

ZHIWHIS

ZHIWHIS

Multimedia Music Player
Full-band Radio, Bluetooth,
AUX, TF card play
Portable Recorder

USER MANUAL

(Model: ZWS-603)



Thank you for purchasing the ZHIWHIS ZWS-603 Multimedia Radio. Please read this manual before use and keep it properly for future reference.

We want you to thoroughly enjoy the use of this product. To take advantage of its many excellent features, we urge you to carefully read the owner's manual.

If you need help while learning its operation, please contact us, using the methods below.

Monday - Saturday, 10:30 a.m. - 7:00 p.m.,

North American Pacific Time.

E-mail: zhiwhis@gmail.com

Web Site: www.zhiwhis.com

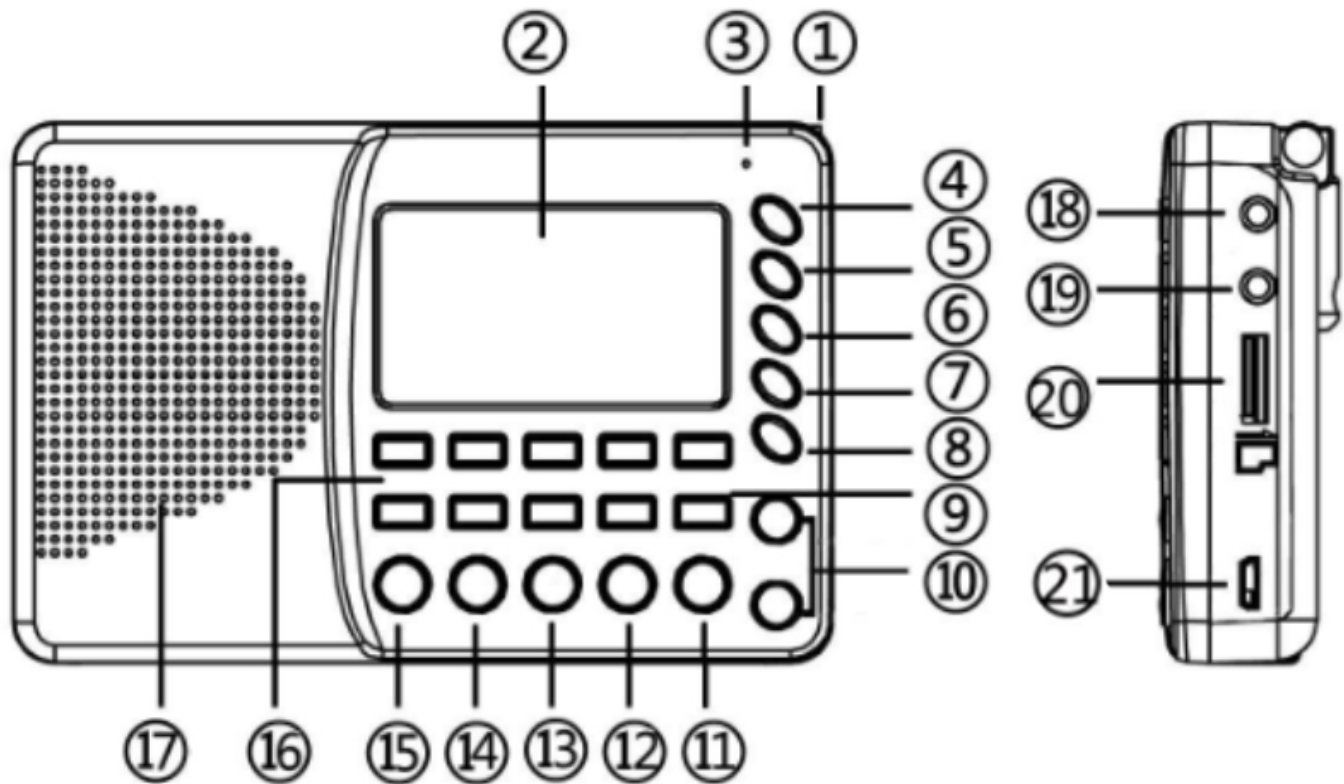
The latest version of the machine is V2.4. The new version V2.4 has been updated:

1. Added Spanish language option.
2. Fixed some problems.
3. The system menu can set the FM band range: you can choose 64-108MHZ or 87-108MHZ by yourself.

