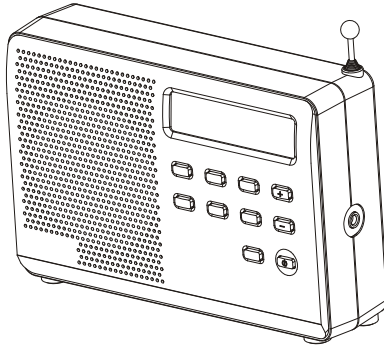




**INSTRUCTION MANUAL**

**RP-DB1**

**DAB+/FM Digital Radio**



# TABLE OF CONTENTS

SAFETY PRECAUTIONS.....	1
FEATURES AND CONTROLS.....	3
LCD DISPLAY WINDOW.....	3
LISTENING TO YOUR RADIO.....	3
GETTING STARTED.....	3
STORING AND RECALLING PRESET STATIONS.....	4
DISPLAY MODES.....	4
FACTORY RESET.....	5
TROUBLE SHOOTING.....	5

## SAFETY PRECAUTIONS

To achieve the utmost in enjoyment and performance, please read this manual carefully before attempting to operate the unit in order to become familiar with its features, and assure you years of faithful, trouble free performance and listening pleasure.

### Important Notes

- \* Read instructions - All the safety and operating instructions should be read before the apparatus is operated
- \* Retain instructions - The safety and operating instructions should be retained for future reference.
- \* Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- \* Attachment Do not use attachment not recommended by the product manufacturer as they may cause hazards.
- \* Power Sources -The apparatus should be connected to a power supply only of the type described in the operating instructions of as marked on the apparatus.
- \* "To be completely disconnected the power input, the mains plug of apparatus shall be disconnected from the mains." as the disconnect devices is the mains plug of apparatus.
- \* Power-Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the apparatus
- \* During Intended Use - The mains plug of apparatus should be easily accessed.
- \* Nonuse Periods - The power cord of the apparatus should be unplugged from the outlet when left unused for a long period of time.
- \* This apparatus shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the apparatus.
- \* The apparatus should be situated so that its location or position does not interfere with its proper ventilation. The ventilation should not be impeded by covering the ventilation openings with items such as newspaper, table-cloths, curtains etc.
- \* Do not install this apparatus in a confined space, such as a book case or built-in cabinet. Minimum distance (about 100mm) around the apparatus for sufficient ventilation.
- \* No naked flame sources such as lighted candles should be placed on the apparatus.
- \* Do not use where there are extremes of temperature (below 5°C or exceeding 35°C).
- \* Excessive sound pressure from earphones and headphones can cause hearing loss.
- \* Battery shall not be exposed to excessive heat such as sunshine, fire or the like.
- \* Attention should be drawn to the environmental aspects of battery disposal.
- \* The caution marking was located at the back enclosure of the apparatus.
- \* The nameplate marking was located at the back enclosure of the apparatus.
- \* The use of apparatus in moderate climates.

***ESD Remark: In case of malfunction due to electrostatic discharge, just reset the product (reconnect of power source may be required) to resume normal operation. Should any trouble occur, remove the power source and refer servicing to qualified personnel.***

**WARNING :** TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO DRIPPING OR SPLASHING.

For safety reasons, do not remove any covers or attempt to gain access to the inside of the product. Refer any servicing to qualified personnel.

Do not attempt to remove any screws, or open the casing of the unit; there are no user serviceable parts inside, refer all servicing to qualified service personnel.

### Note:

- This unit will become warm when used for a long period of time. This is normal and does not indicate a Problem with the unit.
- Excessive sound pressure from earphones and headphones can cause hearing loss.
- If an unusual conditions occurs in the display window or key button, switch the unit off, then turn on the unit again.

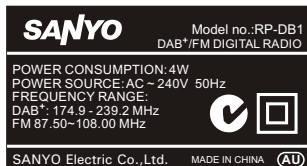


This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



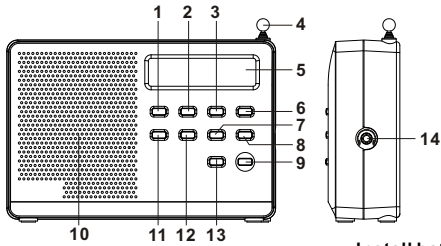
This symbol indicates that there are important operating and maintenance instructions in the information accompanying this unit.

You can see this carved picture on the back of the main unit.



You can see this label on the back of the main unit.

