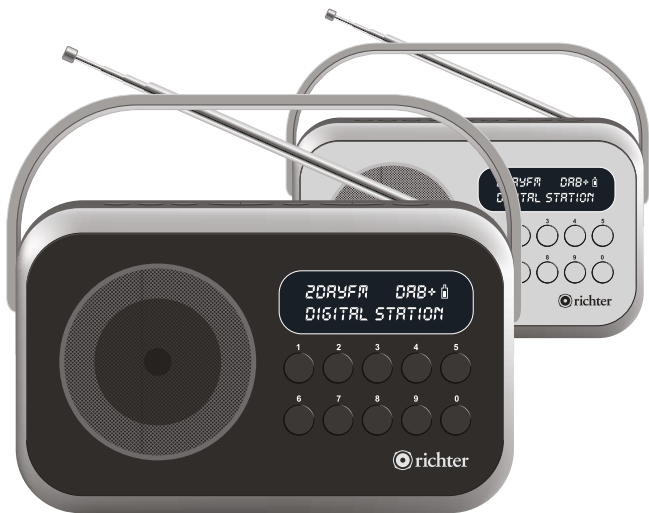


# DIGITAL RADIO

DAB+ | FM + AM Tuner



User Manual

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## Important Safety Information

- This product is only intended for audio entertainment. Do not use the product for any other purpose than described in its manual in order to avoid any hazardous situation. Improper use is dangerous and will void any warranty claim.
- For household use only. Do not use outdoors.
- **Danger!** Excessive sound pressure from earphones and headphones can cause hearing loss. If you listen to loud music for a long time, your hearing may be impaired. Set to a moderate volume.
- **Danger of suffocation!** Keep all packaging material away from children.
- Only use under normal room temperature and humidity conditions.
- The product is only suitable for use at moderate degrees of latitude. Do not use in the tropics or in particularly humid climates.
- Outdoor antennas should be located away from power lines.
- Do not move the product from cold into warm places and vice versa. Condensation can cause damage to the product and electrical parts.
- Do not use attachments or accessories other than recommended by the manufacturer or sold with this appliance. Install in accordance with its user manual.
- When installing the product, leave sufficient space for ventilation. Do not install in bookcases, built-in cabinets or the like.
- Do not install near any heat sources such as radiators, heat registers, stoves or other appliances (including amplifiers) that produce heat.
- Do not apply excessive force to the front or top, as it could ultimately overturn the product.
- Do not shift or move the product when powered on.
- Do not touch, push or rub the surface of the product with any sharp or hard objects.
- **Danger!** To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- The product should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the product.
- No naked flame sources, such as lighted candles, should be placed on the product.
- Before connecting the product to a socket outlet, make sure the voltage indicated on the product corresponds to your local mains.
- Never pull the adaptor power plug by the supply cord or with wet hands.
- Disconnect the adaptor power plug in case of faults during use, during lightning storms, before cleaning and when not using the product for a longer period of time.
- **Danger!** Before cleaning, switch the product off and disconnect the adaptor power plug from the socket.
- When the product has reached the end of its service life, make it defective by disconnecting the adaptor power plug from the socket and cut the cord in two.

## Specifications

ITEM	SPECIFICATIONS
Model:	RR28 DABAM
Speaker:	1 x 3", 8 ohm dynamic speaker Output: 1.2W RMS
Frequency Ranges:	DAB: 174 - 240 MHz, FM: 87.5 - 108 MHz AM: 522 - 1620 KHz
Mains Power Supply:	AC: 230V ~ 50Hz
Battery Power Supply	DC: 4.5V Battery (3 x C Batteries (not supplied))
Dimension:	185mm (W) x 50mm (H) x 120mm (D) (excluding Handle)
Wiegth (Net):	Approx. 0.56 kg

*\*Information of this user manual is subject to change without prior notice.*

## Service

This product should be repaired or serviced only by an authorised service engineer and only genuine spare parts should be used.

## Packing List

1 x PORTABLE RR28 DABAM  
Digital Radio

1 x Mains Power Lead  
1 x Instruction manual

Thank you for purchasing this Richter DAB AM Digital Radio.  
Please read the instructions and warnings carefully before use to  
ensure safe and satisfactory operation of this product.

