

# Instructions for use

OTICON | **Opn**  
miniRITE



Made for



iPod



iPhone



iPad

**oticon**  
PEOPLE FIRST

## Model overview

This booklet is valid for miniRITE in the following hearing aid families with NFMI and 2.4 GHz radio functionality:

### FW 1

- ☐ Oticon Opn 1    GTIN: (01) 05707131327390

The following speakers are available for the above family:

- ☐ Speaker 60
- ☐ Speaker 85

### FW 2

- ☐ Oticon Opn 1    GTIN: (01) 05707131328502
- ☐ Oticon Opn 2    GTIN: (01) 05707131328014
- ☐ Oticon Opn 3    GTIN: (01) 05707131328021

The following speakers are available for the above families:

- ☐ Speaker 60
- ☐ Speaker 85
- ☐ Speaker 100
  
- ☐ Power Mold speaker 105

## Introduction to this booklet

This booklet shows you how to use and maintain your new hearing aid. Please read the booklet carefully including the **Warning section**. This will help you to get the most out of your new hearing aid.

Your hearing care professional has adjusted the hearing aid to meet your needs. If you have further questions, please contact your hearing care professional.

| **About** | [Startup](#) | [Handling](#) | [Options](#) | [Warnings](#) | [More info](#) |

For your convenience this booklet contains a navigation bar to help you navigate easily through the different sections.

## Intended use

The hearing aid is intended to amplify and transmit sound to the ear and thereby compensate for impaired hearing within mild to severe-to-profound hearing loss. The hearing aid is not intended to be used by infants/children < 36 months.

### IMPORTANT NOTICE

The hearing aid amplification is uniquely adjusted and optimized to your personal hearing capabilities during the hearing aid fitting performed by your hearing care professional.

## Table of contents 1/2

### About

Identify your hearing aid speaker and earpiece	10
Your hearing aid - What it is	12
What it does	13
Identify left and right hearing aid	14
Battery (size 312)	15
MultiTool for handling batteries and cleaning	16

### Start up

Turn the hearing aid ON and OFF	18
When to replace a battery	19
Replace the battery	20

### Handling

Put on the hearing aid	22
Caring for your hearing aid	24
Replace ProWax miniFit filter	26
Standard earpieces: dome or Grip Tip	28

Replace dome or Grip Tip	29
Customized earpieces: MicroMold, LiteTip or Power Mold	30
Clean MicroMold, LiteTip or Power Mold	31

### Options

Flight mode	32
Optional features and accessories	33
Change volume (optional)	34
Mute the hearing aid (optional)	35
Change program (optional)	36
Quick reset	38
Using hearing aids with iPhone, iPad and iPod touch	39
Pairing hearing aids with iPhone	40
Re-connect your hearing aids to your iPhone, iPad or iPod touch	42
Oticon ON App	43
Wireless accessories (optional)	44
Other options (optional)	45

Continues on next page

# Table of contents 2/2

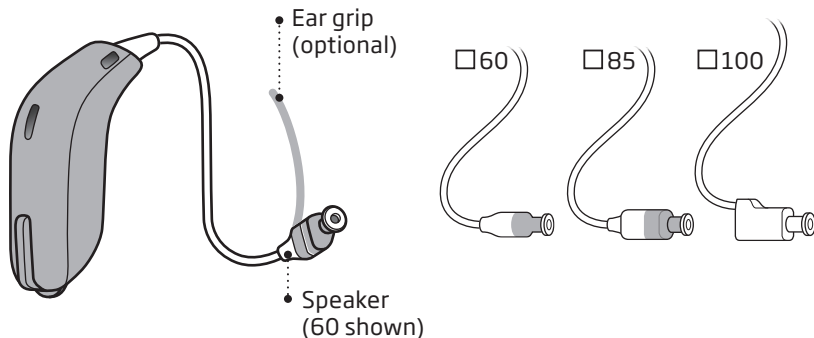
<b>Warnings</b>		<b>More info</b>	
Usage of hearing aids	46	Troubleshooting guide	56
Choking hazards & risk of swallowing batteries	46	Water & dust resistant (IP68)	58
Dysfunction	48	Conditions of use	59
Active implants	48	Warranty certificate	60
X-ray, CT, MR, PET scanning and electrotherapy	49	International warranty	61
Heat and chemicals	49	Mobile phone	62
Power instrument	50	Technical information	64
Possible side effects	50	Technical Data	66
Interference	51		
Use on Aircraft	51		

## Identify your hearing aid speaker and earpiece

This will make it easier for you to navigate through this booklet.

