



User's Guide

Introduction:
The digital hearing aid produced by our company is a high-tech product integrating advanced medicine and electronics. The system hardware is based on the **MEMS** chip, and the hearing aid function is realized through various software **algorithms**. The basic principle of digital hearing aids is to use **digital-signal processing** technology to maximize the use of the user's residual hearing, so that the hearing-impaired patients can hear the **original sound**. Through the compensation and adjustment of hearing impairment in different frequency bands, individual hearing compensation can be satisfied.

Introduction:
Name: **SaidHears** hearing aid
Model specifications are shown in Table 1.

FCC ID: PWK-HB15

Structure composition:
The HB15 wear hearing aid is composed of earplugs, charging box, battery and belt.

Working principle:
The voice sensor converts the sound information into **electrical signals**, which are processed by the **analog chip** and then transmitted to the receiver and output through the **sound tube**. The signal processing adopts the principle of **analog signal amplification**.

The scope of application

After fitting, it can be used to compensate hearing for patients with an **audible hearing loss**.

Model specification	HB15
MAX OSPL ₁	<117dBdB
High frequency average OSPL ₁	100dB-110dB
Full range output gain	30dB-15dB
Equivalent input noise level	<20dB-30dB
Frequency response range	45Hz-93Hz
Frequency response range (1/3 Oct. bandwidth)	200Hz-8000Hz
Stand power supply current consumption	<5mA

Model	Charging box
Working current	<10mA
Charging voltage	3.7V
Charging box input voltage	5V
Auxiliary hearing device charging voltage	<50mA
Auxiliary hearing device charging voltage	<5V

5. Product performance

1. Appearance and structure
- 1.1 All parts should be fully assembled and fixed reliably.
- 1.2 The lens, symbols or marks should be clear, correct and firm.
- 1.3 The surface should be free of burrs, bubbles, scratches and other defects.
- 1.4 The connection of each component should be reliable and effective.
- 1.5 The operation of various adjustment buttons, switches, and other mechanisms should be **flexible** and effective.

6. Contraindications

- 1) Congenital anomalies of the external ear or malformation of the external auditory canal, a large number of foreign bodies in the external auditory canal.
- 2) Deafness is unstable, and the degree of hearing loss often fluctuates.
- 3) The chief complaint is accompanied by obvious symptoms such as Meniere's disease, vertigo, tinnitus, etc.
- 4) Sudden deafness in the past 3 months. Progressive rapid deafness. Obvious unilateral deafness or other acute ear diseases of the same type.
- 5) Chronic ear infection and frequent discharge of pus.
- 6) Central deafness, nonorganic deafness.
- 7) Patients with acute otitis media and tympanitis.
- 8) Patients with acute and chronic suppurative otitis media (in the period of acute infection).
- 9) Patients who are allergic to the materials of this product.

7. Matters needing attention, warnings and tips

1. Before using the auxiliary hearing device, it should undergo a professional inspection and hearing test, and use it under the guidance of a doctor or a professional hearing aid technician.
 2. Pay attention to the product maintenance, use and care of the hearing aid before wearing or wearing out for the first time, after wearing or wearing, and until the use ends by taking out of the hearing aid.
 3. Do not remove the hearing aid in any place. Remove the hearing aid before entering or exiting the car or other noisy or vibrating, and until the use ends by taking out of the hearing aid.
 4. After wearing the auxiliary hearing device at night, it should be placed on a box with desiccant, protected from light, high temperature and high humidity, and avoiding oil stains.
 5. Use the function and volume control switch correctly, try to turn on and off **softly** to avoid excessive noise.
 6. The hearing aid should be kept in the fitting center for maintenance and inspection, on a regular basis to ensure that the hearing aid is in good condition.
 7. If you feel uncomfortable in your ear during use, please stop using it immediately, do not adjust the hearing aid in a place where dusts and strong odors can reach it.
 8. If **irritation** occurs, use medical ointment immediately.
 9. **Headphones** require more hearing than the hearing aid.
 10. **Headphones** require more hearing than the hearing aid.
 11. When you are not using the hearing aid, please charge the product regularly to avoid battery damage. The recommended charging interval for the hearing aid is less than 28 days.
- The recommended charging time interval for the auxiliary hearing device charging box is 90 days.

8. Operation guide for hearing aid mode:

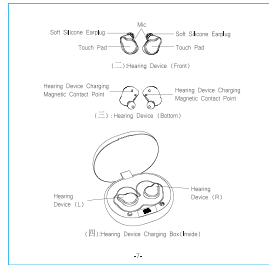
1. Power on. Take out the hearing device from the charging box. (Please Note: Begin to hear power one minute after the power is on, after six weeks, automatically power on and enter hearing aid and Bluetooth mode.)
2. Press the **volume** button on the left panel to enter the volume control operation. (From the signal tone because One is the minimum volume. Max volume will be perceived. Know the **MAX** setting.)
3. To increase the volume, press the **up** button on any side of the touch panel. (Voice control: Know the **MAX** setting.)
4. To meet the **MAX** setting, press any side of the touch panel and you hear a "boom", and then a "boom" that the volume increases, and adjust the volume you need according to the voice control. There are Quiet Mode, Home, Sleep, Power, and other modes.
5. **Volume** turn over the hearing aid pressure and hold other side of the panel center and has a "boom" that the volume increases to the maximum.
6. Use the function and volume control switch correctly, try to turn on and off **softly** to avoid excessive noise.
7. The hearing aid should be kept in the fitting center for maintenance and inspection, on a regular basis to ensure that the hearing aid is in good condition.
8. If you feel uncomfortable in your ear during use, please stop using it immediately, do not adjust the hearing aid in a place where dusts and strong odors can reach it.
9. **Headphones** require more hearing than the hearing aid.
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Operation guide for using Bluetooth mode:

