

Made for
iPhone | iPad | iPod

User guide

Beltone Receiver-In-The-Ear hearing aids



 **Beltone**

Hearing aid information

Left hearing aid		Right hearing aid	
Serial number		Serial number	
Model number		Model number	
Battery type	<input type="checkbox"/> 312 <input type="checkbox"/> 13		

Dome/mould type	Open dome <input type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large	Power dome <input type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Large	<input type="checkbox"/> Tulip	<input type="checkbox"/> RIE mould
-----------------	---	--	--------------------------------	------------------------------------

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

Table of Contents

Introduction	5
Your hearing aid	7
How to get your hearing aid ready for use	10
How to place the hearing aids in your ears	13
How to remove the hearing aids from your ears	17
How to use your hearing aids	19
Direct Audio Input	23
Advanced options	25
How to clean and maintain your hearing aids	33
Wireless accessories	38
Tinnitus management	40
General warnings	48
Troubleshooting	50
Regulatory information	52
Technical specifications	56
Additional information	60

Introduction

Thank you for choosing Beltone hearing aids. 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 Breaker Pro module

The Tinnitus Breaker Pro 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



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



Legal manufacturer.



Follow instructions for use. (Logo in blue)



Product is a Type B applied part.



Equipment includes an RF transmitter.

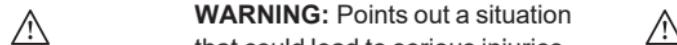


Regulatory compliance mark for Australia and New Zealand.



Do not dispose of electronic devices or batteries with ordinary household waste. They should be disposed of at sites intended for electronic waste or returned to a hearing care professional for safe disposal.

Please note: There may be specific regulations in your country.



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



Date of manufacture.



Unique Device Identification.



IMDA label for Singapore.

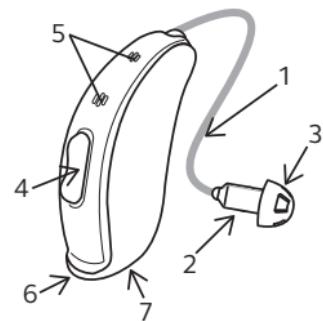


By prescription only (US).

Your hearing aid

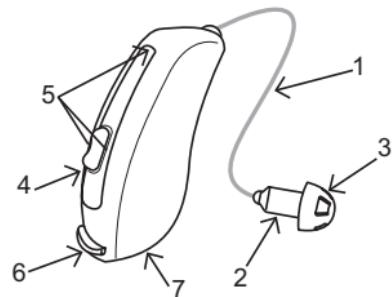
64 model

1. Receiver wire
2. Receiver
3. Dome (an open dome is shown)
4. Multi-function button
5. Microphone inlets
6. Battery compartment
7. Model and serial number (in the battery compartment)



63 model

1. Receiver wire
2. Receiver
3. Dome (an open dome is shown)
4. Push button
5. Microphone inlets
6. Battery compartment
7. Model and serial number (in the battery compartment)



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.



How to get your hearing aid ready for use

Battery warnings



WARNING: Batteries contain dangerous substances and should be disposed of carefully in the interest of your safety and for the environment. Please note:

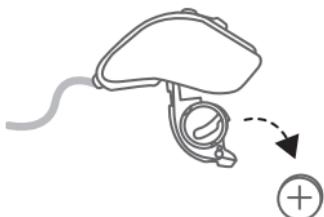
- Never put a hearing aid battery in your mouth.
- Never swallow batteries nor place them inside any part of the body, as the battery can cause serious injuries. If a battery has been swallowed or placed inside any part of the body, seek immediate medical attention.
- Do not recharge zinc-air batteries – they may leak or explode.
- Batteries are harmful for 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.
- Batteries may leak. Remove the battery if you leave the hearing aids unused for longer periods.
- 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.

NOTE:

- Always use new zinc-air batteries that have a minimum remaining shelf life of one year.

How to insert the battery in your hearing aid

1. Open the battery door completely by using your fingernail. Remove the used battery if present
2. Prepare the new battery. Remove the protective foil to activate the battery. Wait for **two minutes** before inserting the battery into the hearing aid
3. Insert the new battery with the positive side in the correct position. Always insert the battery in the battery compartment door, never directly into the hearing aid. Close the battery door



NOTE: Whenever the hearing aids are not in use, remember to turn them off to avoid unnecessary battery consumption.