Precautions

- Before using this pocket-sized radio recorder, be sure to follow the basis safety tips to guarantee safe and liable use of the product.
- Read and understand all safety guidelines and use information.
- Recommended to use the original lithium battery.
- Please Use the charging device with the output voltage 5V, 500mA-1000A to avoid damaging the lithium battery and device.
- If the lithium battery will not be used for an extended period of time, please remove it, store it separately, and remember to charge it once a month.
- Do not allow the radio to come into direct contact with rain, moisture, or any liquid drops. Avoid direct heat sources. Do not bake or blow dry the product.
- Do not expose the device to direct sunshine for an extended period of time. Do not drop the product or applying heavy pressure.

一、Product Appearance Description



①: FM/SW antenna

②: Backlight Display

③: MIC

④: Power switch

⑤: MODE key: Playback mode key:

(TF card playback/ Bluetooth/ Audio input (AUX in)/ Lock key (Long press))

⑥: FM/AM band key

⑦: Shortwave band key

⑧: MEMU: REPEAT/ System setup (Long press)

⑨: 0: invoke recording file (Long press)

⑩: VOLUME: Select Saved Station/ **Volume key (Long press)**

⑪: **▶▶**: Next/Tune down/ Down automatic radio station search (Long press)

⑫: **▶|**:

Radio Mode: Mute/ ATS (Long press)

MP3 Mode: Playback/ Pause/ Playback setting (Long press)

System setup: Enter/Confirm

⑬: ◀◀ : Previous/ Tune up/ Up automatic radio station search (Long press)

⑭: DEL: Delete key (Long press)

⑮: REC: Recording key (Long press)

⑯: 1~9~0:

Digital keyboard ("5": Long press to Presetting station; "0": Long press to invoke recording file)

⑰: 3W 40mm Speaker

⑱: Headphone Jack (3.5mm Stereo)

