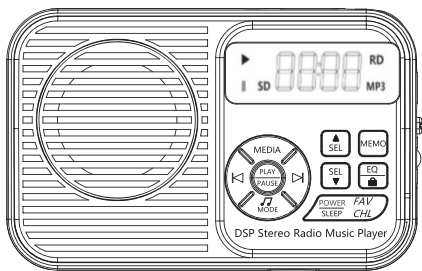


DSP Stereo Radio, Music Player
Operational Guideline

Model: HRD-231



Thank you for your purchasing the product. Please read the operation instructions before use and keep it safe for future reference.

1: Quickly know product features:

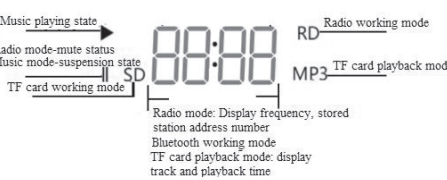
- ① The machine is portable and is easy to carry and operate. Use 18650 lithium battery of 2000mAh which has a long time of endurance. Its battery can be removed, which can extend the service life of the product.
- ② High-quality speakers with pleasant and beautiful sound are used. An external speaker is available and headphones can also be plugged in to listen to music.
- ③ The radio receives high sensitivity and the signal is stable.
- ④ The product has shutdown memory and power-off memory function.
- ⑤ It supports digital display and backlight indication. Rich contents can be displayed. Besides, audio points, stored station, station address number, music playback time, volume adjustment level, working mode and other related contents can be displayed. They can also give users clear operation instructions.
- ⑥ Functional corresponding voice prompts are designed for the product.
- ⑦ There are three radio search modes: automatic search storage station, automatic search radio, manual search radio.
- ⑧ There are two radio storage modes: manual storage and automatic scanning storage radio.
- ⑨ The radio chip has large capacity, which can store more

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than 50 stations.

- ⑩ Lock function, mute function and humanized function are available. They can enrich product functions.
- ⑪ Bluetooth of version 5.0 is used for connection. It can be used for short-distance music transmission (receiving distance ≈ 20 meters) and can be easily connected with laptop computers, mobile phones, PDA and other digital products. Bluetooth devices to achieve wireless transmission of music.
- ⑫ TF card playback: the able to play music of MP3, WAV, WMA, APE, FLAC format; it can play TF card of 256G to the maximum.
- ⑬ TF card playback support options: "A" (sequential playback), "O" (single cycle), "P" (clip cycle), "r" (random playback)".
- ⑭ In the radio (Bluetooth)TF card playback mode, six sound quality effects of EQ sound, including NORMAL, POP, ROCK, JAZZ, CLASSIC, COUNTRY, can be used.
- ⑮ LED lighting is available and it can be used as a mobile power source intimate emergency tool.

2: Explanation of LED digital tube display content



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3: Description of key functions:

POWER SLEEP	1: Power switch: long press it for 2 seconds to power on and long press it for 2 seconds to power off. 2: Set the sleep of 90 minutes (see 6.1 Introduction for details)
+VOLUME	Switch button for three kinds of working states: Bluetooth, TF card and radio.
MEDIA	Radio working mode: Light press it and the frequency increases by 0.1MHz, and long press it for 2 seconds and it will automatically scan and search stations.
▲SEL	Radio working mode: light press it and the frequency decreases by 0.1MHz, long press it for 2 seconds and it will automatically scan and search stations.
SEL ▼	Manual storage button: long press it for 2 seconds and the frequency points flashes to enter the storage prompt; light press it again to confirm the stored radio stations [See 6.5 Introduction for detailed functions]
MEMO	Radio working mode: long press it for 2 seconds to directly store common stations; light press it for 2 seconds to start automatic scanning search stations. Quick access to the most frequently used stations. [See 6.6 Introduction for details]
FAV CHIL	

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EQ	1: Working mode: light press it to select EQ sound effect [Refer to Point 12 for detailed functions]. 2: Lock: long press it for 2 seconds to enable the lock key function. In the lock key state, long press it for 2 seconds to release the locking key function.
↔	1: Radio working status indicates: to collect stations select stations. 2:Bluetooth working mode: light press it to play the next song. 3:TF card working mode: light press it to play next song; long press it for fast-forward/backward.
⏪ ⏩	1: Radio working status indicates: to collect stations select stations. 2:Bluetooth &TF card playback mode: light press it to play previous song. 3:TF card working mode: light press it to enter the next song; long press it for fast reverse.
⏸	1: MP3 working mode: light press it to pause the playback; light press it again to cancel the play. 2: Radio working mode: light press it to start the mute function; light press it again to cancel the mute function. 3: Radio working status: long press common stations; light press it for 2 seconds to start automatic scanning search stations, automatic storage radio function.
Play/Pause	

