

User's Manual For Broadband Multi-functional Radio

Bluetooth.TF Card. AUX-in Play. Recorder
APP Intelligent Remote Control
(Model: HRD-C919)

Thank you for buying our product. Before use, please read this manual carefully and keep it properly.



1: Product overview

Our aim in new product R&D has always been continuous innovation and meeting the needs of users. We hope you like our meticulously crafted C919 radio which will bring more happiness to people who like to listen to the radio.

This is a broadband multi-functional radio. For more details, please read this manual.

2: Product features

- 2.1: This product can receive wireless signals of FM, MW, SW, USB , LSB, LW, VHF, UHF, AIR, CB and WB by means of software programming.
It supports DEMOD mode, BW value, LOCAL, DX, double shuttle quick/slow tuning, MW/SW magnetic rod antenna receiving, DIY MW/SW loop antenna and so on, showing extremely high playability.
- 2.2: This product supports multiple ways of choosing a channel: pressing the number key, shuttle fine tuning, shuttle quick tuning, number key slow tuning, pressing the number key to choose automatically and searching and storing a channel automatically.
- 2.3: This product has two screens of the primary screen (display various working conditions) and the secondary screen (display the marquee, time, signal intensity, etc.).
The primary screen is FSTN all-sight screen with VA color, giving users better visual effect.
The primary screen is a 3.54inch large screen: (size of window displayed: 82.9mmx45.2mm)
Size of window displayed of the secondary screen: 47.5x35.56mm
- 2.4: This product supports mobile APP intelligent remote control, realizing intelligent close control of radio intelligently within 20m.
- 2.5: This product uses advanced audio technology to realize Bluetooth connection for wireless music play.
- 2.6: This product supports TF card music play, music play of MP3, WMA, WAV, APE and FLA, and 256G memory maximally.
- 2.7: This product uses two 18650 5000mAH lithium batteries which can be replaced and has long time of endurance.
- 2.8: AIR has 5 meter waves, SW has 15 meter waves, VHF has 8 meter waves, and UHF has 8 meter waves, which allows you to switch between frequencies and search you channel quickly.
- 2.9: FM has 3 frequencies for you to choose and AM has 2 frequencies for you to choose without national boundary limitation.
- 1): FM1: 87.5-108MHZ
FM2: 76.0-108MHZ
FM3: 64.0-108MHZ
- 2): AM frequency receiving range: 522-1710KHZ (step value: 9KHZ):
AM: 520-1710KHZ (step value: 10KHZ)
- 2.:10: The marquee can be turned on in state of music play, giving you beautiful melody.
- 2.11: This product has a 3-inch all-band 20W speaker with BASS effect and supports listening with the earphone, meeting all users' needs.
- 2.12: This product supports four modes of play in the state of TF card play:
: (repeat all) , : (repeat one) ,
 : (repeat file) ,  : (random)
- 2.13: This product supports the function of lock.
- 2.14: The sleep power-off time can be set as 90, 80, 70, 60, 50, 40, 30, 20 and 10 minutes.
- 2.15: Two modes of scheduled power-on and scheduled alarm clock can be set. Two sets of time of scheduled power on and scheduled alarm clock can be set.

- 2.16: After choosing scheduled power-on, the power-off time after scheduled power-on can be set
- 2.17: The backlight and backlight display of number key are convenient for you to use in darkness.
- 2.18: In the mode of receiving, this product has a large memory of storing channels and can store 1,600 channels (FM/MW/SW/VHF/UHF/LW/CB/AIR: 200 channels for each)
- 2.19: This product supports EQ play.
- 2.20: This product displays temperature, time and perpetual calendar.
- 2.21: Adjustable color of display screen, multiple kinds of light ON time, multiple choices of alarm clock...humanized design increases playability.
- 2.22: This product supports factory data reset.

3: Packing list

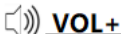
Name	Quantity
HRD-C919 high-performance all-band radio	1
String	1
18650 2500mah 3.7V lithium battery	2
USB TYPE-C charging cable	1
User's Manual	2 (User's Manual/APP User's Manual)
Screwdriver	1
Gift packing box	1

4: Download of mobile APP (see APP Installation on the attached sheet)

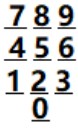
Step1: Turn on the radio	
Step2: Download the APP	  Android: QR code IOS: APP Store Radio-c Radio-ct
Step3: Install the APP onto the mobile desk	 Radio-c
Step 4: Click to enter the APP and click to connect "HRD-C919-BLE"	

To disconnect the APP, long press “  **SLEEP** ” to turn off the radio and display the clock, long press “  **SLEEP** ” for 2 seconds to exit the APP after the APP connection symbol “  ” disappears on LCD. You can also exit the APP in the system menu (For details, please see Section 14 about how to exit the APP). For more functions of APP, please see the attached APP User’s Manual.

