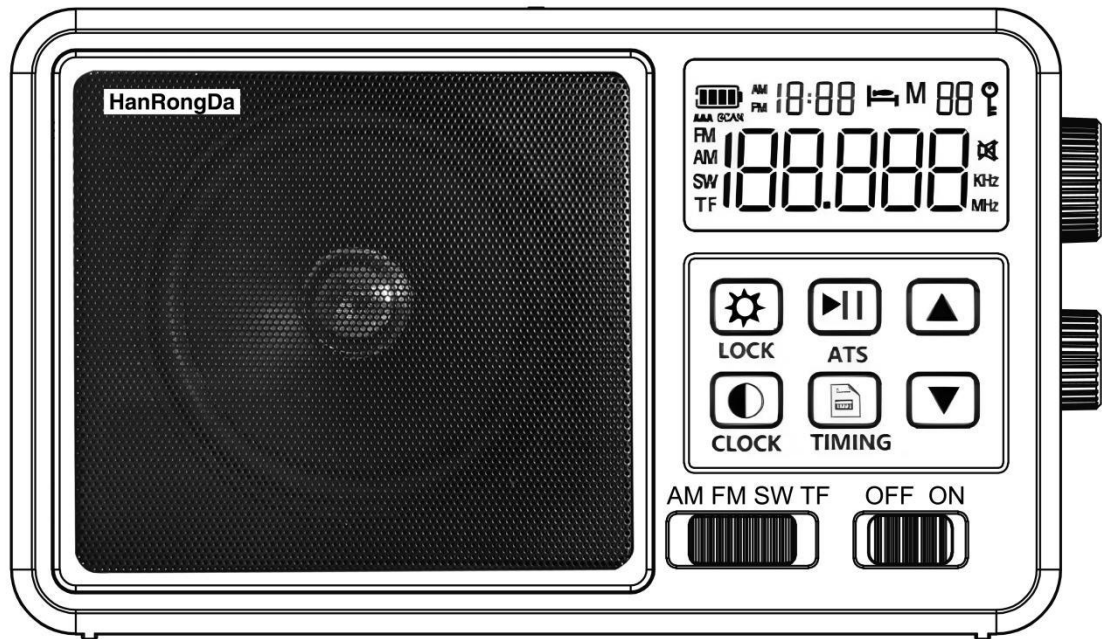


User Manual

Model: TR638

1: Product appearance diagram



Thank you for your purchase. Before using the product, we kindly ask you to carefully read this user guide and keep it in a safe place.

2: Brief Description of Product Features

This product uses software programming to achieve FM, medium wave, short wave, and full-band wireless radio reception, delivering excellent sound quality.

This device allows for wireless music playback through Bluetooth connectivity and supports music playback via TF and USB cards.

This product offers two power supply options: AC and DC.

This product features a large 4-inch, 4Ω, 8W speaker, delivering clear and powerful audio quality. It also supports headphone connectivity for private listening.

The large rotary knob is used for tuning radio stations, making the operation simple and easy to understand.

This product offers versatile functionality. In addition to the large tuning knob for station selection, it also features a station auto-tuning function, supporting both full-automatic radio station search and auto-search for radio stations.

This product offers the following features: scheduled power-on, sleep mode power-off, locking, and mute functions.

The LCD large screen displays various information, including the time, battery status, frequency, track number, playback time, and operating mode, providing users with clear operational instructions.

This product features backlighting for user convenience in low-light conditions, with adjustable brightness levels (standard and high brightness) available.

The radio function can memorize up to 110 radio stations (AM: 20, FM: 30, SW: 60).

It supports TF cards with a maximum capacity of 256GB and can play WMA, WAV, APE, and FLAC formats.

In Bluetooth/TF/USB music playback modes, you can pause playback, fast forward or rewind, and select the previous or next song.

3: Quickly Mastering the Functions of Each Button:

	1: Switch to the "ON" position to power on the device. 2: Switch to the "OFF" position to power off the device.
	Mode Selection Button AM: Medium wave reception FM: FM reception SW: Shortwave reception TF: TF card/USB card playback mode
	In radio reception mode, use the rotary knob to select a radio station.
	Rotate to adjust the volume level.
	Insert a 'USB' card to play music tracks stored on the USB card (Refer to details in Operation, Section 8).
	Insert a 'TF' card to play music tracks from the TF card (Refer to details in Operation, Section 8).
	1: Mode Switching -In the working mode, a light press toggles to Bluetooth playback mode, and the LCD displays the [bt] symbol. -When the four-position switch  is set to the [TF] position, a light press switches between "FM/TF/USB" modes. 2: Long press for 2 seconds to activate the lock function; long press for 2 seconds again to deactivate the lock function.
	1: Radio Mode: Light press for mute, and press again to unmute. Long press for 2 seconds to initiate full-automatic radio station search and storage. 2: In Music Playback Mode: Light press to pause/play.
	1: Time/Auto Power-On Time/Sleep Shutdown Time Setting: Adjust the time settings using the "+" button." 2: Radio Operation Mode: Light press to select the next station (+); long press for automatic upward radio station search. 3: Music Playback Mode: Light press to skip to the next song; long press for fast forward playback.
	1: Time/Auto Power-On Time/Sleep Shutdown Time Setting: Adjust the time by decreasing it. 2: Radio Operation Mode: Light press to select the previous station (-); long press for automatic downward radio station search. 3: Music Playback Mode: Light press to go back to the previous song. TF/USB Operation Mode: Long press for fast rewind playback.
	1: Light press to adjust the backlight brightness. 2: Long press for 2 seconds to set the operating time (Refer to details in Operation, Section 9).
	1: In radio working mode, light press to initiate manual station preset; press again to confirm the preset (See details in Operation Section 6.4). 2: In the powered-on state, long press for 2 seconds to set the sleep shutdown time (See details in Operation Section 11). 3: In the powered-off state, long press for 2 seconds to set the scheduled power-on time (See details in Operation Section 10).
[AA 1.5V×4] Located on the back of the product.	Install four AA batteries into the battery compartment. (Note: Inserting the AC plug will disconnect the battery power supply).

