



*Flyte*<sup>™</sup>

User Guide *Flyte* RIE



Hearing instrument type designations for models included in this user guide are: **BRIE**, FCC ID: X26BRIE, IC: 6941C-BRIE. Please see page 7 for list of models referring to all types.

#### Statement:

This device complies with part 15 of the FCC rules and ICES-003 of the ISED 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 and ICES-003 of the ISED 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 the one in 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 EU: the device conforms to the Essential Requirements according to Annex I of Council Directive 93/42/EEC for medical devices (MDD).
- GN Hearing A/S declares that the radio equipment type(s) LO85 and LO90 is/are in compliance with Directive 2014/53/EU (RED).
- The declaration of conformity may be consulted at www.declarations.resound.com/
- In 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 is
  granted 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

This device operates in the frequency range of 2.4 GHz - 2.48 GHz.

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

Maximum RF output power transmitted is up to 0 dBm.

#### Intended use

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







#### Prescription use of a Tinnitus Sound Generator (TSG) hearing instrument

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

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.

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. However, children and physically or mentally challenged users will require training by a doctor, audiologist, hearing healthcare professional or the guardian for the insertion and removal of the hearing instrument 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.









#### Introduction

Congratulations on the purchase of your new hearing instruments. The innovative sound technology and design, combined with the customised device programming selected by your hearing care professional, will make hearing a more enjoyable experience. Hearing instruments will enable you to hear sounds that you may not have heard in years because of your hearing loss. Practice and a positive attitude are important in learning to use hearing instruments. Your hearing instruments have been adjusted according to your individual hearing loss and needs. Some people adjust quickly to wearing hearing instruments in their ears and hearing new sounds; other people may need more time.

Please read this manual carefully in order to wholly benefit from the use of your hearing instruments. With proper care, maintenance, and usage, your hearing instruments will aid you in better communication for many years. Ask your hearing care professional if you have any questions.







Hearing instrument model:
Model 62: Battery size 13
Receiver tube length:
Dome size:
Left serial number:
Right serial number:





Receiver-in-the-ear (RIE) hearing instruments of type BRIE with FCC ID X26BRIE, IC number 6941-BRIE and size 13 battery are available in the following variants:
FL962-DRW UP, FL962-DRW HP, FL962-DRW MP, FL962-DRW LP
FP962-DRW-UP, FP962-DRW-HP, FP962-DRW-MP, FP962-DRW-LP
FL762-DRW UP, FL762-DRW HP, FL762-DRW MP, FL762-DRW LP
FP762-DRW-UP, FP762-DRW-HP, FP762-DRW-MP, FP762-DRW-LP

The identification number for the BRIE device models can be found at location "14" as indicated in the illustrations on page 10.







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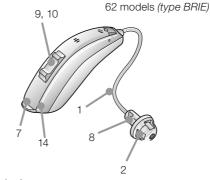
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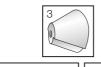






- Receiver tube
- 2. Receiver Open Dome
- 3. Receiver Tulip Dome
- 4. Receiver Power Dome
- 5. RIF mold
- 6. Sports lock
- 7. Battery compartment
- 8. Receiver
- 9. Push button
- 10. Volume Control (optional)
- 11. LP receiver tube
- 12. MP receiver tube
- 13. HP receiver tube
- 13. HE receiver tube
- 14. Model, and serial number (in battery chamber)
- 15. UP Receiver/Mold























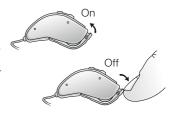




#### **Getting started**

On/Off function

- When the battery door is closed, the hearing instrument turns on, and the default program will be activated.
- 2. To turn off the hearing instrument, open the battery door. Use your fingernail to pull it open.

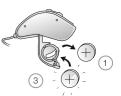


#### **SmartStart**

Hearing instruments can be turned on once you have placed them on your ears. If you prefer to turn them on just prior to placing them on your ear, your hearing care professional can activate a function called Smart-Start. This function will delay the time in which the hearing instruments turn on after the battery compartment is closed. With SmartStart, a beep will be heard for each second of the delay period.

# Inserting/Replacing the battery

- Open the battery door completely by using your fingernail. Remove the used battery if present.
- 2. Prepare the new battery (please refer to page 6 for information on appropriate battery type/size for your hearing instrument). Remove the protective foil and wait 2 minutes before inserting the battery into the hearing instrument to allow activation of the battery.
- 3. Insert the new battery with the positive side in the correct position.
- 4. Gently close the battery door.











