

TECSUN
RADIOS AUSTRALIA

DRM AM/FM Digital Radio



INSTRUCTION MANUAL

www.tecsunradios.com.au

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Thank you for choosing **Tecsun Radios Australia** product. Please read this manual carefully before operating the radio and keep it for future reference.

General information

Important safety instructions

Do not leave the radio near heat sources, such as heaters or hot air ducts, or in a place subject to direct sunlight, excessive dust, humidity, rain, mechanical vibration or shock.

Use the radio within a temperature range of 0°C to 40°C. If it is used in temperatures outside this range, an irregular display may appear. If it is used in temperatures below this range, the display may change very slowly. The radio will return to its normal condition when the radio is used in its recommended temperature range once again.

The ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table-cloths, curtains, etc. Ensure a minimum distance of 5cm around the radio for sufficient ventilation.

Do not expose to water. Do not place objects filled with liquids, such as vases, on the radio.

This receiver is a sensitive electronic device and may malfunction and require the user to power reset, if power is momentarily interrupted.

Disconnect the AC cord from the wall outlet completely when the radio is not to be used for a long period of time.

The name plate indicating operating voltage, etc., is located at the rear of the radio

Since a strong magnet is used for the speaker, keep personal credit cards using magnetic coding or spring-wound watches away from the radio to prevent them from possible damage caused by the magnetic field.

Never connect a ground wire to a gas pipe.

Do not drop or apply excessive force to the radio. Malfunction may occur as a result

WARNING

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Never use an AC power cord that is damaged, route the power cord in a safe manner and make sure it is not exposed to sharp surfaces or the possibility of pinching.

Damage to hearing can occur with consistent exposure to high volume when using headphones.

Cleaning

Before cleaning, disconnect the radio from the mains power supply. Do not use any liquid cleaners which may damage the radio. Use a soft and dust free cloth.

Unpacking your radio

When you unpack your new radio, be sure you have removed all the accessories and information papers.

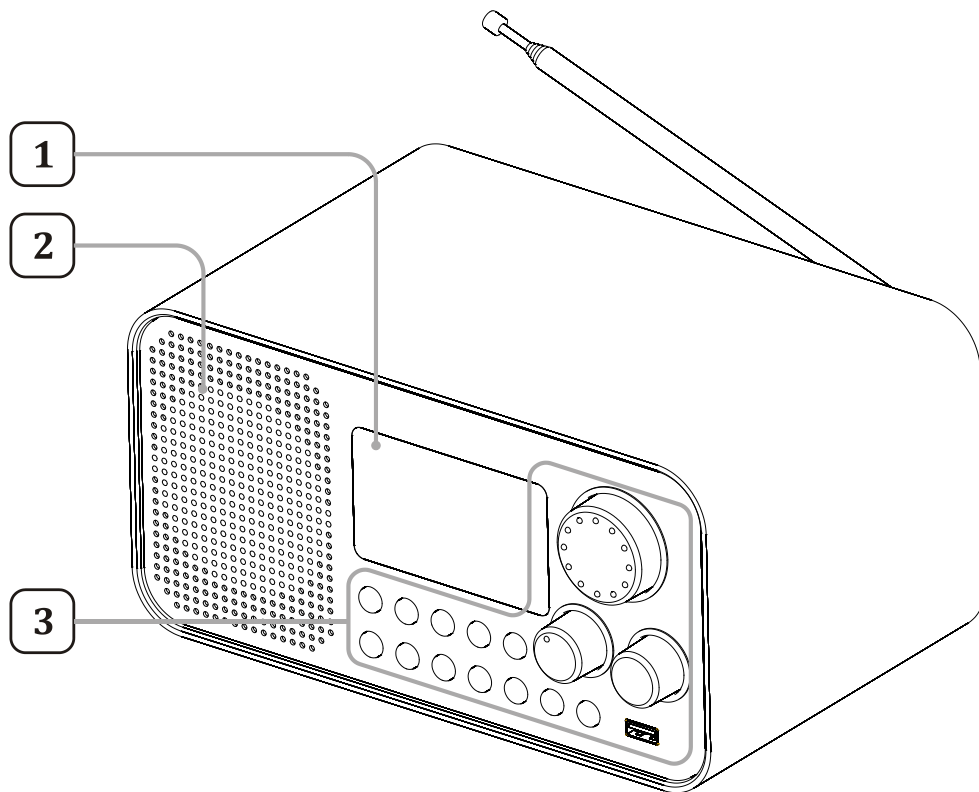
The items below should have been packed in the box with your radio.