	Insert the AC power cord to supply the device with AC power.
	3.5mm headphone jack.

4: Power Switch:



Toggle Switch:

Insert the AC power cord into the [AC-IN] power port (located on the left side of the device) or insert four AA dry batteries [1.5V×4AA]. The LCD will display the time.
Move the switch to the [ON] position to power on the radio.
Move the switch to the [OFF] position to power off the radio.。

5: Volume Adjustment:

In operating mode, you can adjust the volume as needed by rotating the volume  knob. Turning the volume  knob in the 'MIN' direction increases the volume, while turning it in the 'MAX' direction decreases the volume."

6: Listening to Radio Broadcasts:

6.1: In the radio powered-on state, push the four-position switch  to select the mode button.
This product can receive FM, medium wave, and short wave. The reception ranges and step values for each band are as follows:

Frequency Band Reception Range	Step Value
AM 1: 522-1710KHZ	9KHz (Factory default is a 9KHz step value for AM)
AM 2: 520-1710KHZ	10KHZ
FM FM: 64.00-108.00MHZ	0.1MHZ
SW short wave: 2.300-23.000MHZ	0.005HZ

6.2: Method for Adjusting the Medium Wave Step Value:

For medium wave reception, different countries have different requirements, and you can adjust it according to your needs.
Clock Display Mode: Long press the [] button for approximately 3 seconds, and the LCD screen will display the "10KHZ" character.
Press the [] button again, and it will toggle between the step values "9KHZ / 10KHZ." After about 1.5 seconds, the number disappears, and the last selected step value becomes the default.
Note: In the United States, Canada, Mexico, and other North and South American countries, the medium wave step value must be set to 10KHZ, while in other countries, the step value is 9KHZ.

6.3: This product supports multiple tuning methods: Manual tuning, automatic radio station search, and full automatic radio station storage.

- 6.3.1: Manual Tuning: Rotate the [] knob to increase or decrease the frequency in each band by the minimum step value.
- 6.3.2: Automatic Radio Station Search: Press and hold [▲ or ▼] for 2 seconds to quickly search for radio stations in an upward or downward direction using the minimum step value. When a station with a signal is found, the search stops, and the station starts playing.

6.3.3: Full Automatic Radio Station Storage: In the radio broadcast mode, press and hold [] for 2 seconds to initiate a full automatic scan for radio stations. The device will automatically store stations from the lowest to the highest frequency point. During the full automatic scanning process, the LCD will display "SCAN" in the upper left corner and the station's address number in the upper right corner as "M**" (the number represents the station's address number). After completing one round of scanning, the device will automatically stop the search and start playing the first stored station.

*This device can store up to 20 AM stations, 30 FM stations, and 60 SW stations, for a total of 110 radio stations.

Note: The number of stored radio stations may vary based on the local signal strength and environment.

6.4: Manual Station Storage Method:

In the radio broadcast mode, after using the methods described in 6.3.1 & 6.3.2 to search for your desired station frequency, do the following: Light press [] to enter the station storage mode. The LCD will display the station address as " M **," with the "***" station address number flashing. At this point, press [▲ or ▼] to select the station address number. Press [] again to confirm your selection, and the "***" station address will stop flashing. After 5 seconds, the " M***" station address display will exit, indicating that the manual station storage operation is complete.

6.5: Method for Removing Radio Station

In the radio broadcast mode, after storing radio stations using the methods described in sections 6.3.3 and 6.4, light press [▲ & ▼] to select station numbers. Each light press of [▲ or ▼] will change to the next stored radio station.

Note: If the LCD displays 'M **----,' it means there are no preset radio stations.

7: Bluetooth Playback:

7.1 The Bluetooth pairing name for this product is: HRD-206.

7.2 In the power-on working mode, light press [] to switch to the " bE" mode. The " bE" symbol will blink, indicating that it's waiting to connect to a Bluetooth device. Once the connection is successful, the " bE" symbol will stop blinking.

7.3 Light press [▲] to skip to the next song, light press [▼] to go back to the previous song, and light press [] to toggle between pause and play. You can also use your mobile device for corresponding controls.