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MODE	TF card playback mode: light press it to choose four playback modes: Sequential play, single loop, folder loop, random play [see 7.4 Introduction for specific functions]
LED on/off	1: Switch to "off": Turn off the LED light. 2: Switch to "on": Turn on the LED light.
DC IN DC5V	TYPE-C USB charging jack; use DC5V power to charge the radio
USB OUT 5V 1A	Externally output DC5V power supply to charge mobile phones or other devices [Detailed functions are described in Point 11]
⏻	Plug in the 3.5mm headphone jack to receive programs.
⏪ ⏩	TF card jack

4: Instruction to battery installation/radio charging

- 4.1. Open the battery cover behind the radio.
- 4.2. Install the lithium battery correctly according to the polarity direction of the battery.
- 4.3. Close the battery cover.
- 4.4. When the product is used for the first time, it is recommended to charge the battery to saturation state before it is used.
- 4.5. Recommended charging adapter parameters: DC5V/1A×1A.
- 4.6. It is recommended to charge the product in the off state. The red LED light flashes, indicating that it is being charged.

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The red LED light stops blinking and is steady on, indicating that it is fully charged.

5: Usage of antenna

- Listen to FM radio: The machine adopts hand-hung rope antenna to receive FM radio programs;
- * Tip: If the received signal is not clear, or there is strong radio interference, which may result in a strong station, you can appropriately adjust the position of the hand-hung rope antenna.

6: Introduction to functions:

- 6.1. Turn on/off the power: Install the battery correctly according to Point 4 and then long press Power [POWER] for two seconds to turn on the radio. Then, the LCD displays "HT". Long press [POWER] for two seconds to turn off the radio.
- 6.2: Set the sleep time: Long press [SLEEP] for two seconds to set the sleep time. 6.2.1: working state, light press power [SLEEP] to set the sleep time. When the sleep time "90" is displayed, please light press [SLEEP] again. 90, 80, 70, 60, 50, 40, 30, 20, 10 OFF change in a round. 10-90 minutes indicates the optional sleep shutdown time and the default value is the shutdown time. Selecting "OFF" means abandoning the setting for automatic shutdown. 6.2.2: After the automatic sleep shutdown is set, you can also view the remaining sleep shutdown time by using the light press [SLEEP] to check the remaining sleep shutdown time.

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6.3: +volume: adjust the volume

When the device is on, you can slide upward to increase the volume level, which can be adjusted to V16 to the maximum. Slide down to lower the volume and adjust it to V00 level.

6.4: There are three ways to search for radio stations (automatic search for radio stations, automatic search for radio stations, and manual search for radio stations):

- 6.4.1: automatic search for radio stations: In the working state of the radio, long press [Play/Pause] to enter the automatic search and storage radio function. The frequency ranges from the lowest end to the highest end. Stations can be searched by automatic scanning and stations with signals can be automatically stored.
- 6.4.2: automatic search for radio stations: In the FM state, long press [▲] or [▼] for two seconds to start search the station forward or backward automatically. After the stations are received, please stop searching stations and play the radio program received at that time.
- 6.4.3: manual search for radio stations: In the frequency modulation state, light press [▲] [▲] [▲] and the frequency increases according to the lowest step value and decreases according to the lowest step value: 0.1MHz.
- 6.5: manual storage of radio stations: After the stations are received, please stop searching stations and play the radio program received at that time.
- 6.5.1: Adjust to the target frequency point; long press [MEMO] for 2 seconds and "P***" character on the display screen will

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Flash (P*** is the address number of the storage station); light press [MEMO] to confirm the stored station.

6.5.2: If the station address number "P***" flashes for 5 seconds, light press [MEMO] key to confirm the station and the station will be not be stored.

6.6: Function of FAV CHIL

- 6.6.1: Memory favorite channel method: Long press [FAV CHIL] for 2 seconds and the frequency digits flashing indicating that the favorite channel station has been stored.
- 6.6.2: Take out favorite channel method: short press [FAV CHIL] button can be listened it quickly.
- 6.7: Delete all radio stations: In the FM working state, long press [Play/Pause] for two seconds to adjust the frequency. The frequency is automatically scanned and searched. When no station is saved, you can light press any key to stop the automatic scanning and search. At this time, all pre-stored stations can be deleted.
- 6.8: Mute & pause playing: 6.8.1: In frequency modulation mode, light press [Play/Pause]. "T" symbol displayed on the display screen means the mute state. Light press [Play/Pause] again to unlock the mute function.

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6.8.2: In the music playing state: light press [Play/Pause] and the display screen displays "T" symbol, indicating the Pause state. Light press [Play/Pause] again to release pause state. "T" symbol displayed means that the product restores its normal playing state.

