

## TC102

USER'S MANUAL

PA system

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EU Importer

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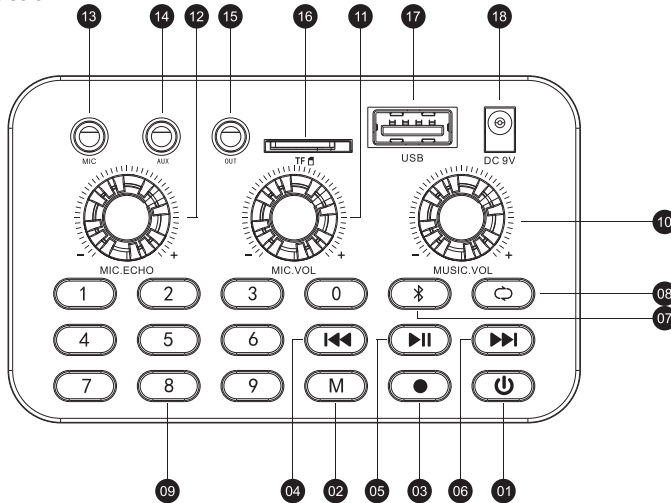
## Safety Warnings:

1. Please don't put the product and accessories nearby fire or other hot environment.
2. Please don't put the product and accessories nearby the water or damp places. Don't use the products near the water. In addition, avoid putting it into any liquid in case that the product and accessories will be damped.
3. Please don't optionally open or tear down the battery accessories. It may cause explosion if the battery replaced improperly. Avoid putting the battery into water, fire or near to any hot environment.
4. This product needs to use the power adapter (DC 9V, 1.2A) to charge. After charged, please remember to unplug the power cord or power socket. We suggest stop other operations under the charging mode. Please cut off the power supply first if you need to use it.
5. If you don't need to use it, please switch off the speaker to avoid the loss of power.
6. Please turn off the product if the wireless equipment is prohibited (it may lead to the disturbances of electronic equipment or hidden danger).
7. Please turn off the product in the flammable and combustible areas, at the same time adhere to the instructions to avoid the explosion and fire hazard. The flammable and combustible areas include: gas station flammable or chemical products, transportation and storage facility, the areas with explosion dangerous sign and the areas with the sign "turn off the bi-directional wireless equipment" etc.
8. When you take a plane, please obey the related rules and disciplines and remember to turn off the amplifier to avoid the hidden danger.
9. Please don't crush, draw, bend, tie or tread by people, avoiding the wired broken to cause to electric shock.
10. Pls take out the adapter if the speaker is belching black smoke or abnormal phenomena, to avoid the accident then contact local agency to repair.
11. Only suitable for safe use in non-tropical climate conditions, only suitable for safe use in areas below 2000 meters above sea level.

## Features:

1. 30W high-power, portable speaker;
2. Configure 4.0inch woofer and 1.5inch tweeter;
3. 7.4V 2000mAh power battery build-in;
4. Configure independent audio input and output functions;
5. Support FM radio function, TF card/USB flash drive play function;
6. UHF Wireless through-wall technology, high sensitivity Moving-Coil microphone, stable signal and clear sound.
7. Supports used by connect with two wireless microphone simultaneously.

## Structure Instruction:



- 1.Power ON / OFF:** Long press "⏻" key three seconds, and the display screen keeps on, it means it is turned on normally, press again for 3 seconds, the display screen is off, it means it is turned off.
- 2.Mode:** To select AUX in mode, Bluetooth mode, FM mode, USB flash drive mode, TF card mode & UHF mode.
- 3.Recording**
- 4.Previous:** Short press "⏮" to select previous audio file. Long press to fast rewind.
- 5.Play/Pause**
- 6.Next:** Short press "⏭" to select next audio file. Long press to fast forward.
- 7.One Key Bluetooth:** Short press this button in any mode to pair the Bluetooth, long press this button in Bluetooth mode to disconnect.
- 8.Loop key:** When play music on TF card/USB flash drive, short press this button to switch to single song repeat with screen display "ONE", short press this button again to switch back to all repeat with screen display "ALL".
- 9.Number selected key:** Use the number pad to select the playing track in the TF card or USB flash drive, or select the FM channel.
- 10.Volume control:** To adjust the music volume.
- 11.Mic volume:** To adjust the microphone volume.
- 12.ECHO:** To adjust the echo effect of mic.
- 13.Mic input:** Support wired mic input (not included).
- 14.Audio Input**
- 15.Audio output**
- 16.TF card slot:** Support TF card play, with a voice prompt "TF card playing". Maximum support 32GB TF card with MP3/WAV/WMA/FLAC/APE format.
- 17.USB port:** Support USB flash drive play, maximum support 32G with MP3/WAV/WMA/FLAC/APE format.
- 18.DC 9V in:** Charging port, please using original adapter to charge.

