

EZTalk 2

User Manual

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Main Features

- Frequency range: TX GMRS, RX 136-174MHz&400-470MHz
- 50CTCSS+210DCS, customizable side key function
- High/Middle/Low power selection
- TOT, default: 60s, adjustable
- Main functions and channels voice prompt
- Low battery alert, when the radio prompts "Please charge"
- Battery save, low battery alert, low battery voltage checking function
- Fast channel pairing, quickly achieve channel information transmit and copy short-distance without CPS setting
- Keypad lock, LCD backlight and keypad backlight function (backlight is adjustable)
- FM radio (FM 65-108MHz), FM-interrupt (if allowed)
- NOAA weather alert supports USA NOAA weather broadcast reception, real-time weather alert and safe going
- Sound and light alarm function (three alarm types: Whistle/Alarm sound/Alarm code), ensuring your safety
- VOX hands-free, 1-9 levels optional
- Featured scan function, three scan restoration choice, group channel scan, CTCSS/DCS scan, priority channel scan
- Hunting calls: one option for each species. After selecting, press the menu key again to play the voice once; if you need to play multiple times, repeat the operation (voice list: buck, duck, elk, hare, roe deer, wild hogs, wolf)
- Fast hiding function, shortly press the side key set with hidden mode to turn off all voice prompts and indicators at the same time.

Preparation Before Using (1)

●Antenna installation:

Rotate the antenna clockwise until it is tight. To remove the antenna, turn it counterclockwise.

Note: do not hold the top of the antenna and shake the walkie talkie, otherwise the performance and service life of the antenna will be reduced.

●Install the battery pack:

1. Turn the back of the walkie talkie towards you, place the tail of the Li-ion battery pack close to and align it with the bottom of the walkie talkie;

2. Push the battery head upward until it is locked by the battery buckle.

●Remove the battery pack:

1. Turn the back of the walkie talkie towards you, press the battery latch downward until the front of the battery pops up and separates from the body;

2. Lift the battery and slide it forward until the battery is separated from the whole machine.

●Install audio accessories/installing external headphones:

1. Open the accessory interface cover;

2. Align the accessory plug with the accessory interface and push it all the way;

3. When you don't need to use the headphones, pull out the headphone plug from the headphone jack and close the headphone cover.

Note: please install the accessories correctly, otherwise, the external headphone or radio CPS may be affected.

Charging Attention (2)

● The Li-ion battery is not charged when leaving the factory. Please charge it at an ambient temperature between 5-40°C before use.

● After purchasing or long-term storage (more than two months), the radio must be charged to its full capacity for the first time. After repeated charging/discharging two or three times, normal charging effect and battery energy can be achieved.

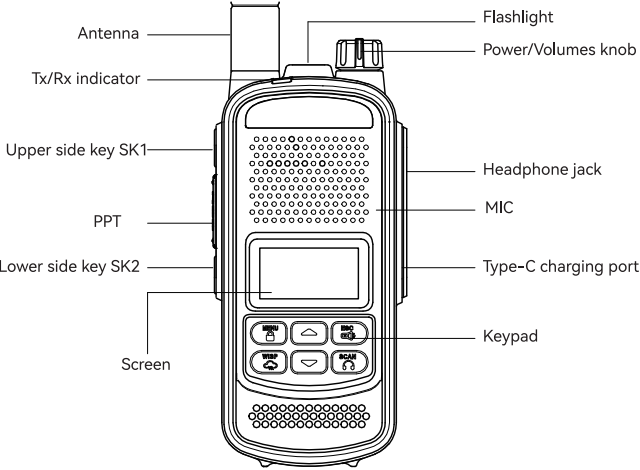
● It is strictly prohibited to use the radio while charging. It will affect the normal charging of the Li-ion battery and cause accidental danger.

● After the radio is fully charged, please unplug the charging plug from the base of the radio. Overcharging for a long time will shorten the battery's service life. Do not recharge when the battery is not completely used up, otherwise it will cause memory effect of the battery and damage the battery.

● If the usage time of the radio battery does not increase even after charging in the correct way, it means that the life of the Li-ion battery has expired. Please replace the battery.