- 1. Always use new Zinc-Air batteries that have a minimum remaining shelf life of 1 year.
- 2. To save battery, turn off your hearing aids when they are not in use.
- 3. At night, switch off the hearing aid and open the battery door completely to allow moisture toevaporate. This prolongs the lifespan of the hearing aid.
- 4. If the hearing aids frequently lose connection to resound wireless accessories, contact your hearing care professional for a list of appropriate batteries

## Low battery indicator

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



I NOTE: Keep spare batteries on hand.

# Low battery indicator when paired with wireless accessories only

The batteries drain faster when you use wireless functionalities like streaming from your smart phone or from your TV.

As the battery power goes down, the wireless functions stop working. A short melody every five minutes indicates that battery power is too low.





The table below shows how the functionality shifts with the power level of the battery.

Battery level	Signal	Hearing aid	Remote Control	Streaming
Fully charged		✓	✓	✓
Low	1111	✓	✓	×
Depleted (change battery)	<b></b> 。	✓	×	×







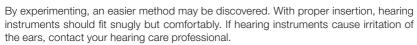
# **Sport lock**

The sports lock will be applied or adjusted by your hearing care professional.

# Inserting/Removing hearing instruments

Insertion (custom RIE and UP molds)

- Hold the RIE mold between your thumb and index finger and position its sound outlet in your ear canal.
- 2. Slide the RIE mold all the way into your ear with a gentle, twisting movement.
- 3. Move the RIE mold up and down and gently press to ensure it is positioned correctly in the ear. Opening and closing your mouth can ease insertion.
- 4. Make sure the hearing instrument is seated behind the ear.





Tip: It may be helpful to pull the top of your ear back with your opposite hand during insertion to open the ear canal.













 Hold the receiver tube where it bends, and gently place the dome into the ear canal. Push the dome far enough into the ear canal so that the receiver tube lies flush with the side of the head.







- It is important that the tube and the dome fit correctly into your ear.
- 3. When the dome is placed correctly, you should not be able to see the receiver tube sticking out when facing a mirror.



 $oldsymbol{\lambda}$  Note: You should never attempt to bend or modify the shape of the receiver tube.

#### Removal (RIE molds)

- 1. Grasp the removal string and pull the RIE or UP mold outward.
- 2. Consult your hearing care professional if you have difficulties removing the hearing instrument.

#### Removal (domes)

- 1. Hold the receiver tube with your thumb and forefinger and remove the tube.
- 2. Consult your hearing care professional if you have difficulties removing the hearing instrument.





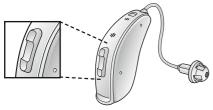






#### **Multi-Function button**

The multi-function button will allow you to use up to four different listening programs, each of them suitable for certain situations.



Multi-function button (62 models only)

Your hearing care professional can fill out the following table for you.

Program	Description of when to use
1	
2	
3	
4	



When using the multi-function button to switch programs, each press will move the instrument to the next program. For example, if it was in program 1 it will switch to program 2, if it was in program 2 it will switch to program 3 etc.

When you close the battery door and switch the instrument on, it will start in program 1. Press the multifunction buttons if you want to move to a different listening program.

If you have two hearing instruments with the synchronization function enabled, program changes to one instrument will automatically repeat in the second instrument. When a program change is made in one instrument, you will hear the same amount of confirmation beeps in the second instrument.

Your instrument has a fully automatic volume control. Therefore, it should not be necessary to control the volume manually.

However, in addition to controlling listening program, the multi-function button provides you with the ability to adjust the amplification to your liking.







If you have two hearing instruments with the synchronization function enabled and you have the multifunction button set for volume control functionality, volume adjustments to one instrument will automatically repeat in the second instrument. When a volume control adjustment is made in one instrument, you will hear a confirmation beep. A beep in the second instrument will follow.

The multi-function button is designed to change the volume or listening programs of the hearing instrument, based on different ways it is pressed.

If necessary, your hearing care practitioner can change these settings and fill in the following table to indicate the new settings:

Multi-function button action	Default setting	New setting
Short press up	Increases volume	
Short press down	Decreases volume	
Long press up (3 seconds)	Changes programs	
Long press down (3 seconds	Activates streaming	









# Flight mode

When boarding a flight or entering an area where RF transmitters are prohibited, wireless functionality must be deactivated, as it is not allowed to radiate radio signals during flights or in otherwise restricted areas.

