DANAVOX GN

Made for iPhone | iPad | iPod

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XA RIE RHI

Danavox Barani User guide

Receiver-in-Ear hearing aids, Rechargeable

GN Making Life Sound Better

Hearing aid information

Left hearing aid		Right hearing aid	
Serial number		Serial number	
Model number		Model number	

Dome/mould type	**Open dome** ☐ Small ☐ Medium ☐ Large	**Power dome** ☐ Small ☐ Medium ☐ Large	☐ Tulip	☐ RIE mould

Program	Beep	Description
1	One beep	
2	Two beeps	
3	Three beeps	
4	Four beeps	

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Introduction

We recommend that you use your hearing aids every day. This way you will fully benefit from them.

NOTE: Read this booklet carefully before you start using your hearing aids.

Intended use

Generic air-conduction hearing aids are wearable sound-amplifying devices intended to compensate for impaired hearing. The fundamental operating principle of hearing aids is to receive, amplify, and transfer sound to the eardrum of a hearing impaired person.

For devices including a Tinnitus Sound Generator module
The Tinnitus Sound Generator module is a tool to generate sounds to be used in a Tinnitus Management Program to temporarily relieve patients suffering from Tinnitus.The target population is primarily the adult population over 18 years of age. This product may also be used with children 12 years of age or older.

Symbols

The symbols below are used in this user guide, on the device, or on the packaging.



WARNING: Points out a situation that could lead to serious injuries.



Legal manufacturer.



Follow instructions for use. (Logo in blue)



Medical device.



Serial number.



Regulatory compliance mark for Australia and New Zealand.



Equipment includes an RF transmitter.



CAUTION: Indicates a situation that could lead to minor and moderate injuries.



Date of manufacture.



Regulatory compliance mark for EU with notified body number.



Unique Device Identification.



Product is a Type B applied part.



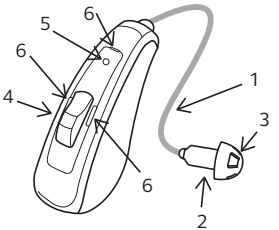
IMDA label for Singapore.

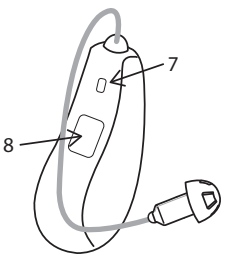


Follow local regulations when disposing of electronic devices.

Your hearing aid

1. Receiver wire
2. Receiver
3. Dome (an open dome is shown)
4. Push button
5. LED (green light)
6. Microphone inlets
7. Left/right indicator
8. Serial number and model





Domes and earmoulds



Power dome



Tulip dome



Custom earmould

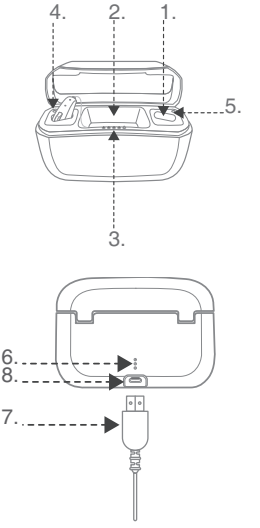
Sports lock

The sports lock has been created to help keep the hearing aids in place for people with an active lifestyle.



The charger

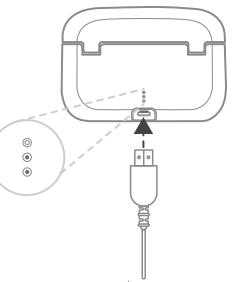
1. Hearing aid charging bay
2. Receiver bay
3. Hearing aid battery indicator
4. Indicator for left hearing aid (blue)
5. Indicator for right hearing aid (red)
6. Charger battery indicator
7. Charging cable
8. Charging cable port (micro USB)



How to get your hearing aid ready for use

Charge the charger

Plug the supplied power adapter into a power outlet and connect the charging cable to the hearing aid charger



The three LEDs at the back of the charger show the battery level of the hearing aid charger. One LED blinking indicates that the charger battery level is low. In that case, recharge the charger. Three green LEDs indicate fully charged.

When the hearing aid charger is fully charged, it has a capacity of at least 3 full hearing aid charges before it needs to be plugged in and recharged.

LEDs	Battery level
●	One blinking LED indicates that there is less than 10% power left
●	10-33% charged
●●	33-66% charged
●●●	66-100% charged



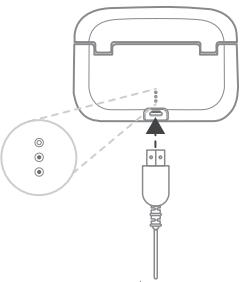
CAUTION: For safety reasons only use the charger supplied with your hearing aids.

NOTE:

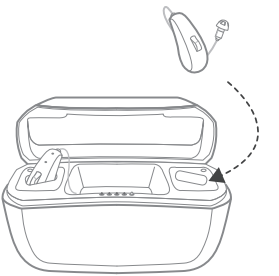
- When charging your hearing aid charger for the first time, let it charge for at least 3 hours, even if the battery LED indicator shows that the battery is fully charged.
- It is safe to leave the charger connected overnight – the batteries in both the hearing aid charger and the hearing aids cannot be overcharged.

Charge the hearing aids

1. Plug the supplied power adapter into a power outlet and connect the power cable to the hearing aid charger.



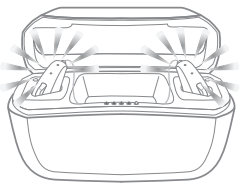
2. Place your hearing aids into the charging bays. Place the right hearing aid in the bay with a red dot, and the left hearing aid in the bay with a blue dot. Place the receivers in the receiver bays. If the receivers have a sports lock, be careful when placing the hearing aids.



NOTE: We recommend that you charge your hearing aids fully before using them.

NOTE: Make sure that your hearing aids are dry before placing them in the charger.

1. During the charging process, the LED on the hearing aids slowly pulsates until the hearing aid is fully charged



2. When fully charged, the LED stays solid until you remove the hearing aids from the charger



The five LEDs at the front of the charger indicate the battery level on the hearing aids. When placing or removing the hearing aids on or from the charger, the LEDs indicate the battery level for 10 seconds. While charging, the LEDs on top of the charger indicate the battery status. Upon insertion or removal of the hearing aids, the LEDs show the battery level of the hearing aid with the lowest battery level.