## FEATURES AND CONTROLS



- |                       |                      |
|-----------------------|----------------------|
| 1. SELECT DOWN BUTTON | 9. STANDBY/ON BUTTON |
| 2. SELECT BUTTON      | 10. SPEAKER          |
| 3. SELECT UP BUTTON   | 11. PRESET BUTTON    |
| 4. ANTENNA            | 12. MENU/INFO BUTTON |
| 5. LCD DISPLAY        | 13. DAB+/FM BUTTON   |
| 6. VOLUME "+" BUTTON  | 14. HEADPHONE JACK   |
| 7. SCAN BUTTON        | 15. AC CORD          |
| 8. VOLUME "-" BUTTON  | 16. BATTERY DOOR     |

### Install batteries

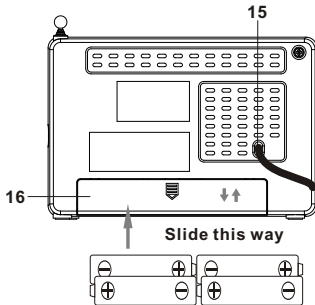
1. Remove the battery compartment cover on the back of the unit by pressing down and sliding the cover, as shown opposite.
2. Fit four UM-3, AA size batteries into the compartment that they have the correct polarity (see opposite).

**Note:** The AC plug shall be disconnected from the mains during the batteries are used.

### BATTERY PRECAUTIONS

Follow these precautions when using a battery in this device:

1. Warning - Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
2. Use only the size and type of battery specified.
3. Be sure to follow the correct polarity when installing the battery as indicated in the battery compartment. A reversed battery may cause damage to the device.
4. If the device is not to be used for a long period of time, remove the battery to prevent damage or injury from possible battery leakage.
5. Do not try to recharge a battery not intended to be recharged; it can overheat and rupture. (Follow battery manufacturer's directions.)
6. Battery shall not be exposed to excessive heat such as sunshine, fire or the like.



## LCD DISPLAY WINDOW



- |                                     |
|-------------------------------------|
| A. SIGNAL STRENGTH SYMBOL INDICATOR |
| B. VOLUME HIGH/LOW INDICATOR        |
| C. TRACK/NUMBER/TIME INDICATOR      |

## LISTENING TO YOUR RADIO

### Hints for better reception

This radio is fitted with a single DAB+/FM telescopic antenna, to obtain the best performance, you should fully extend the antenna and adjust its position as well as the direction until you find the best reception. For ideal DAB reception, a vertical upright position is highly recommended.

## GETTING STARTED

### AC operation

When the radio is connected to the AC power for the first time, it will be in standby mode. The display backlight will be on, the display will first show the "Welcome" and finally the clock. Press the **STANDBY/ON** button once to turn the radio on, it will then automatically enter into the DAB mode and perform auto scan function. Once the scan has finished, the radio will select the first alphanumerically found station. You can now press the ◀ or ▶ buttons to explore the found stations.

### DC (Battery) operation

In DC operation, the **STANDBY/ON** button will work as a **POWER ON/OFF** button. The display will be totally off when the radio is powered off.

1. Ensure the radio is disconnected from the AC mains.
2. Installed the batteries (4XUM3/AA battery) into the battery compartment.
3. Press the **STANDBY/ON** button on the front panel to toggle the radio between on and off.

**Important Note:** To obtain the best performance in DC operation, the use of alkaline batteries is highly recommended.

### Clock setting

The clock will be automatically synchronized to the DAB clock if you can receive DAB signals in your location.

### DAB auto scan mode

1. To select DAB mode, press the DAB+/FM button, it will search all DAB Band III channels. Also, you can press SCAN button to perform automatically scan once. Once the scan has finished, the radio will select the first alphanumerically found station.
2. To explore the stations that have been found, press the ◀ or ▶ button.
3. To active your desired stations, press the SELECT button to confirm.

## DAB manual tune

1. To select manual tune, press and hold the **MENU/INFO** button until the display shows "Manual". (F.1)
2. To enter the ensemble/multiplex, press the **SELECT** button, the display will show the first station in the ensemble/multiplex.
3. Press the ◀ or ▶ buttons to move through the DAB channels, the display will show "5A to 13F" and their associated frequencies. When your radio locates a station group (ensemble/multiplex) on one of the DAB channels, the name of the station group will appear in the display. (F.2)
4. Press the ◀ or ▶ buttons to see what stations are present on the found ensemble/multiplex, when you have located your desired station, press the **SELECT** button, and at the same time, you will also exit from the manual tuning mode.



## DAB secondary services

On some occasions you will see a ">" symbol appeared after the name of the station, this indicates that there are secondary services available to that station. These secondary services contain extra services that relate to the primary station. To select the secondary service, press the **SELECT** button.

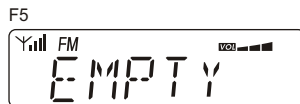
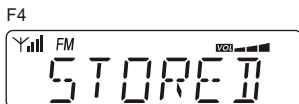
## FM radio

1. To select FM, press the **DAB+/FM** button, the display will show the station name or frequency.
2. To activate auto search up/down, press the ◀ or ▶ buttons, and then press the **SCAN** button once, it will start scanning up/down the frequency band and stop automatically once a station has been found.
3. To activate manual search, press the ◀ or ▶ buttons.