It is possible to disable wireless operation by opening and closing the battery compartment three times within a ten second period (open-close, open-close, open-close). Your instruments will now be in flight mode.

If the hearing instrument is in flight mode, the hearing instrument must have been operating in flight mode for at least 10 seconds before attempting to enable wireless again. It is possible to re-enable wireless operation by opening and closing the battery door once. 10 seconds after this operation is completed, wireless operation will begin again.

Note: It is important to wait an additional 15 seconds after wireless function resumes before opening and closing the battery compartment again for any reason. If the battery compartment is opened and closed during this 15 second window, flight mode will resume.







#### Telephone use

If your hearing instruments are fit with a receiver open dome or receiver tulip dome, you can probably use the telephone as you normally would by holding it up to your ear canal opening. If your hearing instruments are fit with a receiver power dome or RIE or UP mold, finding the optimal position for holding a telephone while using a hearing instrument may require practice for some individuals, and one or more of the following suggestions may be helpful.

- 1. Hold the telephone as you would normally.
- 2. Hold the telephone towards the top of the ear (closer to where the microphones are located).
- If whistling occurs, it may take a brief moment of holding the telephone in the same position before the hearing instrument adapts and reduces the feedback.
- 4. Any whistling may also be decreased by holding the telephone slightly away from the ear.
- 5. Depending on your individual needs, your hearing care professional may activate a program specifically for telephone use.









#### Listen to radio or TV

When listening to the TV or the radio, start out by listening to news commentators since they usually speak clearly, then try other programs.

If you find it difficult to listen to TV or radio, your hearing care professional will be able to give you advice on available wireless accessories to enhance your listening capabilities for TV and radio.

# Using hearing instruments with iPhone®, iPad®, and iPod touch® (TruHearing Flyte)

TruHearing Flyte is a Made for iPhone instrument and allows for direct communication and control with an iPhone, iPad, or iPod touch. For assistance in pairing and using these products with your Truhearing Flyte device, please contact your hearing care professional or visit our support site at www.userguides.gnhearing.com/.

# Cellular phones

Your hearing instrument is designed to comply with the most stringent Standards of International Electromagnetic Compatibility. However, not all cell phones are hearing instrument compatible. The varying degree of disturbance can be due to the nature of your particular cellular phone or of your wireless telephony service provider.

If you find it difficult to obtain a good result while using your cellular phone, your hearing care professional will be able to give you advice on available wireless accessories to enhance listening capabilities.







#### **PhoneNow**

The PhoneNow function, allows your hearing instrument to automatically switch to your telephone program when a telephone receiver is raised to the ear. When the telephone receiver is removed from the ear, the hearing instrument automatically returns to the previous listening program.





#### Placement of PhoneNow magnets

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

- 1. Clean the telephone receiver thoroughly.
- 2. Hold the telephone vertically, in a position similar to when making a telephone call.
- 3. Place the magnets just below the telephone receiver. Make sure not to cover the microphone openings. If necessary, move the magnet to another position to improve ease of use and comfort while speaking.
- 4. If you are not satisfied with the strength of PhoneNow, you can reposition the PhoneNow magnet or add additional PhoneNow magnets.

#### PhoneNow usage

Telephones can be used in a normal manner. A short melody will indicate that the PhoneNow feature has automatically switched the hearing instrument to your telephone program. Initially, you may need to move the telephone receiver slightly to find the best position for reliable PhoneNow activation and good hearing on the telephone.

If you have two hearing instruments with the synchronization function enabled, the volume of hearing instrument on the non-phone ear will be turned down.







Only use recommended cleaning agent to clean the telephone prior to placing the magnet on the phone in order to obtain best possible adherence.



- 1. Keep magnets out of reach of pets, children and mentally challenged persons. If a magnet is swallowed, please seek advice from a medical practitioner.
- 2. The magnet may affect some medical devices or electronic systems. The manufacturer of any magnetically sensitive devices (e.g. pacemakers) should advise you regarding appropriate safety precautions when using your hearing instrument and magnet in close proximity to the medical device or electronic system 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).



#### PhoneNow precautions

- High distortion during dialing or phoning may mean that the magnet is not in the optimal position relative
  to the telephone receiver. To avoid the issue, please move the magnet to another place on the telephone
  receiver.
- 2. Only use magnets supplied by GN Hearing.