- Digital radio
- AC cord
- Instruction manual

Introduction

Location of parts and controls

Front

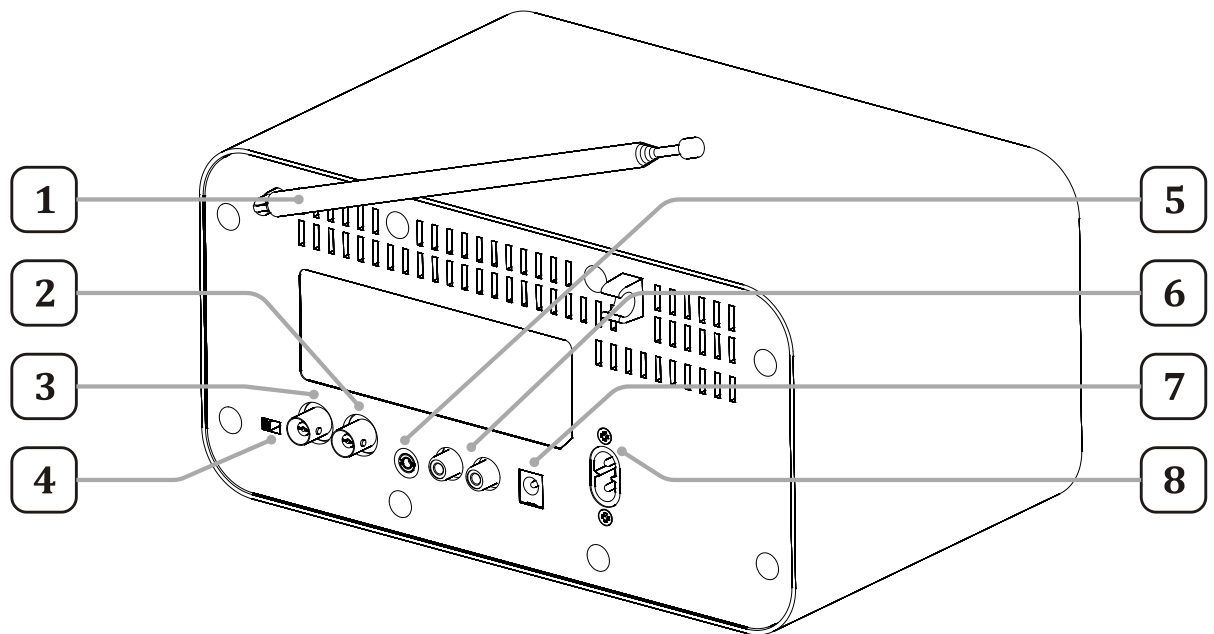


1 Display

2 Speaker

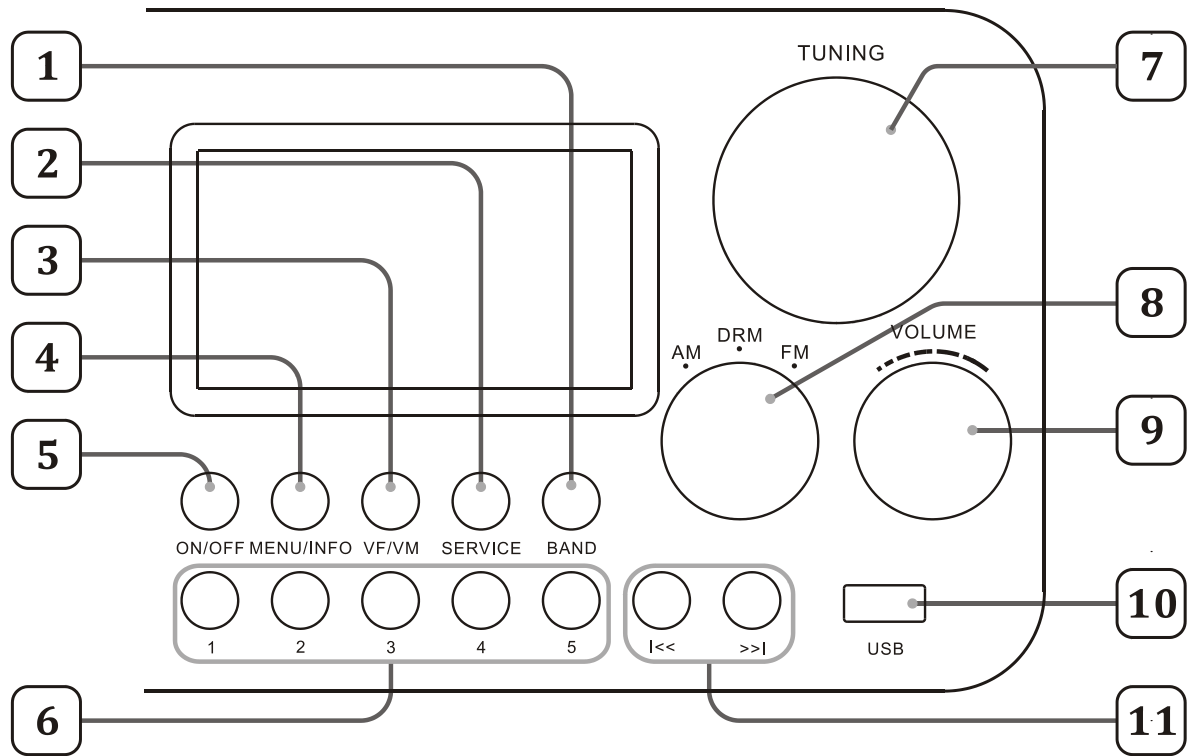
3 Controls

Rear



- | | |
|-----------------------------------|---------------------------|
| 1 Whip antenna | 5 Headphone socket |
| 2 FM external antenna jack | 6 Line out jack |
| 3 AM external antenna jack | 7 DC power jack |
| 4 Antenna switch | 8 AC power jack |