5: Functions of buttons

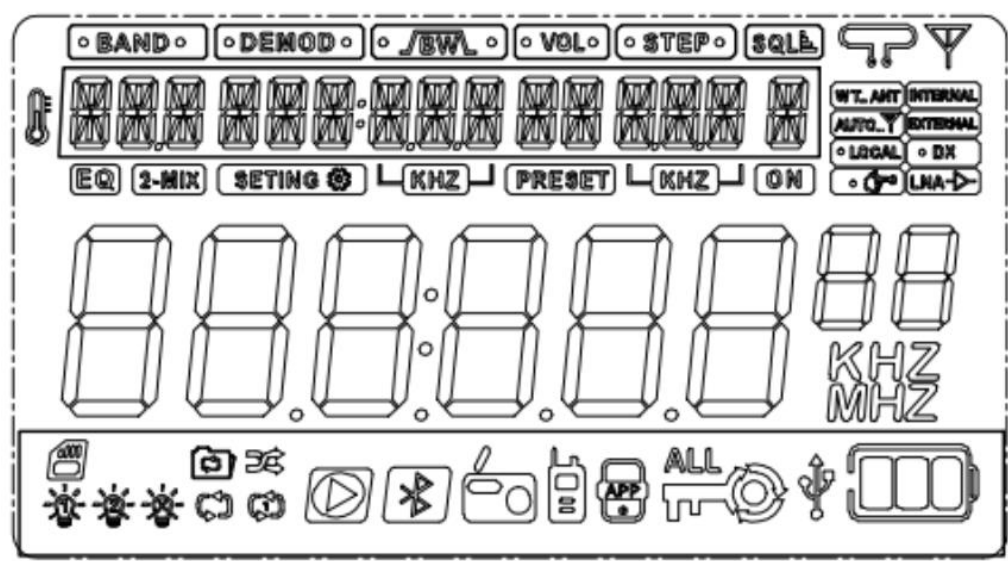
	1: ON/OFF: Press any button to turn on the light and show the time. When the time is displayed, lightly press the button to turn on the radio. In the mode of receiving, long press the button to turn off the radio (see Section 7.1.1). 2: Long press the button to set the sleep power-off time (see Section 7.1.2).
	In the mode of receiving, lightly press this button to switch between FM, MW, LW and SW.
	In the mode of receiving, lightly press this button to switch between VHF, UHF, AIR, CB and WB.
	1: In the mode of FM/AM, lightly press to choose the FM&AM frequency receiving range. Please see Section 7.3.2/7.3.3. 2: In the mode of SW/UHF/VHF/AIR, lightly press to switch between SW&UHF&VHF&AIR meter waves (see Section 7.3.5). 3: In the mode of TF card, lightly press to switch between play modes:repeat all-repeat one-repeat file-random
	1: In the mode of any band, press this button to set the bandwidth. See Section 7.3.14. 2: In the mode of FM/SW: long press this button to set the tuning mode. See Section 7.3.11.
	In the mode of FM/SW/UHF/VHF/AIR/CB/WB, press this button to select from LOCAL and DX mode.
	1: When the radio is working, lightly press this button to start/stop the silence mode. 2: In the mode of VHF/UHF/AIR/CB/SW, long press this button for 2 seconds to start/stop SQ.
	1: When the radio is working, lightly press this button to switch between Bluetooth, TF and PC and long press it to disconnect Bluetooth. 2: When the radio is turned off and the time is displayed, long press this button to disconnect APP.
	1: Lightly press this button to choose the mode of antenna. 2: Long press this button to choose antenna attenuation (according to the preset 10/20d attenuation. See Section 7.3.10).
TIME/SET	1: Lightly press this button to turn on/off the primary screen light. 2: Set the time. See Section 12.
ALARM	1: Lightly press this button to turn on/off the secondary screen light. 2: Set the alarm clock. See Section 13.
DISPLAY	1: In the mode of time/Bluetooth/TF card, lightly press this button to see the alarm clock time. 2: In the mode of receiving, lightly press this button to display the time/signal intensity.
	When the radio is working, lightly press/long press to increase the volume.

	When the radio is working, lightly press/long press to decrease the volume.
SCAN... ATS	1: In the mode of receiving (excluding WB), long press this button for 2 seconds to automatically search/store a channel. 2: In the mode of VHF/UHF/AIR/CB, lightly press this button to automatically scan and search a channel, and lightly press is again to exit scanning. 3: In the mode of WB, long press this button for 2 seconds to start/stop automatic search of WB channels.
SET... 	1: When the radio is turned on, press this button to enter the menus setting. See Section 7.3.10. 2: When the time is displayed, press this button to enter the menu setting. See Section 14.
DEL 	1: In the mode of receiving, enter the mode of taking a channel and long press this button for 2 seconds to delete a channel. 2: In the mode of TF card, select the music to be deleted and long press this button for 2 seconds. When “del” appears on the primary screen, long press this button again to confirm deletion. 3: When using the number key, press this button to delete.
 PRESET	1: Long press this button for 2 seconds to store a channel, and lightly press it again to confirm. 2: Lightly press this button to take a channel.
TUNE+ NEXT 	1: In the mode of receiving, lightly press this button to progressively increase the min step value of frequency at all brands. Long press is for 2 seconds to search channels up automatically. 2: In the mode of TF card, lightly press this button to play the next music, and long press it to play fast-forward. 3: In the mode of Bluetooth play: lightly press this button to play the next music.
TUNE- PREV 	1: In the mode of receiving, lightly press this button to progressively decrease the min step value of frequency at all brands. Long press is for 2 seconds to search channels down automatically. 2: In the mode of TF card, lightly press this button to play the previous music, and long press it to play fast-backward. 3: In the mode of Bluetooth play: lightly press this button to play the previous music.
 Big and small Shuttle Button	1: In the mode of receiving, rotate the internal and external shuttle button to select a receiving frequency. 2: Lightly press the internal button “” to change the step value. Lightly press the “” to select the step value needed. Rotate the big shuttle button to progressively increase/decrease at the min step value of frequency ranges. 3: Rotate the internal button “”, the last frequency number flashes. Every time you lightly press this button“”, Digital shift flicker. Rotate the button to quickly search the target frequency. 4: In the mode of TF card play, rotate the internal and external shuttle button to select a music and press “” to confirm your selection. 5: When setting the time/alarm clock/menu, press this button to set in conjunction with the task command.
	1: In the mode of receiving: 1-1: Select a frequency: it's not the mode of taking a channel. Lightly press “EN”