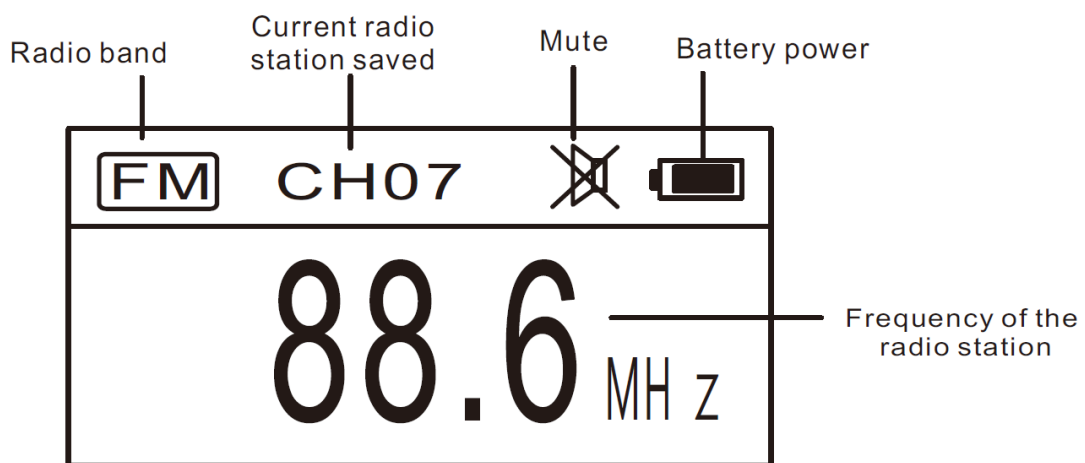
⑲: 3.5mm Audio input interface

⑳: Micro SD /TF Card Jack

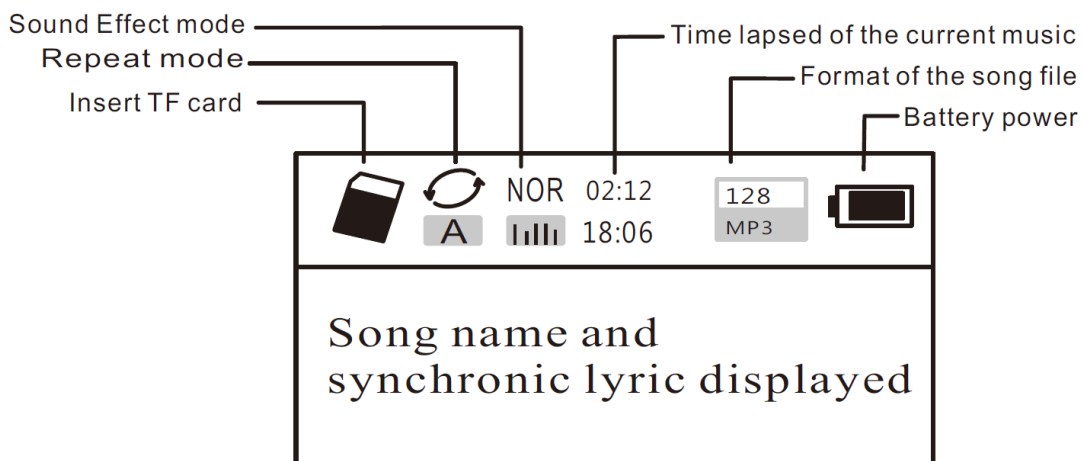
㉑: USB Charging Port

二、Screen Display

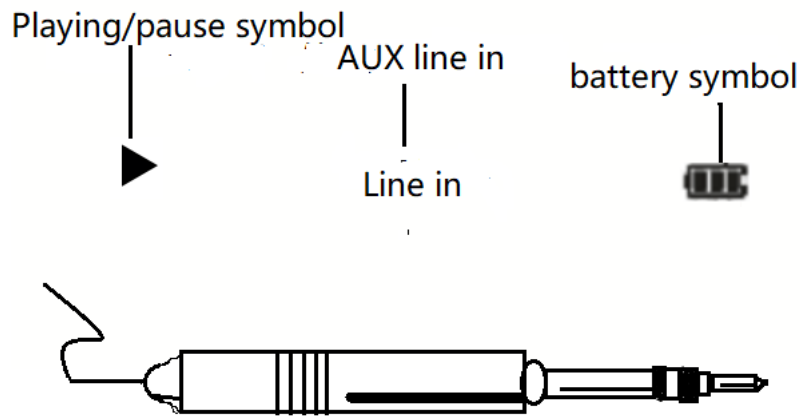
LCD screen display in radio mode:



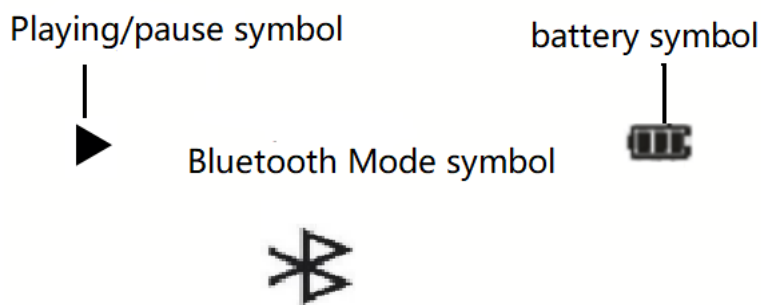
LCD screen display in TF music playback mode:



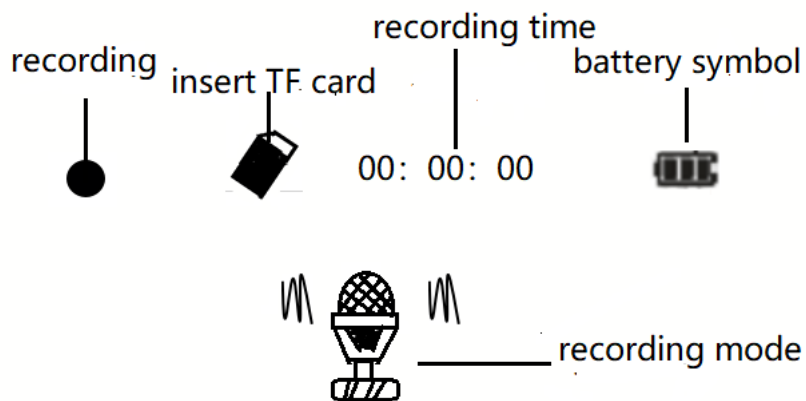
LCD screen display in external audio source playback mode:



LCD screen display in Bluetooth playback mode:



LCD screen display in recording mode:



三、 Machine Operation

Introduction

AM/FM/SW Pocket-sized Full Band Radio Recorder is an integrated digital electric tuning radio that can play MP3 and WMA files, Multilingual menu operation, that display lyric synchronously, supports MIC Recording, Radio Recording, LINE IN Recording, Bluetooth recording, and stereo earphone output, with a rechargeable lithium battery (battery can be replaceable with a larger capacity BL-5C battery to achieve longer playtime).