Controls



1 BAND selection button

2 SERVICE selection
button

3 VF/VM button

4 MENU, INFO button

5 POWER ON/OFF button

6 PRESET buttons

7 TUNING control rotary

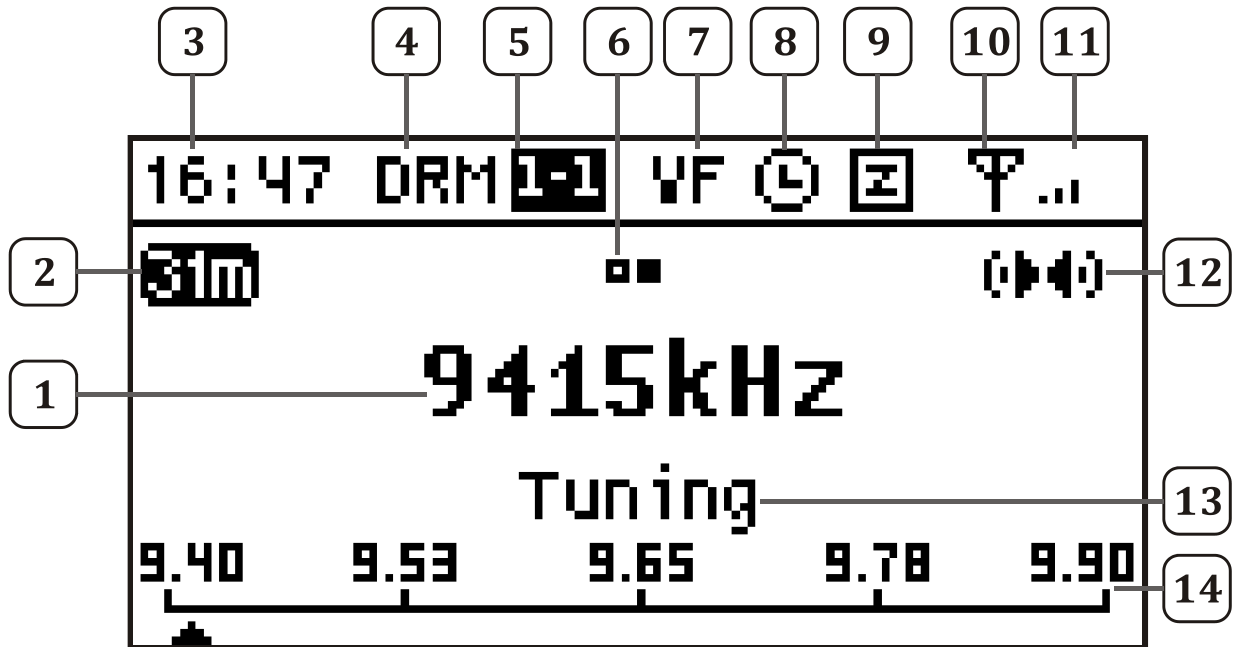
8 MODE switch

9 Volume/Tone control
rotary

10 USB port

11 MANUAL TUNE buttons

Display



- | | |
|-------------------------|---------------------|
| ❶ Frequency display | ❸ Timer indicator |
| ❷ Metre band indicator | ❹ Sleep indicator |
| ❸ Time indicator | ❺ Antenna indicator |
| ❹ Mode indicator | ❻ Signal strength |
| ❺ Preset group-number | ❼ Stereo indicator |
| ❻ DRM SERVICE indicator | ❽ Tuning indicator |
| ❼ VF/VM indicator | ❾ Frequency dial |

Power your radio

AC operation

Before plugging the AC cord into the radio, make sure the AC voltage is correct. Insert the plug on the end of the supplied power cord into the AC power socket on the back of the radio.

DC operation

The radio can also be operated by connecting an optional 9V DC power adaptor with 2.5 Amp capacity and center positive polarity to the DC 9V jack on the rear panel.

Using AC power adaptors with different specifications (polarity of the plug, etc.) will result in malfunction and damage to the radio.

Tips:

When an AC cord is connected, the radio automatically switches to the AC cord power source, regardless of whether the DC power adaptor is connected.

Antenna setup

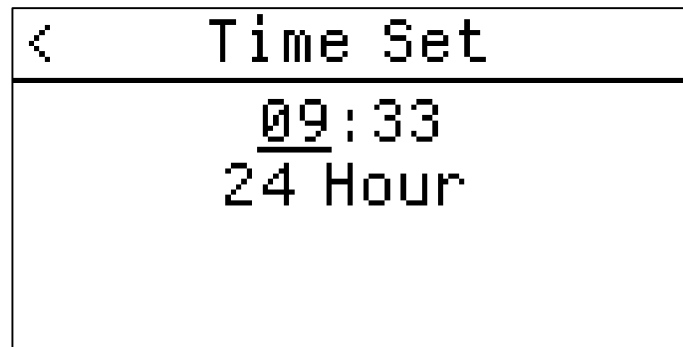
The radio comes with built-in AM/FM antenna and external antenna.

To use internal antenna, make sure to switch external/internal switch on the back of your radio to internal antenna position (i.e. Int.). As for external antenna, you can connect a coaxial cable of outdoor antenna (not supplied) to the BNC type antenna terminal. Make sure to switch external/internal antenna switch to the external position (i.e. Ext.) while connecting the outdoor / rooftop antenna.

The current antenna selection status can be confirmed by reading the indicator on the display

