

In-Ear Hearing Aids User Manual

Model #: T008

Thank you for purchasing our hearing Aids. Please kindly read this instruction carefully before using the hearing aid.

The instruction intended to inform the user of important operating steps that must be kept in mind when using, incorrect operations that may cause abnormalities in the hearing aid, and dangerous operations that may cause harm to the hearing aid or the user.

We want the best possible experience for you!

Before Using

In the event of any irregularities or dangerous injuries to the person or machine caused by any incorrect operation which must be avoided as shown in this statement, our company will not be responsible for the safety, reliability, and performance guarantee commitment. The information is that changes to the information will be reflected in the updated version. We do not assume any responsibility for the software or equipment that is not provided by us or our distributors.

Notes

【Requirements for the environment and location】

- Keep away from electronic equipment, high-frequency electrical radiation sources, etc., to avoid interference during use.
- Avoid moisture or contact with water, extreme air pressure, excessive humidity and temperature, poor ventilation and alkaline dust or acid gas.

【Precautions before using】

- Check whether the hearing aid is in good operating condition.
- Check if wear the hearing aid correctly.
- Check whether the hearing aid and the accessories are work properly.
- The hearing aid is for personal use. Please follow the connection steps and methods to operate it correctly. Do not connect the hearing aid to other devices.

- The hearing aid can be used repeatedly, please disinfect according to the manual.

【Precautions during operation】

- In order to extend the using time, remove the charging cable in time to end charging.

【Requirements after Power Off】

- Take off the hearing aid gently, clean the surface and earplugs, let it dry naturally.
- Clean the hearing aid and accessories.
- Put the hearing aid into the charging box in time after use.

Other Notes:

- Moisture proof, shockproof and heat proof.
- Do not immerse the hearing aid in any liquid. Take off the hearing aid before swimming, washing your hair and taking bath; after swimming or taking bath, wait for the ear canal dry, then putting on the hearing aid.
- After taking off the hearing aid, should place in the charging case, avoid light, high temperature, high humidity environment, dropping or touching.
- Keep the hearing aid outer surface clean, and clean the earwax in the earplugs frequently.
- Use hearing aid correctly and gently, should open and close as gently as possible to avoid excessive force.
- Stop using hearing aid immediately if you feel discomfort in your ears.

- Do not place the hearing aid in a place that can be reached by infants and young children. If swallowed accidentally, seek medical attention immediately.

- Please use the hearing aids together with charging case.

- Please charge the hearing aids regularly when not using, to avoid battery damage; recommended to charge the hearing aids within 28 days, and within 90 days for the hearing aid charging box.

- The scrapping and disposal of products shall also be carried out in accordance with the relevant laws and regulations of the state.

【Accessories Requirements】

The device and accessories used in combo are only approved by our company. If used non-approved equipment or accessories may affect the design and safety of the hearing aid. Our company will not bear any legal liability for personal injury or economic loss caused!

【Personnel Requirements】

- The user should read the instruction manual carefully before using the device.
- Stop wearing hearing aids if you have an ear injury, inflammation or if you feel pain after wearing them, consult and seek medical advice if the situation does not improve.
- At some first time wearing, some users will have ear blockage, their own loud voice, generally, gradually adapt within three months.

【Warning】

- Avoid storage of chemicals or places where there is a risk of gas leakage.

- Do not use the hearing aid in the hyperbaric oxygen chamber, otherwise it will cause explosion or fire.
- Do not use this hearing aid in the vicinity of any flammable anesthetic or in the environment to prevent potential explosion caused by electric arcs.

- Do not use hearing aid in the radiation environment of NMR or CT scanners. This type of radiation (such as burglar alarms, room monitor systems, radios, mobile phones) does not cause damage to the hearing aid, but can affect sound quality or cause the hearing aid to produce other sounds.

- The safety of using this hearing aid during pregnancy or childbirth has not been confirmed.

- Do not try to open the hearing aid's case to avoid possible hazards. Any repairs and upgrades to hearing aids must be carried out by trained personnel and authorized by our company.

- Hair Gel, face cream and other cosmetics may damage the hearing aid, should remove the hearing aid before makeup.

- In mining areas or explosion situations, please turn off your hearing aids and use them only after making sure they are safe.