It takes three hours to fully charge your hearing aids.



Hearing aid battery indicators

LEDs	Level
●	0-20%
●●	20-40%
●●●	40-60%
●●●●	60-80%
●●●●●	80-100%

⚠ Battery warnings

- Do not attempt to open the product or replace the battery. This will terminate the warranty.
- Rechargeable hearing aids are supported by a non-removable rechargeable lithium-ion battery cell. Exposure or ingestion can be seriously harmful.
- Never put your rechargeable hearing aid in your mouth.

- Never swallow lithium-ion batteries nor place them inside any part of the body as this may lead to fatal injuries in two hours or less. If a rechargeable hearing aid or a lithium-ion battery is swallowed or placed inside any part of the body, seek immediate medical attention.
- If the outer casing of your rechargeable hearing aid is broken, the rechargeable battery inside may leak. In this case, do not attempt to use the hearing aid – contact your hearing care professional.
- Battery leakage can cause chemical burns. If you get exposed to battery leakage material, rinse immediately with warm water. If you get chemical burns, redness, or skin irritation from battery leakage, seek medical attention.
- Batteries are harmful to the environment. Therefore, never try to burn them. Dispose of your used batteries according to your country's regulations or return them to a hearing care professional.
- When traveling, consult your airline about any rules for transportation of your hearing aid and charger. Your hearing aid charger contains a Li-Ion battery.

⚠ Charger warnings

1. When you disconnect the power cord or any enhancement, grasp and pull the plug, not the cord
2. Never use a damaged charger. A damaged and incorrectly reassembled charger can cause electric shock or fire when the product is subsequently used
3. Do not attempt to disassemble the charger as it may expose you to dangerous electric shock, and cause the warranty to terminate
4. Avoid charging your product in extremely high or low temperatures and do not use the charger outdoors or in damp areas
5. Only recharge the hearing aid charger with the power supply unit that has been supplied together with the product

6. Never use silica gel or similar products to dry your charger or hearing aids

- Your hearing aid charger contains a Li-Ion battery.
- When traveling, consult your airline about any rules for transportation of your hearing aid and charger. Your hearing aid charger contains a Li-Ion battery.

Low battery warning

When the batteries are low on power, your hearing aids reduce the volume, and play a melody every 15 minutes until they are completely drained and turn off.

Low battery indicator when paired with wireless accessories (optional)

The batteries drain faster when you use wireless functionalities like direct streaming from your smartphone or streaming sound from your TV with our TV Streamer 2. The table below shows how the functionality changes with the battery level.

Battery level	Signal	Hearing aid	Remote control	Streaming
Fully charged		✓	✓	✓
Low		✓	✓	x
Depleted (change battery)		✓	x	x

You can check the battery status by placing the hearing aid in the hearing aid charger (premium charger only). (Premium charger only).

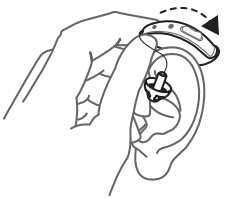
How to place the hearing aids in your ears

How to tell left from right

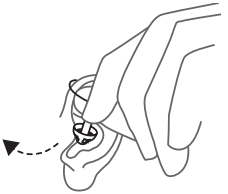
CAUTION: If you have two hearing aids, they may be programmed differently. Do not swap them as this could damage your hearing.
Your hearing aids are colour-coded. Left = blue. Right = red.
If your hearing aids are not colour coded, ask your hearing care professional to add colour coding.

How to insert a receiver dome in your ear

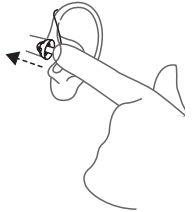
1. Hang the hearing aid over the top of the ear



2. Hold the receiver tube where it bends and gently place/push the receiver dome into the ear canal



3. Push the dome far enough into the ear canal so that the thin tube lies flush with the head (check with a mirror)

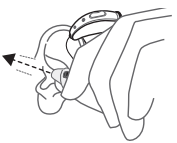


NOTE: If the hearing care professional has provided you with a sport lock on the receiver tube, make sure to position it into the indentation above the earlobe.
To avoid whistling, it is important that the tube and the dome fit correctly into your ear. For other possible reasons, check with the Troubleshooting guide.

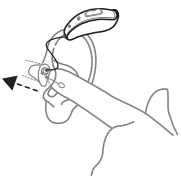
 **CAUTION:** Never attempt to bend or modify the shape of the thin tube.

How to insert the earmould

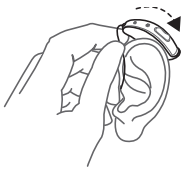
1. Hold the earmould between your thumb and index finger and position its sound outlet in your ear canal



2. Slide the earmould all the way into your ear with a gentle, twisting movement. Move the earmould up and down and gently press to place it correctly in the ear. Opening and closing your mouth can ease insertion



3. Place the hearing aid behind your ear and make sure it sits firmly behind the ear. By experimenting, you may discover an easier method. With proper insertion, hearing aids should fit snugly but comfortably



NOTE: It may be helpful to pull your ear up and outward with your opposite hand during insertion.

CAUTION: Never attempt to modify the shape of the hearing aids, earmoulds, or receiver wires yourself.

Sport lock

If you lead an active life, your hearing aids may come loose. To avoid this situation, your hearing care professional can attach and adjust a sport lock to the receiver.



To insert a hearing aid with a sport lock:

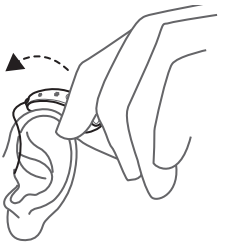
1. Insert the hearing aid as usual
2. Tuck the sport lock in the bottom of the concha.

NOTE: Sport locks may become stiff, brittle or discoloured over time. Contact your hearing care professional for a replacement.