### Speakers

miniRITE hearing aids come with three different speakers:



### Earpieces

The speaker uses one of the following earpieces:

### miniRITE with Power Mold speaker



☐ Dome (open dome shown)\*



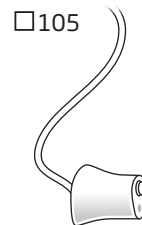
☐ Grip Tip



☐ VarioTherm® MicroMold or LiteTip

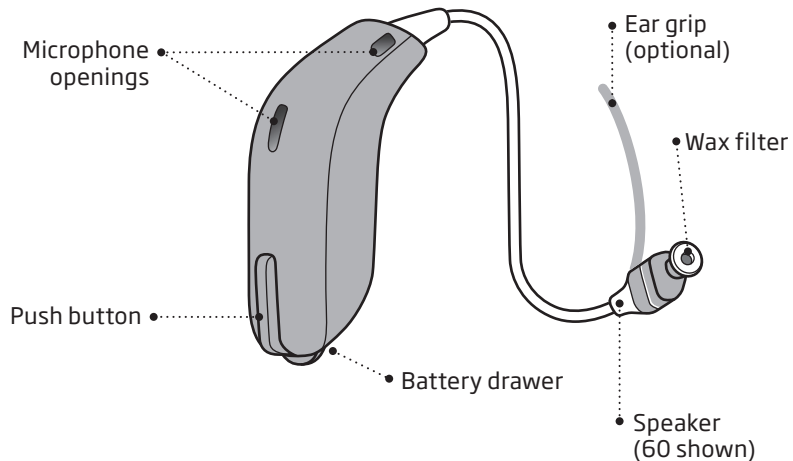


☐ MicroMold or LiteTip

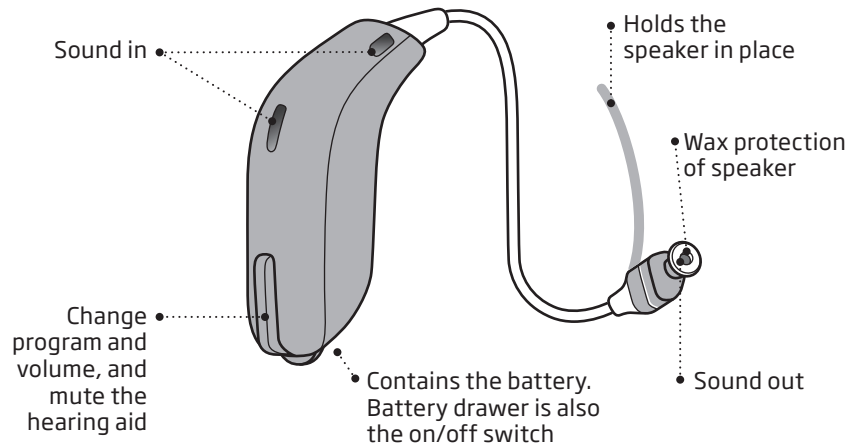


\* Please see details for replacing the dome or Grip Tip in section: Replace dome or GripTip® VarioTherm is a registered trademark of Dreve