Definition of key operations

There are 3 operation ways of pressing the keys: short press, long press and hold on. Unless expressly stated all the operations are short press.

Short press: press the key once, and the function starts to work.

Long press: press and hold for more than 1.2 seconds and the function starts to work, and works only one time.

Hold on: press the key and hold on till stop, the function works several times in a certain frequency, such as fast forward/backward.

Battery Power Supply

Install/Replace the battery:

1. Open the battery cover.
2. Insert the lithium battery according to the polarity indicated.
3. Close the battery cover.
4. Prior to using for the first time charge the lithium battery for 6 hours. After the first charge, charge time should be about 4 hours.
5. Recommend: use the 5V, 500mA charger provided.
6. In normal cases, before charging the battery, please make sure the product is in the radio OFF mode.

During charging the LCD displays the "Charging Screen". The flashing battery power icon indicates that the charging is in progress. When the battery is fully charged, the battery power icon will not flash and will show full battery power.

At this moment, it is Suggested to continue to charge for 1-2 hours to guarantee the lithium battery reaches the maximum charging capacity.

Battery Consumption indicator:

1. Full 3. Low 2. Medium 4. Exhausted



1.Full



3.Low



2.Medium



4.Exhausted

Charging the Lithium Battery:

1. External Adapter (not included). Please use a matched adapter (5V DC/500mA, USB port) to charge the radio.
2. Install the lithium battery.
3. To charge the battery, connect the Micro-USB cable to the radio, the other end to a USB adapter.
4. While charging, the battery symbol shown on the display moves from right to left, and stops when the battery is full charged. Then disconnect the radio and the adapter.

Note: When charging, alternating current can interfere with receive radio signals, so it is not recommended to use the radio when charging.

Do not use AC adapter or computer to power the radio to play music or listen to the radio when the battery is unloaded.

Please unload the battery or fully charge it once in 2 months if the radio is not used for a long time.

Charged by PC:

1. Connect the radio to the computer with the provided USB cable.
2. While charging, the battery symbol shown on the display moves from right to left.
3. The battery symbol stops moving when the battery is full charged.

Radio Operation

POWER on/off radio:

1. Long press the POWER button to turn on the device.
2. Extend the antenna.
3. Press the FM/AM or SW key to select the band.
4. Long press the POWER button again to turn off the device.

Select a radio station:

A. Manual search (tune up/down):

In radio mode, press the "▶▶" or "◀◀" key to select a radio station forward or backward.

FM: 64-108 MHz (0.1MHz step), AM: 520-1710KHz (10K step), SW: 4.75-21.85 MHz (5Khz step)

B. Automatic search:

In radio mode, long press the "▶▶I" or "◀◀I" key to search radio stations forward or backward. When a radio station is received, the search will stop and the radio station received will begin to play.

C. Directly input the frequency of a radio station:

For example, the frequency of the radio station is 88.5MHz. Press the number keys 8, 8 and 5, then press the "▶I" key to confirm the input. The radio will jump to 88.5MHz.

*AM: the numbers that are 522+Multiples of 9 are valid; for North America 520+ Multiples of 10 are valid.

D. Shortwave Operation:

Press the SW key to invoke metric waves in order:

60m (4.750MHz), 49m (5.950MHz), 41m (7.100MHz)

31m (9.500MHz), 25m (11.650MHz), 22m (13.600MHz)

19m (15.100MHz), 16m (17.500MHz), 13m (21.45MHz)

After selecting a metric wave, press the "▶▶I" or "◀◀I" key to select radio stations.

Memory Station

1. To save a radio station manually:

Invoke a radio station with the method described in the following A, B, C or D, and long press the MEMO "5" key, when the "CH00" flashing on the display, press the numeric keys to enter the location of the storage station, and press the "▶I" button, the screen prompts to save, then press the "▶I" button again to confirm can be stored in the specified location.

Note: There is a limit on the number of preset stations in each band.