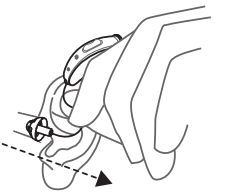
How to remove the hearing aids from your ears

How to remove the receiver dome from your ear

1. Lift the hearing aid off your ear

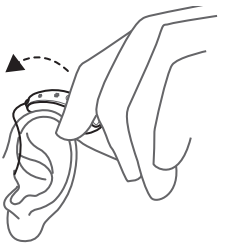


2. Hold the receiver wire with your thumb and index finger where it bends and pull the receiver dome out of your ear canal

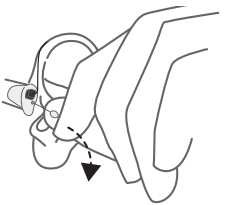


How to remove the earmould from your ear

1. Lift the hearing aid from behind the ear. For a moment, let it hang beside your ear



2. Using your thumb and index finger, gently pull the earmould (not the hearing aid or the tubing) loose from the ear. If your earmould has a removal cord, use it. Remove the earmould completely by gently twisting it



How to use your hearing aids

Turn your hearing aids on and off

The hearing aids are automatically turned on when they are removed from the hearing aid charger. They can also be turned on and off manually by pressing the push button.

1. Turn on, press button for 5 seconds
2. Turn off, press button for 5 seconds

NOTE:

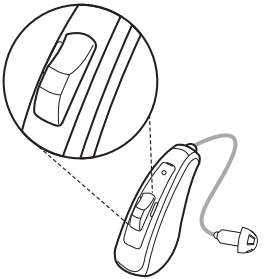
- When the hearing aid turns on, the LED lights up.When the hearing aid turns off, the LED flashes 3 times.
- If the charger is not connected to a power socket, the hearing aids will turn off after 24 hours. If the charger has run out of power, the hearing aids will be powered down, and you will have to turn on the hearing aids by manually pressing the push button for 5 seconds.

The push button

The push button gives access to the features that your hearing care professional and you decide to apply to your hearing aids. Per default, the push button allows you to use up to four different listening programs, and three wireless accessories programs.

- Short press the push button (beep) to switch between programs. You will then hear one or more beeps. The number of beeps indicates which program you have selected
- Press and hold for 1 second (short melody) until streaming begins. If your hearing aids have been paired with more than one wireless device, pressing for one more second will switch to the next device. A short press will end streaming and start the program you left
- Press and hold for 5 seconds to turn your hearing aid on and off

When you turn the hearing aids off and then back on, they always return to the default setting (program one and pre-set volume).



Your hearing care professional can configure your push button so that you also can use it to control the volume as well as switch between listening programs.

If necessary, your hearing care professional can change the default settings for the push button and fill in the following table with your new settings:

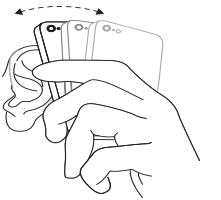
Action	Default setting	New setting	New setting
Short press	Change program		
1 sec press	Activates streaming		

NOTE:

- Some features are configurable during your fitting session. Ask your hearing care professional about the best settings for you.
- For convenience, you may control your hearing aids from the BeMore app or the Remote Control 2.

Advanced options

Using a telephone



Your hearing aid allows you to use your telephone as you normally do. Finding the optimal position for holding the phone may require practice.

The following suggestions may be helpful:

- Hold the telephone up to your ear canal or hold it close to the hearing aid microphones as illustrated.
- If you hear whistling, try holding the telephone in the same position for a few seconds. The hearing aid may be able to cancel the whistling.
- You can also try holding the telephone slightly away from the ear.

NOTE: Depending on your needs, your hearing care professional may activate a function specifically for telephone use.

Mobile phones

Your hearing aids comply with the most stringent Standards of International Electromagnetic Compatibility. Any degree of disturbance can be due to the nature of your particular mobile phone or of your wireless telephone service provider.

NOTE:

- If you find it difficult to get a good result while using your mobile phone, your hearing care professional can give you advice on available wireless accessories to enhance listening capabilities. See also "Wireless accessories", page 39.

Using your hearing aids with iPhone, iPad, and iPod touch (optional)

Your hearing aids are Made for iPhone, iPad and iPod touch, which allow for direct audio streaming and control from these devices.

Streaming from an Android smartphone (optional)

Some Android smartphones can stream audio directly to your hearing aids. Your device must be running on Android 10 or newer and it needs to have the Android Streaming for Hearing Aids feature as well.

NOTE: For assistance with pairing and using these products with your hearing aids, contact your hearing care professional.

Using your hearing aid with smartphone apps (optional)

Our smartphone apps are intended to be used with our wireless hearing aids. The smartphone apps send and receive signals from the hearing aids via smartphones.

- Do not disable app notifications
- Install updates to keep the app working correctly

- Only use the app with hearing aids from the same manufacturer. We take no responsibility if the app is used with other hearing aids
- If you want a printed version of the smartphone app user guide, please go to our website or consult customer support

NOTE: For assistance with pairing and using these products with your hearing aids, please contact your hearing care professional or visit our support site.

NOTE: If your Bluetooth® enabled Android smartphone does not stream directly to your hearing aids, you are able to answer the telephone if you use Phone Clip+.





Assist (optional)

If you have signed up to use Assist available with your hearing aids, you can allow your hearing aids to be adjusted remotely without having to visit your hearing care professional.

All you need is a compatible mobile device with internet enabled. This allows you to:

- Request assistance remotely to adjust your hearing aids to be a better fit for you.
- Keep your hearing aids up to date with the latest software to ensure the best performance possible.

This service only works if your mobile device is connected to the internet. Your hearing care professional will provide information regarding this option, and how it works with the BeMore app.

For optimum performance, make sure the hearing aids are connected to the BeMore app and placed close to the iPhone, iPad, iPod touch, or the Android™ smartphone before applying the changes.

NOTE: Your hearing aids shut down during the installation and update process.

Phone Now (optional)

If you place a magnet on the telephone receiver, your hearing aids will automatically switch the telephone program on when the receiver is close to your ear. When you remove the receiver from your ear, the hearing aids automatically return to the previous listening program.

NOTE: Ask your hearing care professional to enable Phone Now as one of your programs.



WARNING: The Phone Now magnet may affect sensitive medical devices/electronic systems. Seek advice from the manufacturers regarding appropriate safety measures when using the Phone Now solution near the sensitive device/equipment (pacemakers and defibrillators) in question. If the manufacturer cannot issue a statement, we recommend keeping the magnet or a telephone equipped with the magnet 30 cm (12”) away from magnetically sensitive devices (e.g. pacemakers).

