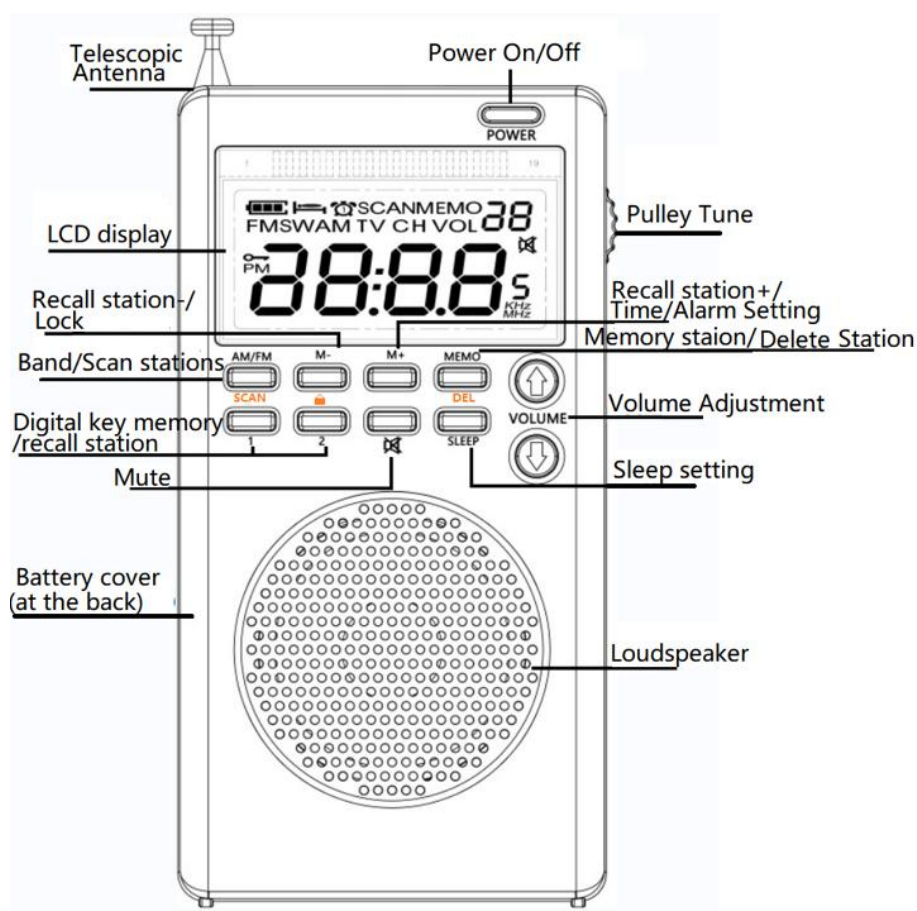


User Manual For FM. AM Digital Demodulation Radio (Model : HRD-903)

Thanks for your purchase, this is a pocket size AM/FM 2band digital demodulation radio. please read this manual before use and keep it for future reference.

Quick operation guide schematic



Function operational specification

Install battery :

Push the battery cover off the back of the product  , place three 1.5V AA-size batteries (not included) into the compartment and ensure that they are inserted with the correct polarity. Alternatively, plug a USB cable into the micro USB DC5V slot to connect to an

external DC5V power supply.The LCD display will then turn on with a backlight orange screen and the time display will also be shown

Power-on/power off :

Short 【POWER】 button , turn on the radio.

Power-on state,Short press 【POWER】 button , turn off the radio.

Band switching :

Short press 【AM/FM】 button , band switching.

FM1	64-108MHZ	Step value 0.1MHZ
FM2	87.5-108MHZ	Step value 0.1MHZ
AM	530-1700KHZ	Step value 9KHZ/10KHZ

methods to searching radio stations :

There are three methods to selecting stations:

- Gently push the pulley [TUNING] button up and down slowly, and the frequency will increase and decrease.
- Up and down push the pulley [TUNING] and let it go, the frequency is fast and automatic search for a signal station, you can see from the LCD, the frequency is rapidly changing up or down, and the station with a signal automatically stops searching and plays.
- long press [SCAN] key for 2 seconds, the radio from the lowest frequency point to the highest frequency point, automatic search radio, radio with signal automatically stored in the radio

Manual store preset station :

With the radio turned on, push pulley 【tuning】 to search for the desired radio frequency, Then short press the 【MEMO】 button to enter manual memory station mode. the "MEMO **" symbol will appear on the LCD display (** stands for depository address number). press the 【MEMO】 confirm the memory station operation.

FM mode and AM mode, each band can stored: 29 stations.

Note: The depository address number ** flashes for 5 seconds. If you do not press [MEMO] to confirm within 5 seconds, the operation will be abandoned

Recall station instruction :

Through the above described SCAN automatic search for storage station and manual storage station method, press the 【M+】 button or [M-] button, select the appropriate station, the LCD screen appears "1-29" access station address number.

* If it is not stored in the radio station, tap the [M+] key or [M-] key to display "no" symbol.

Quick numeric key store/recall station for two commonly used stations

【1】 , 【2】 button. they are the two button for quick storage/ recall.