## Precautions

1. For AC operation, make sure the voltage is compatible. Always use the supplied AC power cord; never use other AC power cord.
2. Always disconnect the AC power cord from the AC power source when it is not in use.
3. Your product requires 3 x C batteries (not provided) for portable operation.
4. Batteries should be removed and replaced by adults only.
5. Only use recommended batteries or those of the same or equivalent type.
6. Do not mix old and new batteries or batteries of different types.
7. Batteries are to be inserted with the correct polarity.
8. The supply terminals are not to be short-circuited.
9. Remove exhausted batteries from item.
10. Remove batteries if equipment is not used for extended periods of time.
11. Rechargeable batteries are to be removed from the item before being recharged.
12. Rechargeable batteries are only to be charged under adult supervision.
13. Do not attempt to recharge non-rechargeable batteries.
14. Batteries contain substances that may be harmful to the environment and human health.
15. Keep out of the reach of children and seek immediate medical help if swallowed.

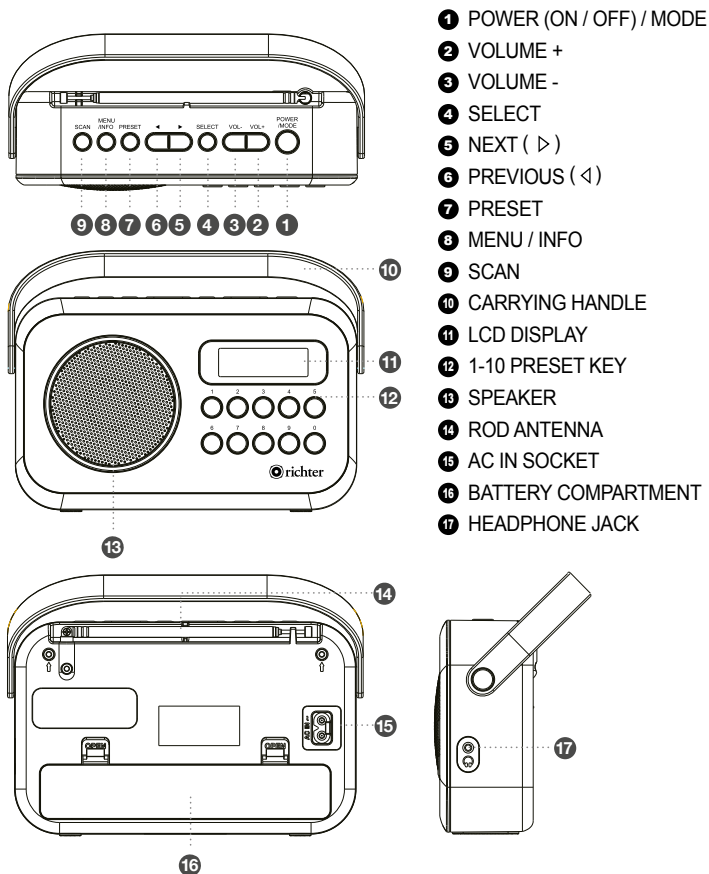


This symbol indicates that batteries should not be disposed of in the normal household waste but taken to appropriate local recycling facilities, where and when these are available



Never throw batteries in a fire or attempt to open outer casing.

## Your Portable DAB+/FM/AM Digital Radio



# Basic Operation

## 1. POWER SUPPLY

### AC Operation

- Insert one end of the supplied AC power cord into the AC IN socket located at the back of the radio and insert the other end into the wall outlet and switch on. The radio will automatically go into standby mode when connecting to AC power.
- To disconnect the radio from the AC supply completely, unplug the AC power cord plug from the wall outlet and from the back of the radio.

### DC (battery) Operation

- To operate your radio on batteries, the AC adaptor must be disconnected from the radio and wall socket. If not, the unit will continue to operate on AC power, instead of DC batteries.
- Insert 3 batteries, type R14, UM2 or C cells (not included) into battery compartment and then close the compartment cover.

**Warning:** When planning not to use the radio for prolonged periods of time (i.e., a vacation) disconnect the plug from the wall outlet.

**Note:** Check your batteries regularly. Old or discharged batteries should be replaced. If the unit is not to be used for some time or is being used exclusively on AC main power supply, remove the batteries from the battery compartment to avoid leakage.

## 2. NORMAL OPERATION

- Press and hold the **POWER/MODE** button to switch the radio on. When your radio is switched on for the first time it will automatically enter the DAB mode and perform a Full Auto Scan.
- To change mode Quick press **POWER/MODE** button once or more to select FM, AM, or DAB. The display shows the radio station details throughout the radio mode.
- To search for other stations continue to press the ◀ / ▶ button until you find the station that you want to listen to then press **SELECT** button to confirm the station selection.
- To adjust the volume press either **VOL-** or **VOL+** to decrease or increase the volume.

- To switch the radio into standby mode, press and hold **POWER/MODE** button to enter Standby.
- When using DC Battery power, to switch off the radio, press and hold **POWER/MODE** button to switch the radio off.

