

# Product Operation Manual

## Hearing Aids

Thank you for purchasing our digital ear back hearing aid. The digital ear back hearing aid is exquisite and compact, with low sound distortion, and can meet your needs well. If you have any questions, you can ask the local seller, who will be happy to help you. Or ask our technical service department directly. Please read the user manual carefully before use and use it under the guidance of a doctor.

[Product Name]

Digital earback hearing aid

[Model and Specification]

KD-17

[Structure Composition]

It is composed of host, earplug and charging box.

The operation function structure is shown in the figure below:



(KD-17、KD-17A)

1. Earplugs
2. Audio duct
3. Earhook
4. Microphone
5. Volume - (long press is on/off key)
6. Volume+(long press is the mode adjustment key)
7. Charging contact



(KD-15、KD-15A、KD-16、KD-16A)

1. Earplugs
2. Headset
3. Earhook
4. Microphone
5. Volume - (long press is on/off key)
6. Volume+(long press is the mode adjustment key)
7. Charging contact

### [Working principle]

The signal processing part is digital, that is, the received sound signal (analog signal) is converted into digital signal, and then a series of processing is carried out. After amplification, it is converted into analog sound signal for output.

### [Scope of Application]

Experience matching is used to compensate the hearing of patients with air conductive hearing loss.

## Security Information Classification

1. Classification according to the type of electric shock prevention:  
internal power supply;
2. Classification according to the degree of electric shock prevention:  
Type B application part;
3. Classified according to the degree of protection against incoming  
liquid: ordinary equipment;
4. Classified according to the safety degree when using flammable  
anesthetic gas mixed with air or oxygen or nitrous oxide: it belongs  
to equipment that cannot be used under these two conditions;
5. Classification by operation mode: continuous operation equipment;
6. Rated voltage of equipment: d.c. 3.7V;
7. Whether the equipment has the application part of protection against  
defibrillation discharge effect: No;
8. Signal input and output: None;
9. Permanently installed equipment or non permanently installed  
equipment: non permanently installed equipment.

## Product Performance

1. Electro acoustic performance

The electroacoustic performance of the product shall comply with the provisions in Table 1, and the rated power current shall not be greater than 120% of the nominal value.

## 2. Electro acoustic performance after environmental test

2.1 Output sound pressure level (OSPL90) when the input sound pressure level is 90dB: the difference between the measured values before and after the environmental test shall not be greater than  $\pm 3$ dB.

2.2 Full range sound gain: the difference between the measured values before and after the environmental test shall not be greater than  $\pm 4$ dB.

2.3 Equivalent input noise level: the detection value shall not be greater than 35dB.

2.4 Total harmonic distortion: the detected value shall not be greater than 12%.

[Contraindications]

- 1) Congenital atresia or malformation of the external auditory canal, and a large number of foreign bodies in the external auditory canal;
- 2) The deafness is unstable and the degree of hearing loss often fluctuates;
- 3) The chief complaint is accompanied by obvious maladaptive symptoms such as headache, dizziness, earache, tinnitus, etc;
- 4) Sudden deafness in recent 3 months; Progressive rapid deafness; Obvious unilateral deafness or other acute ear diseases at the same time;
- 5) Middle ear effusion and recurrent pus;
- 6) Central deafness; Non organic deafness;
- 7) Minor hearing loss;
- 8) Patients with acute otitis externa and tympanitis;
- 9) Patients with acute and chronic suppurative otitis media (in the stage of suppurative infection);
- 10) Patients who are allergic to this material.

[Notes, warnings and tips]

1. Read the instruction manual carefully and completely before use.

2. Before hearing aid fitting, professional examination and hearing test shall be carried out, and the hearing aid shall be used under the guidance of a doctor or a professional hearing aid fitter.
3. Earplugs of appropriate size shall be selected and tightly plugged to prevent hearing aids from howling;
4. Do not put the hearing aid in the place where infants can reach.
5. Properly use the function and gradually increase the volume to avoid damaging the ears when the volume suddenly increases; Please shut down when not in use;
6. Keep the outer surface of the hearing aid clean. The earplug is reusable. Please clean the earplug regularly to ensure the normal use of the hearing aid;
7. Do not immerse the hearing aid in any liquid. Remove the hearing aid before swimming, shampooing, bathing or spraying hair gel. After swimming or washing, wear the hearing aid after the ear canal is dry.
8. It shall be shockproof, moisture-proof, high temperature resistant, and avoid direct sunlight exposure;
9. Keep away from strong magnetic field, noise source, chemicals, etc;

10. Please use hearing aids regularly and go through a 3–6 month adaptation period;

11. If you feel uncomfortable with your ears during use, please stop using immediately.

12. Hearing aids shall be maintained and checked regularly to ensure that they are in good condition.

13. After using for a period of time, in case of low volume, loud noise, distortion and other phenomena, the battery shall be charged in time

14. When the hearing aid is not used, please charge the product regularly to avoid battery damage; The recommended charging interval for hearing aids is  $\leq 30$  days.

**[Other precautions]**

1) Do not put the battery into fire to avoid explosion.

2) Hearing aids can only be used by people with hearing loss, and others are not recommended.

3) Special users: Children should wear the hearing aid with the help of adults. For the use of hearing aids by the mentally ill, please consult the doctor.

**Product Instructions**

1. Ear plugs

Hold the earplug with the index finger and thumb, and carefully

insert it into the ear canal. The earplug and ear canal should be closed.

## 2. Hearing aid wearing

Put the hearing aid on the ear, with the ear hook and the main body flat against the ear.

## 3. Turn hearing aid on/off

In the off state, press and hold the "Volume -" key to turn on the hearing aid; In the power on state, long press the "Volume -" key to turn off the hearing aid.

## 4. Adjust volume

In the power on state, briefly press the "Volume+" button to increase the volume of the product. When the volume reaches the maximum, there will be two prompts: "beep" and "beep"; Press the "Volume -" key briefly to adjust the volume of the product. When the volume reaches the minimum, there will be two prompts, "beep" and "beep".

## 1. Listening mode

Long press the "Volume+" button to switch the listening mode:

## 6. Bluetooth connection (only applicable to KD-15, KD-16 and KD-17)

Long press the key "Dup. Dup. Dup" for three times, turn on the smartphone Bluetooth to search for paired Bluetooth.

After successful Bluetooth pairing, the hearing aid can:

- a. Answering mobile phone calls
- b. Listen to music from your phone.



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

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.
- 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.

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

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