At night, switch off the hearing aids and open the battery doors completely to allow moisture to evaporate and prolong the hearing aids' lifespan.

If the hearing aids are experiencing frequent loss of connection to wireless accessories, contact your hearing care professional for a list of low impedance batteries.

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. When the batteries deplete, the support of some wireless accessories shut down. Full functionality returns when you insert a new battery. The table below shows how the functionality changes with the battery level.

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

How to place the hearing aids in your ears

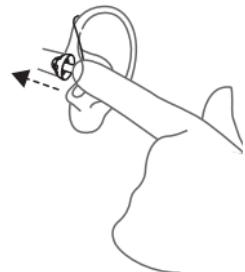
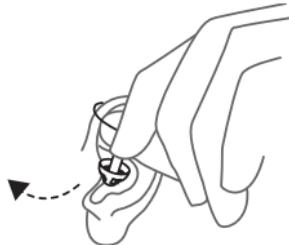
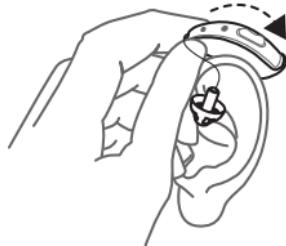
How to tell left from right

If you have two hearing aids, they may be programmed differently. One for your left ear, the other for your right. Do not swap them. Please pay attention to this when cleaning, storing, and inserting the hearing aids.

You might want to ask your hearing care professional to mark your hearing aids with a coloured Left and Right indication: Left is blue and Right is red.

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.

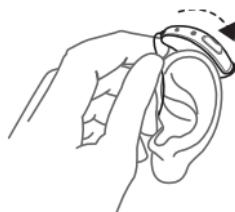
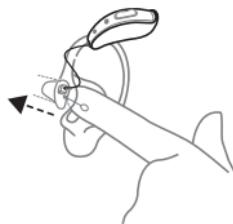
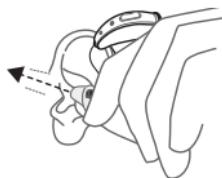
To avoid whistling, it is important that the tube and the dome fit correctly into your ear. For other possible reasons, check with the Troubleshooting guide.



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:

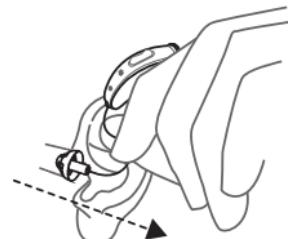
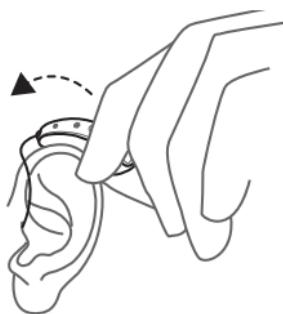
1. Insert the hearing aid as usual
2. Tuck the sport lock in the bottom of the concha.

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

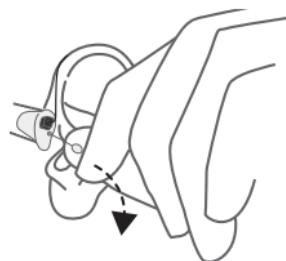
How to remove the receiver dome from your ear

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

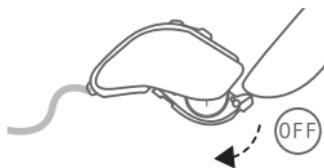
Turn your hearing aids on and off

Once you have placed the hearing aids on your ears, you can turn them on. The hearing aid always starts in program 1 and with the preset volume.

Close the battery door to turn the hearing aid on in program 1.



Open the battery door to turn off the hearing aid. Use your fingernail to pull it open.



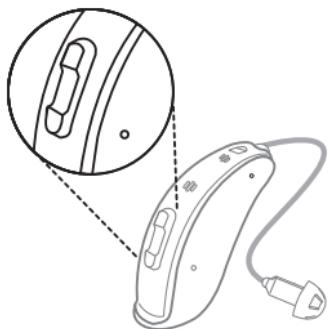
Delayed Activation

Delayed Activation delays the time before the hearing aids turns on after closing the battery doors. With this function you will hear a beep for each second of the delay period (5 or 10 seconds delay).

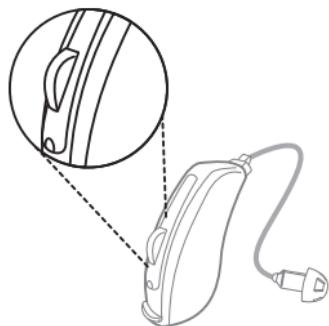
If you do not want to turn on the hearing aids prior to placing them on your ear, ask your hearing care professional to deactivate this function.

