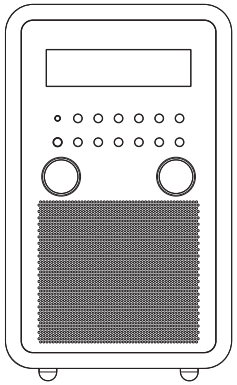
WR-50



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Revision 1

IMPORTANT SAFETY INSTRUCTIONS

For United States:

Cautions to the user

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

RF exposure statements

IMPORTANT NOTE:

To comply with the FCC RF exposure compliance requirements, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm (8 inches) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. 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.

Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

VERY IMPORTANT PLEASE READ

Sangean suggest that you keep your AC Adapter at least 12 inches away from the radio while listening to the AM Band.

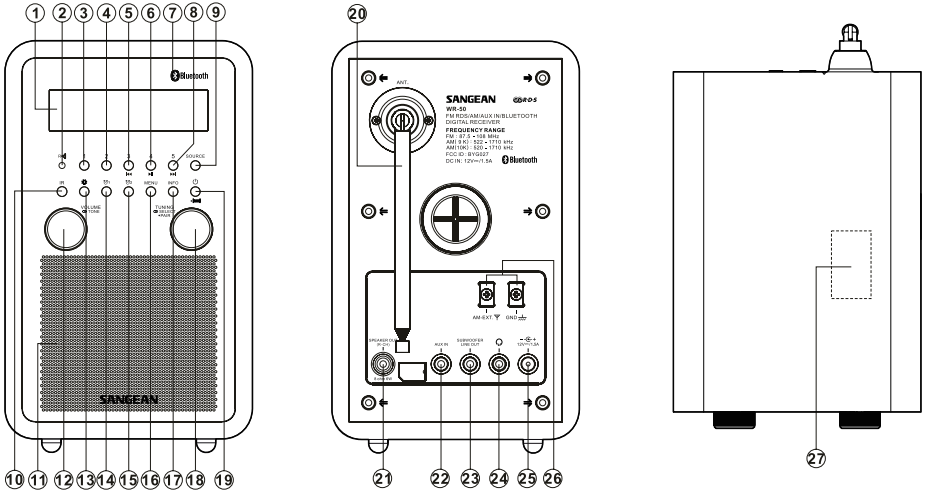
Your Sangean Radio is powered by an AC adapter which is a "switching" or "switch-mode" type. The DOE (Department Of Energy) has a Federal mandate; requiring all manufactures to use this type of power supply. This newer power saving technology has the unfortunate side effect of causing interference to the AM radio band.

Therefore, we recommend that customers keep at least a 1 foot distance between the AC adapter and the radio. This interference will not affect the FM Band. If you have any questions please contact customer service at (888)726-4326, (562)941-9900 or service@sangean.com If an AC adapter isn't included in this model and if you wish to purchase an AC Adapter separately, please refer to the specifications for the AC Adapter stated on the final page of the manual, or please contact Sangean for the correct AC Adapter and specifications. To learn more about the DOE mandate please visit:

http://www1.eere.energy.gov/buildings/appliance_standards/product.aspx/productid/23

