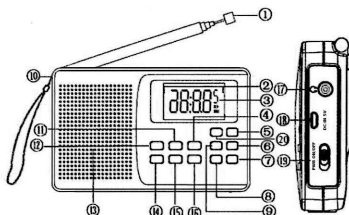


Full-band Digital Demodulation Stereo Radio

Instructions for Use

Thank you for buying CS-106 full-band digital demodulation stereo radio. Please carefully read this manual before use and keep it properly for future reference.

1: Button functions and components



- ① 360° rotary seven-section rod antenna
- ② LCD backlight
- ③ LCD digital display
- ④ MEMORY: manual channel storage
- ⑤ NO/OFF: power on/off
- ⑥ TUNING ^: tuning+/channel taking+/time+
- ⑦ TUNING v: tuning-/channel taking-/time-
- ⑧ VOLUME v: volume -
- ⑨ VOLUME ^: volume+
- ⑩ Strap hole
- ⑪ M+/LOCK: take channels & enter the mode of channel taking/lock & unlock
- ⑫ FAVORITE: time state, light press: power on/power on state: press and hold to store a channel
- ⑬ Speaker
- ⑭ SW/ TIME: SW receiving mode/start time setting
- ⑮ MW/HOUR: MW receiving mode/"hour" adjustment/switch between 9KHZ&10
- ⑯ FM/MINUTE: FM receiving mode/"minute" adjustment
- ⑰ 3.5MM headset jack
- ⑱ DC-IN 5V: external power DC5V
- ⑲ PWR ON/OFF: main power on/off
- ⑳ MUTE: mute on/off

2: Description of LCD display screen:



A	Frequency or clock display area
B	SW/FM frequency unit
C	MW frequency unit
D	Accurate minimum frequency bit frequency digit
E	Address of storing/taking channels
F	Store/take channels
G	Volume
H	FM Stereo
I	Lock
J	Mute
K	FM/AM/SW

3: Operation of buttons

- 3.1: Install the batteries: Open the battery cover, install two AA batteries (2x1.5V AA) according to positive and negative anodes correctly, and close the battery cover. Now the radio displays the time.
*When the radio is not in use in a short time, switch "PWR ON/OFF" to "OFF", turn off the screen to enter the power saving mode, the time preset can run normally.
- 3.2: ON/OFF: Press and hold "ON/OFF" to turn on the radio and receive programs; When the radio is turned on, press and hold "ON/OFF" to turn off the radio.
- 3.3: MUTE on/off: When the radio is turned on, lightly press "MUTE" to enter the mute state, "ZZZ" appears on LCD. Lightly press "MUTE" again to unmute, "ZZZ" disappears on LCD.
- 3.4: How to listen to the radio:
 - 3.4.1: To listen to FM and SW, please pull out the rod antenna, rotate the rod antenna and adjust the reception position to achieve the best effect. The product receives FM, AM and SW. Lightly press corresponding button to choose a band.
 - 3.4.2: FM. For convenience of use, two bands are set. Every time when you lightly press "FM", 1 or 2 appears on the top right of LCD. The figures are displayed alternately. The figure stands for the band received by the radio. The receiving frequency range is as follows:
FM1:64-87MHZ, FM2:87-108MHZ
 - 3.4.3: MW receiving range is as follows:
MW (9KHZ) 522-1710KHZ
MW (10KHZ) 520-1710KHZ (users can adjust the two medium wave step values by themselves according to the method in Article 8)
When the radio is turned on, lightly press "MW" to display the frequency before turning off.
 - 3.4.4: SW receiving range: 3.2-21.85MHZ, 7 meter waves are set. Lightly press SW, 1, 2, 3, 4, 5, 6, or 7 appears on the top right of LCD. The figures stand for meter wave 4.75MHZ, 5.95MHZ, 9.5MHZ, 11.65MHZ, 15.10MHZ, 17.50MHZ and 21.45MHZ which can be switched on a continuous loop.
- 3.5: Three methods of tuning: manual tuning; semi-automatic channel search; full-automatic channel search and storage;
 - 3.5.1: manual tuning: lightly press TUNING ^ or TUNING v to increase or decrease according to the minimum step value.
 - 3.5.2: semi-automatic channel search: Long press TUNING ^ or TUNING v for two seconds and the radio will start semi-automatic channel search. LCD shows that frequency quickly increases or decreases. When a channel is searched, search will stop automatically and the channel searched will be played.
 - 3.5.3: full-automatic channel search and storage: Long press MEMORY for two seconds and the radio will start full-automatic channel search. It will search from the bottom frequency point to the top frequency point in current band. The channels with signal will be automatically stored in radio memory. The three channel search methods can be used in combination to search a channel more quickly.