The push button/multi-function button

If you have hearing aids with a push button or multi-function button, this will allow you to use up to four different listening programs, each of them suitable for certain situations.



Multi-function button (64 models only)



Push button (63 models only)

1. Push the program button to switch between programs
2. You will then hear one or more beeps. The number of beeps indicates which program you have selected
3. When you turn the hearing aids off and then back on, they always return to the default setting (program 1 and pre-set volume)

It should not be necessary to control the volume manually. However, in addition to controlling listening programs, the multi-function/push button provides you with the ability to adjust the amplification to your liking.

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

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

Button action	Default setting	New setting
Short press up	Increases volume	
Short press down	Decreases volume	
Long press up (3 seconds)	Changes programme	
Long press down (3 seconds)	Activates streaming	

NOTE: If you have two hearing aids with the Synchronised Button feature enabled, program changes to one hearing aid automatically repeat in the second hearing aid. When you change a program in one hearing aid, it responds with one or more beeps. The same number of confirmation beeps repeats in the second hearing aid. This function can also be configured to allow one side to control volume increase and the other side to control volume decrease. The volume changes to one hearing aid are repeated on the other side to keep the levels the same.

Telecoil

(Optional for 64-DRWT models only)

Your hearing aid may have a telecoil. The Telecoil function may help to improve understanding of speech with Hearing Aid Compatible (HAC) telephones and in theatres, cinemas, houses of worship, etc. that have a teleloop

installed.

When you select the Telecoil program, your hearing aid picks up signals from the teleloop or HAC telephone. Your hearing care professional can activate the Telecoil program.

NOTE:

- The telecoil does not work without a teleloop (that is, an induction loop) or a HAC telephone.
- If you are having trouble hearing with the telecoil, ask your hearing care professional to adjust the program.
- If there is no sound from your hearing aids in a teleloop system with an active Telecoil function, the teleloop system may not be turned on or may not be operating correctly.
- The sound from the teleloop and the hearing aids' microphones can be mixed according to your preference. Ask your hearing care professional for more details.

Direct Audio Input

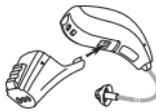
(Optional for 64-DRWT models only)

You can connect a DAI (Direct Audio Input) adapter to the bottom of your hearing aid. Once connected, the hearing aid automatically switches to DAI. The sound is then sent directly to your hearing aid using a cable or a wireless FM system.

If you want to be able to hear what happens around you, you can combine the DAI input with the sounds picked up by your hearing aid's microphones.

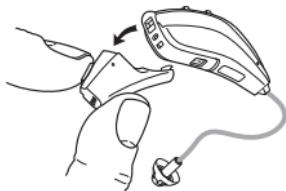
NOTE: Your hearing aid's battery will drain faster if you use the DAI functionality.

How to connect a DAI adapter



1. Align the tip of your DAI adapter with the groove on top of the battery door.
2. Move the adapter towards the battery door.
3. Click the adapter onto the hearing aid.

How to disconnect a DAI adapter



- Press the small latch downwards and gently remove the adapter from the hearing aid.

CAUTION

- Do not use two transmitters on the same FM channel.
- Do not use water or fluids for cleaning the FM click-on receiver.
- Do not use an FM transmitter in locations where it is forbidden to use electronic devices, for instance in airplanes.
- Be aware that FM signals might also be picked up and overheard by other receivers.
- Before using the system in another country, contact your hearing care professional to make sure your radio channel is permitted in that country.
- Your FM boot and transmitter may only be repaired by an authorised service centre.

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:

1. Hold the telephone up to your ear canal or hold it close to the hearing aid microphones as illustrated.
2. 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.
3. 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 38.

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 AndroidTM 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 at beltone.com 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 Beltone Direct Phone Link 2.



Beltone Remote Care and Beltone Remote Care Live (optional)

Beltone Remote Care

If you have signed up to use Beltone Remote Care 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 Beltone HearMax™ app.

For optimum performance, make sure the hearing aids are connected to the Beltone HearMax™ 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.

Beltone Remote Care Live

This service also includes Beltone Remote Care Live. With this service you can get face-to-face assistance from your hearing care professional from home.