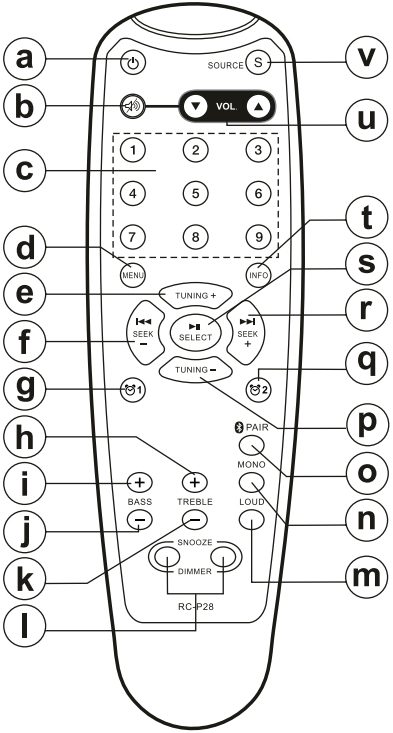
Controls

1. LCD display
2. Speaker output indicator
3. Preset 1
4. Preset 2
5. Preset 3/Rewind button
6. Preset 4/Play/Pause button
7. Bluetooth pairing indicator
8. Preset 5/Fast-forward button
9. Source button
10. Remote control sensor
11. Speaker
12. Volume control/Tone control
13. Dimmer button
14. Alarm 1 button
15. Alarm 2 button
16. Menu button
17. Info button
18. Tuning control/Select button/
    Bluetooth pairing button
19. Standby button/Sleep timer button
20. Telescopic antenna
21. External Speaker socket
22. Auxiliary input socket
23. Subwoofer Line out socket
24. Headphone socket
25. DC IN socket
26. External AM antenna terminal (USA version only)
27. NFC detection area



Controls (remote control)

a. Standby button (Main Power)
b. Mute button
c. Preset button
d. Menu button
e. Tuning up button
f. Seek down button/Rewind button
g. Alarm 1 button
h. Treble up button
i. Bass up button
j. Bass down button
k. Treble down button
l. Snooze button/Dimmer button
m. Loudness button
n. Mono/Stereo button
o. Bluetooth pairing button
p. Tuning down button
q. Alarm 2 button
r. Seek up button/Fast-forward button
s. Select button/Play/Pause button
t. Info button
u. Volume button
v. Source button



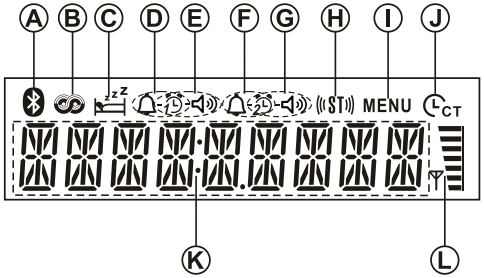
Note: For the sake of clarity, the instructions for the use of the controls throughout this instruction manual show the buttons on the radio. The buttons on the remote control can be used if you prefer.

Note: The operations described below for the face of the radio are the same as the operations for the remote control.

1. Rotate the Tuning control knob on the face of the radio is the same as pressing the Tuning Up or Down buttons on the remote control.
2. Pressing the Tuning Knob on the face of the radio is the same as pressing and releasing the Select button on the remote control.
3. Rotating the Volume Knob on the face of the radio is the same as pressing the Volume Up or Down buttons on the remote control.

LCD display Icons

A. Bluetooth pairing indicator
B. RBDS indicator
C. Sleep/Snooze indicator
D. BUZZER Alarm 1
E. Radio Alarm 1
F. BUZZER Alarm 2
G. Radio Alarm 2
H. Stereo indicator
I. MENU indicator
J. RBDS clock time
K. Frequency/Time display
L. Signal level indicator



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Using the radio for the first time

1. Place your radio on a flat surface.
2. Insert the adaptor plug into the DC socket located on the rear of your radio. Plug the adaptor into a standard AC outlet. If no time is displayed, the screen will show “--:-- --”.
3. Fully extend the FM telescopic antenna located on the rear of your radio.
4. Press and release the Standby button to turn on your radio. It may be necessary to relocate your radio to a position giving better reception and carry out a scan to find stations as described in later sections.

IMPORTANT:

The AC adaptor is used as the means of connecting the radio to your power supply. The AC Adapter used for the radio must remain accessible during normal use. In order to disconnect the radio from the power completely. The AC Adapter should be removed from the main power completely in case of severe lightning or storm.

Antenna setup for AM reception

The radio comes with a built-in AM Ferrite antenna which should be enough for normal listening.

To improve the AM reception, first try to rotate the unit 90 degrees, if this doesn't help you may connect an external AM antenna (not supplied) to the AM external antenna terminal on the back of your radio.