CAUTION:

- If you experience frequent signal loss or noise during calls, move the magnet to another place on the telephone receiver.
- Only use original magnets supplied by the manufacturer.

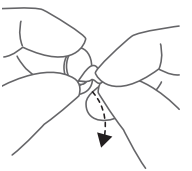
Place the Phone Now magnet

Place the magnet on your telephone receiver to allow operation of the Phone Now function. In order to place the magnet properly:

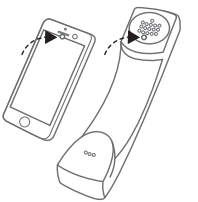
1. Clean the telephone thoroughly



2. Remove foil from magnet



3. Place the magnet



NOTE: If you are not satisfied with the strength of Phone Now, you can reposition the magnet or add additional magnets.

Prior to placing the magnet on the telephone or cell phone, use a recommended cleaning agent to clean the telephone.

How to use Phone Now

1. Lift the telephone to your ear.
2. When you hear a short melody, the phone program is active.

NOTE: You may need to move the telephone receiver slightly to find the best position for a reliable Phone Now activation and a good hearing experience on the telephone.

If your hearing aids have enabled the Comfort Phone functionality, the hearing aid on the non-phone ear automatically turns down the volume.

Ask your hearing care professional to enable Phone Now as one of your programmes.

Do not cover the loudspeaker opening with the magnet.

If the programme does not work to your satisfaction, moving the magnet to another position may improve ease of use and comfort while speaking.

If the hearing aids do not switch to the telephone programme every time, you can reposition the magnet or add additional magnets.

Use a recommended cleaning agent.

⚠ Phone Now warnings

- If a magnet is swallowed, seek immediate advice from a medical practitioner.

- Keep magnets out of reach of pets, children and mentally disabled persons.

⚠ Phone Now precautions

- If you experience frequent signal loss or noise during calls, move the magnet to another place on the telephone receiver.
- Only use original magnets supplied by the manufacturer.

Flight Mode (optional)

Your hearing aid allows you to control it from your mobile device or Remote Control. However, in some areas you are requested to turn off wireless communication.

⚠ **CAUTION:** When boarding a flight or entering an area where RF transmitters are prohibited, wireless functionality must be deactivated.

Follow these steps to turn on Flight mode

1. Turn the hearing aid off.
2. Press the button for 9 seconds.
3. The hearing aid responds with four times double flashes. If you wear your hearing aids, you will hear double-dings (♫♫♫ etc.) for ten seconds.

NOTE: Both hearing aids must be set in Flight mode - even with synchronisation enabled.

Follow this step to deactivate Flight mode

1. Turn the hearing aid off and then on.

How to clean and maintain your hearing aids

Care and maintenance

Please follow the advice below to have the best user experience and to prolong the life of your hearing aids.

To maintain your hearing aids, clean and disassemble them one at a time to prevent mixing them up.

- Keep your hearing aids dry and clean.
- Wipe the hearing aids with a soft cloth after use to remove grease or moisture.
- Do not wear your hearing aids when putting on cosmetics, perfume, aftershave, hairspray, suntan lotion, etc. These might discolour the hearing aid or get into the hearing aid causing damage.
- Do not immerse your hearing aid in any liquid.
- Keep your hearing aids away from excessive heat and intense direct sunlight. The heat may deform the shell, damage the electronics and deteriorate the surface.
- Do not swim, shower or steam bathe while wearing your hearing aids.



CAUTION: Ear wax or other residue on your hearing aids can cause an infection. To avoid this, clean your hearing aids as instructed.

Daily maintenance

It is important to keep your hearing aid clean and dry. On a daily basis, clean the hearing aids using a soft cloth or tissue. In order to avoid damage due to humidity or excessive perspiration, the use of a drying kit is recommended.

If the microphone inlets are clogged, gently brush across the microphone inlets with a small, clean brush.



WARNING: Do not use force to press the bristles on the small brush into the inlets because the microphones may be damaged.

CAUTION: Do not use alcohol or other solvents to clean your hearing aid, the protective coating will be damaged.

Cleaning the earmould

Use a soft, dry cloth to wipe the earmould clean.

NOTE: If the receiver wire for your earmould gets stiff, brittle or discoloured, it needs to be replaced. Consult your hearing care professional.

Cleaning the receiver wire and dome

The receiver wire and the receiver dome should be cleaned regularly.

Use a damp cloth to clean the receiver wire and receiver dome on the outside.

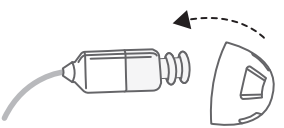
NOTE: Do not use water when you are cleaning the receiver wires or the receiver domes.

Receiver wires may become stiff, brittle, or discoloured over time. Contact your hearing care professional regarding receiver changes.

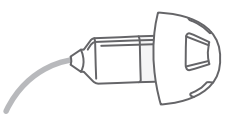
How to change domes

Follow these steps to mount domes. This procedure shows an open dome, but you can follow the exact same procedure if you have a tulip or power dome.

1. Push the new dome over the ribbed flange on the receiver.



2. Make sure that the new dome is properly and securely mounted.

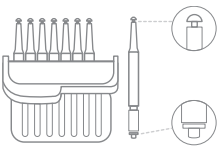


3. To see if the dome is securely mounted, lift the dome as shown and check that both flanges are covered by the dome's collar.

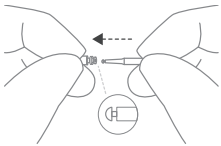


How to change the wax guard

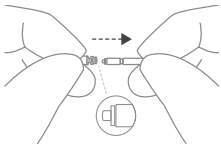
If you wear a dome, remove it before following this procedure. To replace the wax guards:



1. Carrying box with eight wax guard tools.

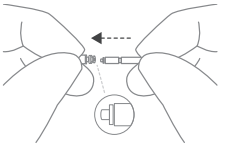


2. Insert the removal tip into the used wax guard until the shaft touches the rim of the wax guard.

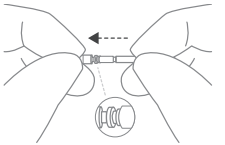


3. Slowly pull the wax guard straight out.

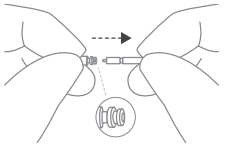
The wax guard tool has two functions: a removal tip to collect the used wax guard, and a replacement tip with a white wax guard. To insert the new wax guards, follow these steps:



1. Insert the replacement tip of the tool into the sound outlet.



2. Gently press the replacement tip straight into the sound outlet until the outer ring lies flush with the sound outlet.