Auto-Phone (optional)

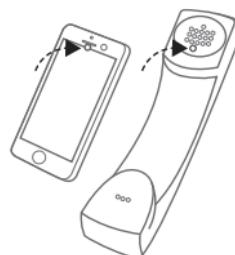
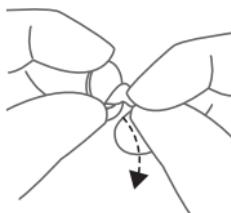
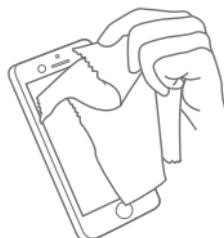
If you place a magnet on the telephone receiver, your hearing aids will automatically switch the telephone program on when the receiver is close to your ear. When you remove the receiver from your ear, the hearing aids automatically return to the previous listening program.

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

Place the Auto-Phone magnet

Place the magnet on your telephone receiver to allow operation of the Auto-Phone 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 Auto-Phone, 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 Auto-Phone

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 Auto-Phone activation and a good hearing experience on the telephone.

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

Ask your hearing care professional to enable Auto-Phone 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.



Auto-Phone 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.
- 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 aid 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).



Auto-Phone precautions

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

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 off wireless mode:

1. For each hearing aid, open and close (open-close, open-close, open-close) the battery door three times within a 10-second period.
2. Double-dings for ten seconds ( etc.) indicate that your hearing aid is in Flight mode.

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

Follow these steps to activate wireless mode:

1. For each hearing aid, open and close the battery door once.
2. Your hearing aids are in wireless mode after 10 seconds.

It is important to wait an additional 15 seconds after wireless function resumes before opening and closing the battery compartment again for any reason. Flight mode will resume if you open and close the battery compartment during this 15 second window.

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.

- Keep your hearing aids dry and clean.
- Open the battery door to dry your hearing aids when you are not wearing them.
- 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.

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.

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.

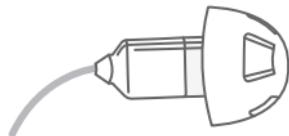
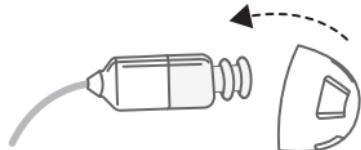
NOTE: Do not use water when you are cleaning the receiver wires or the receiver domes.

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

How to change domes

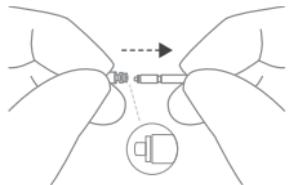
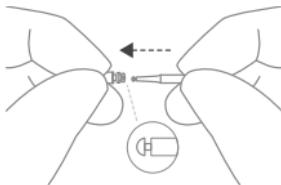
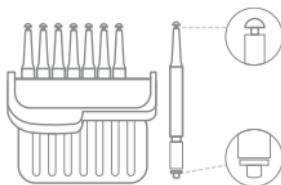
Follow these steps to mount domes. This procedure shows an open dome, but you can follow the exact same procedure if you have a tulip or power dome.

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.



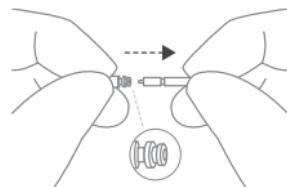
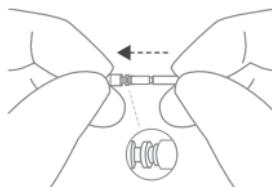
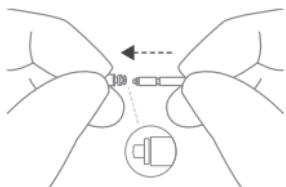
How to change the wax guard

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.

Wireless accessories

Our wireless eco-system features a comprehensive range of seamlessly integrated wireless accessories. These let you stream high quality stereo sound and speech directly to your hearing aids.

- **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 25.

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 Beltone wireless accessories.
- You should only use Beltone 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 Breaker Pro module

Your hearing aid includes the Tinnitus Breaker Pro (TBP) module. The Tinnitus Breaker Pro (TBP) Module is a tool that generates sounds to be used in tinnitus management programmes to temporarily relieve suffering from tinnitus. The TBP 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 TBP module - (US only)

The Tinnitus Breaker Pro 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.

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

User instructions for the TBP module

Description of the device

The Tinnitus Breaker Pro (TBP) 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 TBP 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 Breaker Pro 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 TBP 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 TBP 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 TBP 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 TBP 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 TBP module can also be set to mask the tinnitus sound, to provide temporary relief by introducing a more pleasant and controllable sound source.