## TF card/USB flash drive play:

The speaker will automatically play the music file after insert TF card/USB flash drive. Support MP3 / WAV / WMA / FLAC / APE music format.

**Play/Pause:** When play music, short press "▶||" button to Play & Pause music.

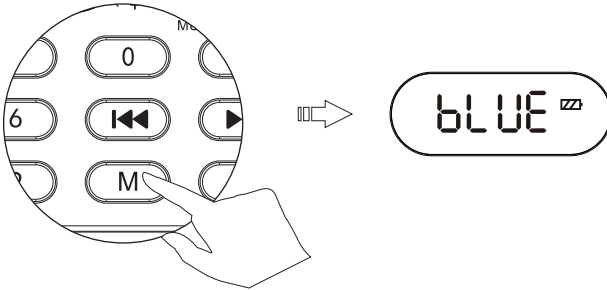
**Previous/Next:** When play music, short press "◀◀" / "▶▶" button to choose play previous song and next song.

## REC Function:

- 1.Connected the wireless or wired microphone, then insert the storage (USB flash drive or TF card). Press "●" key and hold on to enter into REC mode, the time display on LED screen will flash. Press "●" key again to stop recording, save the audio files and play the recordings.
- 2.In music mode, press "●" key to play back recordings with inserting storages (which have recordings). It will play the last recording by default and press "◀◀" or "▶▶" to select the previous and next recordings.

## Bluetooth Function:

- 1.Turn on the speaker and press "M" to enter into Bluetooth mode with "bLUE" icon on the screen.
- 2.Turn on the Bluetooth function of your mobile phone, then search for "Retekess TC102" and connect, Bluetooth pairing is successfully with a voice prompt "Bluetooth is connected".
- 3.When playing music, please keep the amplifier close to the Bluetooth-enable device to maintain a stable connection.



## FM Function:

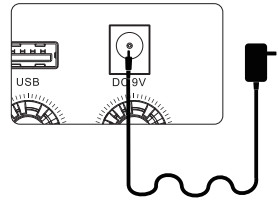
- Switch on the speaker, short press "M" to choose the FM mode with the screen showing radio frequency;  
Long press "▶||" to enter into automatic channels searching, after searched successfully, the device will save the channel automatically.  
Please press "◀◀" or "▶▶" to choose the saved channels.

## About Charging:

Power off the speaker when charging. The indicator will light on when charging and will be off after fully charged.

## Remarks:

- a.The battery indicator will blink when the battery is low. Please charge it timely. (The charging time is normally 3~4 hours.)
- b.We recommend that you fully charged the battery before first use.



## Wireless Microphone Operation:

### 1.Switch ON I OFF:

Long press "⏻" switch on/off the wireless microphone.

### 2.Pair the UHF Wireless MIC Manually (This pairing is used when the MIC is no sound)

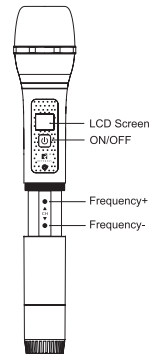
- Step1:** Switch on the speaker, short press "M" key to choose UHF mode.  
**Step2:** In UHF mode, long press "M" key three seconds to enter into UHF wireless pairing status with voice prompt "UHF is waiting for connection".  
**Step3:** Switch on the wireless MIC and twist-off the MIC; choose a frequency point by Press "▲" or "▼". Quickly short press "⏻" 3 times until "MHZ" stop flashing. Pairing is successful with voice prompt "UHF is connected". Then it's possible to amplify voice with wireless MIC.