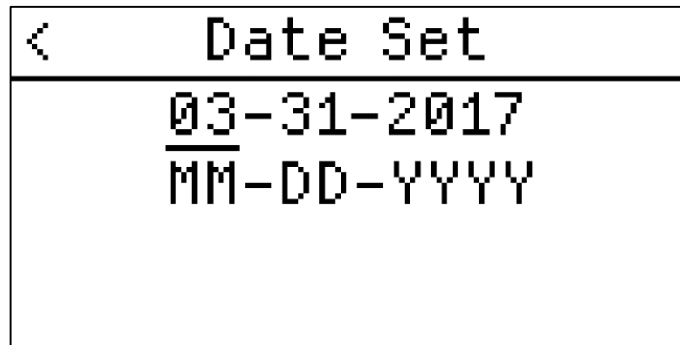
Setting the radio

Setting the clock time



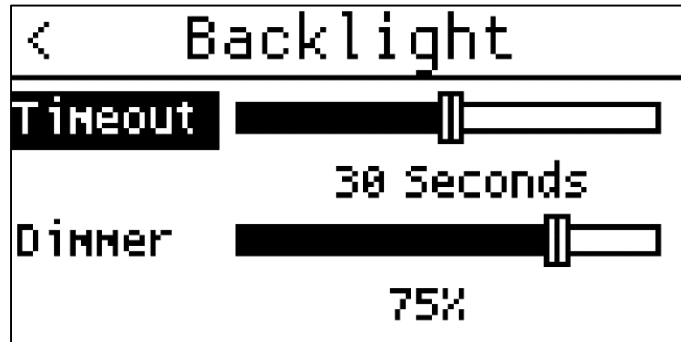
1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Time Set' entry is shown on the display, then press it to enter the setting.
3. An underline will be shown under the hour setting. Rotate the TUNING control rotary to select the desired hour, and press the rotary to confirm the setting. Then rotate the rotary to select the desired minute, and then press it to confirm the setting.
4. The clock display used in stand-by mode and the receiving mode screen can be set to 12 or 24 hour format.
5. Rotate the TUNING control rotary to select the desired either 12 or 24 hour format.
6. Press the MENU/INFO button to confirm your choice of clock time settings. The display will then revert to the previous menu.

Setting the date



1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Date Set' entry is shown on the display, then press it to enter the setting.
3. An underline will be shown under the month setting. Rotate the TUNING control rotary to select the desired month and press the rotary to confirm the setting and proceed to day setting.
4. An underline symbol will be shown under the date setting. Rotate the TUNING control rotary to select the desired date and press the rotary to confirm the setting and proceed to year setting.
5. An underline will be shown under the year setting. Rotate the TUNING control to select the desired year and press it to confirm the setting. Press the MENU/INFO button to confirm your choice of date settings. The display will then revert to the previous menu.

Setting display backlight



1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Backlight' entry is shown on the display then press it to enter the setting.
3. Rotate the TUNING control rotary to adjust the backlight timeout between always off, 10 seconds, 30 seconds, 60 seconds and always on.
4. Press the TUNING control rotary to proceed to dimmer setting. Rotate the rotary to adjust LCD backlight brightness between 25% (dark), 50%, 75% and full (bright).

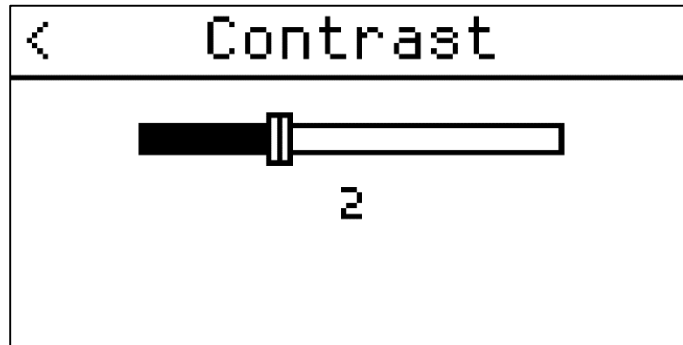
Press the MENU/INFO button to confirm your choice of backlight settings.
The display will then revert to the previous menu.

Changing MW channel step

<	MW Step
	9 kHz
	MW Range: 531 - 1620 kHz

1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'MW Step' entry is shown on the display, then press it to enter the setting.
3. Rotate the TUNING control rotary to adjust the MW channel step between 9 kHz and 10 kHz.
4. Relevant MW channel frequency range will be shown on the display. Press the MENU/INFO button to confirm your choice of MW channel step settings. The display will then revert to the previous menu.

Setting display contrast



1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Contrast' entry is shown on the display, then press it to enter the setting.
3. Rotate the TUNING control rotary to adjust the LCD contrast from 1 to 4.
Press the MENU/INFO button to confirm your choice of LCD contrast settings. The display will then revert to the previous menu.

Checking version

<	Version
HW:GR-216-V1	
SW:1.0 build216M	

1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Version' entry is shown on the display, then press it to enter the setting.
3. The hardware and software version of the radio will appear on the display
The version display cannot be altered in this setting entry and is just for your reference. Firmware updating may alter the version display. Press the MENU/INFO button to revert to the previous menu.

DRM memory

< DRM Memory		
1	DRM Service B 15000	DEL
2	DRM TEST 1 15000	

1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'DRM Memory' entry is shown on the display, then press it to enter the setting.
3. Rotate the TUNING control rotary to scroll between different memory entries. Each entry consists of DRM memory name and frequency
4. Rotate the TUNING control rotary to scroll to the entry you want to delete and press the rotary to delete this entry.
5. Rotate the TUNING control rotary to the bottom and select 'Delete All' by pressing the rotary to delete all entries in DRM memory.
The delete operation takes effect immediately. Press the MENU/INFO button to revert to the previous menu.

Setting the alarm timer

< ALARM Clock 1	
ALARM1	ON
TIME	10:38
TYPE	Buzzer
REPEAT	ONCE

There are two alarm timers which can be set to wake up to your favorite radio program or buzzer.

Make sure the clock is set correctly before using the alarm timer function.

1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Alarm Clock 1' entry is shown on the display. Press the rotary to enter the setting.
3. The on/off switch of alarm clock 1 will be highlighted. Rotate the TUNING control rotary to switch between On and Off state, then press it to proceed to time setting.
4. The hour setting of alarm 1 will be highlighted. Rotate the TUNING control rotary to select the required alarm hour, and press the rotary to confirm and proceed to minute setting. Rotate the rotary to select the required alarm minute and press the rotary to confirm and proceed to alarm type setting.

5. Rotate the TUNING control rotary to choose the required alarm type and the press the rotary to choose the desired option. The alarm type can be set to buzzer or radio.
6. Then the alarm repeat frequency option will be highlighted, rotate the TUNING control rotary to choose the desired option and press the rotary to confirm the setting.