## Your hearing aid - What it is

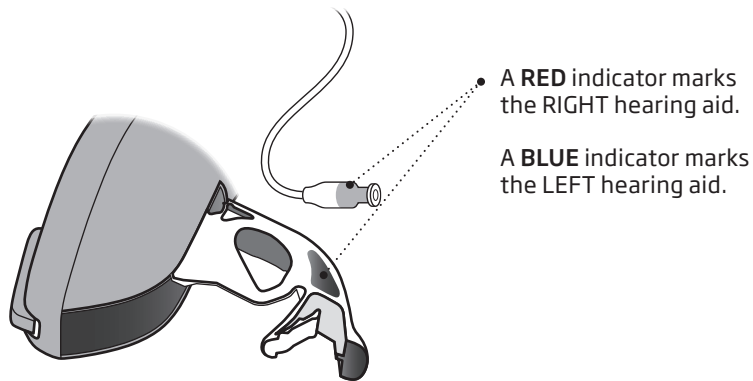


## What it does



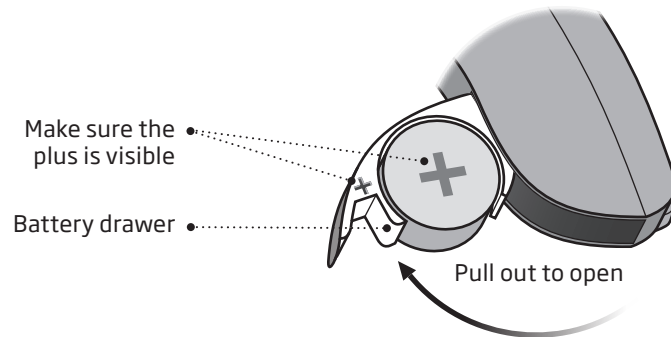
## Identify left and right hearing aid

It is important to distinguish between the left and the right hearing aid as they might be programmed differently. You can find left/right color indicators in the battery drawer, on 60 and 85 speakers, on the MicroMolds or on LiteTips.



## Battery (size 312)

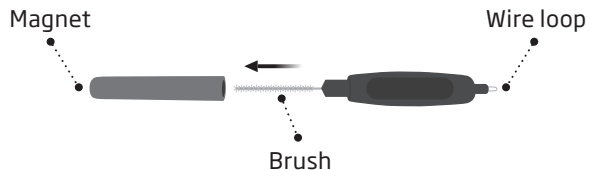
Your hearing aid is a miniature electronic device that runs on special batteries. To activate the hearing aid, you must insert a new battery in the battery drawer. See how in the “Replace the battery” section.





## MultiTool for handling batteries and cleaning

The MultiTool contains a magnet which makes it easier to replace the battery in the hearing aid. It also contains a brush and a wire loop for cleaning and removing ear wax. If you need a new MultiTool please contact your hearing care professional.



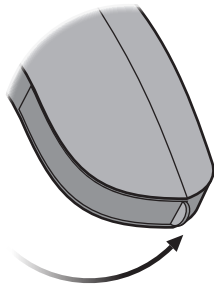
### IMPORTANT NOTICE

The MultiTool has a built-in magnet. Keep the MultiTool 30 cm away from credit cards and other magnetically sensitive devices.

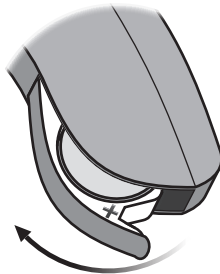
## Turn the hearing aid ON and OFF

The battery drawer is used to switch the hearing aid on and off. To save battery life, make sure your hearing aid is switched off when you are not wearing it.

**Turn ON**  
Close the battery drawer with the battery in place.



**Turn OFF**  
Open the battery drawer.



## When to replace a battery

When it is time to replace the battery you will hear three beeps repeated at moderate intervals until the battery runs out.



**Three beeps**  
= The battery is running low



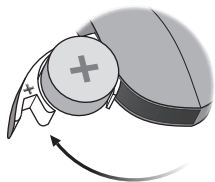
**Four beeps**  
= The battery has run out

### Battery tip

To make sure the hearing aid is always working, bring spare batteries with you, or replace the battery before you leave home.

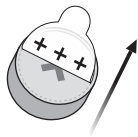
## Replace the battery

### 1. Remove



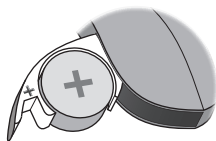
Fully open the battery drawer. Remove the battery.

### 2. Uncover



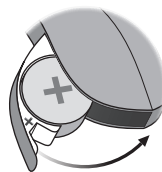
Remove the sticky label from the + side of the new battery.

### 3. Insert



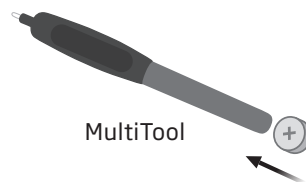
Insert the new battery into the battery drawer. Make sure the + side faces up.

### 4. Close



Close the battery drawer. The hearing aid will play a jingle through the earpiece. Hold the earpiece close to your ear to hear the jingle.

### Tip



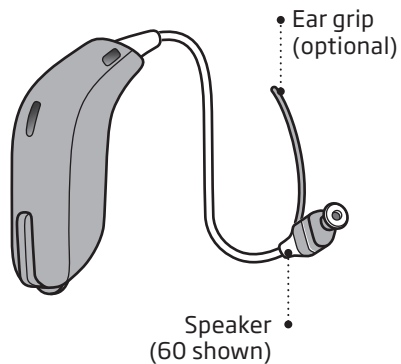
The MultiTool can be used for battery change. Use the magnetic end to remove and insert batteries.