Operating your radio – FM/AM auto-tune

1. Fully extend the FM telescopic antenna located on the rear of your radio.
2. Press and release the Standby button to switch on your radio.
3. Press the Source button repeatedly to select the desired frequency band.
4. If this is the first time searching for an FM/AM station, press and release the Tuning control knob, the radio will search from low frequency to high frequency and stop automatically when it finds a station of sufficient strength.
5. For scanning stations backwards quickly, rotate the Tuning control knob in an anticlockwise direction first, and then press and release it. Your radio will scan down the FM/AM frequency band from the currently displayed frequency and will stop scanning when it finds a signal of sufficient strength. To scan up in frequency, rotate the Tuning control knob in a clockwise direction. The displayed frequency will increase. Then press and release the Tuning control knob to carry out auto-tune. Your radio will scan up the FM/AM frequency band from the currently displayed frequency and will stop scanning when it finds a station of sufficient strength.
6. 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 RBDS data present then the radio may display the station name.
7. To find other stations press the Tuning control knob as before. When the end of the frequency band is reached, your radio will recommence tuning from the opposite end of the frequency band.
8. Adjust the Volume to the required setting.
9. To switch off your radio, press and release the Standby button. The display will show the “OFF” symbol.

Note:
If you find that the FM reception is poor, try repositioning the antenna.
If you find that an FM broadcast has a lot of background hiss, this may often be reduced by setting the radio into Mono reception mode for the current FM station. Please refer to the later section“Stereo (AUTO)/ Mono setting - FM”.

Manual tuning – FM/AM

1. Fully extend the FM antenna located on the rear of your radio.
2. Press and release the Standby button to switch on your radio.
3. Press the Source button repeatedly to select the desired frequency band.
4. Rotate the Tuning control knob to tune to a station. The frequency will change in steps of 50 kHz/100 kHz in FM or 9 kHz/10 kHz in AM. If the radio is tuned to a station of sufficient signal strength with RBDS information present, then the display may change to show the station name.
5. When the frequency band end is reached, the radio will recommence tuning from the opposite frequency band end.
6. Set the Volume to the desired setting.
7. To switch off your radio press and release the Standby button.

FM / AM step setting

1. Press and hold the Source button until a beep sounds when your radio is in standby mode. The “MENU” indicator will appear and flash on the upper right corner of the screen. Rotate the Tuning control knob until FM xkHZ or AM xkHZ appears on the display, and press the Select button to enter FM/AM step setting. The digit “x” will flash on the display.
2. Rotate the Tuning control knob to select 50 kHz/100 kHz for FM radio, and 9 kHz/10 kHz for AM radio. Then press the Select button to confirm the setting.

Note:
The tuning steps for North America are FM: 100 kHz and AM: 10 kHz
The rest of the world is FM: 50 kHz and AM: 9 kHz

Time display options

1. Press and hold the Source button until a beep sounds when your radio is in standby mode. Select “DISP TIME” option, all display options except the text display will revert to the clock display after about 10 seconds.
2. To return to display option, rotate the Tuning control knob to select “DISP TIME”, press the Select button , the “TIME” will flash, rotate the Tuning control knob to select “DISP FREQ” to confirm the setting.

Display options – FM

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

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

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

Note: If no RBDS information is available, the radio will be unable to display the station name, scrolling text and program type information.

Stereo (AUTO)/Mono setting – FM

Your radio will play stereo FM broadcasts in stereo provided that the received signal is of adequate strength. However, as a stereo signal becomes weaker the audio signal will become poorer. It may be preferable to force the radio to play the station in mono in order to reduce the level of background hiss.

1. Press and release the Standby button to switch on your radio.
2. Tune to the required FM radio station as previously described.
3. Press and release the Menu button to enter the menu setting. The “MENU” indicator will also appear and flash on the upper right corner of the screen when the radio is in the Menu mode.
4. Rotate the Tuning control knob until FM AUTO/MONO setting shows on the display. If the setting is “FM AUTO”, press the Select button, the “AUTO” will flash. Rotate the Tuning control knob to switch to “FM MONO” mode to reduce the hiss. Press and release the Select button to confirm the setting.
5. To return to Auto (Stereo) mode press and release the Menu button to alter the setting. Rotate the Tuning control knob until “FM MONO” shows on the display. Press and release the Select button, the “MONO” will flash. Rotate the Tuning control knob until “FM AUTO” appears on the display. Press and release the Select button to confirm the setting.