The alarm repeat frequency options are as follows:

ONCE: the alarm will sound once

DAILY: the alarm will sound everyday

WEEKDAY: the alarm will sound on weekdays

WEEKEND: the alarm will sound at weekends

Press the MENU/INFO button to confirm your choice of alarm timer settings. The display will then revert to the previous menu.

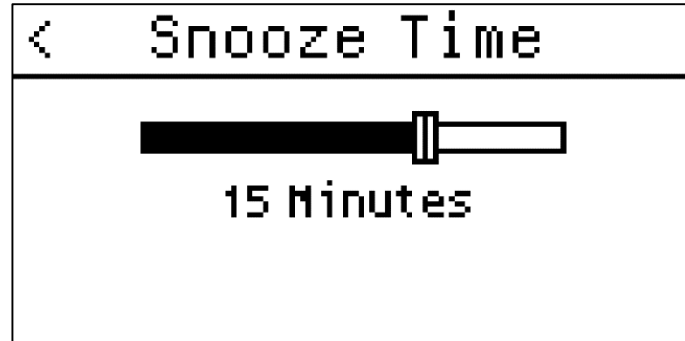
Tips:

- To cancel a sounding alarm, press POWER ON/OFF button to cancel a sounding alarm.
- When the alarm sounds, press any button other than the POWER ON/OFF button will silence the alarm for a selected period. To adjust the silence time for the snooze timer, go to 'Snooze' settings.
- 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 about 60 minutes unless cancelled. When the alarm type is set to radio, the radio will sound non-stop at the selected time for about 60 minutes.

Notes:

- If radio is selected as your alarm type, when the alarm is sounding, the last tuned station will be played.
- The alarm volume cannot be adjusted with the volume control.

Setting snooze



1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Snooze Time' entry is shown on the display, then press it to enter the setting.
3. Rotate the TUNING control rotary to adjust the silence time. There are 5, 10, 15 and 20 minutes for the snooze timer. Press the rotary to confirm the setting.

Press the MENU/INFO button to confirm your choice of snooze time settings. The display will then revert to the previous menu.

Setting sleep timer



Your radio can be set to turn off automatically after a preset time has passed. The sleep timer setting can be adjusted between 5, 10, 15, 30, 45 and 60 minutes.

1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Sleep Timer' entry is shown on the display. Press the rotary to enter the setting.
3. Rotate the TUNING control rotary to adjust the desired time. There are 5, 10, 15, 30, 45 and 60 minutes for the sleep timer. Press the rotary to confirm the setting.

Press the MENU/INFO button to confirm your choice of sleep timer settings. The display will then revert to the previous menu.

Tips:

- Hold down POWER ON/OFF button for about 2 seconds to enable or disable sleep timer function.

Setting confirmation beep

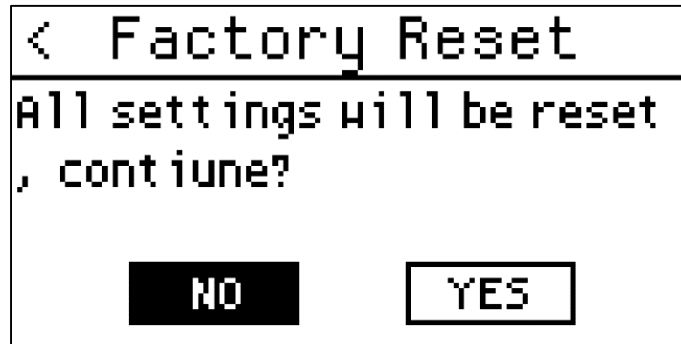


You will hear short beep when presetting and recalling a station or performing auto scan tuning. The confirmation beep function can be enabled or disabled.

1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Beep Set' entry is shown on the display. Press the rotary to enter the setting.
3. Rotate the TUNING control rotary to enable or disable the confirmation beep.

Press the MENU/INFO button to confirm your choice of confirmation beep settings. The display will then revert to the previous menu.

Performing factory reset



If your radio fails to operate correctly or you just want to restore to original factory setting, carry out the following procedure.

1. Press MENU/INFO button to enter the menu settings.
2. Rotate the TUNING control rotary until the 'Factory Reset' entry is shown on the display. Press the rotary to enter the setting.
3. Rotate the TUNING control rotary to select 'Yes' and press the rotary to perform the reset.

The station presets and DRM memory will be set to empty. Alarm timers and sleep timers will be set to their default values.

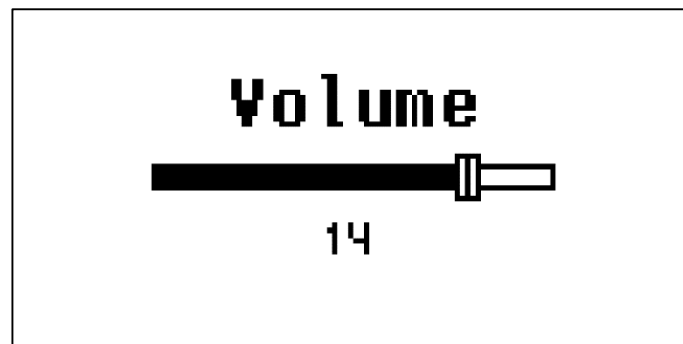
Listening to the radio

Switching between DRM/AM/FM modes

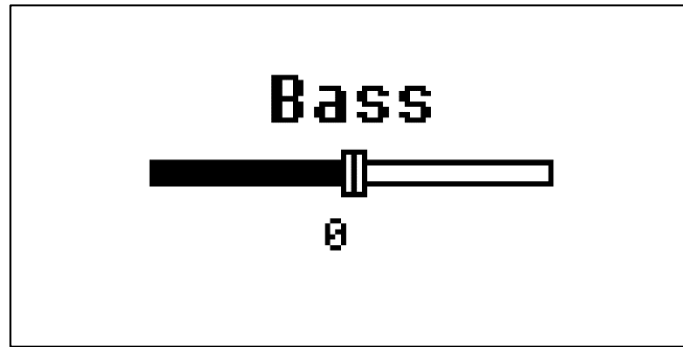


Rotate the MODE switch to select between DRM, AM and FM modes. Relevant on-screen mode indicator will change accordingly