The MultiTool is provided by your hearing care professional.

## Put on the hearing aid

The speaker brings the sound into your ear. The speaker should always be used with an earpiece attached. Use only parts designed for your hearing aid.

If the speaker has an ear grip, place it in the ear so it follows the contour of the ear (see step 3).

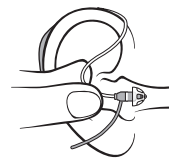


### Step 1



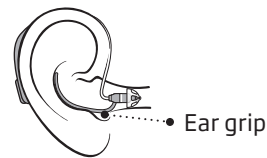
Place the hearing aid behind your ear.

### Step 2



Hold the bend of the speaker wire between your thumb and index finger. The earpiece should point towards the ear canal opening.

### Step 3



Gently push the earpiece into your ear canal until the speaker wire sits close against the side of your head.

## Caring for your hearing aid

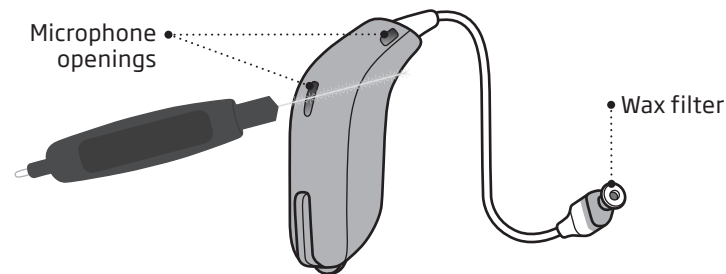
When handling your hearing aid, hold it over a soft surface to avoid damage if you drop it.

### Clean the microphone openings

Carefully brush away debris from the openings. Gently brush the surface. Make sure the brush is clean and that it is not pressed into the openings.

### Wax filter

The speaker has a white wax filter attached to the end where the earpiece is attached. The wax filter will avoid wax and debris from damaging the speaker. If the filter becomes clogged, please replace the wax filter (see section Replace ProWax miniFit filter) or contact your hearing care professional.

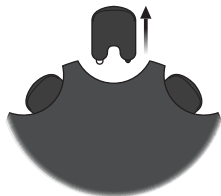


### IMPORTANT NOTICE

Use a soft, dry cloth to clean the hearing aid. It must never be washed or immersed in water or other liquids.

## Replace ProWax miniFit filter

### 1. Tool



Remove the tool from the shell. The tool has two pins, one empty for removal and one with the new wax filter.

### 2. Remove



Push the empty pin into the wax filter in the speaker and pull it out.

### 3. Insert



Insert the new wax filter using the other pin, remove the tool and throw it out.

### 4. Final



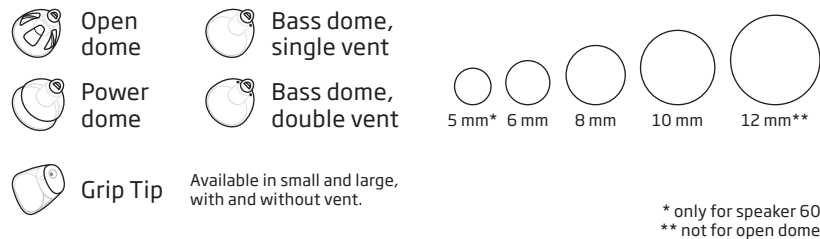
The speaker should look like above when you have replaced the wax filter.

#### Note:

If you use a mold it requires that the hearing care professional replaces the wax filter in the speaker.

## Standard earpieces: dome or Grip Tip

Both domes and Grip Tip are made of soft rubber material. There are 4 different types of domes. Check your dome type and size below.



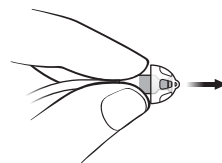
### IMPORTANT NOTICE

If the earpiece is not on the speaker when removed from the ear, the earpiece might still be in the ear canal. Consult your hearing care professional for further instructions.

## Replace dome or Grip Tip

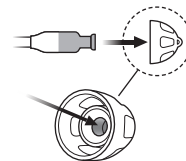
The earpiece (dome or Grip Tip) should not be cleaned. If the earpiece is filled with wax, replace it with a new one. Grip Tip should be replaced at least once a month.

