RETEKESS T112 Queue Wireless Calling System User Manual

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Retekess

RETEKESS T112 Queue Wireless Calling System

Summary

Thanks for choosing the queue wireless calling system. It adopts RF wireless technology with millions of different learning codes. The system includes 999-channel call buttons keypad and portable buzzer&vibration receivers. The call button keypad has 20 battery charging slots. Each receiver is rechargeable and labeled with a number. In standby status, it is plugged into the charging slot, while the client places an order, he(she) will be dispatched one receiver with a number, when the order is ready, press the keypad to call the number, the client will get it through the buzzer/vibration/LED indications.

The queue system greatly improve the work efficiency and avoid the client waiting in a long queue. It is widely used in fast food restaurant, dessert shop, auto 4S shop or other queue occasions.

Features

- 999 channels keypad call buttons
- 20 batteries charging slots
- Portable rechargeable vibration & buzzer receiver
- Independent storage memory avoiding data lost
- High receive sensitivity
- Self testing while power on
- Beautiful and fashionable designing

Technical data

	Receiver
Working voltage	DC3.7V (rechargeable battery)
Charging voltage	DC5V
Working frequency	433.92MHz
Standby current	10±5mA
Working current	75±10mA (vibration)
Receive sensitivity	-107±2dBm
Battery capacity	360mAh
Decoder	Learning code (AM)
Dimmension	49*101*11mm

Keypad call button	
Working voltage	DC 5V/6A (power adapter)
Working frequency	433.92MHz
Standby current	24±5mA
Transmit current	100±30mA
Encoder	Learning code (AM)
Dimmension	150*300*33mm

Diagram of call button keypad

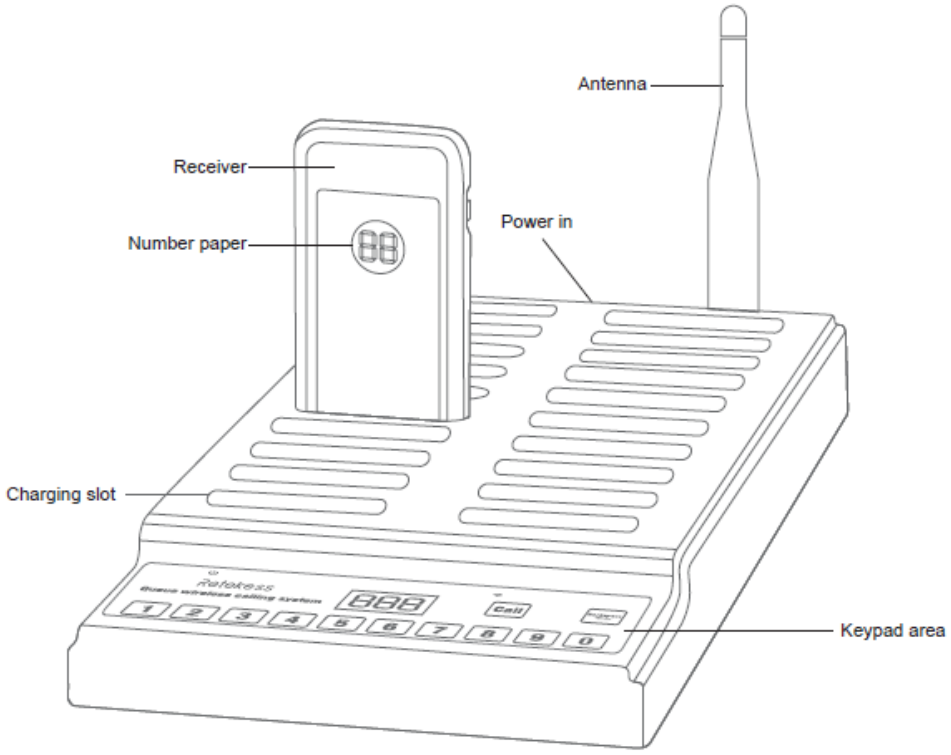
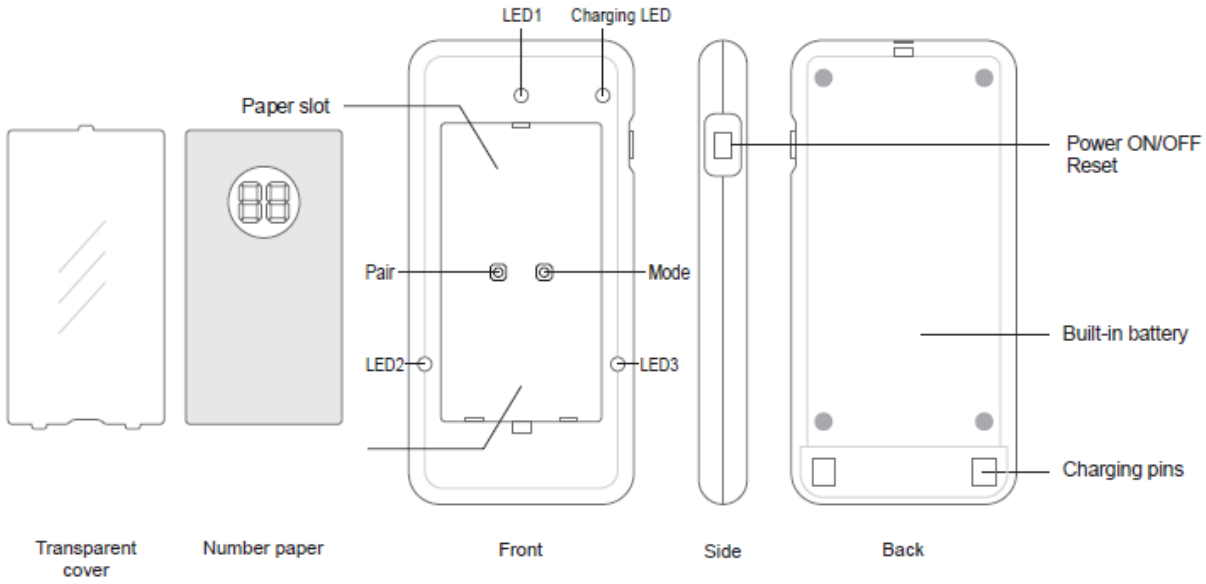