 [Number key]	to enter frequency selection with number key and press “EN” to confirm. 1-2: Take a channel: After channels are stored, press “PRESET” to take a channel. Directly press the number key to take a channel and press “EN” to confirm. 1-3: Address of manually storing a channel: long press “PRESET” to enter the mode of manual channel storing. Press the number key to select an address of channel storing, and lightly press “PRESET” to confirm. 2: In the mode of TF card, lightly press this button and “EN” to select a music.
EN	1: In the mode of receiving, lightly press this button to select a frequency using the number key and press it again to confirm. 2: In the mode of TF card, lightly press this button and “  ” to select a music.
• UN-LOCK • RS-LOCK •LOCK [Push lock]	1: Push the switch to the position of “UN” and all keys and knobs are not locked. 2: Push the switch to the position of “RS-LOCK”, and the shuttle knobs are locked. 3: Push the switch to the position of “.....LOCK” and all keys and knobs are locked (the state of lock)
	When the radio is working, lightly press this button to switch between NORMAL, POP, ROCK, JAZZ, CLASSIC, COUNTRY, NEWS, VOICE, DAC-ANALOG AND CW
 [Jack of TF card]	When the radio is working, insert the TF card to play the music in TF card first.
 [Earphone output]	When the radio is working, insert the 3.5MM earphone to listen to the radio and cancel the loud speaker.
AUX. [Audio input]	When the radio is working, inset the 3.5mm external audio source and play the music of external source first.
 [TYPE-C jack]	1: Charging jack 2: Connect to the audio output jack of computer 3: Connect to the computer with USB cable. Used as the TF card reader.
 [On the right of the radio]	When external T-shaped antenna is used in the mode of MW/SW, press this button to adjust the signal to noise ratio and antenna field intensity. The higher RSSI and SNR values are, the better.

6: Symbols on LCD

6-1: The primary screen



	Use of loop antenna (magnetic rod loop antenna)
WT..ANT	Use of two-way radio SMA socket input
AUTO..Y	Automatic antenna mode
• LOCAL	Antenna attenuation 10/20dB
	Manual antenna tuning
	Rod antenna (including the external antenna)
INTERNAL	Built-in antenna (including rod antenna/magnetic rod) receiving
EXTERNAL	External antenna (including WT.AT and external ear antenna input) receiving
• DX	Remote receiving (default)
LNA→	Use of LNA1 (or setting)
• VOL •	Volume
PRESET	Search and store a channel automatically Store a channel manually (character flashing) Take a channel (character always on)
	Battery level
	Charging status
KHZ	Unit
MHZ	Unit
	Lock (lock the shuttle , locks all)
	Bluetooth connection (“ ” means waiting for connection; “always on” means successful connection)
	Bluetooth &TF card play (means pause, “always on” means play)
ALE	Weather band alarm of North American countries

• BAND • 	MW; LW; FM; SW; AIR; VHF; UHF; CB; WB
• DEMOD • 	Demodulation mode
• √BW • 	Bandwidth
• STEP • 	Step value
SQL 	SQL  " squelch is on, " SQL  " squelch is off)
	Standby time: show the time When the radio is working: FM mode: show the address of frequency/channel storing/channel taking Bluetooth mode, " bt " shows the status of Bluetooth TF Card mode: show the time of play Insert the 3.5mm audio cable: AUX shows the external audio input play
A-LCD SETTING	Set the light-on time of primary screen/the color of backlight
B-LCD SETTING	Set the light-on time of secondary screen
B-KEY SETTING	Set the light-on time of button
APP ENABLE	Available APP connection
APP DISABLE	Unavailable APP connection
TIMER DISPLAY	Start the time display or stop the time display on the primary screen
SYSTEM RESET	Factory data reset
VETSION-*.~*	Version number
	This product is successfully connected to the mobile APP
	TF card is inserted
ATT-SETING	Set the receiving of antenna
ANT-CHANNLE	Select the antenna channel
ANT-KEEP-PASS	Keep antenna pass
ANT-LNA1-GAIN	LNA1 antenna channel gain selection
ANT-LNA1-GAIN-L	LNA1 antenna channel low gain
ANT-LNA1-GAIN-H	LNA1 antenna channel high gain
ANT-LNA2-GAIN	LNA2 antenna channel gain selection
ANT-LNA2-GAIN-L	LNA2 antenna channel low gain
ANT-LNA2-GAIN-H	LNA2 antenna channel high gain
ATT-GAIN antenna attenuation selection	ANT-10DB: antenna attenuation 10DB; ANT-20DB: antenna attenuation 20DB



7.1 **SLEEP** :POWER ON/POWER OFF

7.1.1: ON/OFF: Correctly install two batteries.

Lightly press any key to start the time display, and lightly press [**SLEEP** ] to turn on the radio.

When the radio is working, long press [**SLEEP** ] for 2 seconds to turn off the radio.

Before using the radio for the first time, please fully charge the batteries.

7.1.2: Set the sleep time:

When the time is displayed, long press [**SLEEP** ] for 2 seconds to set the sleep time. “90 ” appears on the secondary screen. Lightly press [**SLEEP** ] to choose the sleep time: 90, 80, 70, 60, 50, 40, 30, 20 and 10 minutes.

After choosing the sleep time, [] appears on the secondary screen.

Note: The light of the power button will have different colors in different working states. The actual object prevails

7.2: **VOL+** **VOL-** Volume adjust.

When the radio is working, lightly press or long press [ **VOL+** &  **VOL-**] to adjust the volume. Volume level: 00-32.

7.3: Listen to the radio

7.3.1: This product can receive the following bands. Lightly press

[] & [] ” to select a band.

FM: 64-108MHZ (demodulation mode supports ST/WFM selection)
MW: 520-1710KHZ
SW: 2.3-30.0MHZ (demodulation mode supports AM/LSB/USB) . See Section 7.3.11.
LW: 153-522KHZ
V.UHF: 20-999MHZ
CB: 25-28MHZ
AIR: 118-138MHZ
WB: 162.4-162.55MHZ

7.3.2: FM frequency receiving range can be adjusted as needed

In the mode of FM, lightly press [] to show “64.0MHZ” on the primary screen. Continuously press [] to see three number of 64MHZ, 76MHZ and 87.5MHZ on the primary screen in turn. If 64MHZ is selected, it means the frequency receiving range is 64-108MHZ, and so forth.

Value on the primary screen	The default working frequency range
64MHZ	FM1: 64-108MHZ
76MHZ	FM2: 76-108MHZ
87.5MHZ	FM3: 87.5-108MHZ

You will exit setting automatically after stopping operation. The finally selected frequency range will be the default one.

7.3.3: MW step value, 9KHZ/10KHZ can be adjusted as needed

In the mode of MW, lightly press [] to show “520MHZ” on the primary screen. Continuously press [] to see two number of 520KHZ and 522KHZ on the primary screen in turn.