8: Using TF Card/USB Card Playback

Properly insert the TF card. Properly insert the USB playback card.

8.1: Turn the switch [] to the TF position, light press [] to switch to " E F" card mode/USB mode, and music will play automatically. Light press [] to pause/play.

8.2: Light press [▲] to skip to the next song, light press [▼] to go back to the previous song, long press [▲] for fast-forward, and long press [▼] for fast rewind down

8.3: Supports a maximum of 256GB.

8.4: Supports MP3, WMA, WAV, APE, and FLAC formats for music playback.

9: Time Settings

In the power-on or power-off mode, long press [] for 2 seconds to initiate the runtime setting. The hours "***" will start flashing as a prompt. Light press or long press [▲, ▼] to adjust the hour time upwards or downwards. Then, light press [] to move to the minute time, which will also start flashing. Light press or long press [▲, ▼] to adjust the minute time

upwards or downwards. Light press [] to confirm the time adjustment or simply stop the operation. The device will automatically confirm the last adjusted time within 10 seconds.

Note: The time format for this product is the 12-hour clock system (LCD displaying "AM" represents morning time, and "PM" represents afternoon time).

10: Scheduled Power-On Time Setting:

10.1: Setting the Scheduled Power-On Time: In clock display mode, long press [] for 2 seconds. The LCD screen will display the scheduled power-on hour with "***" and "AL" characters flashing. Light press or long press [▲, ▼] to adjust the scheduled power-on hour time upwards or downwards. Then, light press [] to move to the scheduled power-on minute time, which will also flash with "***" and "AL". Light press or long press [▲, ▼] to adjust the scheduled power-on minute time upwards or downwards. Light press [] to confirm. If you stop the operation, the device will automatically confirm the adjusted scheduled power-on time within 10 seconds.

10.2: Disabling the Scheduled Power-On Function: In clock display mode, when the LCD screen displays the "AL" character, light press [] to disable the scheduled power-on function, and the "AL" character will disappear from the LCD screen.

11: Setting the Sleep Auto Shutdown Time:

While the device is powered on or in a scheduled power-on state, long press [] for 2 seconds to activate the sleep timer setting. The LCD will display "  120," and the "  " symbol will blink to indicate this. Light press [▲ ▼] to choose the sleep timer duration from options such as 120-110-100-90-80-70-60-50-40-30-20-10-OFF (in minutes). If there is no further input within 3 seconds, the LCD will return to the playback mode, and the blinking "  " symbol will cease. In this mode, the device will automatically power off within the selected sleep timer duration.

12: Locking and Unlocking Function

Long press [] for 2 seconds, and the LCD screen will display the "  ' symbol, indicating that the device is locked.

Long press [] for 2 seconds once more, and the "  " symbol will disappear, indicating that the device is unlocked.

Note: The [ Volume Knob, OFF/ON Toggle Switch] are not affected by the lock, while other buttons are locked. To unlock, follow the steps above.

13: Adjusting the Radio Backlight Brightness:

Light press [] to adjust the backlight brightness. You can choose from three options: low brightness, high brightness, or turning off the backlight.

14: Using the Antenna:

When listening to FM and SW, extend the antenna and adjust its length and direction to find the best reception.

*Tip: If you experience strong interference from a radio station causing channel overlap, you can mitigate it by adjusting the telescopic antenna to a shorter length.

For AM broadcasts, this device utilizes a built-in magnetic antenna to receive medium wave signals. Magnetic antennas have some directionality when receiving signals. Therefore, when listening to medium wave broadcasts, try rotating the device to find the optimal reception position.

15: Key Technical Specifications:

Reception Range	AM: 522-1710KHZ FM: 64-108MHZ SW:2.3000-23.000MHZ
Reception Sensitivity	AM: 84dB FM:18dB SW: 26dB
Static Current	≤150uA
Maximum Current	≤800mA
Speaker	4 inches , 4Ω , 8W
Signal-to-Noise Ratio	FM:40dB AM:30dB SW:32dB
Number of Presets in Radio Mode	110 units
Bluetooth Version	VER 5.0
Bluetooth Reception Distance	≤10 meters
DC	DC6V(1.5V×4 AA the battery)
AC	220V-240V,50HZ / 110V,60HZ
Supported Formats for TF/USB Card Playback	Supported playback formats: MP3, WMA, WAV, APE, FLAC
Maximum Supported Capacity for TF Card	256G
Product Dimensions	218x128x73mm
Net Weight of the Product	826g

16. Safety Precautions:

Before using the product, please ensure that you follow these basic safety guidelines to ensure safe and reliable operation:

- ◆ Read and understand all safety instructions and usage information.
- ◆ When the battery usage indicator shows '  ' with a space or when the battery '  ' frame is flashing, it indicates that the battery is running low and needs to be replaced to avoid disruption of normal operation.
- ◆ If the device is not used for an extended period, remove the battery.
- ◆ Avoid exposure to rain, moisture, or corrosive chemicals.
- ◆ Keep away from high-temperature heat sources and do not expose it to high temperatures or open flames.
- ◆ Avoid prolonged exposure to direct sunlight.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF warning for Portable device: The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.