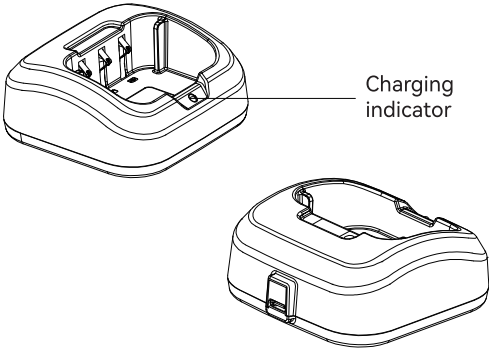
Basic Information

Radio Display



Unpacking and Checking Equipment
After receiving the package, please check whether the radio is damaged and whether the accessories are complete. Refer to the following accessories list to check the items. If any items are lost or damaged during transportation, please contact your local dealer immediately.

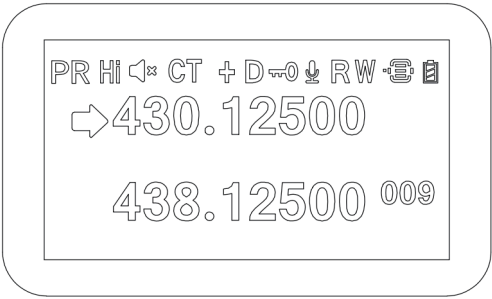
Package Includes	
Items	Quality
Walkie talkie	1
Li-ion battery	1
Antenna	1
Type-C charging cable	1
Hand strap	1
Belt clip	1
Charging base	1
User manual	1



Keypad Description

Icon	Function	Icon	Function
	Shortly press to turn on the menu		Shortly press to exit the current interface
	Long press to lock or unlock keypad		Long press to turn on/off flashlight
	Shortly press to turn on/off whisper mode		Shortly press to turn on/off scan
	Long press to turn on NOAA		Long press to turn on/off monitor
	Flip up		Flip down

Icon Description



Icon	Function	Icon	Function
PR	Private call		Keypad lock
Hi	High power		VOX
	Hidden mode	R	Reverse frequency
CT	CTCSS/DCS	W	Bandwidth
+	Frequency deviation direction		Whisper mode
D	Dual standby		Batter power

Function Description

Power Knob

- 1. Turn the power knob clockwise and hear a "click" sound to turn on the radio;
- 2. Turn the power knob counterclockwise and hear a "click" to turn off the radio.

Push-to-talk

- 1. Press and hold the PTT key to transmit, the indicator turns red. At this time, speak to the microphone, the others will hear your information;
- 2. Release the PTT button to receive the others' speaking information. When receiving the voice information, the indicator turns green.

Volume Adjustment

- 1. Turn the power/volume knob clockwise to increase the volume;
- 2. Rotate the power/volume knob counterclockwise to decrease the volume.

Channel Setting

You can select band A or band B through the menu settings. The factory default is band A, which is the frequency of the first line of the home page. To adjust the channel, press the up and down keys on the keyboard to switch.

CTCSS/DCS

50 CTCSS + 210 DCS. You can use the menu to set the CTCSS/DCS type and adjust the CTCSS/DCS frequency through CPS.

Power Selection

Enter the menu to select the transmit power and switch between high/middle/low power.

Bandwidth Selection

Enter the menu to switch bandwidth. According to the GMRS standard, the 8-14th channel are limited to 12.5kHz, and the remaining channels are able to adjust to 12.5kHz or 20kHz.

Squelch

Menu settings: Level 1-9, OFF. The default level is 3.

The squelch level will determine the signal strength of the radio's speaker. The lower squelch level, the higher background noise of the radio's speaker. The corresponding communication distance will be longer, but the anti-interference ability will be weaker.

VOX

After turning on the VOX function, you don't need to press the PTT key to transmit, the voice will automatically transmit. After stop speaking, it will automatically stop the transmission and enter the receiving state. In some working scenes, it is inconvenient to press the [PTT] key to make a call while your hands are busy handling something else, thus you can enable this function.

a. In the standby state, press the "MENU" key to enter the menu >> Settings >> the 6th option: VOX >> Set the VOX level.

- Turn on VOX and select VOX level 1-9. The larger the value, the higher the sensitivity. The icon is displayed above the screen, and

the factory default is OFF.

- Turn off VOX, the icon will disappear.

b. In the standby state, press the "MENU" key to enter the menu >> Settings >> the 7th option: VOX Delay >> Set the VOX delay time, the factory default is 1.0s, you can adjust the up and down key through the keypad and the single interval is 0.1s.

TOT

Menu setting: The default is 60s, which can be adjusted through the up and down keys of the keypad. The single interval is 15s.

The purpose of TOT is to prevent any radio from talking on one channel for too long and to prevent the radio from being damaged by continuous transmissions. If the sending time exceeds the TOT preset time, the radio will stop sending and send a prompt tone. Release the PTT key to stop the prompt and the radio returns to receiving mode.

