In order to minimize the risk of damage to your radio, your USB Memory, please place the unit such that the device cannot easily be knocked while it is inserted in the socket.

Remove the USB before carrying the unit or if not using the USB feature for a prolonged period.

Place the unit in Standby mode removing your USB memory device.

The USB connection is intended only for flash memory devices.

The use of hard disk storage media is not supported.

Play back via USB files stored on MP3 players is not guarantee.

## **Playing MP3 and WMA files in USB**

1. When USB is inserted, press the On/Off button to turn the radio on and then press Source button to select USB. The LCD display will show “reading“and the number of files and folders stored in the USB will appear momentarily. However, under some circumstances, some error messages may appear. If the display shows ‘Unkown’ indicating your radio does not support the filing system of the inserted USB; whereas it shows ‘No music’ indicating there are no suitable MP3/ WMA files for playback.
2. Press the Play / Pause button to start playing from the USB. The display will show track number momentarily, e.g. ‘TRACK 25 ’.
3. To pause playing, press the Play / Pause button. To resume playing, press the Play / Pause button again.
4. Press the Info button repeatedly to view the information related to the specific media files. (Note: This function only supports English letters, if the media files contain symbols other than English letters, the symbols will be blank.)

**Note:**

- a) If you put the unit into standby mode without pressing the pause button, the next time the unit is turned on, it will resume to the last play track.
- b) It is highly recommended to store only music files (MP3 / WMA) in your USB device, because if there is one folder contains files other than music files, then your radio will skip this folder and the folder number shown on the display will not be serial.
- c) Your WR-22 allows a maximum of 200 folder (including root folder) and 9999files and 6 layers maximum within a folder. If the USB stores more than 200 folders, the extra folders will not show on the display.

**Selecting a file**

1. While the USB device is playing, press either the fast-forward or rewind buttons to change to the desired file. The track 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. You can skip to the desired file by pressing the fast-forward or rewind buttons and release the button when the desired track number is displayed.  
Your WR-22 allows a maximum of 200 folder and 9999files and 6 layers maximum within a folder.

## **Search function**

While the USB memory device is playing, press and hold the Fast-forward or Rewind button. Release the button when the desired part of the current file is reached.

## **To skip to another folder**

With the USB memory is in stop or play mode, press and release either the Folder Up / Down 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 USB, 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.

## Repeat File within Section A–B

If you'd like to repeat the file only within the selected section (e.g. learning languages), during the playback, press and release the Tuning Down button for the selection you'd like to start the repeat, press the button once again for the selection you'd like to end the repeat.

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The radio will repeat the playback only within the selected section and it will show  on the display.

To cancel the repeat, simply press the button again. The display icon  will disappear.

## Charging with USB socket

- 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 and all of mobile phones and electronic device.
- The USB jack charging function can only be charged in AUX-IN, USB or Bluetooth mode.
- The maximum volume of the output power speaker will decrease when your USB is charging.

Important:

Do not connect this USB socket with your PC USB port, as it highly possible may cause breakdown of the units.

## Listening to Bluetooth music

You need to pair your Bluetooth device with your radio before you can auto-link to play/stream Bluetooth music through your WR-22. Pairing creates a permanent 'bond' so two devices can always recognize each other.

### **Pairing your Bluetooth device for the first time**

1. Press the Source button to select Bluetooth function.  
The Bluetooth icon on the panel will flash.
2. Press and release the Tuning control rotary to activate the pairing function.
3. Activate Bluetooth on your device according to the device's user manual to link to your WR-22.
4. Once connected, there will be a beep sound and the Bluetooth icon will remain illuminated. The display will also show the model name of your Bluetooth-enabled device.
5. WR-22 will auto link with the last linked device when that device is in range.

Note:

- a) For version BT 2.0 Bluetooth device, you may be asked to input PIN code, the pass code is "0000".
- b) If 'SANGEAN WR-22' shows in your Bluetooth device list but your device cannot connect to WR-22, please delete the Sangean WR-22 item from your list and pair the device with WR-22 again following the steps described previously.
- c) The effective operation range between the docking system and the paired device is approximately 10 meters (30 feet).
- d) Any obstacle between the system and the device can reduce the operational range.



### **Pair with your Bluetooth device before**

If your Bluetooth device already paired with WR-22 previously, the unit will memorize your Bluetooth device, so when the device is in range, it will be asked the permission to link with the radio.

WR-22 can memorize up to 8 sets of Bluetooth device, when the memory exceed this amount, the earliest paired device will be cancelled from the radio.

### **Delete pairing device memory in your radio**

Press and hold the Tuning control rotary to cancel all the pairing device memory stored in WR-22.

### **Playing Bluetooth music**

1. Once your device and the WR-22 are linked you can start to play Bluetooth music via the WR-22.
2. Press the Play / Pause button on the panel or the remote control to start playing from your Bluetooth-enabled device.
3. To pause playing, press the Play / Pause button. To resume playing, press the Play / Pause button again.

### **Selecting a file**

1. While the Bluetooth-enabled device is playing, press either the fast-forward or rewind buttons to change to the desired file.