FM/AM Bandwidth narrowing

In order to obtain better reception of weaker FM/AM stations, your radio has a function to narrow the FM/AM bandwidth to reduce high frequency noise.

1. Select the FM band or AM band by pressing the Source button.
2. Press and release the Menu button, then rotate the Tuning control knob until “FM WIDTH” or “AM WIDTH” shows on the display. Press and release the Select button, the “WIDTH” will flash and then rotate the Tuning control knob until “NARROW” appears and flashes on the display .Press and release the Select button to confirm the setting.
3. To return to width, press and release the Menu button, then rotate the Tuning control knob until “FM NARROW” or “AM NARROW” shows on the display. Press and release the Select button, the “NARROW” will flash and then rotate the Tuning control knob until “WIDTH” appears and flashes on the display. Press and release the Select button to confirm the setting.

Note: Sangean suggests activating the “NARROW” when listening to talk Radio programs. This may improve sound quality. Please note that activation of the “NARROW” may cause Stereo invalid and produce mono sound.

Presetting stations – FM/AM

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You may store your preferred FM and AM radio stations to the preset station memories. The procedure for setting presets and using them to tune stations is the same for FM and AM modes, and is described below. Please note that 9 memory presets for each band can be accessed via remote control.

1. Press and release the standby button to switch on your radio.
2. Tune to the required station as previously described.
3. Press and hold the required Preset button, the corresponding “Px” will appear and flash. Continue holding down this button until radio beeps once. The station will be stored under the chosen preset number. Repeat this procedure for the remaining presets.

Note: Stations stored in preset memories may be overwritten by following the above procedure.

Recalling a preset station- FM/AM

1. Press and release the standby button to switch on your radio.
2. Select the required frequency band by pressing the Source button.
3. Momentarily press and release the required Preset button, your radio will tune to the station in preset memory.

Note: The display will show ‘Empty Px’ if no station has been stored to that preset.

Listening music via Bluetooth streaming

You need to pair your Bluetooth device with your WR-50 before you can auto-link to play/stream Bluetooth music through your WR-50. Paring creates a 'bond' so two devices can recognize each other.

Pairing and playing your Bluetooth device for the first time

1. Press the Source button to select Bluetooth (BT) function. The "BT READY" will show on the display. The Bluetooth pairing icon and "READY" symbol on the panel will flash and the Bluetooth pairing indicator will turn blue. The indicator flashes blue indicating the radio is discoverable.
2. 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 'WR-50' (With some Smartphone's that are equipped with earlier versions than BT2.1 Bluetooth device, you may need to input the pass code "0000")
3. Once connected, there will be a confirmation tone sound and the Bluetooth indicator will remain in solid blue. The display will be changed to show "BLUETOOTH" and the Bluetooth pairing icon will remain illuminated. You can simply select and play any music from your source device. The volume control can be adjusted from your source device, or directly from the radio.
4. Use the controls on your Bluetooth-enabled device or on the radio to play/pause and navigate tracks.

Note:

1) If 2 Bluetooth devices are pairing for the first time, both must search for your radio, it will show its availability on both devices. However, if one device links with this unit first, then the other Bluetooth device won't find it on the list.
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 'WR-50' shows in your Bluetooth device list but your device cannot connect with it, please delete the 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.
6) With some mobile phones, making/receiving calls, text messages, e-mails or any other activities unrelated to audio streaming may mute the Bluetooth audio streaming or even temporarily disconnect from your device. Such behavior is a function of the connected device and does not indicate a fault with your WR-50.

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, press and release the Play/Pause (4), Fast-forward button (5) , Rewind button (3) on the radio.
3. Press and hold the Fast-forward or Rewind button to move through the current track. Release the button when the desired point is reached.

