

PORTABLE DIGITAL RADIO

DAB+ / FM



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 this 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:	Portable RR20
Speaker Power:	1 x 2.5" Speaker output 3.0W RMS 10%
Frequency Ranges:	FM: 87.5-108MHz. DAB: 174 - 240 MHz
USB Playback	mp3, wma, wav files on memory sticks up to 32GB
Power Supply:	Micro USB (5V, 1Amp)
Charging Time:	Approx. 2.5 Hours
Playtime Time:	Approx. 12 Hours @ 50% volume
Dimension:	190mm (W) x 50mm (H) x 110mm (D)
Wieght (Net):	Approx. 0.43 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.



This symbol (WEEE) indicates that this product should not be treated as normal household waste and it should be recycled. Please take it to your nearest collection facility or for further details contact your local council.

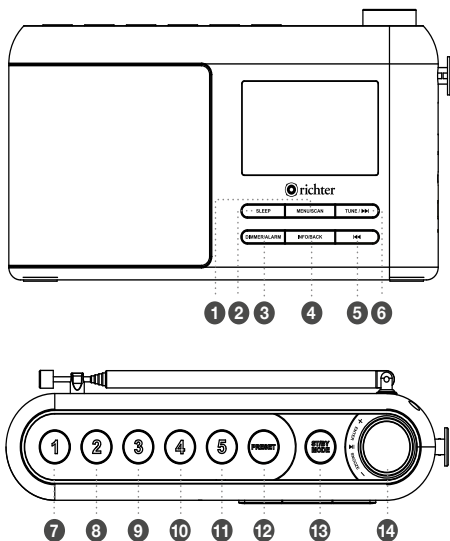
Packing List

1 x Portable RR20 DAB/FM
Digital Radio

1 x Micro USB Charge Lead
1 x Instruction manual

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

Your Portable DAB+/FM Digital Radio



- 1** Menu /radio station scan button
- 2** Sleep button (15 - 90 Minute)
- 3** Dimmer/Alarm button
- 4** Info/Back button
- 5** USB/Bluetooth track back button
- 6** Radio station Tune/USB/ Bluetooth track next button
- 7 - 11** Radio Station Quick Preset memory buttons
- 12** Radio Station Preset memory and Preset Recall Button
- 13** Power on/off and Mode selection button, Long press the button to power on/off, quick press the button to choose the mode.
- 14** Volume/Scroll/Select/Mute/ Pause&Play/Snooze, Rotary dial.

Basic Operation

1. Charging the radio

The Portable RR20 Radio comes with a built in 3.7v/1800mAh rechargeable Lithium Battery and is supplied with one USB to micro-USB cable for recharging. Playback approx. 12 hours @ 50% volume when fully charged.

Note: Before first use, fully charge the radio for best performance.

- To charge carefully plug the micro-USB end of the supplied cable into the micro-USB “**DC 5V IN**” charge input on the right side of the radio. Connect the other USB end to a power source such as a computer USB port or a USB power adapter. (Not included)
- The radio will start charging and give a small red charge indication light above the charge input. Charge time could take 2.5 to 3 hours to fully charge the battery. Charging will stop when the radio is fully charged.
- The radio can also be used when connected to a USB power source and when switched off will enter a “**Standby**” mode enabling Alarm settings to function.

2. Listening to DAB Radio

- Press and hold the ^{ST/BY}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 alphanumerically found station.
- Rotate the Volume dial to adjust the volume, a quick press of the dial will Mute the volume or Unmute volume.
- To search for other stations, press the **TUNE / >>I** button to enter the station list mode and rotate the volume dial to scroll through the station list. When you find a station that you want to listen to, press the dial to confirm that station selection.



NOTE: If no DAB stations are found after auto scan the unit will enter the Tune Select Menu. Try changing the location of the radio and extend or adjust or the antenna. Rotate the dial to select “Full Scan” or “Manual Scan” and rescan.

- To repeat an Auto Scan press and hold **MENU/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.

3. DAB Manual Tune

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.

- Quick press the **MENU/SCAN** button to enter Station scan mode and then press the dial to confirm, rotate the dial to select “**Manual tune**” mode and then press to confirm.
- Rotate the dial to cycle through the DAB Channels/Frequencies, which number from 5A to 13F.
- After your desired channel number is selected, press the dial to enter the current multiplex, it will now display the multiplex and below you will see the signal strength.

Note: You will not see any new radio stations or hear anything while in manual tune. To find the newly tuned station search through the station list.

4. Listening FM Radio

Press and hold the ^{ST/BY}MODE button to switch the radio on then quick press the ^{ST/BY}MODE button to select the FM mode.

- Press and hold the “**MENU/SCAN**” button to enter auto scan and preset mode, During the scan mode the display will show “**Scanning.....**” and then It will pre-set all the stations which were found during the auto scan.
- Once the scan has finished, the unit will select the first alphanumerically found station.
- Rotate the Volume dial to adjust the volume, a quick press of the dial will Mute the volume or Unmute volume.
- To search for other found stations, press the “**PRESET**” button and rotate the dial to scroll through the saved station list. When you find a station that you would like to listen to, press the dial to confirm the new station selection.

5. Preset Memory Setting

- To preset a station In DAB or FM mode, press and hold the **PRESET** button until “**Preset Store**” appears in the display.

Rotate the dial to select the desired preset position/number and press the dial to save the station to that preset position/number. “**Preset (and the selected number) Stored**” will appear in the display.

- **Quick Preset buttons 1-5:** To preset a station to a quick present button 1-5, press and hold the **PRESET** button until “**Preset Store**” appears in the display then press and hold the chosen quick preset button 1-5 until “**Preset (and the selected number) Stored**” appears in the display.