3. Pull the tool straight out - the new wax guard will remain in place. Please remember to re-attach dome again, or attach a fresh dome.

How to clean the charger

1. Clean the outside of the charger using a dry, clean cloth
2. Clean the receiver and charging bays using a clean cotton bud

NOTE: Do not use liquid to clean the hearing aid charger.

Wireless accessories

A variety of wireless accessories is available as an enhancement to your hearing aids. These accessories enable direct streaming of sound and speech to your hearing aids, enhancing your ability to hear and communicate in various everyday situations.

- **A TV streamer** streams audio from a TV and most other audio sources to your hearing aids at a volume that suits you.
- **A basic remote control** adjusts volume, mutes your hearing aids and changes programs.
- **An advanced remote control** adjusts volume, mutes your hearing aids, changes programs and displays your settings.
- **A phone clip** streams phone conversations and stereo sound to both hearing aids and doubles as a remote control.
- **A body-worn microphone** is a microphone that can be worn by others. It improves speech comprehension in noisy situations.
- **A wireless microphone.** It works like the **body-worn microphone**, but doubles as a table microphone. Furthermore, it has a built-in telecoil that allows it to connect with a teleloop system, a connector for a FM receiver, and a mini-jack input for wired streaming of audio from a computer or music player.
- **An app** which you can install on your mobile device to enable streaming and control directly from your mobile device. See "Advanced options", page 26.

Accessing wireless accessories

To access a wireless accessory that has already been paired with your hearing aids, press the push button for 2 seconds. The hearing aid will emit a sound to confirm the connection.



NOTE:

- Ask your hearing care professional for more information on the range of available wireless accessories.
- You should only use recommended wireless accessories with your wireless hearing aids. For information about how to pair your hearing aids with a wireless accessory, see the user guide for the relevant wireless accessory.

Tinnitus management

Tinnitus Sound Generator module

Your hearing aid includes the Tinnitus Sound Generator (TSG) module. The Tinnitus Sound Generator (TSG) Module is a tool that generates sounds to be used in tinnitus management programmes to temporarily relieve suffering from tinnitus. The TSG can generate sounds adjusted to your personal preference and your specific therapeutic needs as determined by your doctor, audiologist or hearing care professional. Depending on the selected hearing aid program and the environment you are in, you will sometimes hear the therapeutic sound resembling a continuous or fluctuating noise.

Indications for use of the TSG module - (US only)

The Tinnitus Sound Generator module is a tool to generate sounds to be used in a Tinnitus Management Program to temporarily relieve patients suffering from Tinnitus. The target population is primarily the adult population over 18 years of age. This product may also be used with children 5 years of age or older.

TheTinnitus Sound Generator Module is targeted for healthcare professionals, which are treating patients suffering from Tinnitus, as well as conventional hearing disorders. The fitting of the Tinnitus Sound Generator Module must be done by a hearing professional participating in a Tinnitus Management Program.

User instructions for the TSG module

Description of the device

The Tinnitus Sound Generator (TSG) Module is a software tool that generates sounds to be used in tinnitus management programs to temporarily relieve suffering from tinnitus.

Explanation of how the device works

The TSG module is a frequency and amplitude shaped white-noise generator. Noise signal level and frequency characteristics can be adjusted to the specific therapeutic needs as determined by your doctor, audiologist or hearing care professional.

Your doctor, audiologist or hearing care professional can modulate the generated noise to make it more pleasant. The noise can then resemble, for example, breaking waves on a shore.

Modulation level and speed can also be configured to your likes and needs. An additional feature can be enabled by your hearing care professional that allows you to select predefined sounds that simulate sounds from nature, such as breaking waves or running water.

If you have two wireless hearing aids that support ear-to-ear synchronisation, this functionality can be enabled by your hearing care professional. This will cause the Tinnitus Sound Generator to synchronise the sound in both hearing aids.

If your tinnitus troubles you only in quiet environments, your doctor, audiologist or hearing care professional can set the TSG Module so that it becomes audible exclusively in such surroundings. The overall sound level can be adjusted via a volume control. Your doctor, audiologist or hearing care professional will review with you the need for having such a control.

For hearing aids where ear-to-ear synchronisation is enabled, your hearing care professional can also enable environmental monitoring synchronisation so that the TSG noise level is automatically adjusted simultaneously in both hearing aids dependent on the background sound level. Additionally, since the hearing aid has a volume control, the background noise level is monitored by the hearing aid and the volume control can be used simultaneously to adjust the generated noise level in both hearing aids.

The scientific concepts that form the basis for the device

The TSG module provides sound enrichment intending to surround the tinnitus sound with a neutral sound which is easily ignored. Sound enrichment is an important component of most approaches to tinnitus management, such as Tinnitus Retraining Therapy (TRT).

To assist habituation to tinnitus, this needs to be audible. The ideal level of the TSG module, therefore, should be set so that it starts to blend with the tinnitus, and so that you can hear both your tinnitus as well as the sound used.

In most instances, the TSG module can also be set to mask the tinnitus sound, to provide temporary relief by introducing a more pleasant and controllable sound source.

TSG volume control

The sound generator is set to a specific loudness level by the hearing care professional. When switching the sound generator on, the volume will have this optimal setting. Therefore, it might not be necessary to control the volume (loudness) manually. However, the volume control provides the ability to adjust the volume, or amount of stimulus, to the liking of the user. The tinnitus sound generator volume can only be adjusted within the range set by the hearing care professional.

The volume control is an optional feature in the TSG module used for adjusting the sound generator output level.

Using TSG with smartphone apps

The tinnitus sound generator control via hearing aid push buttons can be enhanced with wireless control from a TSG control app on a smartphone or mobile device. This functionality is available in supported hearing aids when a hearing care professional has enabled the TSG functionality during the fitting of the hearing aid.

NOTE: To use smartphone apps, the hearing aid must be connected with the smartphone or mobile device.