# **Telecoil (optional)**

If equipped, a telecoil can be activated by your hearing care professional and accessed through one of the additional programs. A telecoil picks up a telephone's magnetic signal and converts it to sound. An optional telephone program may help to improve speech understanding on the telephone. When using a telecoil program, the receiver of the telephone may need to be held closer to the hearing instrument. The handset of the telephone may need to be moved to slightly different positions in order to find the best reception.

#### **Tele-loop systems**

Many places, such as theaters, houses of worship, and schools are equipped with tele-loop systems. When using a telecoil program with tele-loop systems, sound is picked up directly and may improve speech understanding. If there is no sound from the hearing instruments in a tele-loop system and with a telecoil program activated, the tele-loop system may not be turned on or is not operating correctly. If a facility is not equipped with a tele-loop system, sitting as close as possible to the front may be helpful.

# **Direct audio input (optional)**

Use of direct audio input (DAI), which enables a direct connection of the hearing instruments to items such as television, radio, and remote microphones, may increase speech understanding for some individuals. The sound source is connected to the hearing instruments by a cable or a wireless FM system to the audio boot. This accessory connects to the bottom of the hearing instruments, and once properly clicked into place, the hearing instruments switch to DAI automatically.







# **Connecting/Disconnecting audio boots**

#### Connecting audio boots

- Align the tip of the audio boot with the groove just above the battery compartment and below the model number.
- 2. Once in place, move the boot in the direction of the battery compartment.
- Gently click the audio boot onto the hearing instrument.



- 4. Press and hold the button on the front side of the audio boot.
- 5. Gently remove the audio boot from the hearing instrument.











# 1 Care and maintenance

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

- 1. Keep your HAs dry and clean.
- 2. Open the battery door to dry out your HAs when you are not wearing them.
- 3. Wipe the HAs with a soft cloth after use to remove grease or moisture.
- 4. Do not wear your HAs when putting on cosmetics, perfume, after-shave, hair spray, suntan lotion etc. These might discolour the HA or get into the HA causing damage.
- 5. Do not immerse your HA in any liquid.
- 6. Keep your HAs away from excessive heat and direct sunlight. The heat may deform the shell, damage the electronics and deteriorate the surfaces.
- 7. Do not swim, shower or steam bathe while wearing your HAs.









It is important to keep your hearing instrument clean and dry. On a daily basis, clean the hearing instruments using a soft cloth or tissue.











#### The receiver tube

The receiver tube contains the wiring to the receiver which delivers the sound to the ear canal. It is important that the receiver tube and the receiver dome/RIE mold fits correctly in your ear. If the receiver tube or the receiver dome/RIE mold irritates your ear in any way and prevents you from wearing your hearing instrument, please contact your hearing care professional. You should never attempt to modify the shape of the receiver tube yourself. The receiver tube and the receiver dome/RIE mold should be cleaned regularly. Please see instructions in the next section.

# Cleaning the receiver tubes and domes

The receiver tube and the receiver dome should be cleaned regularly. Use a damp cloth to clean the receiver tube and receiver dome on the outside. Do not use water when you are cleaning the receiver tubes or the receiver domes. This process is also used to clean the UP receiver mould.

NOTE: We recommend that you change the tube and the dome system every three months. If the parts get stiff or brittle, change them sooner.

# Cleaning RIE or molds (does not apply for UP molds)

- 1. Detach the earmould and tubing from the hearing aid before cleaning.
- 2. Use a mild soap to clean the earmould and rinse with lukewarm water.
- Dry the earmould thoroughly. Use the airbulb and cleaning wire to remove residual water and debris from the tubing.

NOTE: Earmould tubing may become stiff, brittle, or discoloured over time. Contact your hearing care professional regarding tube changes.









## Changing wax guard for receiver tube

For changing Cerustop (white) wax filters, the following steps are needed:

- 1. To remove the old wax guard, insert the removal side of the wax guard tool into the used wax guard so that the shaft of the tool is touching the rim of the wax guard. Slowly pull the wax guard straight out.
- 2. To insert the new wax guard, gently press the replacement side of the wax guard tool straight into the hole of the sound outlet until the outer ring lies flush with the outside of the receiver. Pull the tool straight out -the new wax guard will remain in place.







# How to apply domes

It is recommended that your hearing care professional change domes, as incorrect dome replacement could result in injury.

#### Standard domes

- 1. Push the new dome over the receiver.
- 2. Make sure that the new dome is properly and securely mounted.