## Nap timer

1. Press and hold the Nap timer button to enter the menu setting. Keep holding the Nap timer button and the options will start switching on the display from 1 to 120 minutes. Stop until the required Nap Timer setting appears on the display. The setting will be saved and the LCD will return to normal display with the 'NAP' icon shown on the display.
2. To view the remaining time of an active timer setting, press the Nap timer button. To cancel a sounding Nap timer, press Standby button. If any button other than the Standby button is pressed when the alarm sounds, snooze function will be activated.

To cancel the function when countdown is progressing, go to nap timer setting menu and select 'OFF'.

## Time zone setting

Your radio can set up the time zone for its radio clock time.

1. Press and hold the Info/menu button to enter the menu setting.
2. Rotate the Tuning control rotary until 'TIME ZONE' shown on the display.  
Press the Tuning control rotary to enter the setting.
3. Rotate the Tuning control rotary to choose the Time zone setting for your area, then press the Tuning control rotary to confirm the setting.

Note:

When switching on the radio after a power disconnection, you will need to complete the time zone setting before the normal operation of the radio.

## Daylight Saving Time

1. Press and hold the Info/menu button to enter the menu setting.
2. Rotate the Tuning control rotary until "DST XX" shown on the display. Press the Tuning control rotary to enter the setting.
3. Rotate the Tuning control rotary to choose, for example, +1H to set the clock 1 hour faster, and press the Tuning control rotary to confirm the setting.
4. To set the clock back from D.S.T., choose OFF and then press the Tuning control rotary to confirm the setting.

## Tone control- treble and bass

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

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1. Press the Volume control rotary once to get into Treble control setting. Rotate the control until desired treble level is reached.
2. Press the Volume control rotary again to enter Bass control setting. Rotate the control until the desired bass level is reached. Press the Volume control to confirm the setting.

## Loudness

You can get compensation on lower and higher frequency for your radio by adjusting the Loudness function.

1. Press and hold the Info/menu button to enter the menu setting.
2. Rotate the Tuning control rotary until 'LOUD ON or OFF' shown on the display. Press the Tuning control rotary to enter the setting.
3. Rotate the Tuning control rotary to choose ON to turn on the loudness function, then press the Tuning control rotary to confirm the setting.
4. To turn off the loudness function, select OFF and press the Tuning control rotary to confirm the setting.

## **Auto Dimmer**

The dimmer sensor is located on the front of the radio which will adjust the intensity of the display to suit room brightness.

## **Dimmer control**

The brightness of the LCD display may be adjusted.

1. Press and hold the Info/ menu button to enter the menu setting.
2. Rotate the Tuning control rotary until 'DIMMER' shown on the display. Press the Tuning control rotary to enter the setting.
3. Rotate the Tuning control rotary to adjust the LCD backlight to be darker or brighter. Press the Tuning control rotary to confirm the setting.

Note:

The default setting of the dimmer level is at the lowest. Please adjust your dimmer level as appropriate.

## Auxiliary input socket

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

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1. Repeatedly press and release the Band button until AUX IN is shown.
2. Connect an external audio source (for example, iPod, MP3 or CD player) to the Auxiliary Input socket.
3. Adjust the volume setting on your iPod, MP3 or CD player to ensure an adequate signal level from the player, and then rotate the Volume control on the radio as needed for comfortable listening.

## Headphone socket

A 3.5mm Headphone socket located on the rear of your radio is provided for use with either headphones or an earpiece. Inserting a plug automatically mutes the internal loudspeaker.

### IMPORTANT:

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

## **Software version**

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

1. Press and hold the Info/menu button to enter the menu setting.
2. Rotate the Tuning control rotary until “P XX” appears on the display to view the software version of your radio.

## **RESET the radio**

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

1. Switch off the radio.
2. With the aid of a suitable implement (e.g. paper clip), press the RESET button located in the bottom of your radio for at least 2 seconds. This will reset the microprocessor clock time and clear all stations stored in the preset memory.

## **Subwoofer out socket**

Connect the subwoofer input with built-in amplifier. Subwoofer output level will change in accordance to the volume adjustment of the radio.

## Specifications

### Powered:

AC 120V/60Hz/24W (US version)

AC 230V/50Hz 24W (European version)

GB

### Frequency Coverage:

FM 87.50 – 108 MHz

AM 520 – 1710 kHz (10 kHz version) or

MW 522 – 1629 kHz (9 kHz version)

Bluetooth 2.4 - 2.485GHz class-II

### Internal Antenna system:

AM built-in ferrite antenna

FM built-in wire antenna

### External antenna terminal:

AM antenna terminal

FM F-type antenna terminal

### Output power

7 W 10% T.H.D.@100 Hz

### Subwoofer out socket

3.5 mm diameter mono jack

output level: 1.5 Vrms(max.)

Frequency Response: 40~220Hz (+20/-10Hz)

### Headphones socket

3.5 mm diameter stereo jack

output power 1mW+1mW (load 32 ohm)



## **Aux In socket**

3.5 mm diameter stereo jack.

Input sensitivity: In 350 mVrms, Output 7W @ 100 Hz

Input impedance: 47 Kohm

## **DC IN**

12V/1A center pin positive (operational voltage 9-14V)

## **Accessories**

FM F-terminal wire antenna

AC power cord

F-PAL terminal adaptor (European version only)

Dimension: WxHxD in mm: 240x115x183.

Weight: 2.6 kgs

## **Notice:**

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

*The Company reserves the right to amend the specification 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)*