TSG - Technical specifications

Audio signal technology

Digital.

Available sounds

White noise signal which can be shaped with the following configurations:

High-pass filter	Low-pass filter
500 Hz	2000 Hz
750 Hz	3000 Hz
1000 Hz	4000 Hz
1500 Hz	5000 Hz
2000 Hz	6000 Hz
-	8000 Hz

The white noise signal can be modulated in amplitude with an attenuation depth of up to 14 dB.

⚠ Prescription use of a Tinnitus Sound Generator hearing aid

The TSG should be used as prescribed by your doctor, audiologist or hearing healthcare professional. In order to avoid permanent hearing damage, the maximum daily usage depends on the level of the generated sound.

To adjust TSG, please consult your hearing care professional.

Should you develop any side effects from using the sound generator, such as dizziness, nausea, headaches, perceived decrease in auditory function or increase in tinnitus perception, you should discontinue use of the sound generator and seek medical evaluation.

Children and physically or mentally challenged users will require training by a doctor, audiologist, hearing care professional or the guardian for the insertion and removal of the hearing aid containing the TSG module.

Important notice for prospective sound generator users

A tinnitus masker is an electronic device intended to generate noise of sufficient intensity and bandwidth to mask internal noises. It is also used as an aid in hearing external noises and speech.

Good health practice requires that a person with a tinnitus condition have a medical evaluation by a licensed physician (preferably a physician who specializes in diseases of the ear) before using a sound generator. Licensed physicians who specialize in diseases of the ear are often referred to as otolaryngologists, otologists or otorhinolaryngologists.

The purpose of medical evaluation is to ensure that all medically treatable conditions that may affect tinnitus are identified and treated before the sound generator instrument is used.

The sound generator instrument is a tool to generate sounds to be used with appropriate counselling and/or in a tinnitus management program to relieve patients suffering from tinnitus.

⚠ Tinnitus Sound Generator warnings

1. Sound generators should be used only as advised by your doctor, audiologist, or hearing care professional.
2. Sound generators are not toys and should be kept out of reach of anyone who might cause themselves injury (especially children and pets).
3. Sound generators can be dangerous if improperly used.

⚠ Tinnitus Sound Generator precautions

1. Should the user develop any side effects from using the sound generator, such as dizziness, nausea, headaches, perceived decrease in auditory function or increase in tinnitus perception, the user should discontinue use of the sound generator and seek medical evaluation.
2. Discontinue use of the sound generator and consult promptly with a licensed physician if you experience one of the following conditions:
   a. Visible congenital or traumatic deformity of the ear.
   b. History of active drainage from the ear within the previous 90 days.
   c. History of sudden or rapidly progressive hearing loss within the previous 90 days.
   d. Acute or chronic dizziness.
   e. Unilateral hearing loss of sudden or recent onset within the previous 90 days.
   f. Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
   g. Pain or discomfort in the ear.

3. Discontinue use of the sound generator and consult promptly with your hearing care professional, if you experience changes in the tinnitus perception, discomfort or interrupted speech perception, while using the Tinnitus Sound Generator.
4. The volume control is a feature in the TSG module used for adjusting the sound generator output level.To prevent unintended usage by paediatric or physically or mentally disabled users, the volume control must be configured to only provide a decrease of the sound generator output level.
5. Children and physically or mentally disabled users will require guardian supervision while wearing the TSG hearing aid.
6. Adjustment of the Tinnitus Sound Generator settings, using a smartphone app, should only be performed by the parent or legal guardian in cases where the user is minor. Use of the Assist for remote settings of the tinnitus sound generator, should only be performed by the parent or legal guardian in cases where the user is minor.

⚠ Tinnitus Sound Generator warning to hearing care professionals

A hearing care professional should advise a prospective sound generator user to consult promptly with a licensed physician (preferably an ear specialist) before getting a sound generator.

If the hearing care professional determines through inquiry, actual observation, or review of any other available information concerning the prospective user that the prospective user has any of the following conditions:

1. Visible, congenital or traumatic deformity of the ear.
2. History of active drainage from the ear within the previous 90 days.
3. History of sudden or rapidly progressive hearing loss within the previous 90 days.
4. Acute or chronic dizziness.

5. Unilateral hearing loss of sudden or recent onset within the previous 90 days.
6. Audiometric air-bone gap equal to or greater than 15 dB at 500 Hertz (Hz), 1,000 Hz, and 2,000 Hz.
7. Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
8. Pain or discomfort in the ear.

⚠ **CAUTION:** The maximum output of the sound generator falls into the range that can cause hearing loss according to OSHA regulations. In accordance with NIOSH recommendations, the user should not use the sound generator for more than eight (8) hours a day when this is set to a level of 85 dB SPL or above. When the sound generator is set to levels of 90 dB SPL or above the user should not use the sound generator for more than two (2) hours per day. In no case should the sound generator be worn at uncomfortable levels.

⚠ General warnings

- Consult a hearing care professional if you think there may be a foreign object in your ear canal, if you experience skin irritation, or if excessive earwax accumulates with the use of the hearing aid
- Different types of radiation, from e.g. NMR, MRI, or CT scanners, may damage hearing aids. It is recommended not to wear hearing aids during these or other similar procedures. Other types of radiation, such as burglar alarms, room surveillance systems, radio equipment, mobile telephones contain less energy and will not damage hearing aids. However, they have the potential to momentarily affect the sound quality or temporarily create undesired sounds from the hearing aids
- Do not wear hearing aids in mines, oil fields, or other explosive areas unless those areas are certified for hearing aid use.
- Do not allow others to use your hearing aids
- Hearing aid usage by children or mentally disabled persons should be supervised at all times to ensure their safety. The hearing aid contains small parts that could be swallowed by children. Please be mindful not to leave children unsupervised with this hearing aid.
- Hearing aids should be used only as prescribed by your hearing care professional. Incorrect use may result in sudden and permanent hearing loss.
- Warning to hearing care professionals: Special care should be exercised in selecting and fitting hearing aids with a maximum sound pressure level that exceeds 132 dB SPL or higher maximum OSPL 90 measured with an IEC 60711:1981 occluded ear simulator. There may be a risk of impairment of the remaining hearing.
- Turn off your wireless functionality by using the flight mode in areas where radio frequency emission is prohibited
- If a hearing aid is broken, do not use it.