Product Introduction

【In-Ear Hearing Aid】

【Working Principle】

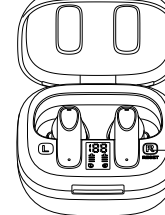
The hearing aid adopts digital mode in the signal processing part. The received sound signal (analog signal) is converted into a digital signal, and after a series of processing and amplification, and then converted to analog sound signal for output.

【Suitable for Adults】

【Application Scope】 Suitable for hearing compensation for patients with conductive hearing loss.

Reset

- If only one earbud play music or make call, it indicates that the product is in single-ear mode. Need to restore, put both L&R earbuds into the charging box at the same time, press the Reset button for 5 seconds, LED display will flash for 5 times, means Reset completed.



【Note】 Make sure both L&R earbuds are well connected to the charging box.

Contraindications

- Congenital aural atresia or external auditory meatus malformation, external auditory meatus with many obstructions.

- The condition of deafness is unstable and the degree of hearing loss often fluctuates.

- Chief complaints accompanied by headache, dizziness, Earache, tinnitus, and other maladaptive symptoms obvious.

- Recently 3 months, sudden deafness, progressive rapid deafness, unilateral deafness or other acute ear diseases were found.

- Middle ear effusion and frequent pus flow.

- Central deafness, non-qualitative deafness.

- Patients with acute external auditory canal inflammation and tympanitis.

- Patients with acute or chronic suppurative otitis media (in the septic phase) .

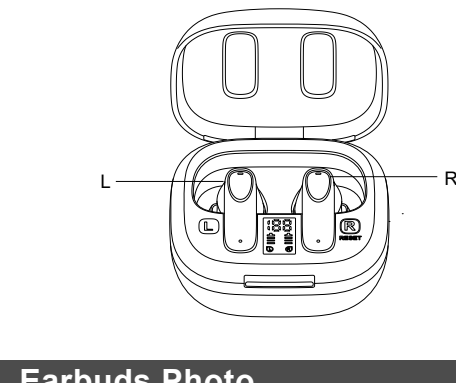
- Persons who are allergic to the product's materials.

- Patients with high degree of conductive hearing loss and ineffective air-conductive hearing aids.

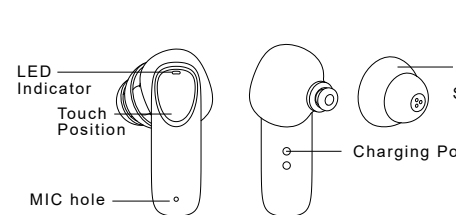
Photo Profile

The product consists of earplugs x 6pcs(S,M,L), charging case, USB cable and earbud x 2 pcs, the earbuds consists of MIC, speakers, signal amplifier (circuit), shell and battery.

Charging Case and Earbuds



Earbuds Photo



Function Introduction

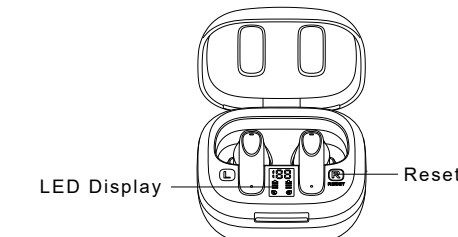
| | |
|----------------|---|
| Operation Mode | Touch Button |
| Gear Level | T1/T2/T3/T4 |
| Mode Switch | Double click to switch through three modes |
| Power ON/OFF | Automatically power on when take earbuds from the charging case, and automatically power off when put earbuds back to the case. |

Easy Operation

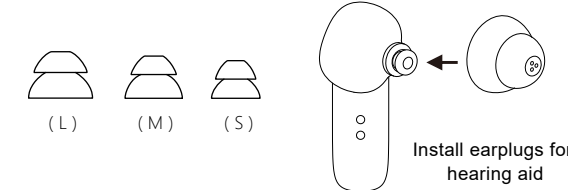
- Take out the hearing aid from the charging case and will turn on automatically. After 10 seconds, the hearing aid will start working. Touch the button area to adjust the volume level. There will be a "Beep,Beep" sound for each switch, the loudest sound is "Beep,Beep,Beep".
- Mode one: one "Beep".

- Mode two: two "Beep,Beep".

- Mode three: three "Beep Beep Beep".



- Select the most suitable earplugs size from the three sizes (S,M,L) earplugs, and install onto the hearing aids.



