

RETEKESS

TT111/TT112/TT113
USER'S MANUAL

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EN(01-12)

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◇ Transmitter (Handheld Type)

On-off operation:

- Turn on: Keep pressing the "⏻" button for 1 second to turn on.
- Turn off: Keep pressing the "⏻" button for 1 second to turn off.



The operation of mute function for transmitter:

When the transmitter is working, click the "+" button to mute (the antenna icon "Ⓐ" on the display screen will change to mute icon "⊗"), the receiver can not receive the signal from the transmitter anymore; and click again the "+" button to restore the speak function. (the mute icon "⊗" will change to antenna icon "Ⓐ")

Click one button to turn off all the receivers:

Under the working condition, keep pressing the "-" button for about 5 seconds until the display screen is flashing and the antenna icon "Ⓐ" changes to be the word "OFF", and all the receivers will be forcibly turned off. (Note: Now you can click any button of the transmitter to quit or keep pressing the "⏻" button to turn off.)

The person in charge of the devices needs to know how to set the channel:

(1) Why and when need to set the channel:

1, When there are two or more groups using the devices at the same location, to avoid the interference between the groups, you need to set different channels for the devices (including both transmitters and receivers) of different groups.

2, When you need to add more receivers to a group, and the channel of these added receivers is not the same as

that of the devices of the group, you need to set the channel of these added receivers to be the same as that of the group. (The channel of the transmitter and the receivers in a group must be the same, or the receivers can not receive the signal from the transmitter)

(2)The way of channel setting:

1.Wireless channel setting:

Under the working condition, keep pressing both "+"button and the "-" button at the same time until the channel number on the screen is flashing, then release both "+"button and the "-" button, now the transmitter has entered the channel setting mode, then you can click the "+"or "-" button to change the channel number, after you have chosen the channel number, keep pressing "⏻" button for about 3 seconds until the flashing antenna icon "📶" appears, then release the "⏻" button, now the transmitter has entered the wireless channel matching status, then you can put the receivers(the receivers have been turned on) closed to the transmitter(within 2 meters),and the receiver's channel will match the transmitter's channel(within 5 seconds) and become the same, the channel matching can be finished within 5 seconds (the receiver's indicator light will stop flashing fast and become stable blue),Then you can click the transmitter's "⏻" button to quit the channel matching status, now if the transmitter speaks, the receivers can hear it.

◇ Transmitter (Chest Model)

On-off operation:

- Turn on: Keep pressing the "M" button for 1 second to turn on.
- Turn off: Keep pressing the "M" button for 1 second to turn off.

The operation of mute function for transmitter:

When the transmitter is working, click the "▶▶" button to mute (the antenna icon "Ⓐ") on the display screen will change to mute icon "Ⓜ"), and click again the "▶▶" button to restore the speak function. (the mute icon "Ⓜ" will change to antenna icon "Ⓐ")



Click one button to turn off all the receivers

Under the working condition, keep pressing the "◀◀" button for about 5 seconds until the screen is flashing and the word "OFF" appears, and all the receivers will be forcibly turned off. (Note: Now you can click any button of the transmitter to quit or keep pressing the "M" button to turn off.)

The person in charge of the devices needs to know how to set the channel:

(3) Why and when need to set the channel:

- 1, When there are two or more groups using the devices at the same location, to avoid the interference between the groups, you need to set different channels for the devices (including both transmitters and receivers) of different groups.
- 2, When you need to add more receivers to a group, and the channel of these added receivers is not the same as that of the devices of the group, you need to set the channel of

these added receivers to be the same as that of the group.(The channel of the transmitter and the receivers in a group must be the same, or the receivers can not receive the signal from the transmitter)

(4)The way of channel setting:

1.Wireless channel setting:

Under the working condition,keep pressing both"▶▶"button and the"◀◀"button at the same time until the channel number on the screen is flashing,then release both"▶▶" button and the"◀◀"button,now the transmitter has entered the channel setting mode,then you can click the "▶▶"or"◀◀" button to change the channel number, after you have chosen the channel number,keep pressing "M" button for about 3 seconds until the flashing antenna icon "Ⓐ" appears,then release the "M" button,now the transmitter has entered the wireless channel matching status,then you can put the receivers(the receivers have been turned on) closed to the transmitter(within 2 meters),and the receivers'channel will match the transmitter's channel(within 5 seconds) and become the same,the channel matching can be finished within 5 seconds,Then you can click the transmitter's "M" button to quit the channel matching status,now if the transmitter speaks,the receivers can hear it.

◇ Receiver

On-off operation:

●Turn on:Keep pressing the "⏻" button for 1 second until the indicator light lights up to turn on.

After it turns on

1.if there's a transmitter with the same channel speaking nearby(within about 250 meters),it will hear what the transmitter says(When the receiver receives the signal from the transmitter, its indicator light

will flash one time every 2.5 seconds; If the receiver does not receive the signal from the transmitter or the receiver's channel is not the same as that of the transmitter , its indicator light will flash very quickly and it flashes one time every 0.5 second;

2.if there's a transmitter at the status of channel matching nearby (within about 2 meters),its channel will match the transmitter's channel automatically and become the same.

(Now the indicator light is on and stays blue, and after the transmitter quits the channel matching mode, the indicator light will flash one time every 2.5 seconds, and it means the channel matching is finished and successful.)

