RETEKESS TD161 Queue Wireless Calling System User Manual

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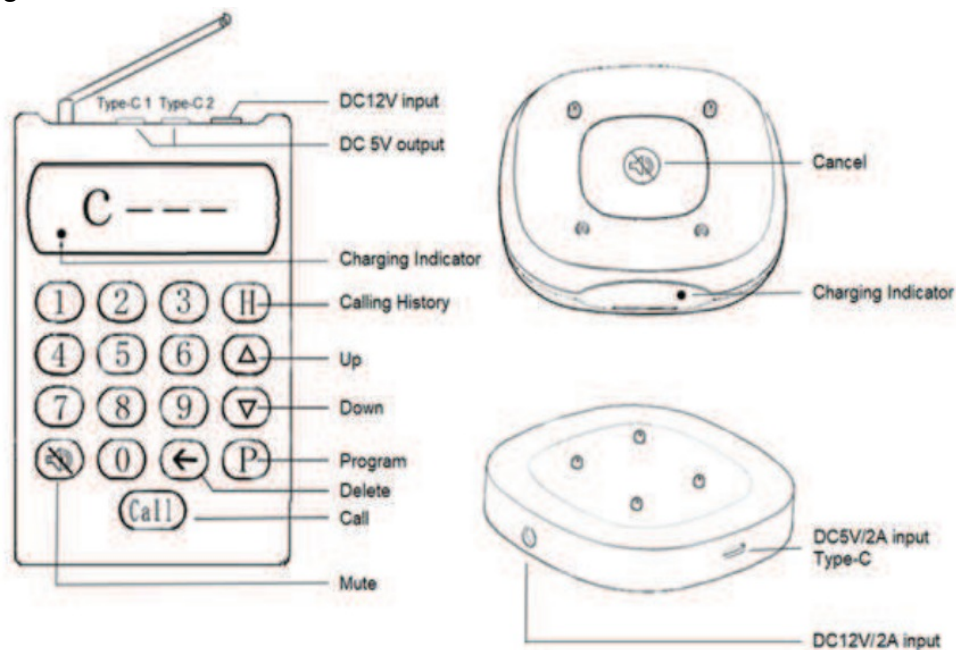TD161

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Product introduction

Thank you for using Retekess Paging System, it adopts RF wireless technology. The TD161 guest paging system consists of 1 keyboard transmitter and 10 coaster pagers. Each keyboard transmitter can pair up to 998 coaster pagers. It is widely used in fast-food restaurants, coffee houses, pizza shops, 4S stores, churches, and other places where there are many guests waiting for their services. The system improves overall efficiency and service level, reduces labor costs, and enhances the image.

HOW TO USE THE PAGING SYSTEM?

1) Guests come to the restaurant and make an order. The waiter gives each guest a coaster pager; every pager has a number on it (No.1~998).

2) When the order is read, the waiter at the counter will press the number on the transmitter.

The corresponding guest gets the wireless signal by his coaster pager vibrating or LED flashing or beeping, then he knows the order is ready and goes to the counter to take his food.

Functional Diagram

Parameter

Host		Pager	
Input Power	DC12V/2A	Battery	Li-ion 3.7V 300mAh
Frequency	433.92MHz	Frequency	433.92MHz
Transmit Power	26dBm	Standby Current	<12mA
Standby Power	<120mW	Standby Duration	10h
Modulation Type	FSK	Sensitivity	-115dBm
Max Capacity	998 pagers	Max Distance	600m-800m
Backup Battery	Li-ion 3.7v 1000mAh	Prompt Mode	Vibration/Buzzer/Flashing
Dimensions	165*90*30mm	Prompt Time	The 30s
Max output	DC5V/4A	Input	Type-C DC5V/2A; or DC12V/2A

Packing List

Name	Quantity (PCS)
Keyboard Transmitter	1
Coaster Paging	10
Antenna	1
Power Adapter	1
Charger Base	1
Type-C Line	1
User Manual	1

Instructions for Use

A.Before using
Wiring: The host connects to a power source via an adapter. Charging base connects to host via Type-C cable.
Connect the host to a power source, and charge pagers for 10 minutes at least before using.
Charging Indicator Information:

Host		Pager	
Red LED	Charging	Flashing	Charging
Green LED	Fully Charged	Always On	Fully Charged

B.Operating Instruction
CALL mode is the default mode. Continuously press the Delete button () to return Call Mode while in another mode. C— is displayed in CALL mode. Input the number and press the CALL button to call the corresponding pager.

