PR-D4W
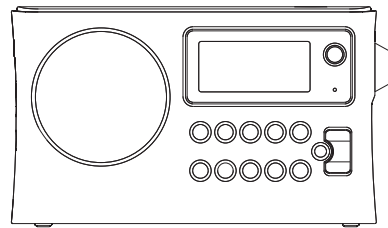
Revision 1

Important safety instructions

1. Please read all instructions carefully.

2. Please keep these instructions for future reference.

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 manufacturers 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 is 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.
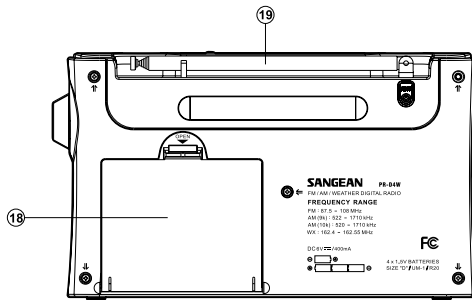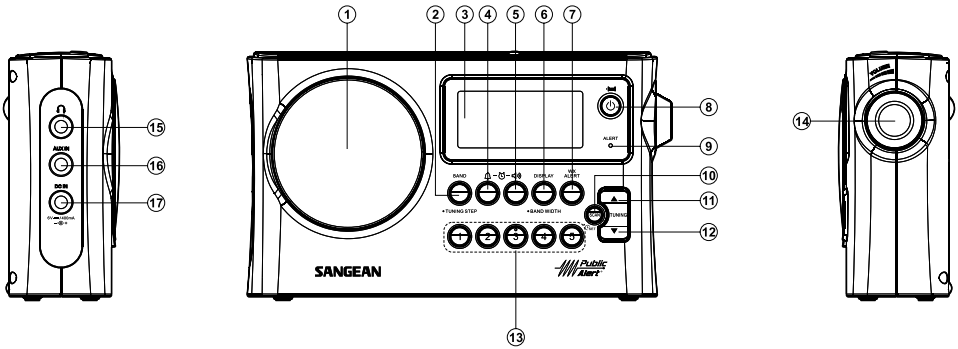
18. Long term exposure to loud music may cause hearing damage or hearing loss. It is best to avoid long term extreme volume listening while using headphones with this device.

19. The power plug should be close to the radio, and easy to unplug in case of an emergency. To disconnect the power from the radio, just unplug the power plug from the AC power outlet.

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, and all warranties.

CAUTION:
To reduce the risk of the electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to so.
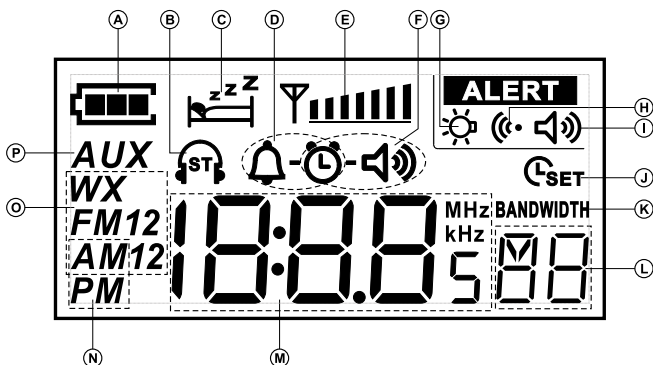
Portable Digital Receiver

SANGEAN

Public Alert

SANGEAN   PR-D4W
FM / AM / WEATHER DIGITAL RADIO
FREQUENCY RANGE
FM : 87.5 ~ 108 MHz
AM (9k) : 522 ~ 1710 kHz
AM (10k) : 520 ~ 1710 kHz
WX : 162.4 ~ 162.55 MHz

DC 6V   /400mA

4 x 1.5V BATTERIES
SIZE "D" (UM-1 / R20)

Controls

① Speaker
② Band button/Tuning step button
③ LCD display
④ Buzzer alarm button
⑤ Radio alarm button
⑥ Display button/Bandwidth button
⑦ Weather Alert button
⑧ Standby/Power button/Sleep button
⑨ Weather Alert indicator
⑩ Scan button/Time setting button
⑪ Tuning up button
⑫ Tuning down button
⑬ Preset button
⑭ Volume button
⑮ Headphone socket
⑯ Auxiliary input socket
⑰ DC IN socket
⑱ Battery compartment
⑲ Telescopic Antenna