●Turn off:Keep pressing the "⏻" button for 2 seconds to turn off (The indicator light turns off too). You can also use the transmitter's function " Click one button to turn off all the receivers" to turn off the receiver.



Volume adjustment:

When the receiver is receiving the signal from the transmitter, you can click or keep pressing the "+" or "-" button to adjust the volume.

Battery status:

The indicator light will be flashing as soon as the receiver is turned on, the battery level is full if the indicator light flashes 5 times, the battery level has only 80% left if the indicator light flashes 4 times, and the battery level has only 20% left if the indicator light flashes only once.

Attention:

When the transmitters and receivers are not used for a long time, please charge them once every 3 months, so that the batteries can be protected. (There is lithium battery inside the device, if it was not used or charged for a long time, the battery would be damaged.) In one word, make sure that the batteries inside the transmitters and receivers always have power.

User manual of Charging case

- 1.Power supply: AC 90V--250V
- 2.When it is going to be charged, take the foam out, and keep the cover open in case it gets hot .
- 3.When it is charging, the battery level on the display screen of the transmitters shows going up, and it stops when the battery level is full. The indicator light of the receiver is red when it is being charged, and the indicator light will turn to be blue when the battery level is full.
- 4.Normally it takes about 2 hours to charge the receivers full, and takes about 5 hours to charge the transmitters full.

Specification

Transmitter		Receiver	
Frequency Range	US:902-928mhz EU:863-865mhz	Frequency Range	US:902-928mhz EU:863-865mhz
ID Number	US:100 EU:36	ID Number	US:100 EU:36
Supply Voltage	DC 3.7V	Supply Voltage	DC 3.7V

Transmitter		Receiver	
Frequency Response	50-18000Hz	Frequency Response	50-18000Hz
Electronical current	300MA	Electronical current	68MA (Mute status)
SNR	≥90dB (Typical)	SNR	≥90dB (Typical)
Distortion	<0.3%	Distortion	<0.2%
Battery capacity	2000MA	Battery capacity	520MA
working hour	7-8hours	working hour	8-9hours
Working distance	250 meters	Working distance	250 meters

◆◆ Warnings

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE



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.

This radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. RF energy, which when used improperly, can cause biological damage.

All Reteless radios are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of the radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it.

Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits: <http://www.who.int/en/>

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.

Radio License (if appropriate)

Governments keep the radios in classification, business radios operate on radio frequencies that are regulated by the local radio management departments (FCC, ISED, OFCOM, ANFR, BFTK, Bundesnetzagentur...). To transmit on these frequencies, you are required to have a license issued by them. The detailed classification and the use of your radios, please contact the local government radio management departments. Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited

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.retekess.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 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.
- DO NOT transmit for more than 50% of total radio use time, more than 50% of the time can cause RF exposure compliance requirements to be exceeded.
- During transmissions, your radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so.
- The device complies with RF specifications when the device used at 5mm from your body. Third-party belt-clips, holsters, and similar

accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided.

•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:



WARNING

- 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.



Avoid Burns



WARNING

Antennas

•Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with the skin when the radio is in use, a minor burn can result.

Batteries (If appropriate)

•When the conductive material such as jewelry, keys or chains touch exposed terminals of the batteries, may complete an electrical circuit (short circuit the battery) and become hot to cause bodily injury such as burns. Exercise care in handling any battery, particularly when placing it inside a pocket, purse or other container with metal objects

Long transmission

- When the transceiver is used for long transmissions, the radiator and chassis will become hot.

Safety Operation

Forbid



WARNING

- Do not use charger outdoors or in moist environments, use only in dry locations/conditions.
- Do not disassemble the charger, that may result in risk of electrical shock or fire.
- Do not operate the charger if it has been broken or damaged in any way.
- Do not place a portable radio in the area over an air bag or in the air bag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the air bag inflates.

To reduce risk

- Pull by the plug rather than the cord when disconnecting the charger.
- Unplug the charger from the AC outlet before attempting any maintenance or cleaning.
- Contact Retekeess for assistance regarding repairs and service.
- The adapter shall be installed near the equipment and shall be easily accessible
- Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
- Adapter shall be installed near the equipment and shall be easily accessible.
- The plug considered as disconnect device of adapter.
- The operating temperature of the EUT can't exceed the specified range.

Approved Accessories



WARNING

- This radio meets the RF exposure guidelines when used with the Retekeess 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 Retekeess-approved accessories for your radio model, visit the following website: <http://www.Retekeess.com>

Remarks:

1. This guarantee card should be kept by the user, no replacement if lost.
2. Most new products carry a two-year manufacturer's warranty from the date of purchase.
3. The user can get warranty and after-sales service as below:
 - Contact the seller where you buy.
 - Products Repaired by Our Local Repair Center
4. For warranty service, you will need to provide a receipt proof of purchase from the actual seller for verification

Exclusions from Warranty Coverage:

1. To any product damaged by accident.
2. In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs.
3. If the serial number has been altered, defaced, or removed.

Guarantee	
Model Number:	
Serial Number:	
Purchasing Date:	
Dealer:	
Telephone:	
User's Name:	
Telephone:	
Country:	
Address:	
Post Code:	
Email:	