Note:

Not all player applications or devices may respond to all of these controls.

Pair with your Bluetooth device before

If your Bluetooth device already paired with WR-50 previously, the unit will memorize your Bluetooth device and can support to reconnect previous paired 2 sets of Bluetooth devices automatically.

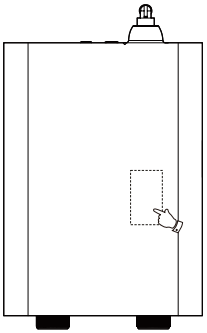
The WR-50 can memorize up to 2 sets of Bluetooth device, when the memory exceeds this amount, the earliest paired device will be overwritten from the radio.

Disconnecting your Bluetooth device

Press and hold the Bluetooth pairing button for 2-3 seconds to disconnect with your Bluetooth device. There will be a confirmation tone sound and the display will change to show “BT PAIR”. The Bluetooth pairing icon and “PAIR” symbol will flash on the display. The Bluetooth indicator flashes in blue indicating the radio is discoverable again for pairing.

Pairing and playing your device via NFC

Your radio is equipped with wireless NFC (Near Field Communication) feature, allowing NFC -enabled devices to pair and play your music with your WR-50. For non-NFC devices, please refer to the above sections for standard Bluetooth pairing.



1. Turn on the NFC feature on your device.
2. Touch the NFC area of your playing device directly against the NFC tag marked on the top of your WR-50. The radio will automatically be switched on and connect your NFC-enabled device. If you're pairing the radio for the first time, some NFC-enabled device will ask for permission to link with the radio. Once paired with a device, 'Connecting WR-50…' or a similar message is shown on your NFC-enabled device. The Bluetooth indicator will light in solid blue. (**Important:** Please make sure the screen of your playing device is on and unlocked to allow NFC to work.)

Note:

1. 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 Bluetooth/NFC enabled devices.
2. The location of the NFC detection area is not the same on all devices. When connecting with other Bluetooth devices via NFC, refer to the User guide of the other device for more information.
3. Some metallic cases or covers for mobile phones may reduce the sensitivity of NFC. Make sure you remove it, before activating the NFC.

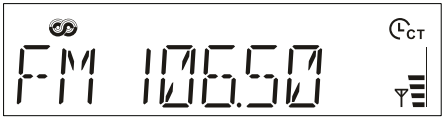
Disconnecting your NFC-enabled device

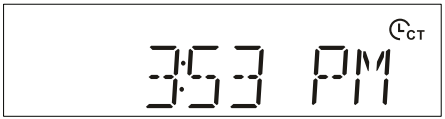
To disconnect your device, simply touch directly against the radio's tag again on the top panel. The Bluetooth indicator on the front panel flashes blue to show the radio is discoverable mode.

Auto clock time adjustment by RBDS-CT

You can enable auto clock time adjustment by RBDS (Radio Broadcast Data System) CT function. Clock time can be automatically adjusted by FM RBDS station.

1. You can access the menu setting when the radio is in power on or standby mode.
2. Press and release the Menu button, rotate the Tuning control knob until “RBDS CT” and a clock symbol appear on the display. Press the Select button to confirm the setting.
3. Select a FM radio station which provides RBDS CT service, the RBDS indicator and RBDS clock time icon will appear on the display. The clock will be aligned in 5 minutes once the CT service is available.
4. Press and release the Info button to check if the clock screen has the correct time.
5. When the action is completed, the RBDS clock time icon will appear on the LCD display indicating the radio time is RBDS clock time.





Note:

1) If the clock time was not auto adjusted within 24 hours, the CT icon will disappear.
2) If clock time from local RBDS station is not correct, you should consider disabling the RBDS-CT function.
3) If you wish to cancel the RBDS-CT function, press and release the Menu button and rotate the Tuning control knob to select “RBDS CT”. Press the Tuning control knob, the “RBDS CT” will flash on the display. Rotate the Tuning control knob to select “MANUAL” and press the Tuning control knob to confirm the setting. Please refer to the later section “Setting the clock time manually” and “Setting the date manually” to set the clock time and date.
4) Please note that at times the RBDS signal may broadcast the wrong time, this is the fault of the radio station and not your radio.