- Wear the hearing until it is close to the ear canal, the hearing aid will not fall off from the ear canal, until it feels comfortable.
- Gently touch the key area and adjust the hearing aid and feel the volume, until adjust to the appropriate volume.

- Answer call: tap the touch button
- Reject call: press and hold for 2seconds

- Hang up call: during the call, press and hold the touch button for 2seconds

- Charging: the LED is stable lighting when the hearing aids is charging.
- When fully charged, and it will be in ultra-low power consumption automatic.

【Attention】

The hearing aids can repeat used. Please follow the methods for cleaning, disinfection, and maintenance methods.

- Hearing aids howling before they are well worn, it's is normal. A sign that hearing aid is worn correctly that it does not howling. If your hearing aid howling, check to see if you wear hearing aid correctly. If wear correctly, replace another appropriate size earplug.
- When not use, please put the hearing aid into the charging box in time.

【Additional Explanation】

When the hearing aid is using (T1/T2/T3/T4) , there will be two "Beeps,Beeps" for each gear change, and three "Beeps,Beeps, Beeps" for T4. If the left and right ears can not be paired as group, please put L&R earbuds into the charging box and do the Reset mentioned Reset Step.

Maintenance

Hearing aids are precision and sensitive electronic devices, regularly clean, remove ear wax, ear debris, proper maintenance can ensure the life of hearing aids and reliability

【Clean and disinfect of earplugs】

Remove the earplugs from the hearing aid, rinse with water, or wipe with alcohol, and let them dry before installing them on the hearing aid.

【Clean Method】

Use soft cloth, dry cotton flowers or sponge wipe, make sure that no liquid enters the hearing aid and the charging case.

【Check Maintenance】

Before using, check the following inspections:

- Check for any mechanical damage.

- Check for any distortion.
- Check the hearing aid for abnormalities.
- If found some damaged, not use the hearing aid.
- After every repair, the equipment must be completed by qualified personnel.
- General inspections, including functional safety inspection, all tests that require hearing aids to be opened must be performed by the professional personnel.
- Safety and maintenance checks can also be carried out by our personnel.

Trouble Shooting

| Symptoms | Analysis | Method |
|------------------------------|---|---|
| Hearing aid no sound | No battery | Recharge |
| | Sound outlet or microphone blocked | the sound outlet or microphone |
| | Broken ON/OFF button | Replace hearing aids |
| Voice is weak and indistinct | Poor contact between battery and battery spring | To repair |
| | Low battery | Recharge |
| | Inappropriate gain file | Adjust gear |
| Howling | Loose earplugs | Check the earbuds position Tighten and wear again |
| | Excessive foreign objects in the ear canal | Clean ear canal |
| | Incorrect wear of the main host | Take it out and wear it again |
| | Volume too high | Downshift |

| | | |
|---|--|---|
| LED indicator not light when put hearing aid in the charging case | Poor contact between the hearing aid and the charging case | Re-put hearing aid into the charging case |
| LED not work | No plugged in | Connect USB cable to charge |

Note: If above problems cannot be solved and used after following the above guidelines, please contact the manufacturer or the nearest after-sales service team.

Clean, Disinfect and Maintenance

【Regularly Clean】

The outer surface of the equipment can be wiped with a dry cloth. To avoid damaging the hearing aid, please follow the following specifications:

- Don't use cleaning substances containing wax.

- Never Sprinkle or spray water or any cleaning solution onto the hearing aid or allow liquid to flow into the back of the switch into the connector or into any interface in the hearing aid.

- Caution: failure to comply with the above specifications may result in melting, distorting, or passivizing the coating of the enclosure, blurring the text on the label, or causing hearing aid failure.

【Charging box cleaning and disinfection and maintenance】

- Before disinfection Clean it with lint-free damp cloth, dip into mild soap water (diluted).

- After cleaning, use 75% ethanol (medical alcohol) as disinfectant to clean. Spray the disinfectant evenly onto the surface, keep it wet or wipe the electrode surface 2 times and

- keep for 3 minutes
- Evenly spray the disinfectant on the external surface of the charging box to keep it wet or Wipe the electrode surface twice and leave for 3 minutes after wiping
- Tidy up the hearing aid after each use and do a visual inspection, timely find the components damage to make timely replacement

Service and Repair Processes

- Our company provide a high level of production process for the product, so product require less maintenance. And advises users to have their hearing aids serviced regularly every year. Do atleast once a year. Complex tests and calibration should be sent back to our company
- The circuit and other information will only be provided for the maintenance personnel approved by our company.