### Step 1



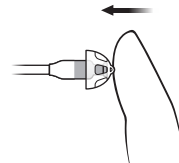
Hold on to the speaker and then pull off the earpiece.

### Step 2



Insert the speaker exactly into the middle of the earpiece to obtain a firm attachment.

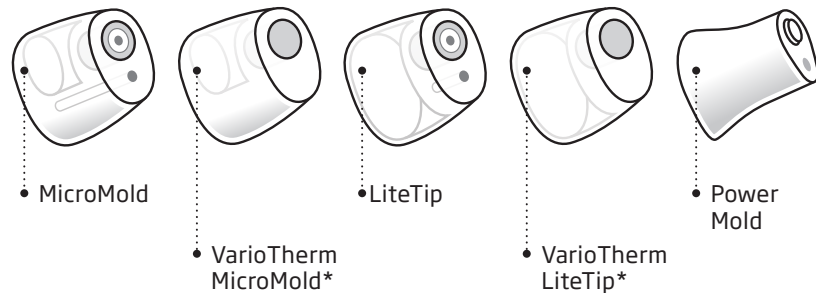
### Step 3



Push firmly to ensure that the earpiece is fastened securely.

## Customized earpieces: MicroMold, LiteTip or Power Mold

There are 5 different types of molds: MicroMold and LiteTip, which are available in two different materials and a Power Mold. The earpieces are customized for your ear.



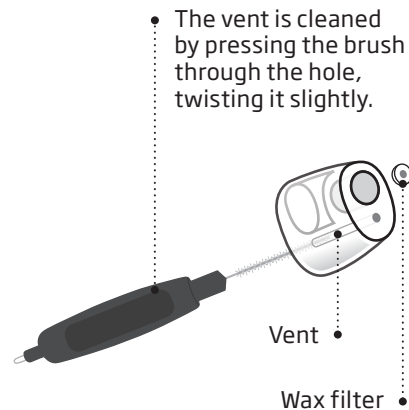
\* VarioTherm MicroMold and LiteTip do not have a wax filter

## Clean MicroMold, LiteTip or Power Mold

The earpiece should be cleaned regularly.

The earpiece contains a wax filter which should be replaced when clogged or when the hearing aid does not sound normal.

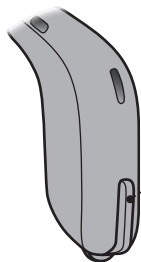
Always use the wax filter delivered by your hearing care professional.





## Flight mode

When boarding an airplane or entering an area where it is prohibited to radiate radio signals, e.g. during a flight, flight mode must be activated. The hearing aid will still be working. It is only necessary to activate flight mode on one hearing aid.



- To activate and deactivate flight mode. Press the push button for at least 7 seconds. A jingle confirms your action.

Opening and closing the battery drawer will also deactivate the flight mode. See section: Quick reset.

## Optional features and accessories

The features and accessories described on the following pages are optional. Please contact your hearing care professional to find out how your hearing aid is programmed.

If you experience difficult listening situations, a special program may be helpful. These are programmed by your hearing care professional.

*Write down hearing situations where you may need help.*

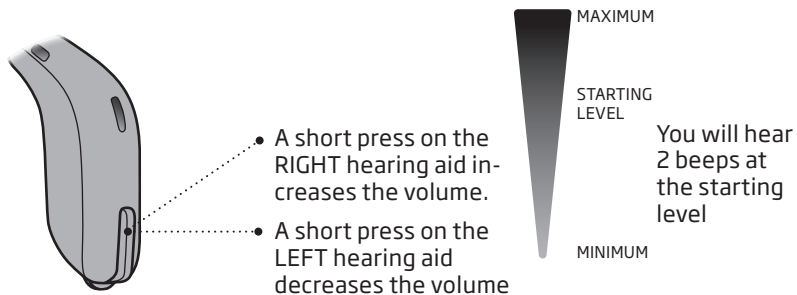
---

---

---

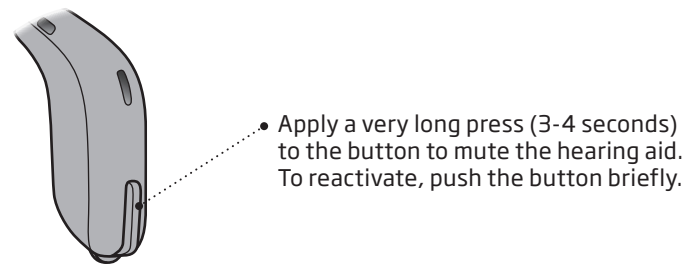
## ☐ **Change volume** (optional)

When you have two hearing aids, the push button allows you to adjust the volume in both ears. You will hear a click when you turn the volume up or down.