Setting the clock format

The clock display used in standby 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. When the radio is in power on or standby mode, press and release the **Menu** button to access the menu for the current mode.
2. Rotate the **Tuning control knob** until “CLOCK xx” appears on the display, then press and release the Select button to enter the setting and the setting of time format begins to flash.
3. Rotate the **Tuning control knob** to select either 12 or 24 hour format. Press and release the Select button to confirm your choice of clock format.
   If the 12 hour clock format is chosen, the radio will then use the 12 hour clock for the setting of alarms, and will display a 12 hour clock with an AM or PM indicator when in standby mode**.**

Setting the date format

1. When the radio is in power on or standby mode, press and release the Menu button to access the menu for the current mode.
2. If this is the first time you’re setting the date format, rotate the **Tuning control knob** until “JAN--1” shows on the display. Press and release the Select button to enter the date format setting.
3. Rotate the Tuning control knob to select your desired date format, and then press the Select button to confirm the setting.

Setting the clock time manually

1. When the radio is in power on or standby mode, press and release the Menu button to access the menu for the current mode.
2. Rotate the Tuning control knob until “CLOCK SET” appears on the display, then press and release the Select button to enter the setting.
3. The hour setting on the display will begin flashing. Rotate the Tuning control knob to select the desired hour, and press the Select button to confirm the setting. After completion of the hour setting the minutes digits will then flash, follow the above setting steps to set the minutes.

Setting the date manually

1. When the radio is in power on or standby mode, press and release the Menu button to access the menu for the current mode.
2. Rotate the Tuning control knob until “DATE SET” appears on the display, press and release the Select button to enter the setting.
3. The year setting on the display will begin flashing. Rotate the Tuning control knob to select the desired year, and press the Select button to confirm the setting. After completion of the year setting the month will flash, follow the above setting steps to set the desired month, the date will then flash, follow the above setting steps to set the desired date.

Setting the alarm clock

Your radio has two separate alarms which can be set to wake you to either the radio or a buzzer alarm. In the event of a power interruption your radio has built in memory that will retain your alarm settings. Ensure that the time is set correctly before setting the alarms.

1. Press the Alarm 1 or Alarm 2 button, the Alarm 1 icon or Alarm 2 icon and “ALARM OFF” symbol will show on the display. Continue holding down the Alarm 1 or Alarm 2 button until a beep sounds to enter the alarm setting. The Alarm 1 icon or Alarm 2 icon will flash on the display.
2. The hour setting of alarm (1 or 2) will also begin to flash. Rotate the Tuning control knob to select the required alarm hour, and press and release the Select button to confirm the setting. After completion of the hour setting the minutes digits will then flash, follow the above setting steps to set the minutes. 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.
3. Then the display will show the frequency options for the alarm.
   The alarm options are as below:
   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
   Rotate the Tuning control knob to choose the alarm options and then press and release the Select button to confirm the setting.
4. Then the alarm types (BUZZER/FM TUNER/AM TUNER) will appear and flash on the display. Rotate the Tuning control knob to choose the desired alarm type then press and release the Select button to confirm the setting. To select “BUZZER”, the BUZZER Alarm (1 or 2) icon will appear and flash and “BUZR VOLx” will also appear on the display. Rotate the Tuning control knob to choose the volume level and press the Select button to confirm the setting. To select “FM TUNER” or “AM TUNER”, the Radio Alarm (1 or 2) icon will appear and flash and “FM TUNER” or “AM TUNER” will also appear on the display. Rotate the Tuning control knob to select the desired station and press the Select button to confirm the setting. Then rotate the Tuning control knob to select volume level and press the Select button to confirm the setting.

When the alarm sounds

To cancel a sounding alarm, press the standby button.
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. The radio will sound non-stop at the selected time for up to 60 minutes for other alarm types.