Transport and Storage

【Working Conditions】

- Working Temperature: 0℃~40℃；
- Relative humidity range: <80%；
- Atmospheric pressure: 860hPa~1060hPa

【Storage Conditions】

- Storage Temperature: -10℃~55℃；
- Relative humidity range: <90%；
- Atmospheric pressure: 500hPa~1500hPa

【Handle gently to avoid product collision or strong impact】

Packing List

Model #: T012

| Seq | Components | Name | Quantity (pcs) | Service life (replacement cycle) |
|-----|------------------|--------------------|----------------|----------------------------------|
| 1 | Major Components | Hearing aid | 2 | 3 Years |
| 2 | | USB Cable | 1 | 1 Years |
| 3 | | Earplugs | 6 | When unable to seal |
| 4 | | Charging Case | 1 | 3 Years |
| 5 | | Warranty Card | 1 | / |
| 6 | Accessories | Certificate card | 1 | / |
| 7 | | Instructions Manua | 1 | / |

Parameters

The intelligent digital hearing aid converts the sound signal picked up by the microphone into a continuously changing electrical signal, which is filtered, noise reduction,

【Hearing Aid Parameter】

| | |
|-------------------------------------|----------------------------------|
| Model # | T012 |
| Max. OSPL90 | <1413dB±3 |
| High frequency amplifier HFA OSPL90 | HFA-105dB±4dB |
| Working Current | <=10mA |
| Rated voltage | DC/3.7V |
| Sound gain | FOG50 HFA 30dB±5dB |
| Noise reduction | >28dB±2dB |
| Frequenz | 300Hz~5KHz |
| BT version | 5.3 |
| Channels | 16 |
| Multiples enhance | 30 |
| EQ Input Noise | <25dB |
| Total harmonic wave distortion | <3% |
| The Self-generated noise value | <29dB |
| Latency value | <15ms |
| Frequency response smoothness | <12dB to the peak |
| Fitting range | best for mild hearing loss |
| Adaptive mode | 3 modes |
| Earbuds Battery capacity | 55mAh*2 rechargeable Lithium |
| Charging box battery capacity | 650mAh rechargeable Lithium |
| Work time | >8hrs, >40hrs with charging case |
| Working temperature | 0℃~40℃ |
| Relative humidity range | <80% |
| Atmospheric pressure range | 860hPa~1060hPa |
| Waterproof | IPX5 |

【Charging Box Parameter】

| | |
|----------------------------------|---------|
| Charging Current | ≤300mA |
| Rated voltage | DC/3.7V |
| Input | DC/5V1A |
| Discharge current to hearing aid | DC/5V |

Equipment Security

- Use a charger (specification: DC 5V 1A or above) that meets the requirements of National Safety Code GB9706.1-2007. When fully charged, please unplug the charging cable in time to prevent the battery from overcharging.
- In daily use should not frequent short-circuit input and output.
- Lithium batteries must be recycled and treated in accordance with local laws.

- Lithium battery environment and maintenance methods: suitable temperature, charging temperature is 0 ° C ~ 45 ° C, discharge temperature is -20 ° C ~ 60 ° C; avoid contact with corrosive substances and keep away from fire and heat sources.
- When not used hearing aids for a long time, it is necessary to do a charge-discharge cycle each three months to ensure the original performance. Actual battery usage may vary, depends on how often the battery is used, and how often it is charged & discharged.

- When opened or burned, the battery may explode or leak, cause damage.
- When the battery performance not normal, such as a long-time charging can only be used for a short time, temperature is too high when charging or using, should contact our company after-sale service team in time.

Warning

Not use our included accessories, sensors, or USB cable, may increase the electromagnetic emission of hearing aids, or reduce the electromagnetic immunity of hearing aids.

It is our duty to accompany more and serve our customers well. We are happy to provide you a full set of pre-sale and after-sale services.