(FM: 80 presets, MW: 60 presets, SW: 300 presets)



2. Automatically search and store Station:

In the radio mode, long press the "▶||" key to enter Automatic search and store Stations. The available stations have been automatically numbered and stored from low to high frequencies. When stations have finished storing, press the "VOLUME +" or "VOLUME -" key to invoke the radio stations stored and begin listen. If any interfering radio station is saved automatically, long press the DEL key to delete it.

AM Stepping set:

In the AM radio mode, long press MENU key to the system main menu, press "▶▶|" or "◀◀|" key, to select AM Stepping submenu choose step 9 KHz or 10 KHz (North America), Press the "▶||" key to confirm.

To delete a radio station:

Invoke a radio station and long press the DEL key, the display will display radio station deletion confirmation. Press the "▶||" key to confirm the deletion of the current radio station.


* If the above operation is not finished within 5 seconds, the system will return to the radio mode.



To mute the radio:

In the radio mode, press the "▶||" key and the "⊗" icon will flash on the screen, which indicates the radio is in the mute mode. Press the "▶||" key again to deactivate mute.

Bluetooth Reception Playback Mode (version5.0)

1. In the power on state, Press the MODE key to enter the Bluetooth playback mode. The “” Bluetooth symbol on the LCD screen flashes.
2. Turn on the mobile phone Bluetooth, search for Bluetooth devices, click the Bluetooth connection generation name "ZWS-603" in the "available devices". Then click the phone to enter the pairing connection and music can be played after connection.
3. You can operate the mobile phone or the device to carry out corresponding controls, such as volume, up and down music, etc.

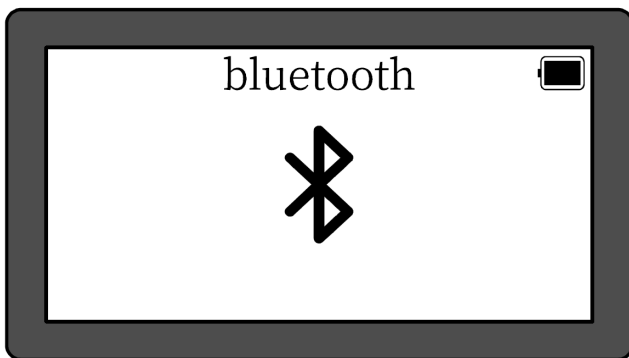
Note:

After the device is successfully connected, if it is shut down, the device can be connected automatically without pairing when it is restarted.

After connection, the Bluetooth music symbol “” does not flash any longer. If no connection, it will continue to flash.

The effective distance of Bluetooth reception is $\leq 10\text{m}$. It can be easily connected with Bluetooth devices of notebook computers, mobile phones, PDA and other digital products to realize wireless transmission of music.

- Bluetooth Specifications: version5.0 class3 A2DP + AVRCP



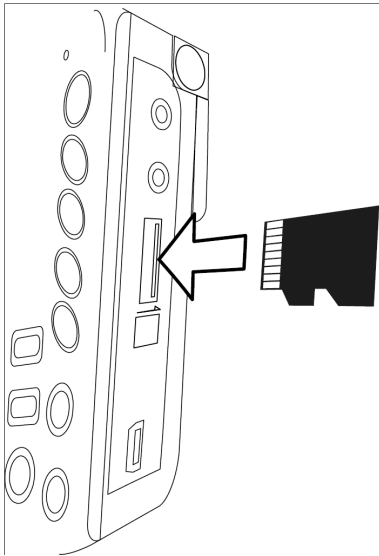
(Bluetooth playback mode screen)

TF Card Playback Mode

1. Correctly insert the music TF card in MP3 or WMA format. (Supports the TF card with a capacity of up to 32G.)
2. Press the Power key to turn on the device.
3. Press the MODE key to enter the play mode. The screen will display the music name, format, time lapsed, etc.

4. Press the "▶▶" or "◀◀" key to select the next or previous song or press the numeric keys to select a song, and then Press the "▶|" key to confirm the selection. The radio will directly jump to the song number to play the corresponding song.

5. Press the Repeat key to repeat a song ("1" indicates repeating a song), repeat all songs in order ("A" indicates repeating all songs), "F" indicates repeating the songs in the selected folder only, "R" indicates Random all songs.