Diagram of receiver



Button function

Power Press and hold the button for 3sec to power on the receiver, press again to power off. Short press the button to reset standby status while there is calling.

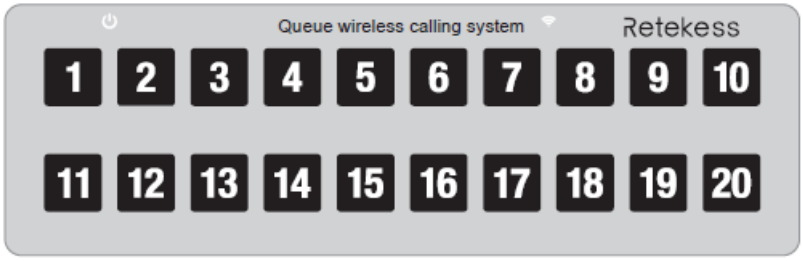
Set Short press the button to enter pairing status; Press and hold on the button for 3sec to unpair..

Mode Change the prompt mode of the receiver. The upper position is vibration only; the lower position is vibration and buzzer.

Keypad The call button & charger base has 2 different models, one is 999-channel keypad, another one is 20-channel keypad. The 999-channel keypad use the combination of 0~9 to generates 999 different codes; but the 20-channel keypad only has 20 different codes.

999-channel keypad

Press button from 0 to 9 to select a number from 1 to 999, then press “Call” button to send. If select wrong number, press “Backspace” to delete and select number again.



20-channel keypad

20-channel keypad, press the number button, it sends the wireless signal directly.
Note: the below instruction is based on 999-channel keypad.

Operation instruction

1. Connect the call button keypad to power, it executes the self-testing procedure. Then power icon turns on.
2. Press and hold “Power” button for 3s on side of the receiver to power on, the receiver will vibrate and sound 5 times, and then LED1 indicator flickers every 3s, the receiver enters standby status. Plug the receiver to the charging slot, it vibrates and sounds 5 times and then the blue charging LED on, the receiver enters charging status.
3. When client places an order, the service people give one receiver to him(her) and note down the number.
4. While the order is ready, the service people press keypad to call the client (number), the corresponding receiver gets the information and prompts vibration/buzzer/light for 5min. After that only the 3 LED indicators flicker.
   Press the “Power/Reset” button or plug back to charging slot to reset charging/standby status.
5. The client gives back the receiver to service people, the service people put the receiver to charging slot and provide service.
6. While the receiver is in charging, press the number on keypad, the corresponding receiver LED indicators will flicker 3 times to report its position.

   Note:

   1. In daily working, the receiver can be powered on all the time. If long time not use, power off the receiver please.
   2. For a long time the receiver is not used, charge it for a while before giving to the client.
   3. The receiver must be paired to the keypad before using. About how to do pairing, please refer to the pairing method below.