TBP 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 TBP module used for adjusting the sound generator output level.

Using TBP with smartphone apps

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

TBP - 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 Breaker Pro hearing aid

The TBP 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 TBP, 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 TBP 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 Breaker Pro 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 Breaker Pro 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 Breaker Pro.
4. The volume control is a feature in the TBP 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 TBP hearing aid.
6. Adjustment of the Tinnitus Breaker Pro 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 Beltone Remote Care 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 Breaker Pro 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 your earmould or dome inserted correctly?	Put it in again.
	Is the volume very loud?	Reduce it.
	Is the receiver wire broken or the earmould clogged?	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 physician.
No sound	Is the hearing aid turned on?	Switch it on.
	Is there a battery in the hearing aid?	Insert a new battery.
	Is the battery still good?	Replace with a new one.
	Is the receiver wire broken or the earmould clogged?	Consult your hearing care professional.
	Is your ear full of wax?	Visit your physician.

Issue	Potential cause	Potential solution
Sound is distorted, spluttering or weak?	The battery is dead	Replace it with a new one.
	Is the battery dirty?	Clean it or replace it with a new one.
	Is the receiver wire broken or the earmould clogged?	Consult your hearing care professional.
	Did your hearing aid get moist?	Use a desiccant.
Battery drains very quickly.	Did you leave your hearing aid switched on for long periods of time?	Always switch off your hearing aid when you are not using them, e.g. during the night.
	Is the battery old?	Check the battery packaging.

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

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 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.

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

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. Its 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).
- Hereby, Beltone A/S declares that the radio equipment types BER13 and VER12 are in compliance with Directive 2014/53/EU.
- The full text of the EU declaration of conformity is available at the following internet address: www.beltone.com/en/declarations.
- 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:

BER13, FCC ID:X26BER13, IC: 6941C-BER13 and

VER12, FCC ID: X26VER12, IC: 6941C-VER12.

This device includes an RF transmitter which operates in the frequency band of 2.4 GHz – 2.48 GHz.

Hearing aid variantsAvailability of models may vary by country.

Receiver-in-the-ear (RIE) hearing aids of type **BER13** with FCC ID X26BER13, IC number 6941C-BER13 and size 13 battery, are available in the following variant(s):

AMZ664-DRW, AMZ964-DRW, AMZ1764-DRW

AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT.

Nominal RF output power transmitted is +1.1 dBm

Mini Receiver In-the-Ear (RIE) hearing aids of type **VER12** with FCC ID X26VER12, IC number 6941C-VER12 and size **312** battery are available in the following variant(s):

AMZ663-DRW AMZ963-DRW AMZ1763-DRW.

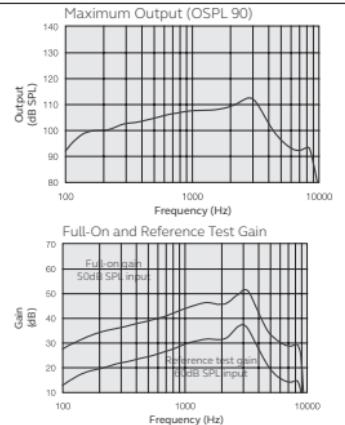
Nominal RF output power transmitted is +1 dBm.

Technical specifications

RIE - LP receiver

Models: AMZ663-DRW AMZ963-DRW AMZ1763-DRWAMZ664-DRW, AMZ964-DRW, AMZ1764-DRW AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT,

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	%
Telecoil sensitivity (1 mA/m input)* HFA - SPLIV @ 31.6 mA/m (ANSI) Full-on telecoil sensitivity @ 1 mA/m	Max HFA HFA	82 91 76	dB SPL
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
Current Drain (Quiescent/Operating)		1.13/1.28	mA



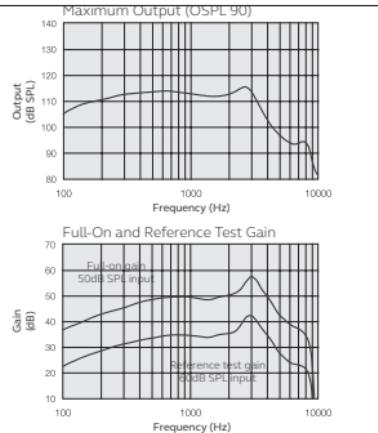
* Telecoil is only for these models: AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT

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

RIE - MP receiver

Models: AMZ663-DRW AMZ963-DRW AMZ1763-DRWAMZ664-DRW, AMZ964-DRW, AMZ1764-DRW AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT,

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	%
Telecoil sensitivity (1 mA/m input)* HFA - SPLIV @ 31.6 mA/m (ANSI) Full-on telecoil sensitivity @ 1 mA/m	Max. HFA HFA	86 96 81	dB SPL
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
Current Drain (Quiescent/Operating)		1.13/1.19	mA



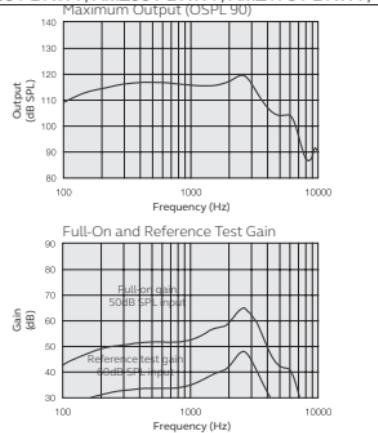
* Telecoil is only for these models: AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT

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

RIE - HP receiver

Models: AMZ663-DRW AMZ963-DRW AMZ1763-DRWAMZ664-DRW, AMZ964-DRW, AMZ1764-DRW AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT,

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	%
Telecoil sensitivity (1 mA/m input)* HFA - SPLIV @ 31.6 mA/m (ANSI) Full-on telecoil sensitivity @ 1 mA/m	Max. HFA HFA	95 100 89	dB SPL
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
Current Drain (Quiescent/Operating)		1.13/1.18	mA



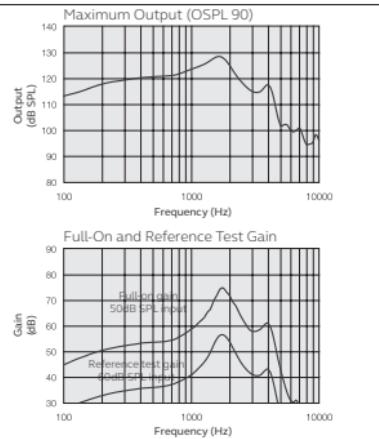
* Telecoil is only for these models: AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT

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

RIE - UP receiver

Models: AMZ663-DRW AMZ963-DRW AMZ1763-DRWAMZ664-DRW, AMZ964-DRW, AMZ1764-DRW AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT,

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	%
Telecoil sensitivity (1 mA/m input)* HFA - SPLIV @ 31.6 mA/m (ANSI) Full-on telecoil sensitivity @ 1 mA/m	Max. HFA HFA	105 108 96	dB SPL
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
Current Drain (Quiescent/Operating)		1.14/1.21	mA



* Telecoil is only for these models: AMZ664-DRWT, AMZ964-DRWT, AMZ1764-DRWT

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

Additional information

Acknowledgements

Portions of this software are written by Kenneth MacKay (micro-ecc) and licensed under the following terms and conditions:

Copyright © 2014, Kenneth MacKay. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NOTE: Use of the Made for Apple badge means that an accessory has been designed to connect specifically to iPhone, iPad, and iPod touch models, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

© 2024 GN Hearing A/S. All rights reserved. Beltone is a trademark of GN Hearing A/S. Apple, the Apple logo, iPhone, iPad, iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc., registered in the US and other countries. Android, Google Play and the Google Play logo are trademarks of Google LLC. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

Notes

Notes



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



Beltone A/S
Lautrupbjerg 7
DK-2750 Ballerup
Denmark

United Kingdom
GN Hearing UK Ltd
Unit 13 Talisman Business Centre
Bicester OX26 6HR
United Kingdom
Tel.: +44 1869 352 800
beltone.com

Australia
GN Hearing Australia Pty Ltd
Gate C, 19-25 Khartoum Rd
Macquarie Technology Park
Macquarie Park NSW 2113
Australia
Tel.: (free) 1800 658 955
beltone.com

New Zealand
GN Hearing New Zealand Limited
Ground Floor, North Entrance
4 Fred Thomas Drive
Takapuna, Auckland, 0622
Tel.: (free) 0800 900 126
beltone.com

Singapore
GN Hearing Pte. Ltd
456 Alexandra Road
Fragrance Empire Building #22-01
Singapore 119962
Tel: +65 6320 9388
beltone.com



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