Quick storage: Long press the number key 【1 or 2】 button for 2 seconds, and the frequency number flashes once, indicating that it has been stored in the radio station.

Quick recall :short press 【1 or 2】 button to recall the memory station.

Delete a radio station :

press [M+] or [M-] to select the station which you need to delete, press and hold [MEMO] for 2 seconds to delete the station.

Volume adjust 【VOLUME.↑ ↓】 :

press or hold down the [VOLUME ↑ ↓] button to adjust the volume at level 00-20

About Lock,unlock function :

Lock : long press 【】 button 2 second, "0T1" symbol display on the LCD.lock the buttons

Unlock:Long press 【】 buttons 2 second again. "0T1" symbol disappears.recovery function.

Mute :

Power-on station, tap the 【】 key. The LCD screen displays the "" symbol, indicating that the mute function has been enabled.

Then tap the 【】 key, the LCD screen mute "" The symbol disappears, indicating that the mute has been removed, resume normal play;

Or in the silent state, you can also cancel mute the device by press the [VOLUME↑ ↓] or] key.

Time setting

After the battery is installed, the LCD will display the time status. Long press 【MEMO】 button for 2 seconds to display "12Hr or 24Hr" time format. Press [VOLUME ↑ ↓] button to select "12Hr or 24Hr" format.

Press 【MEMO】 button again. When the hour digit ** is blinking, press [VOLUME ↑ ↓] to adjust the current hour

Press 【MEMO】 button again. The minute number "***" is blinking. Press [VOLUME ↑ ↓] to adjust the minute.

Finally, tap [MEMO] to confirm the adjusted running time.

Alarm Setting(Automatic radio powered on setting)

Press [AM/FM] to enable the alarm function. The LCD displays "" symbol.

Long press [MEMO] button for 2 seconds to adjust the alarm hour. press [VOLUME ↑ ↓] button to adjust hour.

press [MEMO] again to adjust the alarm minute . press the [VOLUME  ] key to adjust the minutes.

Finally, tap [MEMO] to confirm the adjusted startup time of the alarm clock.

* Running Alarm time, The radio will turn on automatically .

Cancel the alarm: After manual shutdown, the alarm function is automatically disabled

Sleep time setting (automatic shutdown setting)

Set SLEEP: the radio working state, long press [sleep] key to start the sleep setting, LCD display " 90" (90 is the automatic shutdown time); At this time, press the [SLEEP] button and select the sleep time: 90-80-70-60-50-40-30-20-10-0 "minutes time can be selected, select" 0 "to cancel the sleep shutdown setting.

After selection, the radio will automatically shut down when working to the set sleep time.

AM Frequency 9KHz/10KHz Setting

On the time display state, long press [MEMO&M-] together for about 2 seconds. The LCD displays the current step value (9KHZ or 10KHZ). press the [VOLUME  ] button to adjust the step value. About one second, the number disappears, at which time the adjustment of the mid-wave step value is completed.

Note: In the United States, Canada, Mexico and other North American countries and South American countries, the mid-wave step value must be adjusted to 10KHZ, and other countries must be adjusted to 9KHZ

The medium wave step is a 9KHZ receiving frequency range :522-1710KHZ

The receiving frequency range of the mid-wave step is 10Khz :520-1710KHZ

external power source

The radio can be powered by external DC5V power supply, and the radio can be used by inserting TYPE-C,USB into the USB jack of the radio.

Note: If the radio is equipped with a battery, when switching to USB power & battery, please turn off the radio before switching between USB power & battery.

Instructions for using antenna

FM broadcast:

Pull out the antenna and adjust its length and direction to obtain the best FM signal reception.

Note: Shorten the antenna when reception is affected by other stronger broadcast signals.

AM broadcast:

The radio uses a built-in antenna for AM signal reception.

Change the radio direction to obtain the best AM signal reception

Use 3.5mm earphones

Plug the 3.5mm headphones into the earphone jack on top of the radio.
After inserting the earplugs, please turn the sound to moderate.

Main Technic index :

Frequency range	FM1 : 64-108MHZ FM2 : 87.5-108MHZ AM : 530-1700KHZ
Receive sensitivity	FM:≤8dB AM:86dB
Quiescent Current	≤60uA
Maximum Current	≤200mA
Loudspeaker	Φ40 mm/8Ω/1W
SNR	FM:≥40dB AM:≥33dB
Output power from earphone	10mw
Memory stations	58pcs (FM/AM:Each 29pcs)
Minimal Working Voltage	2.5v
External input voltage	DC5.0v
Battery	1.5v×3 AA
Product size	64.1×24.5×125.5mm
Earphone	Φ3.5mm/32Ω x 2

Warnings

- Please take out remove the batteries when the radio is not in use to avoid battery leakage.
- If the radio volume is unstable or the LCD display starts to dim or flash, this indicates that the battery power is weak and the batteries will need to be replaced.
- Do not subject the radio to hard knocks or drop it in water.
- Do not expose the radio to direct sunlight and use in high temperatures or high humidity areas or store the radio at temperatures <-5°C or >50°C.
- Do not use any chemical solvents to clean the radio exterior to avoid any damage to the casing.
- Do not disassemble, change or modify any internal parts of the radio.

FCC Statement:

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.

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.

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.