**Note:** (There is no standby mode when using DC Battery power to save battery life)

### 3. LISTENING TO DAB RADIO

- Press and hold the **POWER/MODE** button to switch the radio on. When your radio is switched on for the first time it will automatically enter the DAB mode and perform a Full Auto Scan.
- During the scan, the display will show “**Scanning.....**” together with a progress bar that indicates the progress and the number of stations that have been found so far. Once the scan has finished, the unit will select the first found station.
- To search for other stations continue to press the ◀ / ▶ button until you find the station that you want to listen to then press the **SELECT** button to confirm the station selection.

To repeat an Auto Scan, switch the radio on, then press and hold the **SCAN** button until the display shows “**Scanning .....**” together with a progress bar that indicates the progress of the scan and the number stations that have been found so far.

**DAB Auto Scan:** A full auto scan will search the entire DAB Band for all available stations.

### 4. MANUAL SCAN

As well as Auto Scan, Radio Station Frequencies can be manually selected. You can manually tune to a particular channel/frequency, and you will need to know the missing radio station Frequency to complete a Manual tune.

- With the radio switched on press and hold **MENU/INFO** button, then press ◀ / ▶ until the display shows “Manual tune” and then press **SELECT**.
- Press ◀ / ▶ to select desired channel (5A-13F), press **SELECT** to enter the channel.



## 5. LISTENING TO AM / FM MODE

### Manual tuning

- When in FM or AM mode Press ◀ / ▶ once or more until the desired frequency is found.

### Automatic tuning

- Press and hold the **SCAN** button until the display frequency starts to run.
- When a station of sufficient strength has been found it will stop tuning, or you can start automatic tuning by pressing **SCAN** again.

## 6. PRESET MEMORY SETTINGS

You can store the frequencies of up to 60 radio stations in the memory, (20 in DAB+, 20 in FM and 20 in AM). A stored frequency can be erased from the memory by storing another frequency in its place.

To preset a station in DAB, FM or AM mode.

- Select your desired band, DAB+, FM or AM and tune to your desired station.
- Press and hold the **PRESET** button until you see Preset Store in the display.
- Press ◀ / ▶ to select the desired memory position/number and press **SELECT** to confirm the selected station to that position/number.

**You also have 10 Quick Preset buttons:** To preset a station to a quick preset button 1-0, press and hold the desired **PRESET** button 1-0 until "**Preset Store**" appears in the display

### Preset Recall Settings

- To Recall a preset station press the **PRESET** button to enter Preset Recall mode and press ◀ / ▶ to select the desired saved station and press the **SELECT** button to recall / play that station.
- To Recall a Quick preset position 1-0 just quick press the desired saved number to play the station saved to it.

### To improve reception:

- For FM, pull out the telescopic aerial. To improve FM Reception incline and turn the aerial, reduce its length if the FM-signal is too strong (close to a transmitter).
- For AM, the set is provided with a built-in aerial, so there is no need to use the telescopic aerial. Turn or move the radio to find the best position or location.

### 7. LISTENING TO HEADPHONES

You can connect a set of headphones (not included) to 3.5mm **HEADPHONE output jack**. The radios speaker is then muted.

**Note:** Avoid listening to headphones at high volume levels to prevent possible hearing damage.

### 8. SETTING TIME

When used in DAB radio mode the radio scans the DAB radio signal for the current time which will appear on the display. If no DAB signal is found, the time cannot be set. It may be necessary to relocate your radio to a better position giving better reception or set the time manually.

### 9. AUTO TIME SETTINGS

With the radio switched on Press and hold **MENU/INFO** button until you see Full Scan in the display then Press ◀ / ▶ until the display shows **"System"** and press **SELECT** to confirm, then Press ◀ / ▶ until the display shows **"Time"** and press **SELECT** to enter Time settings.

- **Auto update:** Press ◀ / ▶ until the display shows **"Auto update"**, then press **SELECT** and press ◀ / ▶ to select update From Radio or No Update, then press **SELECT**.
- **12/24 Hour time:** Press ◀ / ▶ until the display shows **"Set 12 / 24 hour"**, and press **SELECT** then Press ◀ / ▶ to Set 12 or 24 hour selection and press **SELECT** to confirm.
- **Set date format:** Press ◀ / ▶ until the display shows **"Set date format"** and press **SELECT**, then Press ◀ / ▶ to Set **DD-MM-YYYY** or **MM-DD-YYYY** selection and press **SELECT** to confirm.  
Default is **DD-MM-YYYY**

### 10. MANUAL TIME SET

- With the radio switched on Press and hold **MENU/INFO** button until you see Full Scan in the display then Press ◀ / ▶ until the display shows **"System"** and press **SELECT** to confirm,
- then Press ◀ / ▶ until the display shows **"Time"** and press **SELECT** to enter and the display will show **"Set Time / Date"**, then press **SELECT** to enter time and date setup.