Snooze function

1. When the alarm sounds, press any button other than the standby button will silence the alarm for 5 minutes. The symbol for snooze will appear and flash on the display. The Alarm icon will also flash on the display.
2. To adjust the silence time for the snooze timer, press and release the Menu button to enter the menu setting.
3. Rotate the Tuning control knob until “SNOOZE X” appears on the display, then press and release the Select button to enter the setting. The digit “X” will flash, rotate the Tuning control knob to adjust the silence time from 5, 10, 15 and 20 minutes for the snooze timer. Press and release the Select button to confirm the setting.
4. To cancel the snooze timer while the alarm is suspended, press and release the standby button.

Disabling / cancelling alarms

To disable an active alarm before the alarm sounds, press and hold the corresponding alarm button until there is a beep sound to cancel the alarm. The BUZZER or Radio alarm icons will disappear.

Sleep function

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

1. To set the desired sleep time, press and hold the standby button to enter the Sleep timer setting. ‘SLEEP XX’ will show on the display.
2. Keep pressing the standby button and the Sleep timer options will start switching on the display. Stop until the required Sleep timer setting appears on the display. The setting will be saved and the LCD will return to normal display.
3. Your radio will switch off automatically after the preset sleep timer has elapsed. The sleep timer icon will show on the display indicating an active Sleep timer.
4. To cancel the sleep timer function before the preset time has elapsed, simply press and release the standby button to turn the unit off manually.

Loudness function

The loudness effect will be more audible when the radio is in lower volume level to get compensation on lower frequencies.

1. Press and release the Menu button to access the menu for the current mode.
2. Rotate the Tuning control knob to select “LOUD ON” option. The loudness function is applied.
3. To turn off the loudness function, press and release the Tuning control knob when the display shows “LOUD ON”. The “ON” will flash, rotate the Tuning control knob to select “OFF” and press the Select button to confirm the setting.

Treble and Bass function

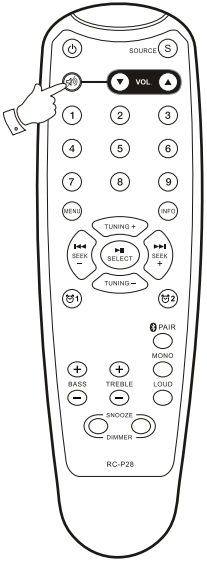
The sound on your radio can be adjusted to suit your personal taste. You may set the treble and bass levels to your own preferences.

1. Press and release the standby button to switch on the radio.
2. Press and release the Volume control knob to enter the setup menu.
3. “TREBLE x” is displayed on the screen. The digit “x” will flash. Rotate the Tuning control knob to adjust the treble level (between-5 and +5). The sound will change as you adjust the level. Press the Select button to confirm the setting.
4. The display will then switch to “BASS x” adjustment mode and the digit “x” will flash. Rotate the Tuning control knob until the desired level (between -5 and +5) is displayed. The sound will change as you adjust the level. Press the Select button to confirm the setting.

Mute function

Press the Mute button on the remote control of your radio, it will mute the output from the loudspeakers.

1. Press the Mute button to mute the sound output. The speaker volume symbol on the display will disappear.
2. Press the Mute button again or one of the Volume buttons to un-mute the sound output.



Display backlight dimmer

In order to adapt the intensity of the display to suit the ambient room lighting, press the Dimmer button on the panel of your radio to select your desired dimmer setting.

Software version

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

1. When the radio is in power on or standby mode, press and release the Menu button to access the menu for the current mode.
2. Rotate the Tuning control knob until “VER Pxx” appears on the display to view the software version of your radio.
3. Press and release the Menu button to exit the software version display.