Value on the primary screen	The default working frequency range	The default MW step value
522KHZ	522-1710KHZ	9KHZ
520KHZ	520-1710KHZ	10KHZ

You will exit setting automatically after selecting the AM frequency range and stopping operation. The finally selected frequency range will be the default one.

Note: AM step value is 10KHZ In America, Canada, Mexico and other countries of North America and South America and is 9KHZ in other countries.

7:3.4: Method of searching channels

Search channels manually using the button/search channels automatically using the button/search and store channels automatically using the button/the number key/search channels by rotating the shuttle button.

7.3.4.1: Search channels manually using the button

Lightly press [$\frac{\text{TUNE+}}{\text{NEXT}} \Delta$] or [$\frac{\text{TUNE-}}{\text{PREV}} \nabla$] to decrease or increase progressively at the minimum step value of wave band.

FM min step value: 0.1MHZ,

VHF min step value: 0.0125MHZ

MW min step value: 9KHZ / 10KHZ

UHF min step value: 0.0125MHZ

LW min step value: 9KHZ

AIR min step value: 0.025MHZ

SW min step value: 0.005MHZ

CB min step value: 0.005MHZ

7.3.4.2: Search channels automatically using the button

Long press [$\frac{\text{TUNE+}}{\text{NEXT}} \Delta$] or [$\frac{\text{TUNE-}}{\text{PREV}} \nabla$] for 2 seconds to search channels at the minimum step value of wave band. Search will stop after finding a channel, and this channel will be played.

7.3.4.3: Search and store channels automatically using the button

In the mode of receiving, long press [$\frac{\text{SCAN...}}{\text{ATS}}$] for 2 seconds to search and store channels automatically.

In process of automatic search, “PRESET” flashes on the primary screen. After a channel is successfully found, “CH****” appears on the primary screen, which is the address of storing channels.

After a round of search, search will stop automatically, and the first channel stored will be played.

Every band can store 200 channels, 1,600 channels in total (excluding WB).

Note: the number of channels stored depends on local signal intensity.

7.3.4.4: The shuttle button

In the mode of receiving, rotate the internal and external shuttle button at the front of radio to select a channel.

----Lightly press the internal button [], the step value changes. Lightly press this button to select a step value. Rotate the big shuttle button [] to select the frequency you need clockwise or anti-clockwise according to the step value selected.

The adjustable step values at all bands:

Band	Step Value	Default Value
FM	10KHZ, 50KHZ, 100KHZ	100KHZ
SW (AM/LSB/USB)	0.01KHZ, 0.02KHZ, 0.1KHZ, 1KHZ, 5KHZ	5KHZ
MW step value is 9KHZ	3KHZ, 9KHZ	9KHZ or 10KHZ
MW step value is 10KHZ	5KHZ, 10KHZ,	
LW	3KHZ, 9KHZ	9KHZ
VHF	1KHZ, 5.0KHZ, 6.2KHZ, 7.5KHZ, 12.5KHZ, 25KHZ	12.5KHZ
UHF	1KHZ, 5.0KHZ, 6.2KHZ, 7.5KHZ, 12.5KHZ, 25KHZ	12.5KHZ
AIR	8.3KHZ, 12.5KHZ, 25KHZ	25KHZ
CB	0.01KHZ, 0.02KHZ, 0.1KHZ, 1KHZ, 5KHZ	5KHZ
WB	25KHZ	25KHZ

--Rotate the small shuttle button[], the last frequency number flashes. Lightly press the internal button[], the number flashes. Rotate the small shuttle button to see quick changes at the position of number flashing until finding the target frequency.

7.3.5: Quick switch between [^{SUB}BAND] meter waves

SW, VHF, UHF, and AIR all have meter waves:

Band	Meter Wave
SW	2.3MHZ.3.2MHZ.3.75MHZ.3.9MHZ.4.75MHZ.5.73MHZ. 7.1MHZ.9.25MHZ.11.5MHZ.13.57MHZ. 15.03MHZ. 17.48MHZ. 18.9MHZ. 21.45MHZ. 25.67MHZ (15 meter waves)
VHF	30.0MHZ.42.0MHZ.55.0MHZ.68.0MHZ.100.0MHZ.136.0MHZ, 218.0MHZ. 250.0MHZ (8 meter waves)
UHF	250.0MHZ.320.0MHZ.460MHZ.580.0MHZ.620.0MHZ.730.0MHZ, 800.0MHZ.999.0MHZ (8 meter waves)
AIR	118MHZ.123MHZ.128MHZ. 133MHZ.138MHZ (5 meter waves)

Lightly press[] and press[], [] or the shuttle button to quickly find the frequency you need.

7.3.6: Store channels manually

- When the radio is working, find a target frequency with the method in Section 7.3.4. Long press[] for 2 seconds to enter the mode of storing channels. “PRESET ***” flashes on the primary screen. Lightly press [] to confirm.
- Long press[]for 2 seconds. “PRESET ***” flashes on the primary screen. Lightly press [] or[] to choose an address of storing channels (or the number of channel to be replaced). Lightly press “” again to confirm.
- Long press “” for 2 seconds. “PRESET ***” flashes on the primary screen. Lightly press [] to enter the address of storing channels. Lightly press [] again to confirm, and now a channel is stored successfully.

7.3.7: Take channels

- After channels are stored with the methods in Section 7.3.4.3 and 7.3.6, lightly press [] to enter the mode of taking channels. When “PRESET CH ***” appears on the primary screen, lightly press [] or[]to choose an address of taking channels.
- In the mode of “PRESET” taking channels, you can also use []to enter a valid address of storing channels, and press “EN” again to confirm the frequency of address of taking channels.
- If the number you select is not a valid address of storing channels, “null” appears on the primary screen.
- Exit the mode of taking channels: Lightly press “PRESET”, “PRESET” disappears on the primary screen, which means exiting the mode of taking channels.

7.3.8: Delete channels

Select a channel you don't need according to Section 7.3.7. Long press [], then [**DEL**] appears on the primary screen, which means the channel is deleted.