- External devices connected to the electrical input must be safe according to the requirements of IEC 60601-1:2005+A1:2012+A2:2020-1, IEC 60065, or IEC 60950-1, IEC 62368-1 as appropriate.

NOTE: For use of wireless functionality, only use supported wireless accessories. For further guidance regarding e.g. pairing, please refer to the user guide of the relevant wireless accessory.

⚠ General precautions

- When wireless function is activated, the device uses low-powered digitally coded transmissions in order to communicate with other wireless devices. Although unlikely, nearby electronic devices may be affected. In that case, move the hearing aid away from the affected electronic device
- Use only original parts from the manufacturer, e.g. wax guards.
- Only connect your hearing aids to accessories intended and qualified to be used with your hearing aids.

Hearing aid expectations

- A hearing aid will not restore normal hearing and will not prevent or improve a hearing impairment resulting from organic conditions.
- Consistent use of the hearing aid is recommended. In most cases, infrequent use does not permit you to get full benefit from it.
- The use of a hearing aid is only part of hearing rehabilitation and may need to be supplemented by auditory training and instructions in lip-reading.

Troubleshooting

Issue	Potential cause	Potential solution
Feedback, “whistling”	Is the earmould or dome correctly inserted in the ear?	Put it in again.
	Is the volume very loud?	Reduce it.
	Is the receiver wire broken or the earmould clogged?	Replace or visit your hearing care professional.
	Are you holding an object (e.g. a hat, a telephone receiver) close to a hearing aid?	Move your hand away to create more space between the hearing aid and the object.
	Is your ear full of wax?	Visit your doctor.

Issue	Potential cause	Potential solution
No sound	Is the hearing aid on?	Switch it on.
	Is the hearing aid charged?	Place the hearing aid in the charger for charging.
	Is the hearing aid charger charged?	Plug the charger into a power outlet and connect the charger cable to the hearing aid charger.
	Is the receiver wire broken or the earmould clogged?	Visit your hearing care professional.
	Is your ear full of wax?	Visit your doctor.
Sound is distorted, spluttering or weak	Is the receiver wire broken or the earmould clogged?	Visit your hearing care professional.
	Did your hearing aid get moist?	Dry the hearing aids with a dry cloth and let them dry out.
Battery drains very quickly	Did you leave your hearing aid switched on for long periods?	Switch off your hearing aid when you are not using them.
	Is the hearing aid old?	Visit your hearing care professional.

Issue	Potential cause	Potential solution
Hearing aid is not charging	Does the hearing aid sit correctly in the charger?	Reinsert the hearing aid in the charger.
	Is the hearing aid charger charged?	Plug the charger into a power outlet and connect the charger cable to the hearing aid charger.

FAQ on rechargeable batteries

Question	Answer
How should I prepare a new battery?	No preparation is required in a normal use situation. Simply charge your hearing aids as described in this user guide
Can I damage a battery by incorrect use?	Only if you expose it to extreme temperatures or excessive physical force
Is it required to remove the hearing aids when fully charged?	No
Can I interrupt the charging of the hearing aids and the hearing aid charger?	Yes
Should I use up all battery power before charging again?	No

Question	Answer
Why do my hearing aids not turn on automatically, although they have been in the charger for an extended period of time?	If you leave your hearing aids in the charger for more than 24 hours, the charger will go into standby mode and turn off the power of the hearing aids. If the charger* runs out of battery power, it will instruct the hearing aids to turn off to save energy. When you remove the hearing aids from the charger, they will not turn on automatically as normally. Press the push button for 5 seconds to turn the hearing aids on manually. *: Premium charger only
Does the battery heat up when charging?	There is a slight temperature increase at the end of the charging process
Can I charge at low temperatures?	If the hearing aid temperature is below 0 °C (32 °F), it will not charge immediately. Charging must take place between 0 °C (32 °F) and 35 °C (95 °F)
Can I charge at high temperatures?	The operating temperature range for the charger and the hearing aids is 0 °C (+32 °F) to +40 °C (+104 °F)

Regulatory information

Warranties and repairs

The manufacturer provides a warranty on hearing aids in the event of defects in workmanship or materials, as described in applicable warranty documentation. In its service policy, the manufacturer pledges to secure functionality at least equivalent to the original hearing aid. As a signatory to the United Nations Global Compact initiative, the manufacturer is committed to doing this in line with environment-friendly best practices. Hearing aids therefore, at the manufacturer's discretion, may be replaced by new products or products manufactured from new or serviceable used parts, or repaired using new or refurbished replacement parts. The warranty period of hearing aids is designated on your warranty card, which is provided by your hearing care professional.

For hearing aids that require service, please contact your hearing care professional for assistance.

Hearing aids that malfunction must be repaired by a qualified technician. Do not attempt to open the case of hearing aids, as this will invalidate the warranty.

Temperature test, transport and storage information

Temperature test
Our hearing aids are subjected to various tests in temperature and damp heating cycling between -25 °C (-13 °F) and +70 °C (+158 °F) according to internal and industry standards.

During use
During normal operation the temperature should not exceed the limit values of 0 °C (+32 °F) to +45 °C (+113 °F) at a relative humidity of 90%, non-condensing. An atmospheric pressure between 500 hPa and 1100 hPa is appropriate.

CAUTION: During use, your hearing aids may reach temperatures up to 43 °C (109 °F).

During transport or storage
During transport or storage, the temperature should not exceed the limit values of -20 °C (-4 °F) to +60 °C (+140 °F) at a relative humidity of 90% RH, non-condensing (for a limited time). An atmospheric pressure between 500 hPa and 1100 hPa is appropriate.

Statement

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.
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 following 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 to an outlet or a circuit that is different from the one to which the receiver is connected
– Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications can void the user's authority to operate the equipment.

The products are in compliance with the following regulatory requirements

- In the EU: The device conforms to the Essential Requirements according to Annex I of Council Directive 93/42/EEC for medical devices (MDD).
- The full text of the EU declaration of conformity is available at the following internet address: www.declarations.resound.com/en.
- In the US: FCC CFR 47 Part 15, subpart C.
- Other identified applicable international regulatory requirements in countries outside the EU and US. Please refer to local country requirements for these areas.
- In Canada: these hearing aids are certified under the rules of ISED.
- Japanese Radio Law and Japanese Telecommunications Business Law Compliance: This device has been certified pursuant to the Japanese Radio Law (電波法) and the Japanese Telecommunications Business

Law (電気通信事業法). This device should not be modified (otherwise the granted designation number will become invalid).