Display icons

Ⓐ Battery power indicator

Ⓑ FM stereo indicator

Ⓒ Sleep/Snooze indicator

Ⓓ Buzzer alarm indicator

Ⓔ Signal strength meter

Ⓕ Radio alarm indicator

Ⓖ Weather alert mode (Alert light only)

Ⓗ Weather alert mode (Alert light+ Siren)

Ⓘ Weather alert mode (Alert light+ weather broadcasting)

Ⓙ Time set indicator

Ⓚ Bandwidth indicator

Ⓛ Clock second

Ⓜ Frequency and clock display

Ⓝ AM/PM indicator

Ⓞ Indicates Band in use

Ⓟ Aux in indicator

Battery operation

1. Open the battery cover on the rear of the unit by pressing the latch.

2. Insert four UM-1 (D size) batteries into the spaces in the compartment.

3. Make sure all batteries are inserted with correct polarity as shown on the rear cabinet. Replace the battery cover.

4. Reduced power, distortion and a "stuttering sound" or low battery sign flashing with an "E" shown on the display are all signs that the batteries need replacing.

5. If the radio is not to be used for an extended period of time, it is recommended that the batteries are removed from the radio.

Using the AC power adaptor

The AC power adaptor included with this unit is 6 volts DC at 400 mA center pin positive.

Insert the adaptor plug into the DC socket on the left side of the radio. Plug the adaptor into a standard AC outlet.

Whenever the adaptor is used, the batteries are automatically disconnected. The AC adaptor should be disconnected from the main supply when not in use.

IMPORTANT:
The AC power adaptor is used to connect 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 outlet completely.

Setting the clock

1. Clock can be set when the radio is powered on or off.

2. Display will show " -: - - " when the batteries are installed or when the radio is connected to the main power supply.

3. Press and hold the Scan/Time setting button until it beeps, the display will flash time set symbol as well as the hour digits.

4. Press Tuning Up/Down buttons to set the required hours.

5. Press the Scan/Time setting button, the minute digits will flash.

6. Press Tuning Up/Down buttons to set required minute.

7. Press the Scan/Time setting button to complete time setting.

Operating the radio

This radio is equipped with three tuning methods – Scan tuning, Manual tuning and Memory presets recall.

Note:
The PR-D4W is equipped with AM Auto Tracking that will automatically optimize the sensitivity of the station you're tuned to and helps pull in distant stations.

Scan tuning

1. Press the Standby/Power button to turn on the radio.

2. Select the required frequency band by pressing the Band button. For the FM band fully extend and rotate telescopic antenna to get best reception. For the (AM) band, rotate the radio to get the best signal. (Please note this radio has a built-in AM antenna)

3. Press and release Scan button (press and hold the Scan button for more than 2 seconds will activate time setting), the radio will up search and stop automatically when it finds a radio station. Press the Scan button again to listen to the found station.

Note:
The radio will continue to search for the next available stations if you do not press the Scan button again when it finds a radio station.

4. Rotate the Volume control to get your required sound level.

5. To turn off the radio, press the Standby/Power button. Display will show OFF.

If you want to know the current time, simply press the Display button.

Manual tuning/station searching

1. Press the Standby/Power button to turn on the radio.

2. Select the required frequency band by pressing the Band button. Adjust the antenna as described above.

3. Press and release the Tuning up/down button, this will change the frequency in the following increments:
   FM: 50 or 100 kHz
   MW: 9 or 10 kHz

4. Press and hold either Tuning Up or Down button until the frequency on the display begins to change rapidly. Your radio will search the selected frequency band and stop automatically when it finds a station of sufficient signal strength.

5. Rotate the Volume control to your required sound level.

6. To turn off the radio, press the Standby/Power button. Display will show OFF.

Storing stations in preset memories

There are 5 memory presets for each frequency band (FM1/FM2/AM1/AM2/WX), A total of 25 Presets.

1. Press the Standby/Power button to turn on the radio.

2. Tune to a required station using one of the methods previously described.

3. Press and hold down the required preset button until the radio beeps. The preset number, for example, 'M1', will appear on the display and the station will be stored under the chosen preset button.