(The instruction of putting TF Card correctly)

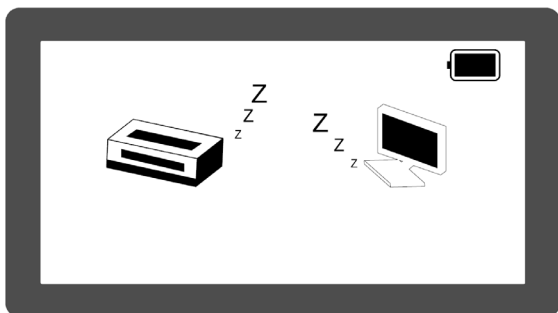
Play Setup:

*This has been set in the factory. It is not recommended to set it again.

1. In the play mode, long press the "▶|" key to enter the main screen of Play.
 - A. Main Directory (Select this item to select the songs in the folders under the directory)
 - B. Play Mode: Repeat All, Repeat One, Repeat Folder (select this option to play the songs in the selected folder only), Random
 - C. EQ(Sound effect): Natural, Popular, Rock, Jazz, Classic, Country, LowBass.
 - D. Return to the main screen
2. Press the "▶▶" or "◀◀" key to select the sub-menu and press the "▶|" key to enter the sub-menu. Press the "▶▶" or "◀◀" key to select the corresponding sub-item and press the "▶|" key to confirm the selection. The setup will be successful and the system will exit the setup mode.

Computer Data Transmission:

Turn on the device, and connect to the computer with the included Micro USB cable. Press any key of the device and the computer will install the driver software automatically.



(Screen during USB connection)

The screen of the device will display the computer connected icon to indicate the connection is successful.

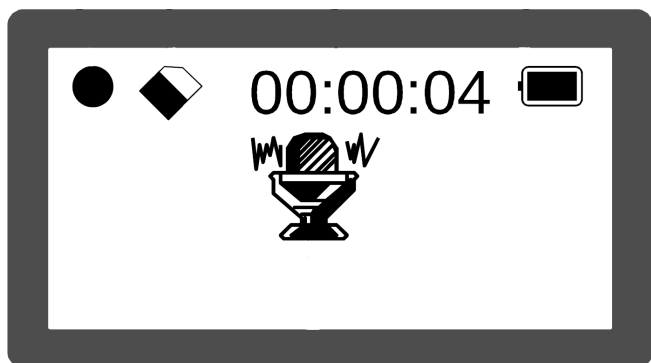
Here the computer can read, copy, and delete the files in the TF card in the device (can be used as a card reader) and can also be used as an external USB speaker of the computer. (Certain computers of different configuration may not be compatible)

Recording Operation

MIC Recording:

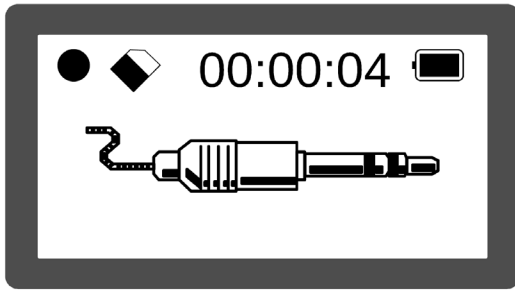
Insert the TF card and turn on the device. Press the MODE key to enter the TF card playback mode.

Long press the REC key to enter the MIC recording mode. During recording, press “▶||” key to pause or restore, and press the REC key to finish and exit the recording mode.



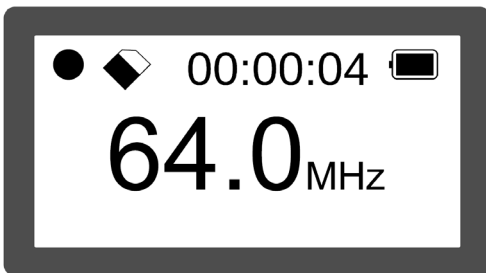
LINE IN Recording:

Press the MODE key to enter the AUX mode. Connect the external audio cable, make sure an external song is being played. Adjust the volume of the external audio and long press the REC key to enter "LINE IN Recording". During recording, press “▶||” key to pause or restore, and press the REC key to finish and exit the recording mode.



Radio Recording:

Press the "FM/AM" or "SW" key to enter the radio mode and adjust the radio station. Long press the REC key to enter the radio recording mode. During recording, press "▶||" key to pause or restore, and press the REC key to finish and exit the recording mode.