Type designations

Hearing aid type designations for models included in this user guide are:

LXR45, FCC ID: X26LXR45, IC: 6941C-LXR45.

This device includes an RF transmitter that operates in the range of 2.4 GHz - 2.48 GHz.

Hearing aid variants

Availability of models may vary by country.

Mini Receiver In-the-Ear (RIE) hearing aids of type LXR45 with FCC ID X26LXR45, IC number 6941C-LXR45, are available in the following variant(s):

XA961-DRWC, XA761-DRWC, XA561-DRWC.

Hearing aid charger:

Model: C-1

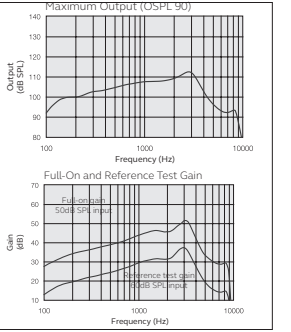
The nominal RF output power transmitted is: +0.82 dBm

Technical specifications

RIE - LP receiver

Models: XA961-DRWC, XA761-DRWC, XA561-DRWC,

Reference test gain (60 dB SPL input)	HFA	32	dB
Full-on gain (50 dB SPL input)	Max HFA	52 46	dB
Maximum output (90 dB SPL input)	Max. HFA	113 109	dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.5 0.8 0.5	%
Equivalent input noise, w/o noise reduction		21	dB SPL
1/3 Octave Equivalent input noise, w/o noise reduction	1600 Hz	9	dB SPL
Frequency range IEC 60118-0: 2015		100-9060	Hz
Expected operating time		30	Hours



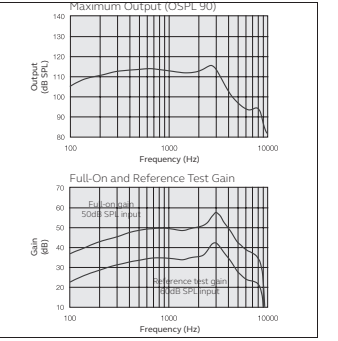
Data in accordance with ANSI S3.22-2014, IEC 60118-0:2015.

*Expected operating time of the rechargeable battery depends on active features, the use of wireless accessories, hearing loss, battery age and sound environment.

RIE - MP receiver

Models: XA961-DRWC, XA761-DRWC, XA561-DRWC,

Reference test gain (60 dB SPL input)	HFA	36	dB
Full-on gain (50 dB SPL input)	Max. HFA	58 50	dB
Maximum output (90 dB SPL input)	Max. HFA	116 113	dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.3 0.4 0.7	%
Equivalent input noise, w/o noise reduction		24	dB SPL
1/3 Octave Equivalent input noise, w/o Noise reduction	1600 Hz	11	dB SPL
Frequency range IEC 60118-0: 2015		100-9000	Hz
Expected operating time		30	Hours



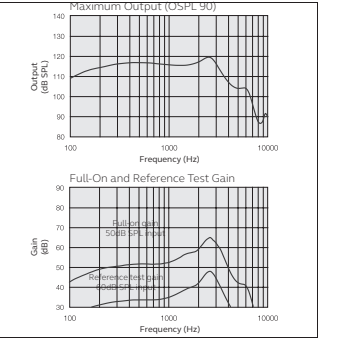
Data in accordance with ANSI S3.22-2014, IEC 60118-0:2015.

*Expected operating time of the rechargeable battery depends on active features, the use of wireless accessories, hearing loss, battery age and sound environment.

RIE - HP receiver

Models: XA961-DRWC, XA761-DRWC, XA561-DRWC,

Reference test gain (60 dB SPL input)	HFA	40	dB
Full-on gain (50 dB SPL input)	Max. HFA	65 57	dB
Maximum output (90 dB SPL input)	Max. HFA	120 117	dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.3 0.7 0.5	%
Equivalent input noise, w/o noise reduction		22	dB SPL
1/3 Octave Equivalent input noise, w/o noise reduction	1600 Hz	10	dB SPL
Frequency range IEC 60118-0: 2015		100-6750	Hz
Expected operating time		30	Hours



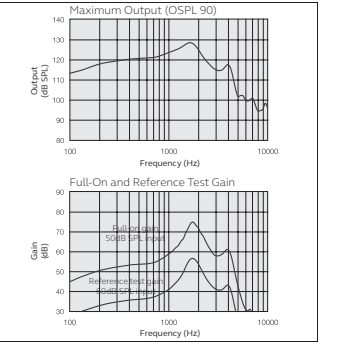
Data in accordance with ANSI S3.22-2014, IEC 60118-0:2015.

Expected operating time of the rechargeable battery depends on active features, the use of wireless accessories, hearing loss, battery age and sound environment.

RIE - UP receiver

Models: XA961-DRWC, XA761-DRWC, XA561-DRWC,

Reference test gain (60 dB SPL input)	HFA	47	dB
Full-on gain (50 dB SPL input)	Max. HFA	75 65	dB
Maximum output (90 dB SPL input)	Max. HFA	128 124	dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	1.0 1.6 0.1	%
Equivalent input noise, w/o noise reduction		23	dB SPL
1/3 Octave Equivalent input noise, w/o noise reduction	1600 Hz	9	dB SPL
Frequency range IEC 60118-0: 2015		130-4920	Hz
Expected operating time		30	Hours



Data in accordance with ANSI S3.22-2014, IEC 60118-0:2015.

Expected operating time of the rechargeable battery depends on active features, the use of wireless accessories, hearing loss, battery age and sound environment.

Additional information

Acknowledgements

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Manufacturer according to EU Medical Device Directive 93/42/EEC:

GN Hearing A/S
Lautrupbjerg 7
DK-2750 Ballerup
Denmark

CE
0297

Any serious incident that has occurred in relation to the device should be reported to the Legal manufacturer GN Hearing A/S and the competent authority of the EU Member State in which the user and/or patient is established.

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