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*When the radio is not in use in a short time, switch "PWR ON/OFF" to "OFF", turn off the screen to enter the power saving mode, the time preset can run normally.
- 3.2: ON/OFF: Press and hold "ON/OFF" to turn on the radio and receive programs; When the radio is turned on, press and hold "ON/OFF" to turn off the radio.
- 3.3: MUTE on/off: When the radio is turned on, lightly press "MUTE" to enter the mute state, "ZZZ" appears on LCD. Lightly press "MUTE" again to unmute, "ZZZ" disappears on LCD.
- 3.4: How to listen to the radio:
 - 3.4.1: To listen to FM and SW, please pull out the rod antenna, rotate the rod antenna and adjust the reception position to achieve the best effect. The product receives FM, AM and SW. Lightly press corresponding button to choose a band.
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 - 3.4.3: MW receiving range is as follows:
MW (9KHZ) 522-1710KHZ
MW (10KHZ) 520-1710KHZ (users can adjust the two medium wave step values by themselves according to the method in Article 8)
When the radio is turned on, lightly press "MW" to display the frequency before turning off.
 - 3.4.4: SW receiving range: 3.2-21.85MHZ, 7 meter waves are set. Lightly press SW, 1, 2, 3, 4, 5, 6, or 7 appears on the top right of LCD. The figures stand for meter wave 4.75MHZ, 5.95MHZ, 9.5MHZ, 11.65MHZ, 15.10MHZ, 17.50MHZ and 21.45MHZ which can be switched on a continuous loop.
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 - 3.5.3: full-automatic channel search and storage: Long press MEMORY for two seconds and the radio will start full-automatic channel search. It will search from the bottom frequency point to the top frequency point in current band. The channels with signal will be automatically stored in radio memory. The three channel search methods can be used in combination to search a channel more quickly.

3.6: Steps of MEMORY manual channel storage

According to three methods of tuning in Article 3.5, adjust to the target frequency, lightly press "MEMORY", "M" appears on the top right of LCD and the address of channel storage flashes, lightly press "MEMORY" to store a channel. To change the address of channel storage, lightly press "TUNING ^" or "TUNING v" to choose an address of channel storage (1-29), lightly press "MEMO" again to store the channel frequency. The original channel in the address of channel storage will be covered by the new channel.

SW, MW and FM can store 29 channels respectively, totally 87 channels.

3.7: Method of taking channels

After a channel is stored according to Article 3.5.3 full-automatic channel search and storage and Article 3.6 method of manual channel storage, lightly press "M+" to take a channel. Lightly press "M+", and take your favorite channel upwards in order from the addresses of taking channels. You can also lightly press "M+" to enter the mode of channel taking and lightly press "TUNING ^" or "TUNING v" to quickly take a channel. When taking a channel, "M" and the address of taking channels appear on top right of LCD screen. Three seconds after stopping taking channels, "M" and the address of taking channels disappear.

3.8: FAVORITE: channel storage and taking

The function of channel storage and taking is specially set for users to store a most frequently received frequency.

In FAVORITE receiving mode, lightly press or press and hold "TUNING ^" or "TUNING v" to search a most frequently used frequency. Press and hold "FAVORITE", frequency flashes once, it indicates that a new channel is stored successfully, the newly stored frequency is displayed, and the program of this channel is played.

In any play mode, you can receive the FAVORITE stored channels immediately just by lightly pressing "FAVORITE".

Note: in time state, lightly press "FAVORITE" to turn on the radio and listen to the programs of this channel.

3.9: Volume adjustment

When the radio is turned on, lightly press or press and hold "VOLUME v" or "VOLUME^" to adjust the volume.