System reset

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

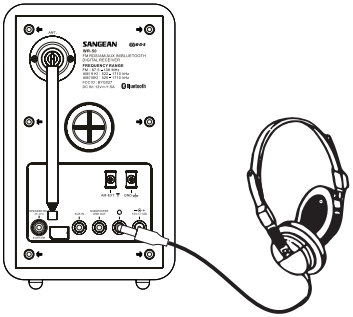
1. When the radio is in power on or standby mode, press and release the Menu button to access the menu for the current mode.
2. Rotate the Tuning control knob until “FACTORY” appears on the display. Press and release the Select button, the “RESET NO” will appear on the display and “NO” will flash. Rotate the Tuning control knob to select “NO” or “YES”. If you do not wish to carry out a system reset, select “No” and then press the Select button. The display will revert back to the previous display.
3. To select “YES”, press and release the Select button. A full reset will be performed. The station presets will be erased. Alarms will be cancelled and sleep timer settings will be set to their default values. All the icons will show on the display and the radio will turn off automatically .In case of malfunction due to electrostatic discharge, reset the product (reconnection of the power source may be required) to resume normal operation.
4. You may also elect to unplug your radio for at least 12 hours to reset your radio.

Headphone socket

A 3.5mm Headphone socket located on the rear of your radio is provided for use with headphones. Inserting headphones will automatically mute the internal loudspeaker. Please be aware that the sensitivity of headphones can vary widely. We therefore recommend setting the volume to a low level before connecting headphones to the radio.

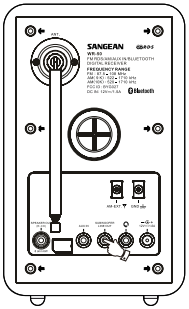
Note:

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



Subwoofer Line out socket (3.5mm Jack)

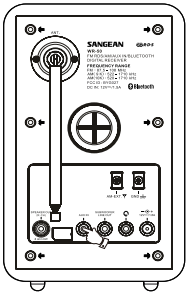
A 3.5mm Subwoofer Line Out socket located on the rear of your radio is provided for connecting the audio signal to an external amplifier or powered subwoofer. Inserting an audio cable into this socket will not mute the internal loudspeaker. Set the volume control on the radio to minimum if desired.



Auxiliary input socket

A 3.5mm 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 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 standby button to switch on your radio.
3. Press the Source button to select Aux in mode. The display will show “AUX”.
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.

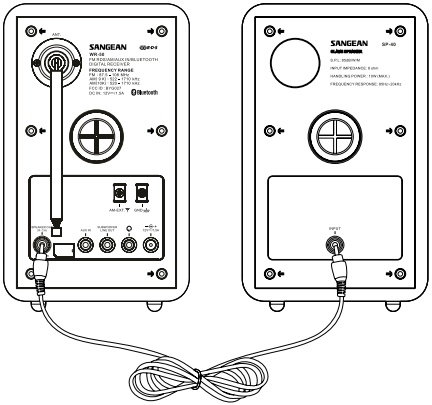


Speaker out socket

To enjoy true stereo sound the WR-50 is sold as a "Package" to create a stereo sound experience.

This package (WR-50P) includes the WR-50 AM/FM/BT Radio and 1 SP-40 External Speaker (not sold separately).

Connect the WR-50 radios speaker output socket to Sangeans SP-40 speaker input socket with the supplied speaker connector (included with the SP-40) When connected properly the stereo indicator icon on the front panel will illuminate.



Specifications

Power Requirements

Main Power Supply AC IN 100-240V/50/60Hz, DC OUT: 12V/1.5A

Frequency Coverage

FM: 87.5-108 MHz

AM: 522-1710 kHz (9kHz)
520-1710 kHz (10kHz)

Bluetooth

Bluetooth specification	Bluetooth® Ver 4.1
Profile Support	A2DP, AVRCP1.4
Bluetooth Audio CODEC	SBC
Transmitting Power	Power Class 2
Line of sight range	10 meters/30 feet

Circuit features

Output power	7W+7W(If connected with SP-40 speaker)
Headphone socket	3.5 mm diameter, stereo
Aux In socket	3.5mm diameter, stereo
Subwoofer Line Out socket	3.5mm diameter, subwoofer
Antenna System	FM Telescopic Antenna Built in AM Ferrite Antenna External AM Antenna terminal

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Sangean 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)