1. Turn on the Bluetooth of the mobile phone, and the Bluetooth name HB15 and click Connect. It shows that HB15 is connected. (Connected voice prompt)
2. Press the **volume** button on the left panel to enter the volume control operation. (From the signal tone because One is the minimum volume. Max volume will be perceived. Know the **MAX** setting.)
3. To increase the volume, press the **up** button on any side of the touch panel. (Voice control: Know the **MAX** setting.)
4. To meet the **MAX** setting, press any side of the touch panel and you hear a "boom", and then a "boom" that the volume increases, and adjust the volume you need according to the voice control. There are Quiet Mode, Home, Sleep, Power, and other modes.
5. **Volume** turn over the hearing aid pressure and hold other side of the panel center and has a "boom" that the volume increases to the maximum.
6. Use the function and volume control switch correctly, try to turn on and off **softly** to avoid excessive noise.
7. The hearing aid should be kept in the fitting center for maintenance and inspection, on a regular basis to ensure that the hearing aid is in good condition.
8. If you feel uncomfortable in your ear during use, please stop using it immediately, do not adjust the hearing aid in a place where dusts and strong odors can reach it.
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11. When you are not using the hearing aid, please charge the product regularly to avoid battery damage. The recommended charging interval for the hearing aid is less than 28 days.

Note: Before the hearing aid is **used**, wear the hearing aid **well** make a speaking sound, which is normal. The non-speaking sound of the hearing aid is a sign of the correct wearing of the hearing aid. If the hearing aid has **nothing**, please check whether you wear the hearing aid according to the correct usage. If the operation is correct and the **nothing** still exists, please change to another wearing of appropriate size. When not using the auxiliary hearing aid, please turn off the auxiliary hearing aid in time.



[How to use the auxiliary hearing device charging stand]

1. Put the auxiliary hearing device back into the charging box according to the left and right ear positions. **Align** the fit of the charging box and place it **correctly**. Find the **Type-C** charging port corresponding to the charging box, and connect the charger to charge.
2. When charging the earpiece, the **signal tone will display** the power of the charging box and the charging status of the earpiece. When **full** charges, the **signal tone will not display**.

Project	Possible Causes	Solution
Auxiliary device sound	Device failure (The battery has no power)	Recharge
The sound output or microphone port is abnormal	The sound output or microphone port is blocked	Clean the sound output or microphone port
The voice sets with external noise	Volume setting is too low	Turn up the volume
The indicator light of the auxiliary hearing device does not light up when it is connected	Auxiliary receiver is not connected	Align the hearing aid into the charging slot of the charging box
The power is not suddenly display	Auxiliary receiver is reversed	Check whether the auxiliary hearing device is connected reversely
	The power is not suddenly display	Connect Type-C charging

9. Maintenance

1. **Earplug cleaning and protection** require regular cleaning from the hearing aid, rinse with water, or wipe with alcohol, and then install the earplug on the hearing aid after the earplugs are dry.
2. When **cleaning** the product, when it is **wearing** earplugs or a sponge treated with detergent, be careful not to put liquid on the instrument during cleaning, and make sure not to liquid enter the inside of the instrument. Be especially careful when wiping to ensure that no water can enter.

10. Storage/transportation conditions and methods

1. Environmental conditions for normal use:
 - (a) Ambient temperature: 0°C-40°C;
 - (b) Relative humidity: <80%;
 - (c) Atmospheric pressure: 100kPa-105kPa;
2. The product should be stored in a cool and dry place, and the environment should meet the following conditions:
 - (a) Ambient temperature: -10°C-55°C;
 - (b) Relative humidity: <90%;
 - (c) Atmospheric pressure: 100kPa-150kPa;
3. Handle with care to avoid **collision** or strong impact on the product.

11. Disposal of waste and residue

Do not throw these **waste** (earplugs, membranes, and charging boxes) in water. The disposal of waste and residue should comply with the corresponding national laws and regulations.

12. Parts list

1. Charging cable: 1 Type-C charging cable
2. Certificate of conformity: 1
3. Instruction Manual: 1
4. Auxiliary hearing device: 2

Warning Card			
Product name	_____	Body number	_____
Purchase date	_____	Customer name	_____
Warranty period	_____	Serial number	_____

From the date of sale, our company **provides** free warranty for the original and **checked quality** products of the auxiliary hearing device during the warranty period. **Irreparable damage** or improper use is not covered by the warranty.

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.

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

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.