Roger Beep

Menu settings: ON/OFF.

Roger Beep, after the transmission is completed, the local radio and the other party's radio send a prompt, indicating that the other party can start talking.

Battery Save

Menu settings: Levels 1-4 adjustable, OFF; the default is 4; the level can also be edited through CPS.

Hunting calls

Menu settings: 7 species optional. After selecting the wanted species, press the menu key again to play the voice once; if you need to play multiple times, repeat the operation.

Voice list: buck, duck, elk, hare, roe deer, wild hogs, wolf.

Scan Setting

Menu settings: several functions combined such as scan mode, scan CTCSS/DCS detection, scan hang time, priority scan channel, channel scan group A or group B.

NOAA Weather Alert

Menu settings: ON/OFF. Side keys can also be defined through CPS.

Radio Information

Enter the menu to find the radio information and open it to check the firmware version.

Customizable Side Keys

Menu settings: Long press/shortly press function customization of the two side keys.

Function list: OFF / Monitor / Frequency sweep / Scan / Voltage / Alarm / Private call / FM / Companding / Sub-PTT / Flashlight / Hidden mode.

Side keys can also be defined by the CPS: OFF / Monitor / Frequency sweep / Scan / Voltage / Alarm / Private call / FM / Companding / Sub-PTT / Flashlight / Hidden mode.

Low Battery Alert

Menu settings: ON/OFF.

When the radio reports the voice prompt "Please charge" and the indicator will turn red, it means that the battery voltage is lower than the working voltage, please charge the radio.

Factory Reset

Menu settings: A confirmation interface "Restore factory settings - Yes/No" pops up. After confirming the restoration of the factory settings, the radio will automatically restart.

Backlight Brightness

Menu settings: Level 1-5 is adjustable, default is level 4.


The higher the screen brightness level, the brighter the screen.

Light Time

Menu setting: Optional 1s to 10s or always on, the default time length is 5s.

When the preset length of time is exceeded, the screen backlight goes out.

Keypad Lock


Long press the  on the upper left side of the radio keypad for 2s, the radio will make a "Lock" prompt and the keypad will be locked.

Repeat the operation, the radio will make a "Unlock" prompt, and the keypad will be unlocked.

Flashlight

Long press the  on the upper of the radio keypad for 3s to turn on flashlight. Repeat the operation to turn off.

Whisper Mode

Shortly press the  on the left side of the radio keypad to turn on the whisper mode. Repeat the operation to turn off.


When turning on whisper mode, keep your mouth away at least 5CM from the microphone and press the PTT key to communicate. The others will receive your information even when you are whispering.

NOAA Weather Broadcast

PS: Please note that the NOAA function is only available in the US.

Long press the left side of the radio for 3s to turn on NOAA to receive weather information.

Scan

Shortly press the  on right side of the radio keypad, and the radio will prompt "Scanning begin". Repeat the operation to turn off scan function and radio will prompt "Scanning stop".

Scanning function refers to a listening method in order to hear calls on all channels, it is realized by making the receiving circuit receive the signal one by one channel in a certain sequence for a certain time.

Monitor

Long press the  on right side of the radio keypad to turn on monitor function. Repeat the operation to turn off.

Monitor is a listening method to receive weak signals. Turn on the receiving signal channel forced and use ears to identify the weak sound in the speakers to achieve the purpose of listening. Sometimes the monitor is also a polite transmission. Before transmitting, first listen to see if there is a call on the channel, and then transmit.

Alarm

Factory default setting: shortly press the upper side key to turn it on, and repeat the operation to turn it off.

FM


Factory default setting: long press the upper side key for 3s to turn it on, and repeat the operation to turn it off. The frequency range of FM is 65-108MHz, which can be adjusted through the up and down keys.

Frequency Sweep

Factory default setting: long press the lower side key for 3s to turn it on, and repeat the operation to turn it off. When scanning the frequency and CTCSS/DCS of the others, please make sure that you and the others are in the same frequency range.

The frequency sweep function can achieve intercommunication between two radios by continuously changing the frequency within a certain range to find signals.

Hidden Mode

Factory default setting: shortly press the lower side key to turn it on, the screen will appear the icon . Repeat the operation to turn it off.

Shortly press the side key set with hidden mode function to turn off all prompt sounds and indicators at the same time; repeat the operation to restore the prompt sounds and indicators.