#### Tulip domes

Tulip domes are mounted in a similar manner to standard domes, but a few extra steps are required. Tulip domes consist of two "petals". It is important to note that the largest petal is the outermost petal. To ensure this:

- Push the largest petal away from the receiver tube using a finger. This bends the petal forward.
- Then push the largest "petal" back, and it will be placed on top of the smaller petal.













# Using GN Hearing hearing instruments with smart phone apps



Intended use of smart phone apps:

GN Hearing smart phone apps are intended to be used with GN Hearing wireless hearing aids. GN Hearing smart phone apps send and receive signals from the GN Hearing wireless hearing aids via smart phones for which the apps have been developed.

#### Use with smart phone apps:

- Notifications of app updates should not be disabled, and it is recommended that the user installs all
  updates to ensure that the app will function correctly and will be kept up to date.
- The app must only be used with GN Hearing devices for which it is intended, and GN Hearing take no responsibility if the app is used with other devices.
- If you would like a printed version of the user guide for a smart phone app please consult customer support.



# General precautions

- 1. 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 instrument away from the affected electronic device.
- 2. When using wireless functionality and the devices are affected by electromagnetic interference, move away from the source.
- 3. Use only original GN Hearing consumables e.g. tubes and domes.
- 4. Never attempt to modify the shape of the hearing instrument, earmolds, or tubing yourself.
- 5. Only connect GN Hearing hearing instruments to GN Hearing accessories intended and qualified to be used with GN Hearing hearing instruments.









# **General warnings**

- 1. If a hearing aid is broken, do not use it
- 2. 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
- 3. Different types of radiation, e.g. from 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 hearing aids
- 4. 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. This may cause damage to the hearing of the other individual or to the 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
- 7. Hearing aids should be used only as prescribed by your hearing care professional. Incorrect use may result in sudden and permanent hearing loss
- 8. Warning to hearing care professionals: Special care should be exercised in selecting and fitting hearing aids with maximum sound pressure level that exceeds 132dB SPL with an IEC 60711:1981 occluded ear simulator. The remaining hearing may risk further impairment.
- 9. When boarding a flight or entering an area where RF transmitters are prohibited, deactivate wireless functionality. Turn off your wireless functionality by using the flight mode in areas where radio frequency emission is prohibited











 External devices connected to the electrical input must be safe according to the requirements of IEC 60601-1-1, IEC 60065, or IEC 60950-1, as appropriate ( wired connection, for example HIPRO, SpeedLink)



- \* GN Hearing wireless devices operate in the frequency range of 2.4 GHz 2.48 GHz.
- \* GN Hearing wireless devices include a RF transmitter that operates in the range of 2.4 GHz 2.48 GHz.
- \* For use of wireless functionality only use GN Hearing accessories. For further guidance regarding e.g. pairing, please refer to the user guide of the relevant GN Hearing accessory.







## **Tinnitus Sound Generator (TSG) module**

#### Intended use for the TSG module

Your ReSound hearing instrument includes the Tinnitus Sound Generator function, a tool for generating sounds to be used in tinnitus management programmes to relieve suffering from tinnitus.

The Tinnitus Sound Generator can generate sounds adjusted to the specific therapeutic needs and your personal preference as determined by your doctor, audiologist, or hearing healthcare professional. Depending on the selected hearing instrument programme and the environment you are in, you will sometimes hear the therapeutic sound resembling a continuous or fluctuating humming.

#### 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 programmes to relieve suffering from tinnitus.

## Explanation of how the device functions

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 healthcare professional.

Your doctor, audiologist or hearing healthcare professional can modulate the generated noise with the purpose of making it more pleasant. The noise can then resemble, for example, crashing 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 healthcare 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 healthcare 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 healthcare professional can set the TSG Module so that it becomes audible exclusively in such surroundings. The overall sound level can be adjusted via an optional volume control. Your doctor, audiologist or hearing healthcare professional will review with you the need for having such a control.

For hearing aids where ear to ear synchronisation is enabled your hearing healthcare 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 if the hearing aid has a volume control then the background noise level monitored by the hearing aid and the volume control can be used simultaneously to adjust the generated noise level in both hearing aids.

#### TSG volume control

The sound generator is set to a specific loudness level by the hearing healthcare 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.







## Using TSG with smart phone apps

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

To use smart phone apps the hearing aid must be connected with the smart phone or mobile device.