Volume and Tone control



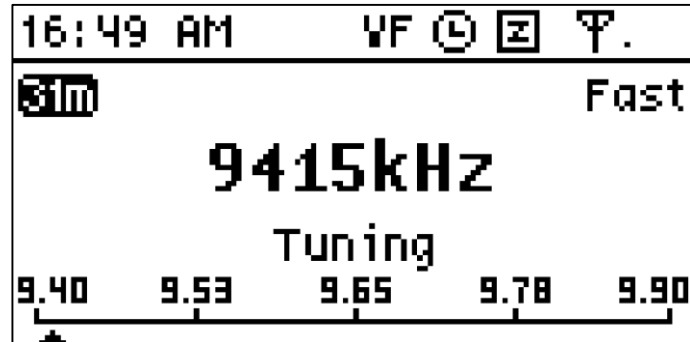
Rotate the rotary to set the required volume level, display will show volume level [maximum to 18].



If you find the preset equalizer functions not to your taste, you may set up a custom bass, mid and treble settings as follows:

1. Press the Volume/Tone control rotary once to get into Bass control setting.
Rotate the rotary until desired bass level is reached.
2. Press the Volume/Tone control rotary again to enter Mid control setting.
Rotate the rotary until desired mid level is reached.
3. Press the Volume/Tone control rotary again to enter Treble control setting.
Rotate the rotary until desired treble level is reached. Press the rotary to confirm the settings.

Manual tuning



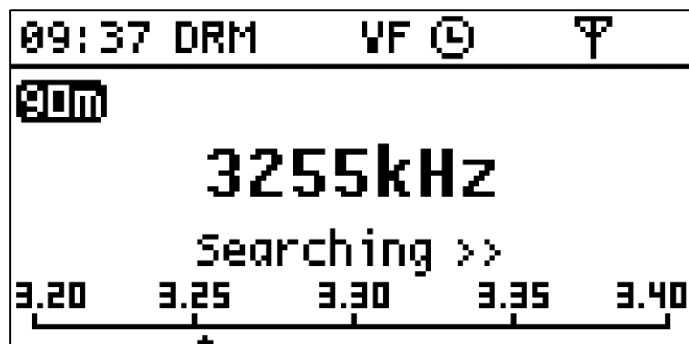
1. Press POWER ON/OFF to turn on the radio.
2. Rotate the MODE switch to select either AM, DRM or FM mode. Select 'VF' mode by pressing VF/VM button.
3. For AM and DRM modes, press BAND button to select MW (medium wave) or metre band (short wave). The lowest frequency of the band (metre band) will appear in the display each time the button is pressed, a relevant frequency dial of the band will appear too. For FM, skip this step.
4. Rotate the TUNING control rotary to change the frequency, or press MANUAL TUNE buttons |<, >| repeatedly to tune in to the desired station. The frequency changes in the channel steps shown below each time the button is pressed, and the 'tuning' appears when a station is tuned in.

BAND	When << or >> is pressed
FM	0.1 MHz
SW	5 kHz
MW	9 kHz or 10 kHz

Tips:

- The radio will perform auto scan when |<< or >>| is held down (see 'Auto scan tuning').
- During tuning, pressing the TUNING control rotary can switch between fast tuning mode and slow tuning mode. A tuning speed indicator will appear on the display. Manual tuning works faster or slower depending on the setting.

Auto scan tuning



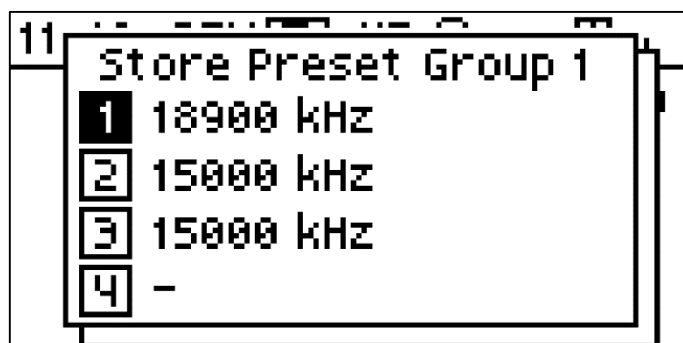
1. Press POWER ON/OFF to turn on the radio.
2. Rotate the MODE switch to select either AM, DRM or FM mode. Select 'VF' mode by pressing VF/VM button.
3. For AM and DRM modes, press BAND button to select MW (medium wave) or meter band (short wave). The lowest frequency of the band (meter band) will appear in the display each time the button is pressed, a relevant frequency dial of the band will appear too. For FM, skip this step.
4. Hold down MANUAL TUNE buttons [◀, ▶] for about 2 seconds. Release when radio starts scanning. Station will be searched automatically. The radio will stop at each reception. The radio will scan within the frequency range of meter band.