Specifications

General	
Frequency range	TX GMRS, RX 136-174MHz&400-470MHz
RF power	5W/0.5W
Output power	DC 8.6V 400mA
Input power	Work with adapter (C9034A: DC 5V/1A)
Battery capacity	2200mAh
Antenna	Impedance: 50Ω
Receive	
Sensitivity	≤0.2μV(12dBSINAD)
Audio power	2300mW
Audio distortion	<5%
Intermodulation	≥65dB
Receiver spurious	'-57dBm@ < 1GHz, -47dBm@ > 1GHz
Adjacent channel selectivity	≥70dB@25KHz,≥60dB@12.5KHz
Transmit	
Modulation method	16K0F3E@25KHz,11K0F3E@12.5KHz
Audio distortion	≤5%
Spurious emission	'-36dBm < 1GHz, -30dBm > 1GHz
Adjacent channel power ratio	<-60dB
Audio response	300-3000Hz,+1~3dB

Channel Description

US GMRS: Bandwidth—Narrow 12.5kHz, Wide 20kHz; Handheld radio power—High power 5W, Low power 0.5W.

Channel	Frequency (MHz)	CTCSS/DCS	Bandwidth	Power
1	462.5625	67.0	Default wide, wide/narrowband adjustable	Default high power, high/low power adjustable
2	462.5625	118.8		
3	462.6125	127.3		
4	462.6375	131.8		
5	462.6625	136.5		
6	462.6875	141.3		
7	462.7125	146.2		
8	467.5625	D243N	Default narrow, not adjustable	Default low power, not adjustable
9	467.5875	D032N		
10	467.6125	D047N		
11	467.6375	D051N		
12	467.6625	D053N		
13	467.6875	D065N		
14	467.7125	D116N		
15	462.5500	123.0	Default wide, wide/narrowband adjustable	Default high power, high/low power adjustable
16	462.5750	D743I		
17	462.6000	D332I		
18	462.6250	127.3		
19	462.6500	D243I		
20	462.6750	D606N		
21	462.7000	D731I		
22	462.7250	136.5		
23	TX:467.5500/RX:462.5500	\		
24	TX:467.5750/RX:462.5750	\		
25	TX:467.6000/RX:462.6000	\		
26	TX:467.6250/RX:462.6250	\		
27	TX:467.6500/RX:462.6500	\		
28	TX:467.6750/RX:462.6750	\		
29	TX:467.7000/RX:462.7000	\		
30	TX:467.7250/RX:462.7250	\		

NOAA Channels

NOAA	
Channel	Frequency (MHz)
WX1	162.550
WX2	162.400
WX3	162.475
WX4	162.425
WX5	162.450
WX6	162.500
WX7	162.525
WX8	161.650
WX9	161.750
WX10	161.775
WX11	162.000
WX12	163.275
#WX8-WX12 frequency order and inclusion varies	

Warnings

Caution

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE

Before using this device, please read this guide which contains important operating instructions for safe usage, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards. User's instructions should accompany the device when transferred to other users.

GMRS

This two-way radio is a GMRS station. A valid individual license is required to operate a GMRS station. To obtain an individual license, an applicant must be eligible and follow the applicable rules and procedures established by FCC. The applicant must pay the required application and regulatory fees. Each individual license in the GMRS will normally have a term of ten years from the date of grant or renewal, and may be renewed pursuant to the procedures of FCC. To obtain a GMRS operator license, you need FCC Form 605 & 159, we suggest visiting the FCC website at <https://www.fcc.gov/wireless/support/fcc-form-605>, which includes necessary instructions. More questions about the license application, please contact the FCC at 1-888-225-5322 or go to the FCC's website: <http://www.fcc.gov>. Note: according to FCC rules, any individual who holds an individual GMRS license may allow his or her immediate family members to operate his or her GMRS station or stations. Immediate family members are the licensee's spouse, children, grandchildren, stepchildren, parents, grandparents, stepparents, brothers, sisters, aunts, uncles, nieces, nephews, and in-laws.

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Note: this equipment has been tested and found to comply with the limits for a Class A digital device. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radio license

Governments keep the radios in classification. Two-way radios are only operated on authorized radio frequencies that are regulated by the local radio management departments (such as FCC, ISED, OFCOM, ANFR, BFTK, Bundesnetzagentur, and so on.). The detailed classification and the use of your two-way 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.

Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that all electrical and electronic products, batteries, or accumulators 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 and rules in your area.