# The scientific concepts that form the basis for the device

The TSG module provides sound enrichment with the aim of surrounding 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 a majority of instances, the TSG module can also be set to mask the tinnitus sound, so to provide temporary relief by introducing a more pleasant and controllable sound source.







## **Technical Specifications**

Audio signal technology

Digital

#### Available sounds

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

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

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









# **TSG** warnings

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



# TSG precautions

- 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.
- Children and physically or mentally challenged users will require guardian supervision while wearing the TSG hearing instrument.
- The volume control is an optional feature in the TSG module used for adjusting the sound generator output level. To prevent unintended usage by pediatric or physically or mentally challenged users, the volume control must, if enabled, be configured to only provide a decrease of the sound generator output level.









# TSG warning to hearing healthcare professionals

A hearing healthcare 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 healthcare 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:

- (i) Visible congenital or traumatic deformity of the ear.
- (ii) History of active drainage from the ear within the previous 90 days.
- (iii) History of sudden or rapidly progressive hearing loss within the previous 90 days.
- (iv) Acute or chronic dizziness.
- (v) Unilateral hearing loss of sudden or recent onset within the previous 90 days.
- (vi) Audiometric air-bone gap equal to or greater than 15dB at 500 hertz (Hz), 1000 Hz, and 2000 Hz.
- (vii) Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
- (viii) 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 85db SPL or above. When the sound generator is set to levels of 90db 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.









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# **Battery warning information**

Batteries, although very small, contain dangerous substances, and should be disposed of carefully. This is for the safety of you and the environment. Please note:

- DO NOT RECHARGE ZINK AIR BATTERIES THEY MAY LEAK OR EXPLODE.
- 2. DO NOT attempt to dispose of batteries by burning them. Used batteries are harmful to the environment.
- 3. Please dispose of them according to local regulations or return them to your hearing care practitioner.
- DO NOT place batteries in your mouth. Consult a physician immediately if a battery has been swallowed, as they can be harmful to your health.
- 5. Keep batteries away from pets, children and individuals who are mentally challenged.
- BATTERIES MAY LEAK. REMOVE THE BATTERY IF YOU LEAVE THE HEARING AIDS UNUSED FOR LONGER PERIODS.
- 7. If the batteries are not inserted correctly, the device will not work and the batteries may build up heat. If this happens, please remove the batteries.







# Hearing instrument expectations

A hearing instrument will not restore normal hearing and will not prevent or improve a hearing impairment resulting from organic conditions. Consistent use of the hearing instrument is recommended. In most cases, infrequent use does not permit you to attain full benefit from it.

The use of a hearing instrument is only part of hearing rehabilitation and may need to be supplemented by auditory training and instructions in lip-reading.









# Warning to hearing aid dispensers (US Only)

A hearing aid dispenser should advise a prospective hearing aid user to consult promptly with a licensed physician (preferably an ear specialist) before dispensing a hearing aid if the hearing aid dispenser 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:

- (i) Visible congenital or traumatic deformity of the ear.
- (ii) History of active drainage from the ear within the previous 90 days.
- (iii) History of sudden or rapidly progressive hearing loss within the previous 90 days.
- (iv) Acute or chronic dizziness.
- (v) Unilateral hearing loss of sudden or recent onset within the previous 90 days.
- (vi) Audiometric air-bone gap equal to or greater than 15 decibels at 500 hertz (Hz), 1.000 Hz, and 2.000 Hz.
- (vii) Visible evidence of significant cerumen accumulation or a foreign body in the ear canal.
- (viii) Pain or discomfort in the ear.

## Important notice for prospective hearing aid users (US Only)

Good health practice requires that a person with a hearing loss have a medical evaluation by a licensed physician (preferably a physician who specializes in diseases of the ear) before purchasing a hearing aid. 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 assure that all medically treatable conditions that may affect hearing are identified and treated before the hearing aid is purchased.







Following the medical evaluation, the physician will give you a written statement that states that your hearing loss has been medically evaluated and that you may be considered a candidate for a hearing aid. The physician will refer you to an audiologist or a hearing aid dispenser, as appropriate, for a hearing aid evaluation. The audiologist or hearing aid dispenser will conduct a hearing aid evaluation to assess your ability to hear with and without a hearing aid. The hearing aid evaluation will enable the audiologist or dispenser to select and fit a hearing aid to your individual needs. If you have reservations about your ability to adapt to amplification, you should inquire about the availability of a trial-rental or purchase-option program. Many hearing aid dispensers now offer programs that permit you to wear a hearing aid for a period of time for a nominal fee after which you may decide if you want to purchase the hearing aid.