Bluetooth Recording:

Press the MODE key to enter the Bluetooth playback mode. Long press the REC key to enter the Bluetooth recording mode. During recording, press "▶||" key to pause or restore, and press the REC key to finish and exit the recording mode.



*In the recording mode the volume is locked at the level set before recording. If you press the Volume key the volume will not be changed.

Recording File Invoking Operation:

Long press the "REC FILE/0" key to invoke recording file. Press the "▶▶" or "◀◀" key to select the recording file to be played.

The file name "MIC" indicates a MIC Recording file; "LINE" indicates a LINE In Recording file; "RAD"

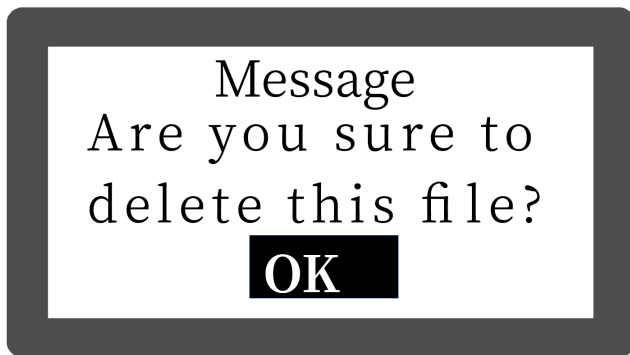
indicates a Radio Recording file.

Press the MODE key to enter the TF card playback mode. Press the "▶▶" or "◀◀" key to select the Bluetooth recording file to be played.

The file name "BREC" indicates a Bluetooth Recording file.

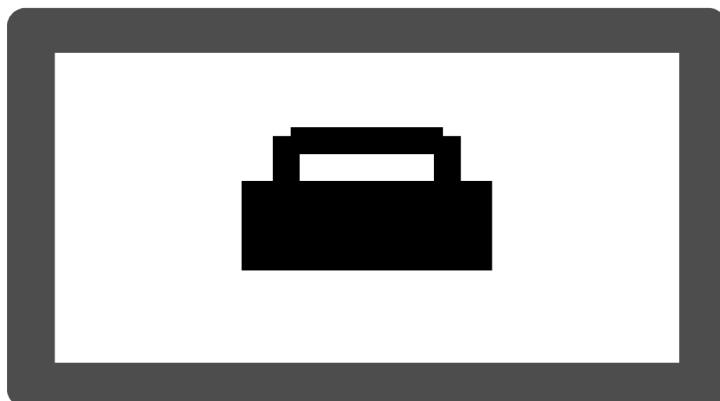
Recording File Deletion Operation:

Long press the REC FILE "0" key to invoke a recording file. Press the or key to select the recording file to be deleted. Long press the "DEL" key and the screen will pop up "Are you sure to delete the file" Press the "▶||" key to delete the recording file.



Key Locking Operation:

Long press the MODE key, the lock icon will appear on the screen, which indicates the system has entered the keys locked mode. If you press other keys they will not function and the lock icon will appear on the screen. Long press the MODE key and the unlock icon will appear on the screen, which indicates the keys have been unlocked.



System Setup(For ZWS-603 V2.4 version)

1. Long press the MENU key to enter the System Setup screen.

(The system will return to the main screen automatically if no operation within 5 seconds.)

System Screen:

- a. Auto power (the time of automatic shutdown can be set to 0-90 min)
- b. Contrast (the contrast ratio of the screen can be set to 1-15 level)
- c. Back light Time (the back light can be set to Normal ON, OFF or a duration)
- d. Language (Spanish/English/Japanese)
- e. Record set (compression ratio: Simple record 64kbps / Quality record 96 kbps / Super record 128kbps)
- f. FM band set (FM1:64-108MHZ or FM2:87-108MHZ)
- g. Back (Return to the main screen)

Note: For the convenience of customers use, the machine default language setting is English.

2. After the system enters the System Setup screen, press the "▶▶" or "◀◀" key to select the corresponding sub-item and press the "▶|" key to enter the sub-menu. Press the "▶▶" or "◀◀" key to select the corresponding sub-item and press the "▶|" key to confirm the selection to finish the setup.

Sleep Shutdown Setup Operation

Enter the system setup screen, press the "▶▶" or "◀◀" key to select "Auto Power" and press the "▶|" key to enter the sub-item.