7.3.9: WB of North America

Lightly press [] to switch to WB. Lightly press [] or [] or rotate the shuttle button [] to choose the weather frequency to receive. Receiving frequencies:

1 - 162.400MHZ, 2 - 162.425MHZ, 3 - 162.450MHZ, 4 - 162.475MHZ,
5 - 162.500MHZ, 6 - 162.525MHZ, 7 - 162.550MHZ

7.3.9.1: Search WB channels automatically

In the mode of WB, long press [] for 2 seconds to automatically search WB channels. "ALE" appears on LCD. In the state of "ALE", if no WB channel is found, long press [] for 2 seconds again to exit "ALE" automatic search.

(Note: All buttons don't work in the mode of automatic search. You must use other receiving functions by long pressing [] for 2 seconds to cancel automatic search)

7.3.10: Enter the setting function when the radio is working at all bands

In the mode of receiving, long press [] to enter the setting function and enter the main menu.

Rotate the shuttle button [] clockwise or anti-clockwise to select in the main menu

Lightly press shuttle button [] to enter the sub-menu.

Rotate the shuttle button [] clockwise or anti-clockwise to select and lightly press this button to confirm your selection. "SETTING OK" appears on the primary screen.

Exit setting: In order to exit setting in the mode of sub-menu, long press [] to return to the home page, and lightly press [] again to exit.

In order to exit setting in the mode of main menu, directly lightly press [] to exit. Or wait for about 10 seconds, then the system will exit automatically.

Band	Tasks in the main menu on the primary screen	Select in the sub-menu
FM	ANT-KEEP-PASS Keep antenna pass	Lightly press the shuttle button [⦿] to show “SETTING OK”, which means setting is finished.
	ANT-CHANNLE Antenna channel selection	Lightly press the shuttle button [⦿] to enter the sub-menu to select: ANT-HPF (HPF filter) ANT-LNA1 (LNA1 channel) Lightly press the shuttle button [⦿] to show “SETTING OK”, which means setting is finished.
	ANT-LNA1-GAIN LNA1 antenna channel gain selection	Lightly press the shuttle button [⦿] to enter the sub-menu and rotate the button to select: ANT-LNA1-GAIN-L (LNA1 antenna channel low gain) ANT-LNA1-GAIN-H (LNA1 antenna channel high gain) Lightly press the shuttle button [⦿] to show “SETTING OK”, which means setting is finished.
	ANT-LNA2-GAIN LNA2 antenna channel gain selection	Lightly press the shuttle button [⦿] to enter the sub-menu and rotate the button to select: ANT-LNA2-GAIN-L (LNA2 antenna channel low gain) ANT-LNA2-GAIN-H (LNA2 antenna channel high gain) Lightly press the shuttle button [⦿] to show “SETTING OK”, which means setting is finished.
	ATT-GAIN Antenna attenuation	Lightly press the shuttle button [⦿] to enter the sub-menu and rotate the button to select: ANT-10DB: antenna attenuation 10DB ANT-20DB: antenna attenuation 20DB Lightly press the shuttle button [⦿] to show “SETTING OK”, which means setting is finished.
	ANT-DEFAULT Default antenna	Lightly press the shuttle button [⦿] to show “SETTING OK”, which means setting is finished.

Band	Tasks in the main menu on the primary screen	Select in the sub-menu
SW/CB/ VHF/UHF/ AIR	ANT-KEEP-PASS Keep antenna pass	Lightly press the shuttle button[] to show “SETTING OK”, which means setting is finished.
	ANT-CHANNLE Antenna channel selection	Lightly press the shuttle button[] to enter the sub-menu to select: ANT-LPF(HPF filter) ANT-LNA1(LNA1 channel) Lightly press the shuttle button[] to show “SETTING OK”, which means setting is finished.
	ANT-LNA1-GAIN LNA1 antenna channel gain selection	Lightly press the shuttle button [] to enter the sub-menu and rotate the button to select: ANT-LNA1-GAIN-L (LNA1 antenna channel low gain) ANT-LNA1-GAIN-H (LNA1 antenna channel high gain) Lightly press the shuttle button[] to show “SETTING OK”, which means setting is finished.
	ANT-LNA2-GAIN LNA2 antenna channel gain selection	Lightly press the shuttle button[] to enter the sub-menu and rotate the button to select: ANT-LNA2-GAIN-L (LNA2 antenna channel low gain) ANT-LNA2-GAIN-H (LNA2 antenna channel high gain) Lightly press the shuttle button [] to show “SETTING OK”, which means setting is finished.
	ATT-GAIN Antenna attenuation	Lightly press the shuttle button [] to enter the sub-menu and rotate the button to select: ANT-10DB: antenna attenuation 10DB ANT-20DB: antenna attenuation 20DB Lightly press the shuttle button[] to show “SETTING OK”, which means setting is finished.
	SQL-LEVEL	Lightly press the shuttle button [] to enter the sub-menu and rotate the button to select: SQL-LEVEL 00-01-02-03-04-05-06-07-08-09 (9 squelch levels) Lightly press the shuttle button []to show “SETTING OK”, which means setting is finished.
	WT-SCAN-MODE	Lightly press the shuttle button [] to enter the sub-menu and rotate the button to select: WT-SCAN-MODE-FREQ frequency scanning mode WT-SCAN-MODE-PRESET stored channel scanning mode Lightly press the shuttle button[] to show “SETTING OK”, which means setting is finished.
	ANT-DEFAULT Default antenna	Lightly press the shuttle button [] to show “SETTING OK”, which means setting is finished.

Note: If SQ function is started, long press [] for 2 seconds to cancel the function.[] shows 0 on the primary screen. Long press [] for 2 seconds again, [] shows the recovered SQ value of current SQ.

7.3.11: Demodulation modes of SW

This product supports the following three demodulation modes in the SW receiving mode: AM, LSB and USB.

In the mode of SW receiving, long press [] for 2 seconds, then “AM” flashes on the primary screen. Lightly press [] within 2 seconds, then “USB” flashes. “[-----]” means searching. About 2 seconds later, it is switched to “USB”.