4. Repeat this procedure for the remaining presets. Stations stored in preset memories can be overwritten by following above procedures.

Recalling stations from preset memories

1. Press the Standby/Power button to turn on the radio.

2. Select the required frequency band.

3. Momentarily press the required Preset button, the preset number and station frequency will appear on the display.

Listening to weather channels

The weather alert function on the radio can alert you to special weather related emergencies. During an emergency or weather-related hazard, NOAA issues an emergency tone that will set off an audible and/or visual alarm on the radio.

Note:
Hazard warnings are not available in all areas.

There are 7 standard NOAA weather channels used in the US and Canada. The radio receives broadcasts up to 40 miles from transmitting stations.

1. To listen to the standard NOAA weather channels, turn on the radio and extend the telescopic antenna to get better reception. Then press the WX alert button and WX is shown on the display.

2. The channel number of the weather station is shown on the display. Press the Tuning up/down button to select the programmed channels. There should be one or more weather service stations broadcasting in your local area. You will hear a report that is updated usually once or more per day for your area. If there is a severe weather or weather-related emergency, NOAA will update weather broadcast more frequently. If there is a weather Emergency, NOAA will issue an alert tone.

Setting the weather alert

There are three weather alert modes available. When the weather alert mode is activated, you can listen to the AM/FM station or turn the radio off without affecting you receiving an alert signal.

1. Follow the steps above to tune to the required weather channel.

2. Press and hold the WX Alert button until the radio beeps to activate the first weather alert mode. Now the alert symbol (**ALERT**)

   will show on the display. This is the weather alert with Alert light only. When a weather related emergency is issued, weather alert indicator will flash in red until any button is pressed.

3. Press and hold the WX Alert button again until it beeps to access the second mode. Now the alert mode (**ALERT**) will show on

   the display. In this mode, the alert indicator flashes red and the siren sounds off when the NOAA alert tone is issued.

   (Note: If you have headphones plugged in when an alert is issued, the siren will sound through the speaker instead of the headphones)

4. Press and hold the WX Alert button until the radio beeps to activate the third weather alert mode. Now the alert symbol (**ALERT**)

   will show on the display. In this mode, the red light flashes and the radio switches to weather broadcasting automatically.

Note:
While the alert indicator flashes, pressing any button on the radio will cancel the siren and turn the radio to the weather broadcast channel.

Turning off the weather alert

Press and hold the WX Alert button to turn off the weather alert. The Alert symbol will disappear from the display.

Setting the alarm

Your radio has two types of alarms which can be set to wake you to AM/FM radio or buzzer alarm (HWS, Humane Wake System Buzzer). The alarms may be set while the unit is off or while playing. Alarms will be retained in the event of a power failure. Ensure that the time setting is complete before setting the alarm time.

Note:
Radio alarm will automatically switch to buzzer alarm when the selected FM radio alarm station signal is too weak, but not in the case of AM radio alarm station. In addition, when the radio is in low battery status, both radio and buzzer alarm will sound off.

Setting the radio alarm
1. The radio alarm can be set when radio is on or off.

2. Press and hold the radio alarm button until the radio alarm ⏰-🔊 symbol flashes on the display followed by a beep.

3. Press the Tuning up/down button to select the desired hour and press the Time setting button to confirm the hour setting.

4. Press the Tuning up/down button to select the desired minute and press the Time setting button to confirm the minute setting.

5. While the radio alarm symbol is flashing, press the Tuning up/ down to select desired wake-up band and station, and then press the Time setting button to confirm the selection. Radio alarm setting is now completed. Active radio alarm indicator ⏰-🔊 is shown on the display.

Setting the HWS (Humane Wake System) buzzer alarm

A beep tone will activate when selecting the HWS alarm. The alarm beep will increase in volume every 15 seconds for one minute followed by one minute of silence before repeating the cycle.

The HWS alarm will sound for one hour until turned off by pressing the Standby/Power button. Press the Standby/Power button while the alarm is activated will cancel the alarm for 24 hours.

1. The buzzer alarm can be set when radio is on or off.

2. Press and hold the buzzer alarm button until the buzzer alarm symbol flashes on the display followed by a beep.

3. Press the Tuning up/down button to select the desired hour and press the Time setting button to confirm the hour setting.