Federal law restricts the sale of hearing aids to those individuals who have obtained a medical evaluation from a licensed physician. Federal law permits a fully informed adult to sign a waiver statement declining the medical evaluation for religious or personal beliefs that preclude consultation with a physician. The exercise of such a waiver is not in your best health interest and its use is strongly discouraged.

# Children with hearing loss (US Only)

In addition to seeing a physician for a medical evaluation, a child with a hearing loss should be directed to an audiologist for evaluation and rehabilitation since hearing loss may cause problems in language development and the educational and social growth of a child. An audiologist is qualified by training and experience to assist in the evaluation and rehabilitation of a child with a hearing loss.







# **Troubleshooting Guide**

SYMPTOM	CAUSE	
No sound	Not turned on	
	Dead battery	
	Battery door will not close	
	Blocked RIE mold or tube	
	Blocked wax filter	
Not loud enough	Incorrect RIE mold placement	(
	Blocked RIE mold or dome	
	Change in hearing sensitivity	
	Excessive ear wax	
	Volume set too low	





	POSSIBLE REMEDY
	Turn on by closing the battery door
	Replace battery
	Insert battery properly
	Clean RIE mold or tube
	Replace wax filter or consult your hearing care professional
)	Reinsert RIE mold
	Clean RIE mold, replace dome, replace filter
	Consult your hearing care professional
	Consult your hearing care professional
	Consult your hearing care professional







# **Troubleshooting Guide**

SYMPTOM	CAUSE	
Excessive whistling /	Incorrect RIE mold placement	
feedback	Incorrect dome placement	
	Excessive ear wax	
	Feedback control may need adjustment	
	RIE mold tubing worn or damaged	
	Hearing instrument settings not optimal	(
Sound distorted / Weak battery		
not clear	Improper RIE mold or dome fit	
	Hearing instrument damaged	
	Hearing instrument settings not optimal	
Wireless does not work	Possible Root Cause - Device is in flight mode	







POSSIBLE REMEDY
Re-insert RIE mold carefully
Re-insert dome
Consult your hearing care professional
Replace battery
Consult your hearing care professional
Consult your hearing care professional
Consult your hearing care professional
Open and close the battery compartment once. Wireless will reactivate 10 seconds later. (If Root Cause is device in flight mode)

If there are any other problems not mentioned in this guide, please contact your hearing care professional.





## **Technical data**

## **RIE - LP receiver**

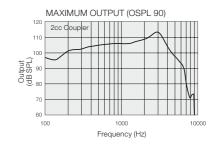
Models: FL962-DRW LP, FL762-DRW LP, FP962-DRW-LP, FP762-DRW-LP

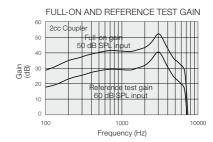
Reference test gain (60 dB SPL input)	HFA	31	dB
Full-on gain (50 dB SPL Input)	Max HFA	52 43	dB dB
Maximum output (90 dB SPL input)	Max HFA	113 108	dB SPL dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.3 0.5 0.7	% % %
Telecoil sensitivity (SPLIV @ 31,6 mA/m)		90	dB SPL
Equivalent input noise (w/o noise reduction)		23	dB SPL
Frequency range (DIN 45605)		100- 7060	Hz
Current drain (in test mode)		1.3	mA

Note: Telecoil sensitivity only applicable for 62 RIE models

Data in accordance with ANSI S3.22–2009 and IEC 60118-7; Supply Voltage 1.3 V, 2cc coupler







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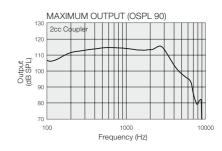
### RIE-MP receiver

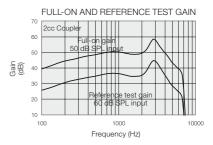
Model: FL962-DRW MP, FL762-DRW MP, FP962-DRW-MP, FP762-DRW-MP

Reference test gain (60 dB SPL input)	HFA	37	dB
Full-on gain (50 dB SPL Input)	Max HFA	58 51	dB dB
Maximum output (90 dB SPL input)	Max HFA	116 114	dB SPL dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.5 0.6 1.2	% % %
Telecoil sensitivity (SPLIV @ 31.6 mA/m)		96	dB SPL
Equivalent input noise (w/o noise reduction)		23	dB SPL
Frequency range (DIN 45605)		100- 7000	Hz
Current drain (in test mode)		1.3	mA