Tips:

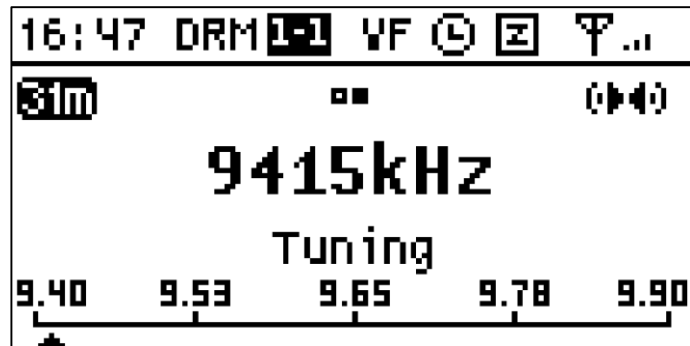
- The radio scans the frequencies in descending order when holding down [◀], and in ascending order when holding down [▶].
- To cancel a progressing auto scan tuning, press [◀] or [▶].

Presetting stations

There are a total of 5 groups available for presets (group 1 to group 5) in each mode and you can preset up to 4 stations per group for a maximum of 20 preset stations for each mode. By presetting, you can tune in to the stations simply by using the PRESET buttons (1-5).



1. Press POWER ON/OFF to turn on the radio.
2. Rotate the MODE switch to select either AM, DRM or FM mode. Tune in to the station you want to preset. For details concerning tuning, see 'Manual tuning' or 'Auto scan tuning'.
3. Hold down a PRESET button between 1 and 5 for about 2 seconds to select a preset group.
4. Repeatedly press the PRESET button quickly to select a preset number. The number will change from flashing display to constant display and the preset number will be determined. A short beep will be heard and the PRESET indicator will be shown on the display. The example below shows DRM 9415 kHz is stored in preset number 1 of group 1.



Notes:

If a station has already been stored to the position you chose, it will be overwritten by the new preset.

Recalling a preset station



1. Press POWER ON/OFF to turn on the radio.
2. Rotate the MODE switch to select either AM, DRM or FM mode.
3. Press a PRESET button between 1 and 5 where the desired preset station is stored.
4. Repeatedly press the PRESET button quickly to select the preset number. The radio will tune in to the station assigned to the position selected. A PRESET indicator will be shown on the display.

Line out

You can connect the radio to your Hi-Fi system by connecting the line out (red/white) socket located on the rear side of your radio. The output signal level is fixed and unaffected by the volume control.

Headphone socket

A 3.5mm headphone socket located on the rear of your radio is provided for use with either headphones or earpieces. You can enjoy the DRM or FM broadcast in stereo by using the optional stereo headphones. When using headphones, sound from the speaker will be muted.

WARNING

Excessive sound pressure from headphones can cause hearing loss.

Other convenient uses

DRM memory tuning

Every time when a DRM program is successfully received, its station label and frequency will be stored in to an internal database called 'memory'. The process of tuning within DRM memory entries is called 'View Memory' or 'VM'. By storing the DRM listening history automatically you can tune into a DRM station in a quick and convenient way



1. Press POWER ON/OFF to turn on the radio.
2. Rotate the MODE switch to select DRM mode and press VF/VM to select VM mode. Current tuning mode can be identified by VF/VM indicator.
Rotate the TUNING control rotary or press the MANUL TUNE buttons [◀, ▶] to tune within previously stored DRM memory entries. Entry number, station label and frequency will appear on the display.

Notes:

- VM mode is only applies to DRM mode, VF mode applies to all modes.
- Once the station is successfully received, this DRM listening history is automatically stored into DRM memory.

DRM service selection

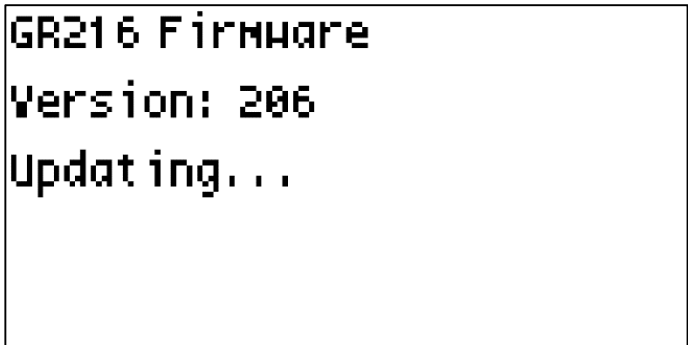


A DRM program can carry multiple services (up to 4 services within 1 program), you can select different services by pressing the SERVICE selection button.

1. Press POWER ON/OFF to turn on the radio.
2. Rotate the MODE switch to select DRM mode and tune to a DRM station.
3. A DRM SERVICE indicator will appear on the display in case the program carries multiple (more than 1) DRM services.
4. Press the SERVICE selection button repeatedly to switch between different services.

Firmware update

Installing the new firmware on your radio is simple, just download the firmware file and perform the following steps:



```
GR216 Firmware  
Version: 206  
Updating...
```

1. Download the GR-216_firmware_[ver].zip ['ver' refers to version] file to a temporary or download directory (please note this directory for reference) on your computer.
2. Go to the directory where the file was downloaded and extract the update files from the GR-216_firmware_[ver].zip file.
Connect a compatible USB storage device to your computer. Please note that not all USB storage devices are compatible with the radio. If the software update is not successful after following the instructions, you may need to format your device to the FAT32 file system, or use a different device.
3. Go to the extracted directory and copy all files onto the root directory (top level) of your USB device.