4. Press the Tuning up/down button to select the desired minute and press the Time setting button to confirm the minute setting.

5. Press the Tuning up/down button to select the desired volume level (1-7) and press the Time setting button to confirm the volume setting. Buzzer alarm setting is now completed.

When the alarm sounds

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

Disabling/cancelling alarm setting

To cancel the radio/buzzer alarm setting before the alarm sounds off, press and hold the radio/buzzer alarm button until the radio beeps. The radio buzzer alarm indicator will disappear from the display.

Snooze function

When the alarm is sounding, press any button except the Standby/ Power button to activate the snooze function. The radio or HWS buzzer alarm will be silenced for intervals of 5 minutes.

The display will flash both the snooze symbol (🛌ᶻᶻ) and the alarm symbol. The sequence can be repeated during the 1 hour alarm period.

Sleep function

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

1. Press and hold down the Standby/Power button until the radio beeps. Keep pressing the Standby/Power button and the display will cycle through the available options of 60-45-30-15-120-90-60.

2. Release the Standby/Power button when the required sleep time appears on the display. The symbol ⊨⊐ will appear on the display.

3. To cancel the sleep function, press the Standby/Power button, the symbol will disappear and the radio is switched off.

Software version

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

1. Press the Standby/Power button to turn off the radio.

2. Press and hold the Band/step button until the radio beeps. Software version number (e.g. P01) is shown on the display.

Setting Tuning step

(Note: In Europe and other parts of the world the AM tuning step is 9 kHz, in North America the AM tuning step is 10 kHz. FM tuning steps also vary from country to country. To change the AM/FM tuning step proceed as follows)

1. Press and hold the Band/Tuning step button until the radio beeps and the display will switch to tuning step setting. Press the Tuning up/down button to choose the desired FM tuning step (50 kHz or 100 kHz) and press the Band/step button to confirm the setting.

2. After the confirmation of FM tuning step, press the Tuning up/down button to choose the desired AM tuning step (9kHz or 10 kHz) and press the Band/Tuning step button to confirm the setting.

Note:
change in the AM tuning step setting will result in the removal of the radio alarm settings and AM presets stored in the radio.

AM/FM Bandwidth narrowing

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

1. Select the AM or FM band by pressing the Band button.

2. Press and hold the Display button until the radio beeps to enter the bandwidth adjustment setting.

3. Press the Tuning up/down button to select the appropriate bandwidth. When receiving stronger AM/FM stations leave the radio in the default setting (AM 2.5 kHz/FM 110 kHz) for improved sound quality.

Note:
When using earphones to listen to the stereo radio station, it is necessary to set the FM bandwidth as 85kHz or 110kHz.Bandwidth narrower than 85kHz will be forced to turn to FM mono.

Factory reset

If you wish to completely reset your radio to its initial state this may be performed by following this procedure. By performing a factory reset, all user entered settings will be erased.

Press and hold Preset 5 button and the Band button at the same time until all the icons appear on the screen. Now the factory reset is completed.

Headphone socket

A standard 3.5mm headphone socket located on the left side of your radio is provided for use with either headphones, ear buds or an earpiece. Inserting a plug automatically mutes the internal speaker.

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

Auxiliary input socket

A standard 3.5mm Auxiliary input socket is provided on the left side of the unit to permit an audio signal to be fed into the unit from any devices that features a headphone or audio output, 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. Adjust the Volume control on your iPod, MP3 or CD player to ensure an adequate signal and then adjust the volume on the speaker for comfortable listening.

Specifications

Power Requirements

AC Power adaptor   DC 6V 400mA center pin positive

Batteries   4 X UM-1 (D size)

Battery Life   Approx. 120 hours of listening for 4 hours a day at normal volume using alkaline batteries

Frequency Coverage   FM 87.50 – 108 MHz
AW 522 – 1710 kHz (9 kHz/step) or
AW 520 – 1710 kHz (10 kHz/step)

Circuit Feature

Loudspeaker   3 inches 4 ohm

Output Power   800 mW

Headphone socket   3.5 mm dia.

Antenna System   Telescopic Antenna

Sangean reserves the right to amend the specification without notice.