Press the "▶▶" or "◀◀" key to set the time (00-90 minutes) and press the "▶|" key to confirm the setup.

When the sleep shutdown is successfully set the timing shutdown icon "||" will appear on the screen, which indicates the system has entered the timing shutdown mode. The timer will begin countdown till the time set arrives and then the device will shut down automatically.

Note: When the time is set to 00 or when you turn off the power switch, the sleep shutdown function will be canceled.

Trouble Shooting

1. Q: Cannot turn on the radio.

A: Possibly the battery drained, please charge the battery.

2. Q: Cannot be connected to a computer.

A: Please do the connection in radio off mode. The USB cable maybe damaged, please try another one.

3. Q: Speaker does not sound.

A: Check if the volume level is too low, turn it up.

4. Q: Cannot play audio from the Micro SD(TF) card or USB drive.

A: Check if the card or the USB drive has poor compatibility, try another card or USB drive. The files are damaged or with incorrect format, delete the file and try again.

5. Q: Cannot charge the radio.

A: Check if the external adapter or the USB cable was connected correctly. Check if the adapter or USB cable is damaged.

6. Q: Why the radio sound out of the speaker, when using ear buds?

A: Because the ear buds have MIC function, in fact, this radio can't work with the ear buds which have MIC function.

So, you can try an ear bud without MIC function, if still can't solve, please email me freely

7: Q: Why the SW reception is not good?

A: Shortwave is a delicate medium. Little things like time of day, the sunspot cycle, weather and atmospheric issues can play the devil with reception. But once the sun goes down, the shortwave bands come alive with music, news, propaganda and even some pirate radio stations. So, the signal strength will be weak indoors than outdoors.

So, the best way to listen to shortwave should be: extend antenna, in night, and outdoor.

Specification:

Type of storage supported	Trans Flash card
FM frequency range	64-108MHz
AM frequency range	520-1710KHz
SW frequency range	4.75-21.85 MHz (nine meter waves)
Playback format of the TF card	MP3. WMA
Bluetooth version	5.0GHz
External audio source playback	3.5MM jack audio source input
The number of radio stations saved in radio mode	Altogether 440 (FM mode: 80 /AM mode: 60 /SW mode: 300)

Headset output jack	Standard 3.5mm stereo
Audio input interface	Standard 3.5mm dual loop
Charging data interface	Micro USB-5P
Speaker	Φ40mm/4Ω/3W
External power supply	DC5V
Minimum operating voltage	3.3V
Output power	1.6W
Lithium battery specifications	BL-5C 1000MAH 3.7V
Volume of the product	L120*H79*D23
Net weight	150g (including the lithium battery)
Screen resolution	128*64 point

Caution

Avoid Choking Hazard

Small Parts. Not for children under 3 years.

Protect your hearing

- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before adding headset or earpiece.
- Limit the amount of time you use headsets or earpieces at high volume.
- When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear

Note: Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the radio's volume, the less time is required before your hearing could be affected. Hearing damage from loud noise is sometimes undetectable at first and can have a cumulative effect.

I hope you are truly loving our products and are happy with your purchase. As a small seller on Amazon, we are largely dependent on product reviews from wonderful customers such as yourself.

If our product has met or exceeded your expectations, please help us spread the word by leaving a review.

Contact us if you have any product problems, we promise to solve them as soon as possible.

ZHIWHIS Service Center:

Monday - Saturday, 10:30a.m. - 7:00 p.m. (PST)

- **ZHIWHIS@gmail.com**
- **www.amazon.com/zhiwhis**
www.zhiwhis.com
- **TWITTER : ZHIWHIS**

WARRANTY

This product is covered under warranty for a period of 12 months from the date of retail purchase.

■ This warranty is invalid in the following cases:

1. If the product has been damaged out of negligence, accident and natural disaster.
2. Accidents, flooding, misuse or any unauthorized maintenance, modification, or disassembly.
3. Improper or unreasonable use, maintenance or connection to inappropriate voltage or power supply

■ If warranty service is required, please contact us via email by providing the information of the machine failure and warranty card.

■ This product had been strictly inspected before leaving the factory. If it has any quality issues, we will provide the service of 100% return or replacement.

WARRANTY CARD

Model:	
Order Date:	
Order Number: — —	
User	Address:
	Postal Code:
	Name:
	Tel.