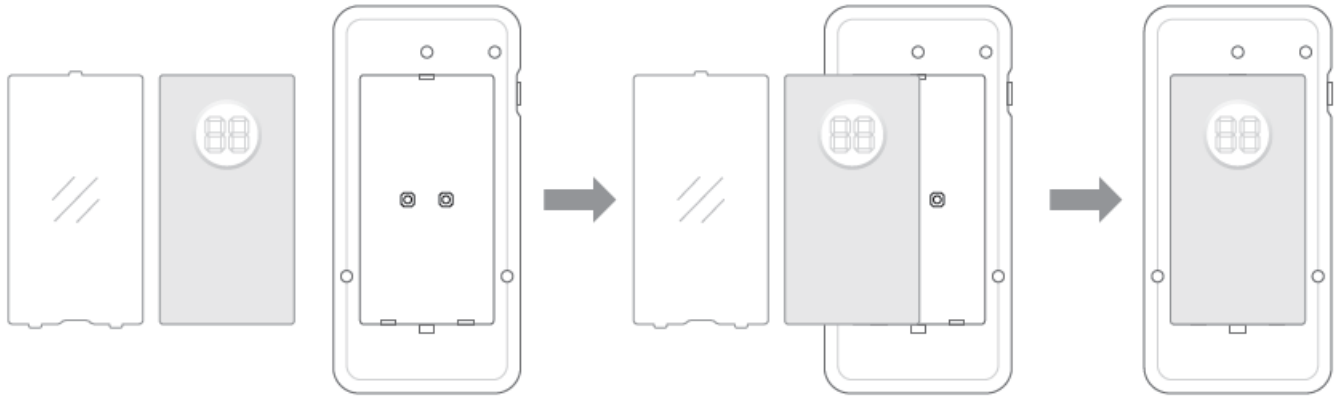
Pairing method

1. Paring – Short press the “Set” button, the LED1 indicator turns on, then press the call number on the keypad. The receiver gets the signal and LED1 lamp turns off. The pairing is successful. If the receiver does not gets any signal in 10 sec, it will quit pairing status automatically.
2. Deleting – Press and hold on the “Set” button for 5 sec, the LED1 indicator will be ON-OFF, then release the button, all the paired call buttons will be deleted.

Note: to do the pairing or mode settings, should take off the transparent and number paper, the settings button is covered below it.

Change number paper

Take out the transparent plexiglass cover in the front of the receiver, then put a number paper inside the paper slot. And then put back the cover.
Note: While do the pairing operation, take out the cover and paper firstly.



Charge the receiver
When the voltage of receiver is lower than DC3.2V, it is low power, LED1 and blue charging LED indicator flicker with short buzzer sound, please recharge in time.

Plug the receiver to the charging slot, the blue charging LED indicator will flicker, while it is charged full, the LED indicator will turn on all the time.

FAQ

Problems	Reasons	Solutions
While power on, the number display on keypad is not on.	The power adaptor is broken.	Change the power adaptor.
The distance of some receiver gets near.	The power of battery is low.	Charge the battery in time.
Receiver cannot get any signal from keypad call button.	The pairing is deleted; The number is not correct.	Pair the receiver again to the keyp ad.
Forget the number of receiver.		Delete the pairing first, then pair it again.

Packing List

Name	**Quantity**
Call button keypad	1 pc
Receiver	20 pcs
Power adaptor	1 pc
User manual	1 pc
Warranty card	1 pc

Warning
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 the 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 Retekess radio has a RF Exposure Product Label. Also, your user manual, or separate safety booklet includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

Compliance with RF Exposure Standards (If appropriate, Reference to the actual product's Safety Marking)
Your Retekess radio is designed and tested to comply with a number of national and International standards and guidelines (listed below) for human exposure to radio frequency electro-magnetic energy.

FCC ID

The FCC ID means: This radio complies with the IEEE (FCC) and ICNIRP exposure limits for occupational/controlled RF exposure environments at operating duty factors of up to 50% talk-50% listen and is approved for occupational use only.
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.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE
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.

Warning

- 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.

The CE marking means: Hereby, Henan Eshow Electronic Commerce Co.,Ltd. declares that the radio equipment type is in compliance with the 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.tivdio.com**

IC ID
This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

  In terms of measuring RF energy for compliance with these exposure guidelines, your radio generates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

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.

Turn off your radio power in the following conditions:

- Turn off your radio before removing (installing) a battery or accessory r when charging obattery.
- Turn off your radio when you are in a potentially hazardous environments: Near electrical blasting caps, in a blasting area, in explosive atmospheres (inflammable gas, dust particles, metallic powders, grain powders, etc.).
- Turn off your radio while taking on fuel or while parked at gasoline service stations. To avoid electromagnetic interference and/or compatibility conflicts
- Turn off your radio in any facility where posted notices instruct you to do so, hospitals or health care facilities (Pacemakers, Hearing Aids and Other Medical Devices) may be using equipment that is sensitive to external RF energy.
- Turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Avoid Burns

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 (If appropriate)

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

Safety Operation

Forbid

- 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 Retekess for assistance regarding repairs and service.

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E-mail: **support@retekess.com**

Documents / Resources

	**RETEKESS T112 Queue Wireless Calling System** [pdf] User Manual T112, 2A3NOT112, T112 Queue Wireless Calling System, Queue Wireless Calling System, Cal ling System