Note: Telecoil sensitivity only applicable for 62 RIE models

Data in accordance with ANSI S3.22–2009 and IEC 60118-7; Supply Voltage 1.3 V, 2cc coupler









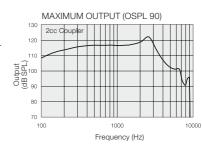
## RIE-HP receiver

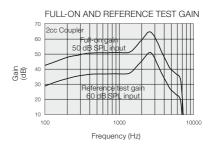
Model: FL962-DRW HP, FL762-DRW HP, FP962-DRW-HP, FP762-DRW-HP

Reference test gain (60 dB SPL input)	HFA	42	dB
Full-on gain (50 dB SPL Input)	Max HFA	65 56	dB dB
Maximum output (90 dB SPL input)	Max HFA	122 118	dB SPL dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.6 1.2 0.7	% % %
Telecoil sensitivity (SPLIV @ 31.6 mA/m)		101	dB SPL
Equivalent input noise (w/o noise reduction)		23	dB SPL
Frequency range (DIN 45605)		100- 6030	Hz
Current drain (in test mode)		1.3	mA

Note: Telecoil sensitivity only applicable for 62 RIE models

Data in accordance with ANSI S3.22–2009 and IEC 60118-7; Supply Voltage 1.3 V, 2cc coupler







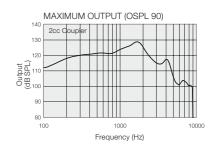
### RIE-UP receiver

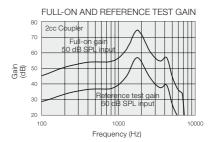
Model: FL962-DRW UP, FL762-DRW UP, FP962-DRW-UP, FP762-DRW-UP

Reference test gain (60 dB SPL input)	HFA	47	dB
Full-on gain (50 dB SPL Input)	Max HFA	75 64	dB dB
Maximum output (90 dB SPL input)	Max HFA	129 124	dB SPL dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	1.3 2.1 0.1	% % %
Telecoil sensitivity (SPLIV @ 31.6 mA/m)		107	dB SPL
Equivalent input noise (w/o noise reduction)		23	dB SPL
Frequency range (DIN 45605)		100- 4910	Hz
Current drain (in test mode)		1.2	mA

Note: Telecoil sensitivity only applicable for 62 RIE models

Data in accordance with ANSI S3.22–2009 and IEC 60118-7; Supply Voltage 1.3 V, 2cc coupler











## Warranty and repairs

GN Hearing provides a warranty on hearing instruments in the event of defects in workmanship or materials, as described in applicable warranty documentation. In its service policy, GN Hearing pledges to secure functionality at least equivalent to the original hearing instrument. As a signatory to the United Nations Global Compact initiative, GN Hearing is committed to doing this in line with environment-friendly best practices. Hearing instruments therefore, at GN Hearing'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 instruments is designated on your warranty card, which is provided by your hearing care professional.

For hearing instruments that require service, please contact your hearing care professional for assistance. GN Hearing hearing instruments that malfunction must be repaired by a qualified technician. Do not attempt to open the case of hearing instruments, as this will invalidate the warranty.

## Temperature test, transport and storage information

GN 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 transport or storage, the temperature should not exceed the limit values of  $-20^{\circ}$ C ( $-4^{\circ}$ F) to  $+60^{\circ}$ C ( $+140^{\circ}$ F) and relative humidity of 90% RH, non-condensing (for limited time). The air pressure between 500 hPa and 1,100 hPa is appropriate..







Be aware of information marked with the warning symbol



**WARNING** points out a situation that could lead to serious injuries, **CAUTION** indicates a situation that could lead to minor and moderate injuries



Advice and tips on how to handle your hearing instrument better.



Equipment includes RF transmitter

TruHearing Flyte is compatible with iPhone 7 Plus, iPhone 7, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone SE, iPhone 5s, iPhone 5c, iPhone 5, iPad Pro (12.9-inch), iPad Pro (9.7-inch), iPad Air 2, iPad Air, iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, iPad (4th generation), iPod touch (6th generation) and iPod touch (5th generation) using iOS 8.X or later. Apple, the Apple logo, iPhone, iPad Pro, iPad Air, iPad mini, iPad and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.



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Please ask your local hearing care professional concerning disposal of your hearing instrument













#### Manufacturer:

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