## STORING AND RECALLING PRESET STATIONS

In either DAB or FM mode, you can store up to 10 stations to the presets; this will enable you to get direct access to your favourite stations.

1. To store a preset, first tune to your desired station, then press and hold the **PRESET** button until the display shows the preset number and flash, you will have approximately 5 seconds to perform the next step. (F.3)
2. Press the ◀ or ▶ buttons to select your desired station preset number and then press the **SELECT** button to confirm your selection. The display will show "STORED". (F.4)
3. To recall a preset station, press the **PRESET** button once, then press the ◀ or ▶ buttons to select the stations that you have stored, when your desired preset number and its associated frequency appears in the display, press the **SELECT** button to confirm. If the preset hasn't been allocated a station, the display will show "Empty". (F.5)



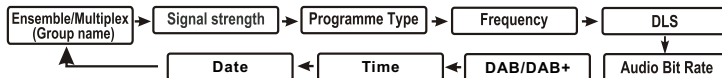
## DISPLAY MODES

### In FM mode

1. Press the **MENU/INFO** button once, the display will show the Time.
2. Press the **MENU/INFO** button twice, the display will show the Date.
3. Press the **MENU/INFO** button for longer than 2 seconds, the display will show SYSTEM.

### In DAB mode

1. Press the **MENU/INFO** button once, the display cycle through the following display modes:



2. Press the **MENU/INFO** button for a long time enter into tune select menu, then press the ◀ or ▶ button, the display will cycle through the following display mode:  
Press the **SELECT** button to active your desired station.



### Signal strength

The display will show a slide bar to indicate the signal strength, the stronger the signal, the longer the bar will be from left to right.

### DLS

DLS stands for Dynamic Label Segment which is a scrolling message that the broadcaster may include in their transmissions. The message usually includes information such as programme details ...etc.

### Programme type

This describes the style of the programme that is being broadcast.

### Ensemble/Multiplex (Group name)

The Ensemble/Multiplex is a collection of radio stations that are bundled and transmitted together in a single frequency. There are national and local multiplexes, local ones contain stations that are specific to that area.

### Time and date

The time and date will be automatically updated by the broadcasted information; there is no need to set the clock manually.

### Frequency

The frequency of the present station will be displayed.

### Audio bit rate

The display will show the digital audio bit rate being received area.

### Manual

This describes that you can select your favorite station manually.

### DRC

The display will show HIGH, LOW and OFF for quality of tone.

### PRUNE

This describes the preset station will be PRUNE or not.

### SYSTEM

This describes the software version and RESET.

## FACTORY RESET

When you move the radio to another part of the country, your pre-tuned and stored DAB stations may no longer be available. If this is the case then you will need to reset your radio back to its original factory settings; to perform a factory reset, please do the following:

1. Plug the radio to mains and press the STANDBY/ON button once to turn the radio on.
2. Press the MENU/INFO button for longer than 2 seconds, then press the ◀ or ▶ button to select SYSTEM mode.
3. Press the SELECT button once to confirm, and then press the press the ◀ or ▶ button to select RESET.
4. Press the SELECT button once to confirm, and then press the press the ◀ or ▶ button to select Y.
5. Press the SELECT button again to confirm, the display will show "RESTART"
6. The unit will then automatically enter into the DAB mode and perform auto scan function. After the scan has finished, the radio will select and display the first alphanumerically found station.

Note: All of your stored DAB & FM presets will be lost once the reset has taken place.

## LISTEN TO THE MUSIC BY USING HEADPHONE

Plug your headphones (3.5mm mini-stereo plug) into the headphones jack on the right side of the unit. The sound will be heard through the headphones, not the speaker.

## SPECIFICATION

POWER SUPPLY :	AC ~ 240V 50Hz DC ---6V 4 xUM-3/AA
OUTPUT POWER :	0.5 W
FREQUENCY RANGE :	DAB+ 174.9 - 239.2 MHz FM 87.50 - 108.00 MHz
UNIT DIMENSION :	150 (W) x 40 (D) x 100 (H) mm
WEIGHT:	0.425kg

\*\*\*SPECIFICATION SUBJECT TO CHANGE WITHOUT FURTHER NOTICE.

## TROUBLE SHOOTING

### SYMPTOM

#### POSSIBLE CAUSE CORRECTIVE ACTION

---

No power  
No mains lead plug connection at the AC outlet.  
Insert the plug into the AC outlet.

---

The main unit does not work properly. The batteries in the main unit are weak, or installed incorrectly.  
Check the battery polarity (+ or -). Replace the battery.

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No sound.  
Volume control is set to minium.  
Turn up the volume.  
The wrong function is selected.  
Select the correct function.

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The operation of the unit or display is not normal.  
The unit must be reset.  
1. Disconnect the main lead and replug again.  
2. Resume operations.

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**SANYO Electric Co., Ltd.**  
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