In the mode of USB, long press[] for 2 seconds, then “USB” flashes, and lightly press[] again to switch to “LSB”.

In the mode of LSB, long press []for 2 seconds, then “LSB” flashes, and lightly press [] again to switch to “AM” ordinary receiving mode.

7.3.13: Demodulation modes of other bands

In the mode of receiving, long press [], then []flashes on the primary screen. Lightly press []to select the demodulation mode you need (For demodulation modes of SW, please see

Section 7.3.11). The demodulation modes of all bands are described in the following table:

FM Mode	MW Mode	SW Mode	LW Mode	WB Mode	CB Mode	AIR Mode	VHF Mode	UHF Mode
WFM(MONO)	AM	AM	AM	NFM	AM	AM	NFM	NFM
ST (STEREO)		USB						
		LSB						

7.3.14: Select the BW bandwidth of all bands

In the mode of receiving, lightly pres ]to select the BW bandwidth of every band.

Lightly press [], “BW” flashes on the primary screen. Lightly press [], then the numbers change in turn. Wait for 2 seconds, then the final choice will be the default one.

BW values can be founded in the following table:

FM Mode	MW Mode	SW Mode	LW Mode	WB Mode	CB Mode	AIR Mode	VHF Mode	UHF Mode
110KHZ	1.0KHZ	1.0KHZ	1.0KHZ	3.0KHZ	1.0KHZ	1.0KHZ	1.7KHZ	1.7KHZ
84KHZ	1.8KHZ	1.8KHZ	1.8KHZ		1.8KHZ	1.8KHZ	2.0KHZ	2.0KHZ
60KHZ	2.0KHZ	2.0KHZ	2.0KHZ		2.0KHZ	2.0KHZ	2.5KHZ	2.5KHZ
40KHZ	2.5KHZ	2.5KHZ	2.5KHZ		2.5KHZ	2.5KHZ	3.0KHZ	3.0KHZ
	3.0KHZ	3.0KHZ	3.0KHZ		3.0KHZ	3.0KHZ	3.75KHZ	3.75KHZ
	4.0KHZ	4.0KHZ	4.0KHZ		4.0KHZ	4.0KHZ	4.0KHZ	4.0KHZ
	6.0KHZ	6.0KHZ	6.0KHZ		6.0KHZ	6.0KHZ	4.25KHZ	4.25KHZ
							4.50KHZ	4.50KHZ

8: Bluetooth mode

- Bluetooth name: “HRD-C919”.
- When the radio is working, lightly press [] to switch to “bL” mode.
- The Bluetooth symbol [] flashes, which means waiting for connection.
- Turn on Bluetooth and connect to HRD-C919. After successful connection, [] is always displayed and [] flashes. Turn on the mobile music player and connect to Bluetooth to play.
- Lightly press [] to play the next music and [] to play the previous one.
- Lightly press [] to switch between pause and play or use your phone to control.
- Disconnect Bluetooth:** In the state of Bluetooth connection, long press [] to exit.

9: TF card play

- Insert the TF card, lightly push it in place at the direction of [] and lightly push it again to take it out.
- In and mode of turning on the radio, the music in the TF card will be played first after inserting the TF card. [] appears on the screen.
- In other working modes, lightly press [] to switch to TF card play mode; lightly press [] to switch between pause/play.
- Lightly press [] to play the next music, and lightly press [] to play the previous music.
Long press [] to play fast-forward, and long press [] to play fast-backward.
- In the mode of TF card play, rotate the internal and external shuttle button to select music. Lightly press [] to confirm your selection.
- You can also directly enter the valid music number using the number key and lightly press “EN” to play.
- Delete the music in the TF card: Find the music you want to delete using the above three modes, long press [DEL] for 2 seconds, then “del” appears on the primary screen, and lightly press [DEL] again to delete it.
- In the mode of TF card play, you can choose the play mode:
Lightly press [], current play mode, “”, “”, “” or “” appears on the primary screen.
Lightly press [], the four symbols appear in turn.

 (repeat all) ,  (repeat one) ,

 (repeat file) , : (random)

---TF card supports 256G maximally.

---TF card supports MP3, WMA, WAV, APE and FLAC.

---TF card supports 65,535 files maximally

Note:

When the radio is playing music in TF card mode, in case of sound vibration for reason of music source, please adjust the volume.

When the radio is receiving in Bluetooth mode, music play fails after inserting the TF card and “0000” appears. It is possibly caused by music source or maybe the TF card is broken. If the TF card is broken, please replace it with a new one.

10: EQ effect setting in the mode of Bluetooth and TF card of all bands

In the mode of working, lightly press [] to select an EQ effect.

Working mode EQ	FM	MW	SW	LW	WB	CB	AIR	VHF	UHF	BT Bluetooth	TF card
EQ-NORMAL	■	■	■	■	■	■	■	■	■	■	■
EQ-POP	■					■				■	■
EQ-ROCK	■					■				■	■
EQ-JAZZ	■					■				■	■
EQ-CLASSIC	■					■				■	■
EQ-COUNTRY	■					■				■	■
EQ-NEWS	■	■	■	■	■	■	■	■	■	■	■
EQ -VOICE	■	■	■	■	■	■	■	■	■	■	■
DAC-ANALOG	■	■	■	■	■	■	■	■	■		
EQ -CW		■	■	■		■		■	■		

[■] means the EQ effect to be selected in the working mode.

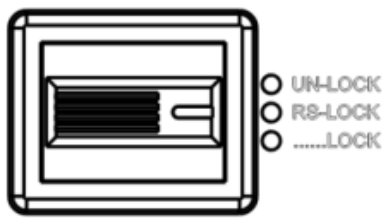
Note: NEWS filter: audio filter: 150-4000HZ

VOICE filter: audio filter: 250-2500HZ

CW filter: audio filter: 500-1100HZ

11: Use of the lock button “🔑”

The three positions on the right side of radio have the following functions:



[UN-LOCK] means being not locked/unlock.

[RS-LOCK] means only the big and small shuttle buttons are locked. “🔑” flashes on the primary screen.