Warranty: 1 year from the purchase date for hearing aid with non-artificial damage. (Charge USB cable is consumable item, warranty is 6months)

Warranty Card

- Note: Do not put hearing aids close to or on top of other devices. Need to be specially protected for EMC electromagnetic netic compatibility, and they need to be installed and maintained in an environment that meets the following EMC electromagnetic compatibility condition.

- Hearing aids should be used in the prescribed electromag work of hearing aids, customer or user should ensure the use of hearing aids in the following prescribed electromagnetic environment.

| Form I Guidelines and statements for electromagnetic emission | | |
|---|------------|--|
| Emision Test | Conformity | Electromagnetic environment-guidelines |
| RF Emission GB4824 | 1 | Hearing aids use radio-frequency energy only to perform their internal functions, so the radio-frequency emission is quite accurate and does not cause any electromagnetic interference to the electronic devices in their vicinity. |
| RF Emission GB4824 | B | |
| IEC61000-3-2 Harmonic radiation | B | Hearing aids for public residential low-voltage power grid connection, but only to do charging, device cannot be power on when charging. |
| Voltage fluctuations and scintillation IEC61000-3-3 | Conformity | |

FCC STATEMENT

1. 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.

2. 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 the 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 to a power outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

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

| Form II Guidelines and statements for electromagnetic emission | | |
|--|----------------------|-----------------|
| Anti interference test | IEC60601 Tests level | Meet test level |
| Conducted anti-interference IEC61000-4-6 | 3Vrms 150K~80M Hz | 3Vrms |
| Conducted anti-interference IEC61000-4-3 | 3V/m 80M~2.5GHz | 3Vrms |

Note 1: in 80MHz ~ 800MHz, the formula of higher frequency band is adopted.

Note 2: the above guidelines are not applicable in all cases, as the structure of matter, objects and people can absorb and reflect electromagnetic waves and affect electromagnetic propagation.

A the field strength of base stations and ground mobile radio receivers, antennas, receivers, FM and AM radio broadcasts and television broadcasts of cellular and wireless mobile phones is not possible using pure theory, the method to accurately estimate. To evaluate the electromagnetic environment generated by a fixed RF transmitter. The use of EMF measurement is recommended. If the measured field strength of the equipment exceeds the specified RF level, it is necessary to observe whether the equipment can work properly. Once an anomaly is detected, measures must be taken, such as redirecting the device or moving it to another environment.

B in the frequency range of 150K ~ 80MHz, the field strength should be less than 3V/m.

| Form III Recommended distance between hearing aids and portable/Mobile RF communication devices | | |
|---|--------------------------|----------------------------|
| Transmitter's rated maximum output power | 150KHz~2M Hz d=1.2×√P | 80M Hz~800M Hz d=1.2×√P |
| 0.01 | 0.12 | 0.12 |
| 0.1 | 0.37 | 0.37 |
| 1 | 1.17 | 1.17 |
| 10 | 3.69 | 3.69 |
| 100 | 11.67 | 11.67 |

If the transmitter's rated maximum output power is not included in the values given above, the distance can be estimated by using the equations in the corresponding column.

Tip: P is the rated maximum output power, amount in Watts.

Note 1: in 80MHz ~ 800MHz, adopted the formula of higher frequency band.

Note 2: The above guidelines are not applicable in all cases, as the structure of matter, objects and people can absorb and reflect electromagnetic waves and affect electromagnetic propagation.

Notes:

- Not to use or adjust devices according to guidelines, may result in harmful radiation exposure.

- High-power devices will cause electromagnetic interference to hearing aids. Consult your doctor when using similar devices. The electrical compatibility of hearing aids conforms to GB/T25102.13

-2010 electrostatic hearing aids-part 13: Electromagnetic compatibility (EMC) and has passed the EMC test.

| Hearing aids meet the requirements of GB/T25102.13-2010 hearing aids immunity RF test signal field strength frequency range | | | | | | |
|---|--|----------|----------|---------|---------|--|
| Item Requests | Proximity compatibility when in below field strength, IRL ≤ 5.5 dB, expressed in V/M | | | | | |
| G H | 0.08~0.8 | 0.8~0.96 | 0.96~1.4 | 1.4~2.0 | 2.0~3.0 | |
| Microphone mode | / | 3 | / | 2 | / | |
| Pickup coil mode | / | 3 | / | 2 | / | |
| Direction transmission mode | / | 3 | / | 2 | / | |

After Sales Service