**Notes:** Under the pairing status, short press "⏻" 3 times on the hand-held microphone to disconnect. Repeat Step1, step2 & step3 for pairing the UHF wireless MIC manually.

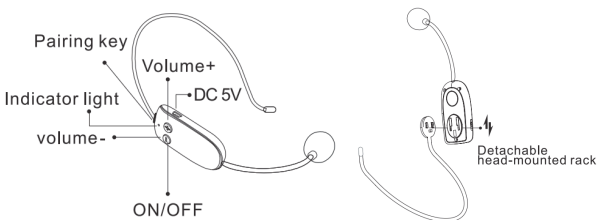
### 3.Battery Indication of UHF Wireless MIC:

It's low battery with "⏻" indication showed on screen and please change the battery timely.

**Note:** Please twist off the battery cover properly and put the batteries. (Please mind the positive & negative anode.)



## Wireless Microphone Sketch:



## Wireless Microphone Technical Parameters:

Frequency response:	30Hz-23KHz	Output resistance:	≤2.2KΩ
Sensitivity:	-41dB±1dB (0dB=1V/Pa)	Recharging voltage:	DC 5V 500mAh
Working time:	3-5 hours	Charging time:	2-3 hours
Moving-coil:	Unidirectional		

## Wireless Microphone Operation:(Limited to headset version)

1. The wireless microphone factory setting have been paired successfully, you can use it directly. If the microphone has no sound or the microphone is disconnected, you need to manually pair it.

### 2.Pair the UHF manually:

Step1. Turn on the amplifier, short press " M " to switch to UHF mode, long press the "M" key ,the "UHF" display will flash and a voice prompt will say, "UHF is waiting for connection".

Step2. Turn on the wireless microphone and long press " 📶 " key for 5 seconds. The "UHF" icon will stop flashing, and a voice prompt will say, "UHF is connected".

### Volume Control:

1.If amplifier howling or in a small volume, adjust the volume by press "+" or "-" on the wireless microphone.

2.You can also adjust the volume on the voice amplifier by rotate the volume control.

## How to charge the wireless microphone:

When the microphone blue indicator light flashes means low battery. Please turn it off and charging through Micro USB with DC 5V adapter. The red indicator light will be on all the time when charging, and it will go out after fully charged.

### Notes:

1.The normal charge time is 3~5 hours. Unplug the charger as soon as it is fully charged.

2.Full charge before first use of the microphone to ensure best results.

3. Turn off the UHF wireless microphone when not in use.

# WARNING

## RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR TWO-WAY RADIOS



ATTENTION!

Before using this radio, read this guide which contains important operating instructions for safe usage and rf energy awareness and control for compliance with applicable standards and regulations.

### Local Government Regulations

When radios are used as a consequence of employment, the Local Government Regulations requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your Reteless radio has a RF Exposure Product Label. Also, your Reteless user manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

### Unauthorized modification and adjustment

Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority granted by the local government radio management departments to operate this radio and should not be made. To comply with the corresponding requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services.

Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the local government radio management departments equipment authorization for this radio could violate the rules.

### FCC Requirements:

•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.

•(If applicable) 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.

### CE Requirements:

•(Simple EU declaration of conformity) Henan Eshow Electronic Commerce Co.,Ltd declares that the radio equipment type is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU and the ROHS Directive 2011/65/EU and the WEEE Directive 2012/19/EU; the full text of the EU declaration of conformity is available at the following internet address: [www.reteless.com](http://www.reteless.com).

•Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste. Dispose of them according to the laws in your area.



### IC Requirements:

Licence-exempt radio apparatus

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage;

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### RF Warning Statements

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

### RF Exposure Information(if appropriate)

•DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio, and the antenna gain shall not exceed the specified gain by the manufacturer declared.

•To avoid interference, turn off the radio in areas where signs are posted to do so.

•DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.

## 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
- Use careful with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss

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.



## Approved Accessories



- This radio meets the RF exposure guidelines when used with the Reteless accessories supplied or designated for the product. Use of other accessories may not ensure compliance with the RF exposure guidelines and may violate regulations.
- For a list of Reteless-approved accessories for your radio model, visit the following website: <http://www.Retekess.com>