6.8: Lock function operation:

- 6.8.1: Lock: In the startup state, long press [▲] and the digit tube displays "LO". At that time, all key functions will be locked. After they are locked, when you press any key, "LO" will be displayed.
- 6.8.2: Unlock: In the startup state, long press [▲] and the digit tube displays "LO". At that time, all key functions will be unlocked and the product will start to work normally.

7: TF card music playing operation:

This machine can play songs of MP3, WAV, WMA, APE, FLAC formats.

- 7.1: Insert TF card and TF card songs and music will be played in priority.
- 7.2: Light press [▶] to enter the next song; light press [◀] to return to the previous song.
- 7.3: Long press [▶] to play fast forward/longpress [◀] to rewind playback.
- 7.4: Select the playing mode: light press [MODE] and the display screen will display "A", "O", "P", "r" in rotation. These characters stand for: The selection of four playback modes: "A" (sequential play),

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"O" (single loop), "P" (folder loop), "r" (random play)". If there is no operation within three seconds, the finally selected playback mode will be on automatically.

8: Bluetooth mode:

- Bluetooth name of this product: "HRD-231"
- 8.1: In the startup working state, light press [MEDIA] to switch to "BLE" mode. Bluetooth "BLE" will flash, showing that it is waiting for Bluetooth connection. After it is successfully connected, the radio will give a prompt tone: "Bluetooth is successfully connected", and "BLE" will be constantly displayed.
- 8.2: Light press [▶] to play the next song; light press [◀] to return to the previous song; light press [Play/Pause] to switch "Play/Pause" or operate the mobile phone to do corresponding controls.

9: Music playback mode selection and EQ sound effect

Under the working state, light press [▲] to display screen rotating playing: NO: POP rOC: JAZZ CLA: COL; selection of six kinds of sounds: NO: NORMAL POP: POP rOC: ROCK JAZZ: JAZZ CLA: CLASSIC COL: COUNTRY Do not operate the default adjusted EQ sound within 3 seconds.

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10: Flashlight usage instruction:

Push the switch to LED "On" and turn on the flashlight light; push the switch to LED "Off" and turn off the flashlight light.

11: Introduction to emergency function of charging mobile power supply:

- The product is externally connected to DC5v for charging. The power stored by the radio can be used to charge your mobile phone, MP3, PDA. Plug one end of the charging cable into the standard USB port and the other end into the external device to be charged.
- When the battery is overcharged or short-circuited, the output will be automatically stopped. When the battery voltage of the radio drops below 2.5V, the power will be automatically turned off.
- Attention:
 - 1) The necessary condition for the product's being used as mobile charging bank is that the voltage of the radio should be 2.5V.
 - 2) The necessary condition for the product's being used as the charging bank is that the voltage of the radio should be ≥ the voltage of the required charging equipment.
 - 3) External input charging and internal output charging can not be used at the same time.
 - 4) This product can only be used to charge external devices and can not provide power.

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12: Method to turn off/Turn on voice prompt

When the device is on, press and hold [EQ] for 5 seconds, a red LED displays [F], indicating that the voice prompt is turned off. Press and hold [EQ] again for 5 seconds, and the LED will display [F], indicating that the voice prompt is enabled.

13: Parameter specifications:

Supported memory type	Trans Flash card
FM frequency range	FM: 76.0-108.0MHz
TF card playback format	MP3, WAV, WMA, APE, FLAC
Bluetooth version	5.0GHz
Number of FM storage stations	50
Headphone output	Standard 3.5mm, headset JACK
Charging time	TYPE-C USB
Loudspeaker	Φ40mm/4Ω/3W
External power source	DC5V
Minimal working voltage	3.3v
Output power	1.0W
Lithium battery specification	2000mAh 3.7V 18650 (lithium battery)
Product volume	94.5×36.4×57mm
Net weight	150g (including lithium battery)

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Manufacturing needing attention:

- Before using this machine, you should ensure that you follow the following basic safety tips to ensure the safe and reliable use of the product.
- Read and understand all safety guidelines and usage information.
- Original lithium batteries are recommended.
- When the machine is used, if such prompt tone as "insufficient power, please charge it" is given or if the "USB" character flashes, please charge the machine in time, so as not to affect its normal usage.
- It is recommended to use a charging device with an output voltage of DC5V/1A×1A to charge the machine so as not to cause damage to lithium batteries or the equipment.
- If the machine is not used for a long time, please ensure that it is charged once a month, or take out the battery and place it separately.
- Do not expose this product to rain, moisture, dripping or splashing of any liquid.
- Do not let this product near high temperature heat source and do not burn or bake it at high temperature.
- Do not place the machine in direct sunlight for a long time.
- Do not let the product fall or be hit and do not put heavy pressure on it.

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FCC Warning:

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 to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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 complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.