4. Remove the USB device from your computer.
5. Turn the radio off by disconnecting all power supply.
6. Insert the USB storage device into the USB port on the front of the radio.
Please note that the USB storage device can only be inserted into the USB port slot one way.
7. Turn your radio on by connecting AC cord or AC power adaptor to the radio.
Once the USB storage device has been detected, a message appears confirming your radio model name and firmware version number, the firmware will automatically begin to update.
8. A progress information will be displayed on the screen during the update process.
When the firmware update is complete, a message will be displayed indicating the update is successfully completed.
9. Remove the USB device from the USB port on the front of the radio. Please note the firmware file extension has been renamed to 'bak', you can delete the update file from the USB device.
10. The update process is now complete.

Additional information

Troubleshooting

If you have any trouble with the radio, read the instruction manual once more and check the following before requesting for repair.

Symptom	Cause and remedies
The power does not turn on when POWER ON/OFF is pressed.	The AC power adaptor or AC cord is disconnected. → Properly connect the AC power adaptor or AC cord.
The display is dim	Improper display backlight setting → Check display backlight setting in settings menu.
The display is slow	The radio is being used in extremely low temperature or in high humidity. → Use the radio under appropriate conditions.
There's no sound output	The volume is turned down completely. → Adjust the volume. The headphones are plugged in. → Unplug the headphones.

<i>There's noise, bad reception or weak sensitivity</i>	<p>Improper tuning or antenna adjustment</p> <p>→ Adjust tuning and antenna properly. Weak radio signal.</p> <p>→ Listen to the radio near a window when in a building.</p> <p>Improper antenna switch position</p> <p>→ Adjust the antenna switch position in accordance to the antenna in use.</p>
Cannot preset a station	<p>Incorrect procedure</p> <p>→ Hold down for 2 seconds and then repeatedly press the number button to preset a station.</p>
Cannot recall a preset station	<p>You pressed an incorrect number button for the desired station.</p> <p>→ Press the correct number. The preset setting was accidentally overwritten.</p> <p>→ Preset the station again.</p>
The radio does not turn on at the alarm time.	<p>You forgot to enable alarm timer.</p> <p>→ Enable the alarm timer in settings menu.</p> <p>The date and time was not set correctly.</p> <p>→ Set the date and time correctly.</p>
Cannot perform DRM memory tuning	<p>There is no station memory stored.</p> <p>→ Tune to 2 or more DRM stations before using VM mode.</p>
Auto scan tuning will not stop	<p>Improper antenna switch position</p> <p>→ Adjust the antenna switch position in accordance to the antenna in use.</p>

Specifications

Radio

Frequency Range	FM: 87.5 – 108 MHz MW: 530 – 1620 kHz SW: 2.3 – 26.1 MHz
Tuning Step	FM: 0.05 MHz MW: 9/10 kHz or 1 kHz SW: 5 kHz or 1 kHz
Built-in Antenna	FM/SW: Whip Antenna MW: Internal Ferrite Bar Antenna
External Antenna	FM: 50Ω (BNC) AM: 50Ω (BNC)
External or Internal FM / AM Antenna Switch	
Station Presets	60
Tuning System	Auto Scan Tuning / Manual Tuning / Preset Tuning / DRM Memory Tuning
Stereo via Headphones or Line Out	
Bass, Mid, Treble Tone Control	

Clock

24 Hours Clock & Dual Alarm Clock (Buzzer or Radio)
Sleep Timer

Display

Display	Easy to Read LCD Display
---------	--------------------------

Power Supply

Power Requirements	DC 9V/2.5A AC 220V/50Hz
Output Power	4W (10% THD)

Speaker

Speaker Dimension	77mm
Speaker Type	Mono

Inputs and Outputs

DC-in	DC Jack
AC-in	2 pole AC Inlet
External Antenna Line	BNC socket 50Ω x 2
Line Out	RCA Jack x 2
Headphone	3.5mm Stereo Jack
USB	USB type A Port

Mechanical

Product Dimensions	24 x 12 x 15 cm
(W x H x D)	
Product Weight	2 Kg

Supplied Accessories

AC Power Cord
AC Power Adaptor
Instruction Manual

Notes:

- The AC power adaptor's operating voltage varies depending upon the country in which it is sold.
- Design and specification are subject to change without notice.

What is a meter band

The international shortwave bands are commonly divided into “metre bands”. This refers to the wavelength of the signal. It is a generalised method of describing the various frequency ranges. This receiver covers 14 different “metre bands”. Specific frequencies within a specified band are measured in Kilohertz [kHz].

Frequency range of Metre bands

Unit: kHz for AM/DRM, MHz for FM

Band	Frequency Range	Scan Frequency Range	Metre Band
MW	530-1620	[10kHz] 530-1620	-
		[9kHz] 531-1620	-
SW	2300-26100	2300-2495	120 metre band
		3200-3400	90 metre band
		3900-4000	75 metre band
		4700-5100	60 metre band
		5900-6200	49 metre band
		7200-7450	41 metre band
		9400-9900	31 metre band
		11600-12100	25 metre band
		13570-13870	22 metre band
		15100-15800	19 metre band
		17480-17900	16 metre band
		18900-19020	15 metre band
		21450-21850	13 metre band
		25600-26100	11 metre band
FM	87.5-108	87.5-108	-

Warranty information

Please keep your receipt as proof of purchase. Tecsun Radios Australia warrants the end user that this product will be free from defects in materials or workmanship in the course of normal use for one year from the original date of purchase. This guarantee covers defects due to manufacturing faults.

The warranty DOES NOT apply to accidental damage, negligence, excessive voltage (including lightning, static electricity or power surges) or any modifications or repairs not authorized by us or that the case has been removed, or general wear & tear.

When taking your radio for service or repair, take note of important preset settings. They may be deleted depending on the type of necessary repair.

If you have any questions or problems concerning your radio, please consult Tecsun Radios Australia.