[.....LOCK] means all buttons are locked (APP is not locked. Connect to [📶]). “ALL” of the symbol “🔑^{ALL}” appears in the primary screen. Now all buttons are locked.

12: Set the running time

In the mode of time display, long press [TIME/SET] for 2 seconds to set the running time/date as follows:

Step1:On the time display state.	WED 2024 01 03 12:37
Step2:Long press the [TIME/SET]button	
Step3:Hour digit [12]is flashing	
Step4:Turn the big/small shuttle knob[🌀]to adjust to hour	
Step5:Short press [TIME/SET] button	
Step6:Minute[37] digit flashing	
Step7:Turn the big/small shuttle knob [🌀]to adjust to Minute	
Step8:Short press [TIME/SET] button	
Step9:Year digit [2024]flashing	
Step10:Turn the big/small shuttle knob [🌀] to adjust to Year	
Step11:Short press [TIME/SET] button	
Step12:Month digit[01] flashing	
Step13:Turn the big/small shuttle knob[🌀] to adjust to Month	
Step14:Short press [TIME/SET] button	
Step15:Date digit[03] flashing	
Step16:Turn the big/small shuttle knob[🌀] to adjust to Date	
Step17:Short press [TIME/SET] button for confirm	

Note: The day of week including MON, TUE, WED, THU, FRI, SAT and SUN will be updated automatically as the date is updated.

13: Set the alarm clock

After setting the running time as shown in Section 12, in the state of time display, long press “ALARM” for 2 seconds to set the alarm clock time/scheduled power on
(Two sets of alarm clocks can be set as needed) as follows:

Step1:On the time display state	WED 2024 01 03 12:37
Step2:Long press [ALARM] button	
Step3:When the digit 1 or 2 is flashing Turn the big/small shuttle knob[] to adjust set any set of alarms	ALARM 2 ON ALARM 1 ON
Step4:Short press [ALARM] button	
Step5:When ON/OFF is flashing Turn the big/small shuttle knob[] to elect turn on the alarm or turn off the alarm [ON] is turn on the Alarm.[OFF] is turn off the Alarm.	ALARM 2 OFF ALARM 1 OFF ALARM 2 ON ALARM 1 ON
Step6:After elect [ON] to turn on the Alarm,short press[Alarm]button	
Step7:Alarm hour digit[12] is flashing	
Step8:Turn the big/small shuttle knob[] to adjust alarm hour.	
Step9:Short press[Alarm]button	
Step10:Alarm Minute[37] is flashing	
Step11:Turn the big/small shuttle knob[] to adjust alarm minute.	
Step12:Short press[Alarm]button elect [Alarm time]or [timed power on time] Turn the big/small shuttle knob[] to elect either one []symbol is Alarm time. []symbol is timed power on time	BU2 rAd
Step13:After elect the [] Short press[Alarm]button,Turn the big/small shuttle knob[] to elect Four ringtones [   ] Short press[Alarm]button for confirm After elect the [] Short press [Alarm]button,Turn the big/small shuttle knob[] to elect Timed shutdown time after timed power on.can be elected:10-20-30-40-50-60-70-80-90-FULL (Unit:minute) If elect FULL(mean the radio will not automatically shut down after automatic power on)	
Step14:After setting alarm function.the Alarm symbol[] is display on the Second screen.	

Turn off the alarm clock: select 1 OFF/2 OFF as shown in the above figure.

After selecting OFF, the alarm clock symbol of the secondary screen will disappear.

Note: If scheduled power on [] is selected and scheduled power off time of 10-20-30-40-50-60-70-80-90 minutes are selected, the radio will be turned off on schedule, and the sleep symbol “” will appear on the secondary screen. After the radio is turned off, “” will disappear.

※ After setting the scheduled power on and the alarm clock time, in the state of power on or time display, lightly press [DISPLAY] to check the time of “ ” and “ ”.

14: In the mode of time, you can set the following content in the menu

In the state of time display, long press “  ” to set functions. Enter the main menu which has the following options.

Rotate the shuttle button “” clockwise or anti-clockwise to select in the main menu.

After selecting the main menu task to be set, lightly press the shuttle button “” to select in the sub-menu.

Rotate the shuttle button “” clockwise or anti-clockwise to select the sub-menu task and lightly press this button to confirm.

The main menu	Sub-menu options
A-LCD SETTING (Set the backlight color/light on time of the primary screen)	Lightly press the shuttle button[] to enter the sub-menu to set the light off time of the primary screen. The time unit is “s”. 1: TIME SET 05-S/06-S/07-S/08-S.....30-S/FULL Rotate the shuttle button[] to select the time. “FULL” means the backlight of the primary screen is always on. Lightly press the shuttle button “  ” to set the backlight color of the primary screen: 2: COLOUR SET 1.....7 Seven colors for you to choose: 1): Fresh grass green, 2): Elegant brown, 3): Soft blue, 4): Light green, 5): Pure light blue, 6): Luxury purple, 7): Joyful yellow Rotate the shuttle button “  ” to select the backlight color of the primary screen. In case of no operation within 10 seconds, the final choice will be confirmed automatically. Time display will be recovered.

B-LCD SETTING (Set the light on time of the secondary screen)	Lightly press the shuttle button “ C-KEY SETTING (Set the light on time in working state)	Lightly press the shuttle button “ APP ENABLE (Connect/disconnect APP)	Lightly press the shuttle button “ TIMER OFF (Display/off of the primary screen)	Lightly press the shuttle button “ SYSTEM RESET	Lightly press the shuttle button “ 
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VERSION-***	Version
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15: TYPE-C USB charging

This product has overvoltage protection function in charging. Charging voltage: $\leq 6.2V$.

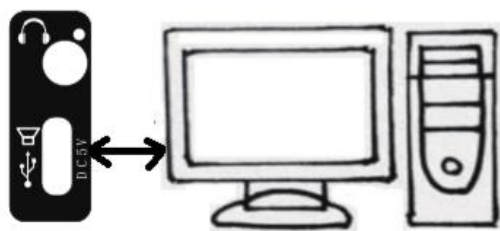
Please use the charging device with output voltage of DC5V/1A-DC3A to charge the batteries.