To set the hours, minutes, and dates, press ◀ / ▶ while the display is still flashing, then press **SELECT** to confirm hours, minutes and dates.

## 11. ALARM SETTINGS

**Note:** Alarm functions will not work on battery power, the Radio must be connected to mains power source for Alarms to function.

The **RR28DABAM** radio has 2 alarm functions for 2 different alarm settings (Alarm 1 and Alarm 2) Once an alarm is activated you will find the alarm icon in the display.

### Alarm Setup

- With the radio switched on press and hold **MENU/INFO** button until you see “**Full Scan**” in the display, then press ◀ / ▶ until the display shows “**System**” then press **SELECT**.
- Press ◀ / ▶ until the display shows “**Set Alarm,**” then press **SELECT** to confirm.
- Press ◀ / ▶ to select “**Alarm 1 or Alarm 2**”, then press **SELECT** to confirm.
- Press ◀ / ▶ to select “**Alarm On**”, then press **SELECT** to confirm.
- **Note:** To deactivate the alarm, select “**Alarm Off**”.
- 5. Now the hour digits flash. Press ◀ / ▶ to set the hour for you alarm and press **SELECT** to confirm.
- 6. The minute digits flash. Press ◀ / ▶ to set the minute for you alarm, and press **SELECT** to confirm.
- 7. If using 12-hour time Press ◀ / ▶ to set AM or PM for you alarm, and press **SELECT** to confirm.
- 8. Press ◀ / ▶ to select a frequency from Daily, Once, Weekdays or Weekends, then press **SELECT** to confirm.
- 9. Press ◀ / ▶ to select the sound source from: DAB, FM Radio or BEEPER and press **SELECT** to confirm. **Note:** AM cannot be selected as an alarm wake up option.
- 10. Press ◀ / ▶ to set the volume for your alarm, then press **SELECT** to confirm.

**Your Alarm is now set**, when the radio is switched off the Alarm icon will appear in the display.

### Snooze Function

- When alarm sounds, you can press the **SELECT** button to temporarily suspend the alarm. The radio will alarm again in 9 minutes. (The Snooze interval time is 9 minutes).
- Snooze can be repeated until another button is pressed.

### Sleep Mode Setting

- With the radio switched on Press and hold **MENU/INFO** button until you see “**DAB <FULL SCAN>**” in the display.
- Press the ◀ / ▶ button until the display shows “**System**”, then press **SELECT** to confirm, the display will then show “Sleep”, press **SELECT** to confirm.
- Then press the ◀ / ▶ button to select either **OFF** or choose the desired Sleep time **15 / 30 / 45 / 60 / 90** minutes and press **SELECT** to confirm, after a few seconds or if you press the **MENU/INFO** button twice the display will return to normal radio mode and a S will appear in the right side of the display indicating Sleep Timer is active.
- You can still press the **POWER/MODE** button to turn off the radio at any time.

### 12. BACKLIGHT TIME OUT SETTINGS

- With the Radio switched on Press and hold the **MENU/INFO** button until you see “**Full Scan**” in the display and then press the ◀ / ▶ button until the display shows “**System**” and press **SELECT** to confirm, then the press ◀ / ▶ button until you see Backlight in the display and press **SELECT** to confirm and the display will show “**Timeout**” and then press **SELECT** to enter Timeout options.
- Using the ◀ / ▶ button you can select **ON**, (Always on), or **10, 20, 30, 45, 60, 90, 120, 180**, The factory default is 30 seconds.

### 13. FACTORY RESET

If you experience any issues with your radio a factory reset can restore your radio's software.

#### To complete a factory reset:

- With the Radio switched on Press and hold the **MENU/INFO** button until you see “**Full Scan**” in the display and then press the ◀ / ▶ button until the display shows “**System**” then press **SELECT** to confirm, Press ◀ / ▶ until you see Factory reset in the display and press **SELECT** now press ◀ / ▶ to select Yes and press **SELECT** to confirm and a Factory Reset will begin.

**Note:** The radio will then complete a Factory reset and switch to standby. When the radio is switched on the radio will commence a new DAB Auto scan.