Preset Recall Setting

- To Recall a preset station Quick press the **PRESET** button to enter Preset Recall mode and rotate the dial to select desired saved station and press the dial to recall / play that station.
- To Recall a Quick preset position 1-5 just press the desired saved number to play the saved station.


6. Bluetooth Playback

Make sure your Bluetooth smart device is near the radio. The maximum Bluetooth working distance is 10 meters from the radio but different environments like internal walls will reduce the working distance.

- Press and hold the ^{ST/BY}MODE button to switch the radio on then quick press the ^{ST/BY}MODE button until you select **BLUETOOTH** mode and ("**Bluetooth**") will flash on the Radio display
- On your smart device go to Bluetooth and make sure Bluetooth is turned on, Search My Devices and select "**PORTABLE RR20**" to pair to the radio.
- Rotate the Volume dial on the radio to adjust the volume, a quick press of the dial will Pause Bluetooth playback or restart Playback. You may need to also adjust the volume from your smart device.
- Press **TUNE/>>I** button to Skip forward tracks and press **I<<** button to skip back tracks.

Note: To Disconnect your smart device press and hold the volume dial.

7. Playback from a USB stick

- Plug the USB memory stick into the USB  input on the right of the unit.
- Press and hold the ^{ST/BY}MODE button to switch the radio on then quick press the ^{ST/BY}MODE button until you select "**USB**" mode in the display and then "**Reading.....**" will appear below.
- Rotate the Volume dial on the radio to adjust the volume, a quick press of the dial will Pause playback or restart Playback.
- Press **TUNE/>>I** button to Skip forward tracks and press **I<<** button to skip back tracks.

8. Playback from AUX IN

- Plug the 3.5mm aux audio cable into the "**AUX IN**" input on the right side of the unit (audio cable not included)
- Press and hold the ^{ST/BY}MODE button to switch the radio on then quick press the ^{ST/BY}MODE button until you select "**LINE IN**" mode in the display.
- Rotate the Volume dial to adjust the volume, a quick press of the dial will Mute the volume or Un-mute volume.

9. Alarm Settings

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

The Portable RR20 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

- Press and hold the **ST/BY** **MODE** button to switch the radio on, then quick press the **MENU/SCAN** button and then rotate the volume dial until you see “**SYSTEM**” in the display and then press the dial to select, rotate the dial until you see “**Alarms**” in the display and press the dial to select.
- Rotate the dial to select “**Alarm1**” or “**Alarm2**” and press the dial to confirm.
- Rotate the dial to select “**Time**” and press the dial to confirm. Rotate the dial to adjust the hours and press the dial to confirm, rotate the dial to adjust the minutes and press the dial to confirm.
- Rotate the dial to select “**Days**” and press to confirm, rotate the dial to select: **Daily**, **Once**, **Weekdays** or **Weekends** and press to confirm
- Rotate the dial to select “**Mode**” and press to confirm, rotate the dial to select: **DAB**, **FM** or **Buzzer** and press to confirm.
- Rotate the dial to select “**Volume**” and rotate the dial to select the alarm wake up volume and press the dial to confirm.
- Rotate the dial to select “**Last Listened**” or “**Preset**” to select a preset station and press the dial to confirm.
- Rotate the dial to “**Save**” and press the dial to save the alarm setting “**Alarm1**” will be displayed along with the alarm status “**Off** or **On**” press the dial to access alarm status and press again to change the alarm status by rotating the dial to select “**On** or **Off**” and press to confirm.
- To check the alarm detail and status press and hold the **DIMMER/ALARM** button until you see “**Alarm1**” in the display, rotating the dial will step through the saved alarm settings when the radio is switched on.

10. Sleep Mode Setting

The Sleep function works in any mode the Radio is being used in

- With the radio switched on, press the “**SLEEP**” button to active the Sleep function then press the “**SLEEP**” button again to choose the desired Sleep time **15 / 30 / 45 / 60 / 75 / 90**
- The unit will power off after the sleep time selected is reached.

11. Backlight Settings

- Press the **DIMMER/ALARM** button to adjust the backlight level between **High-Medium-Low** or **off**.
- You can also adjust the backlight in the main menu, quick press the **MENU/SCAN** button and rotate the volume dial until you see “**SYSTEM**” in the display then press the dial to select. Rotate the dial again until you see “**BACKLIGHT**” in the display and press the dial to select. Here you can rotate the dial to select backlight “**Time out**” or “**On Level**” settings. The Time Out options are “On” or a selection between **10 to 180 seconds**. On level options are **High, Medium** or **Low**.

12. Factory Reset

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

To complete a factory reset:

- Press and hold the **ST/BY**
MODE button to switch the radio on, then quick press the **MENU/SCAN** button and then rotate the volume dial until you see “**SYSTEM**” in the display and then press the dial to select, rotate the dial until you see “**Factory reset**” in the display and press the dial to select. Rotate the dial to select “**Yes**” and press the dial to confirm.

The radio will then complete a Factory reset and commence a new DAB Auto scan.

Troubleshooting

PROBLEM	SOLUTION
FM Hiss / DAB Bubbling / Intermittent	Usually due to low signal strength. Check / move antenna. Move radio. Rescan local (high-strength) stations only. (For DAB, check local coverage at www.digitalradioplus.com.au 'Can I Get DAB+ Digital Radio' then rescan stations).

Error Messages

PROBLEM	CAUSE
DAB mode	
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.
FM mode	
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 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.

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- 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.



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For support and warranty registration visit

www.richter.com.au

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