If the lithium battery is not in use for a long time, please charge it once a month or remove it.

Insert the USB cable, then “ ” appears and the charging indication symbol “” flashes on LCD, which means it's charging. When the batteries are charged fully, “ ” appears and stops flashing. The charging time is generally 4-5 hours.

16: Used as a card reader

When the TF card is inserted into the radio, connect the radio to the computer using a USB cable for file transmission and deletion of files in the TF card.



17: AUX input play

When the radio is turned on, insert the 3.55MM sound source device (such as mobile phone and computer) into the right jack “**AUX.**” of the radio using a 3.5MM audio cable. “AUX” appears on the primary screen, and the “**AUX.**” audio files will be played first.

(Note: We don't provide the audio cable)

18: Temperature display

In the state of time display or power on, lightly press [], then [] appears on the left upper corner of the primary screen. Press [] to exit temperature display.

19: Sound recording

When the radio is working, insert the TF card, long press “⁰REC” to record sound, then “RECORDING” flashes on LCD and the time of sound recording is displayed on the secondary screen.

After sound recording is finished, long press “⁰REC” to exit sound recording.

Take the sound file: Press “MODE” to enter the mode of TF card play and select from TF music list.

Note: If no valid TF card or no TF card is inserted, “em” appears on the secondary screen.

Delete the function of sound recording.

20: Antenna

When listening to FM,VHF, UHF, SW, AIR, CB and WB, pull out the antenna, change the length of antenna, try the direction and find a position with the best receiving effect. *In case of channel chaos due to strong interference, please shorten the antenna.

Listen to AM and LW: This product uses the built-in magnetic antenna to receive AM. The magnetic antenna may be affected by direction to receive signals, so you can properly rotate the radio when listening to AM/LW to find a position with the best receiving effect.

In the mode of receiving, lightly press “DISPLAY” to display “SNR” and “RSSI”.

21: Key technical parameters

Band	Frequency range	Demodulation mode	Receiving sensitivity	Description
FM	64-108MHZ	WFM/ST	2uV	FM BAND
SW	2.30-30.00MHZ	AM/USB/LSB	20uV	SW BAND/USB/LSB
MW	520-1710KHZ	AM	1mV/m	MW BAND
LW	153-522KHZ	AM	1mV/m	LW BAND
AIR	118-138MHZ	AM	1uV	AIR BAND
CB	25-28MHZ	AM	10dBuV	CITY BAND
VHF	20-250MHZ	NFM	-9dBuV	VHF
UHF	250-999MHZ	NFM	-9dBuV	UHF
WB	162.4-162.55MHZ	NFM	-9dBuV	WB
Speaker: 3inch 3Ω 20W				
Number of channels stored: 1,600				
Bluetooth version: V5.0				
Bluetooth receiving distance: ≤20m				
Min operating voltage:				



External input voltage: DC5V
Lithium batteries: 3.7v 5000mAh (2500mAhx2)
TF card supports MP3, WMA, WAV, APE and FLAC
TF card supports MP3, WMA, WAV, APE and FLAC maximally
Product dimension: 170x190x85mm
Net weight: 1,090g (including two batteries)

Communication signals of SSB:

Some common communication frequencies of SSB (KHZ)

The frequencies not noted are the frequency of USB

Guangzhou Coast Radio Station: 8716 8782 13107 13149 13182 17398 19772
19793 22735

Tianjin Coast Radio Station: 13092

Shanghai Coast Radio Station: 8773

Yantai Coast Radio Station: 4381 8764 13077 17332

Zhanjiang Coast Radio Station: 2182 6200 6501

Zhoushan Haixiang Shipping Service Company: 12408

Xiamen Coast Radio Station: 4314 8453 12876

American Hawaii Guam Radio Station: 10320 13362 (day) 5765 6350 (night)

Manila Airport: 8942

Iceland Coast Radio Station: 13855

Kuzu Airlines Cargo Weather Station: 8828

Nanhai District Fish-farming Port Administration Bureau Ministry of Agriculture of the PRC:
12215

Zhanjiang Marine and Fishery Bureau: 4925

Beihai Aquatic Products Bureau: 6230

Sanya Marine and Fishery Bureau: 8210

Lianjiang Marine and Fishery Bureau: 4378

Fangchenggang Aquatic Products and Animal Husbandry Bureau: 6300

Danzhou Marine and Fishery Bureau: 13250

Lingao Marine and Fishery Bureau: 7735

International maritime communication bands: 8195-8815 12330-13200

Common frequencies of amateur radio station:

Japanese weather: 9970 13597



Japanese newspaper: 12745

Taiwan weather: 13900

Bands at which strong signals appear frequently of coast stations using Southeast Asian languages and English: 16590-16860

80m 3500-3900

40m 7000-7100 (LSB)

20m 14000-14350

15m 21000-21450

10m 28000-29700

Philippines: 6765

Amateur radio station: 14180

Ham station: 14270

LSB Japanese amateur station: 3569

Telegram station: 12967

Airline: 13281 13284

The frequencies above are used for reference only.

Free channels of civil two-way speaker:

Free channels in China:

1: 409.7500	2: 409.7625
3: 409.7750	4: 409.7875
5: 409.8000	6: 409.8125
7: 409.8250	8: 409.8375
9: 409.8500	10: 409.8625
11: 409.8750	12: 409.8875
13: 409.9000	14: 409.9125
15: 409.9250	16: 409.9375
17: 409.9500	18: 409.9625
19: 409.9750	20: 409.9875

Standard frequencies of European public two-way radio (unit: MHZ)

1: 446.00625	2: 446.01875
3: 446.03125	4: 446.04375
5: 446.05625	6: 446.06875
7: 446.08125	8: 446.9375

Free frequencies of household radio station in America

1: 462.5625	2: 462.5875
3: 462.6125	4: 462.6375
5: 462.6625	6: 462.6875
7: 462.7125	8: 467.5625
9: 467.5875	10: 467.6125
11: 467.6375	12: 467.6625
13: 467.6875	14: 467.7125

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.