C.Mute mode
Press MUTE and 999 (S999 displayed) then press CALL, all charging pagers change to MUTE mode.
Press MUTE and 000 (S000 displayed) then press CALL, all charging pagers change to normal mode.

In MUTE mode, all pagers only vibrate and flash while being called.
Continuously press the DELETE button () to return CALL mode. (C— displayed)
D.Call History

Press button H to check the recent 10 called numbers (HXXX displayed). Press ▲/▼ button to page up/down.

Continuously press the DELETE button () to return CALL mode. (C— displayed) **Note:** No looping of ▲/▼
E.One-Call-Off
In CALL mode, press 999 and CALL, all charging pagers will be off. Re-charge pagers will turn on again.
Note: This instruction is invalid to the pagers not being charged.
F.Keyboard Transmitter Off

When powered by battery, long-press H, and ▲ at the same time, the keyboard transmitter is off. Long press H

and ▼ at the same time, the keyboard transmitter is on. This operation is invalid when powered by a power
source.
G.Program Operation
All pagers are programmed before delivery. So this operation is only necessary when adding new pagers or
changing numbers.
Put the pagers on the charging base, press P and 999 (P999 displayed), then press CALL to enter programming
mode. The operation must be finished in 20 seconds after pagers are charged. In programming mode, all LED
displays of the pagers will keep flashing.
Then input the number and press CALL, all pagers display this number. Move the top pager away, the pager will
beep once and stop flashing. It means the pager is programmed. Repeat the steps to program other pagers.
Note: The pagers will quit programming mode if no operation within 1 minute. All pagers' numbers will not change
if not being programmed. 1 pager only can be programmed 1 number. The old number will be replaced by the new
one.

Instruction Description

Instruction	Buttons	Display	Function
Programming Mode	P 999 CALL	P999	To enter programming mode
History	H	H + Number	Check recent 10 call records.
Mute Mode	🔇 999 Call	S999	All charging pagers switch to MUTE mode.
Quit Mute Mode	🔇 C- 000 Call	S000	All charging pagers quit MUTE mode.
Call pagers	[Number] Call	C+[Number]	The corresponding pager begins to remind.

Common Troubles and Solutions

Trouble	Analysis	Solution
The pager can't be programmed.	1. The pager is not being charged. 2. Charging is more than 20s.	1. Make sure the pagers are well charged. 2. Try again within the 20s after recharging.
The pager can't be One-Call-Off	The pager is not being charged.	Make sure the pagers are well charged and try again.
The pager doesn't respond.	1. The pager is out of power. 2. Out of call range.	1. Use after a full charge. 2. Use within range of call.

Precautions

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE

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 Retekess 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 Retekess radio has an RF Exposure Product Label. Also, your Retekess 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. For 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.

- 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:

License-exempt radio apparatus This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-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.

RF Exposure Information

- 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 an 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 is 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.
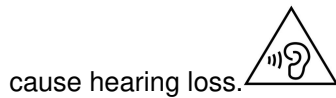
Avoid Choking Hazard

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 a 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 care with the earphone may be 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 another container with metal objects Long transmission

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

Safety Operation

⚠ **WARNING**

Forbid

- Do not use chargers outdoors or in moist environments, use only in dry locations/conditions.

- Do not disassemble the charger, which may result in a 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 airbag or in the airbag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the airbag 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.

- The adapter shall be installed near the equipment and shall be easily accessible

- Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

- The adapter shall be installed near the equipment and shall be easily accessible.

- The plug is considered as a disconnect device of the 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 Retekess accessories supplied or designated for the product. The use of other accessories may not ensure compliance with the RF exposure guidelines and may violate regulations.
- For a list of Retekess-approved accessories for your radio model, visit the following website: **http://www.Retekess.com**.
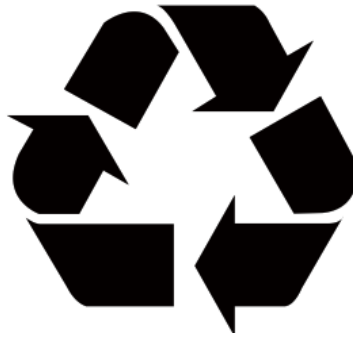
Guarantee

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

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EU Importer: Germany Retevis Technology GmbH
Address: Uetzenacker 29,38176 wendeburg
Facebook: **facebook.com/Retekess.ru**
E-mail: **support@retekess.com.ru**
Web: **retekess.com.ru**

MADE IN CHINA

Documents / Resources

	RETEKESS TD161 Queue Wireless Calling System [pdf] User Manual TD161, Queue Wireless Calling System, TD161 Queue Wireless Calling System