## Troubleshooting

<b>PROBLEM</b>	<b>SOLUTION</b>
FM Hiss / DAB Burlbling / Intermittent	Usually due to low signal strength. Check / move antenna. Move radio. Rescan local (high-strength) stations only. (For DAB, check local coverage at <a href="http://www.digitalradioplus.com.au">www.digitalradioplus.com.au</a> "Can I Get DAB+ Digital Radio" then rescan stations).
AM Interference	Move near to a window.

**FOR DAB STATION ISSUES A FACTORY RESET CAN RESTORE YOUR RADIO'S SOFTWARE.**

## Error Messages

<b>PROBLEM</b>	<b>CAUSE</b>
<b>DAB mode</b>	
Service not available	No DAB reception.
Signal error	The DAB signal has been interrupted.
No DAB Station	The listed station cannot be found.
(No Name)	The current station does not broadcast an identity name.
No stations found	No DAB stations are available - check aerial.
<b>FM mode</b>	
No Radio Text	No RDS text information is available on this station.
No PTY	No RDS programme type information is available.
No Name	No RDS station name is being broadcast.

## **YOUR WARRANTY**

THE ENCLOSED TERMS AND CONDITIONS RELATE TO THE WARRANTY PROVIDED BY RICHTER AUDIO PTY LTD ("Richter Audio") (ABN 22 613 067 815) products purchased within Australia.

This warranty applies for a period of 1 Year (12 months) from the date of purchase ("Warranty Period")

### **GENERAL TERMS AND CONDITIONS OF STANDARD WARRANTY**

- 1 Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 2 The benefits to the consumer given by this Warranty are in addition to other rights and remedies of the consumer under a law in relation to goods or services to which the warranty relates, being the Australian Consumer Law.
- 3 Subject to Clause 1 above and the terms below, as your Standard Warranty, Richter Audio agrees to repair or replace at cost the Richter product, and any accessory supplied with the product, purchased by you in Australia when the product does not perform in accordance with the manufacturer's specifications during the Warranty period.
- 4 To make a claim under the Standard Warranty you will need to:
  - (a) Contact Richter Audio through our website [www.richter.com.au](http://www.richter.com.au) for customer support.
  - (b) Refund or replacement via your Richter Audio's Authorised Retailer is available for a period of 14 days after purchase for goods that have been inspected and determined to have a major failure. Refund and exchange is not applicable if you change your mind after purchase.
  - (c) Note that you will need to submit proof of purchase (e.g. delivery invoice, invoice or purchase receipt) with your claim.
- 5 Products presented for repair may be replaced by refurbished products of the same type rather than being repaired. Refurbished parts may be used to repair the products. Replacement of the product or a part does not extend or restart the Warranty Period.
- 6 If the product presented for repair is capable of retaining user-generated data, you are advised that repair of the product may result in loss of the data. Richter Audio shall not be held responsible for any loss of such data as a consequence of fault-find or repair process.

- 7 The product will be at the owner's risk whilst in transit to and from the Richter Audio Service Centre, unless transported by Richter Audio or 3rd party transport booked by Richter Audio.
- 8 Richter Audio will bear the expense of transport where transported by Richter Audio. Any other expense of claiming the warranty will be covered by the owner of the goods.
- 9 Richter Audio may seek reimbursement of any costs incurred by them when the product is found to be in good working order. The owner of the goods will cover any return transport cost.
- 10 Products returned to Richter Audio by a courier and are damaged in transit by insufficient packing will be quoted and the cost of the repair will be covered by the owner of the goods.

## **EXCLUSIONS AND LIMITATIONS**

- 11 Subject always to Clause 1 the Standard Warranty will not apply:
  - (a) if the product has not been installed, operated, maintained or used in accordance with the manufacturer's instructions or specifications provided with the product.
  - (b) to damage, malfunction or failure resulting from alterations, accident, misuse, abuse, fire, liquid spillage, mis-adjustment of customer controls, use on an incorrect voltage, power surges and dips, thunderstorm activity, acts of God, voltage supply problems, tampering or unauthorised repairs by any persons, use of defective or incompatible accessories, the operation of a computer virus of any kind, exposure to abnormally corrosive conditions or entry by any insect, vermin or foreign object in the product.
  - (c) to damage arising during transportation, installation or while moving the product, or to any transportation costs of the product or any parts thereof to and from the owner, unless otherwise specified in this Warranty.
  - (d) to any third-party software or hardware not contained in the product as originally configured by the manufacturer.
  - (e) to any failure, to the extent that the failure is not a failure of the product to perform in accordance with its specifications.



**richter**

For support and warranty registration visit

**[www.richter.com.au](http://www.richter.com.au)**

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.