RF safety

This two-way 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. 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/>

Transmit no more than the rated duty factor 50% of the time. Transmitting necessary information or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of measuring for standards compliance. For users who wish to further reduce their exposure, some effective measures to reduce RF exposure include:

- Reduce the amount of time spent using your wireless device.
- Use a speakerphone, earpiece, headset, or other hands-free accessory to reduce proximity to the head (and thus head exposure). While wired earpieces may conduct some energy to the head and wireless earpieces also emit a small amount of RF energy, both wired and wireless earpieces remove the greatest source of RF energy (handheld device) from proximity to the head and thus can greatly reduce total exposure to the head.
- Increase the distance between wireless devices and your body.

This radio is designed for and classified as "Occupational/Controlled Use Only". Occupational/Controlled environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential of exposure, for example, as a result of employment or occupation. It means a radio must be used only by individuals aware of the hazards, and the ways to minimize such hazards; Not intended for use in a General population/uncontrolled environment.

To control your exposure and ensure compliance with the controlled environment exposure limits, always adhere to the following procedure:

- To receive calls, release the PTT button.
- To transmit (talk), press the Push-to-Talk (PTT) button in front of the face.
- Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least one inch (2.5 centimeters) away from the nose or lips.

Electromagnetic Interference/Compatibility

Persons with pacemakers, implantable cardioverter defibrillators (ICDs) or other active implantable medical devices should:

- Consult with their physicians regarding the potential risk of interference from radio frequency transmitters, such as portable radios (poorly shielded medical devices may be more susceptible to interference).
- Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.
- Do not carry the radio in a chest pocket or near the implantation site, and carry or use the radio on the opposite side of the body from the implantable device to minimize the potential for interference.

Hearing Aids: Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices: If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW

Turn off your radio in the following conditions

Turn off your radio prior to entering any area with a potentially hazardous or explosive atmosphere. Only radio types that are especially qualified should be used in such areas as "Intrinsically Safe".

Note: the areas with potentially explosive atmosphere referred to above include blasting caps, blasting areas, inflammable gas, dust particles, metallic powders, grain powders, fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles (such as grain, dust or metal powders) and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often – but not always posted.

Protect your hearing

- Use the lowest volume necessary to do your job. Turn up the volume only if you are in noisy surroundings.

- 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 carefully with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss. CAUTION: 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.

Batteries Safety

WARNING: KEEP NEW OR OLD USED BATTERIES OUT OF REACH OF CHILDREN

In the event of a battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice immediately.

Since batteries are sensitive to high temperatures when storing them, keep them in a cool and dry place. The recommended temperature should be between +10 °C and +25 °C and never exceed +30 °C. Batteries should therefore not be stored next to radiators or boilers nor in direct sunlight. Extremes of humidity (below 35% and above 95% relative humidity for sustained periods should be avoided since they are detrimental to both batteries and packing. Although the storage life of batteries at room temperature is good, storage is improved at lower temperatures provided special precautions are taken. Also, accelerated warming is harmful.

Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

Turn off your radio before removing or installing a battery. Store spare batteries securely. Dispose of used batteries immediately and safely.

The battery supply terminals are not to be short-circuit.

Do not replace the battery in any area labeled "Hazardous Atmosphere". Any sparks created in a potentially explosive atmosphere can cause explosion or fire.

Dirty battery contacts need to be wiped with clean dry cloth, both on the battery and in the appliance.

Batteries should be removed from the appliance when not being used for long periods of time (months). The batteries should be enclosed in special protective packaging (such as sealed plastic bags or variants) which should be retained to protect them from condensation during the time they are warming to ambient temperature.

Exhausted batteries are to be removed from the equipment.

Do not dismantle, open or shred batteries. Batteries should be dismantled only by trained people.

Disposal of a battery into fire, or a hot oven, or mechanically crushing or cutting of a battery, that can result in explosion.

Rechargeable batteries need to be charged with a dedicated charger provided for each piece of equipment before you first use them.

Rechargeable batteries are only to be charged by adults.

WARNING: CHOKING HAZARD-Small Parts. Not suitable for children under 3 years old

The plug of the adapter is considered a disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.

Contact Retevis for assistance regarding repairs and service.

For a list of Retevis-approved accessories for your radio model, visit the website: <http://www.Retevis.com>

Guarantee

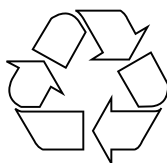
Model Number: _____
Serial Number: _____
Purchasing Date: _____
Dealer: _____ Telephone: _____
User's Name: _____ Telephone: _____
Country: _____ Address: _____
Post Code: _____ Email: _____

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. Further details, pls read <http://www.retevis.com/after-sale/>
- 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.



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MADE IN CHINA