3.10: How to lock

When the clock is displayed or the radio is turned on, press and hold "LOCK" for 2 seconds, "🔒" appears on the screen. Except for "ON/OFF" and "MUTE", all the other buttons are locked. To unlock, when the radio is turned off and the clock is displayed or the radio is turned on, press and hold "LOCK" for 2 seconds, "🔒" disappears on the screen. Now, it is unlocked, all buttons can be used normally.

4: Powered by external power DC5V

The radio is powered by external DC-IN 5V power.

Connect: insert the external power into DC-IN 5v and connect to USB jack of the radio, now the radio is available for use.

Disconnect: turn off the radio, pull out the external power from DC jack of radio to disconnect the radio.

* Prompt: ● Output voltage DC5V/1A unit is recommended for external power supply, or the radio cannot work normally or will be damaged.

Note: if batteries have already been installed in the radio, before switching to external power, please turn off the radio first (when the clock is displayed) and then switch to external power.

5: Steps of time adjustment

After installing batteries, the radio displays the time state. Press and hold "TIME", "hour" and "minute" flash, lightly press or press and hold "MW" or lightly press or press and hold "TUNING ^" or "TUNING v" to adjust the "hour". After adjusting the "hour", lightly press or press and hold "FM" or lightly press or press and hold "TUNING ^" or "TUNING v" to adjust the "minute" (24-hour system).

6: Use of antenna

* The radio uses 360° rotary rod antenna to receive FM and SW. To listen to the radio, please pull out the rod antenna and change the length and direction of antenna to find a position for the best receiving effect.

* In case of crosschannel due to strong intervention, shorten the rod antenna.

Listen to MW:

The product uses built-in magnetic antenna to receive MW and the magnetic antenna is a certain directional when receiving signal, so you can rotate the radio properly to find a position for the best receiving effect when receiving MW.

7. Backlight (night light)

For night use, the radio is specially equipped with backlight. When operating any buttons, turn on the backlight (night light). In case of no operation within 5 seconds, the backlight (night light) will be automatically turned off to enter the power saving mode.

8: Adjustment of medium wave stepping value

After batteries are installed, switch "PWR ON/OFF" to "ON", the radio displays the time. Press and hold "MW" for about 3 seconds, LCD displays current medium wave step value of "9" or "10". Press "TUNING ^" or "TUNING v" to adjusted the AM step value 9KHZ or 10KHZ. Exit step value setting after stopping operation for about two seconds, now the adjustment of medium wave step value is finished.

Note: The medium wave stepping value in the United States, Canada, Mexico, other North American countries and South American countries must be adjusted to be 10KHZ and that must be adjusted to be 9KHZ in other countries.

Frequency range when medium wave step value is 9KHZ: 522-1710KHZ,
Frequency range when medium wave step value is 10KHZ: 520-1710KHZ.

9. Main technical parameters

Receiving Range	FM1:64-87MHZ FM2:87-108MHZ AM(MW):520-1710KHZ SW:3.2-21.85MHZ
Receiving sensitivity	MW : 10 mV/M FM : 18 dB SW : 60μV
Signal selectivity	10dB
Horn	φ57MM,8Ω,0.5W
Headset	Φ3.5mm/32Ω×2
Battery	2x1.5v AA
External power supply voltage	DC 3V-5V
Minimum operating voltage	2.0V
Stereo crosstalk	≥32dB
Number of channels stored.	88 (FAVORITE: 1 channel; 29 channels for SW, MW and FM respectively)
Distortion rate	≤1%
Working temperature	Working Temperature
Output power	≤20mW
Size	125×77.25×21(mm)

10. Matters needing attention

- * When the radio is not used, please be sure to take out the battery to prevent battery leakage.
- * Low sound, distortion and beeping sound indicating that the battery is out of power, please replace a new battery.
- * Please do not give heavy pressure, strong collision; avoid violent impact, falling and water.
- * Do not place the machine in direct sunlight, high temperature and humidity, and do not use or store the machine in an environment where the temperature is below -5°C and above +50°C.
- * Do not use chemical reagents to wipe the case to prevent corrosion on the surface of the case.
- * Do not disassemble the shell or adjust internal component parameters by yourself.