## ☐ **Mute the hearing aid** (optional)

Use the mute function if you need to silence the hearing aid while wearing it.

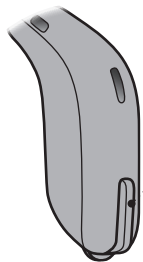


### **IMPORTANT NOTICE**

Do not use the mute function as an off switch, as the hearing aid still draws current from the battery in this mode.

## ☐ **Change program** (optional)





Your hearing aid can have up to 4 different programs.  
These are programmed by your hearing care professional.



- Press the button to change program

Note that if you have two hearing aids, the RIGHT hearing aid switches forwards from e.g. program 1 to 2 and the LEFT hearing aid switches backwards from e.g. program 4 to 3.

To be filled out by the hearing care professional

Program	Sound you will hear when activated	When to use
1	 "1 beep"	
2	 "2 beeps"	
3	 "3 beeps"	
4	 "4 beeps"	

Program change:

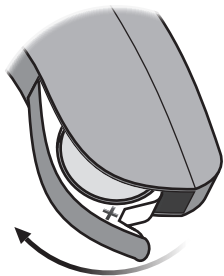
☐ Short press

☐ Long press

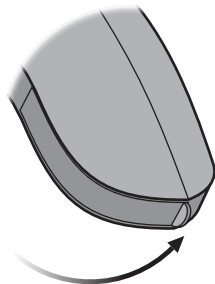
## Quick reset

If you wish to return to the standard settings of the hearing aid programmed by your hearing care professional, simply open and then close the battery drawer. A jingle will play when you reset the hearing aid.

Open



Close



## Using hearing aids with iPhone, iPad and iPod touch

Your hearing aid is a Made for iPhone® hearing aid and allows for direct communication and control with an iPhone, iPad® or iPod touch®.

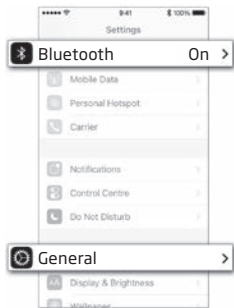
For assistance in using these products with your hearing aids, please contact your hearing care professional or visit our support site at: [www.oticon.com/support](http://www.oticon.com/support)



Oticon Opn is compatible with iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, 9.7-inch iPad Pro, 12.9-inch iPad Pro, iPad Air 2, iPad Air, iPad (4th generation), iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, and iPod touch (5th and 6th generation). Devices must be running iOS 9.3 or later.

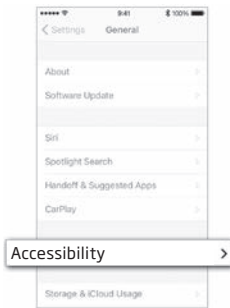
# Pairing hearing aids with iPhone

## 1. Settings



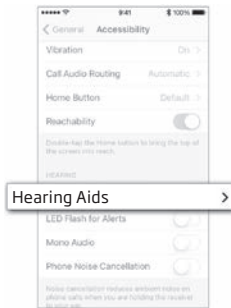
Open your iPhone and go to "Settings". Make sure Bluetooth is on. Then choose "General".

## 2. General



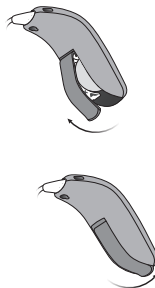
On the "General" screen, choose "Accessibility".

## 3. Accessibility



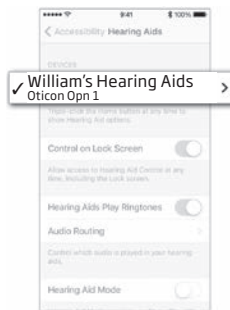
On the "Accessibility" screen, choose "Hearing Aids".

## 4. Prepare



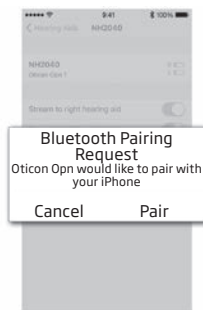
Open and close the battery drawer, on both hearing aids, and place them close to your iPhone. The hearing aids stay in pairing mode for 3 minutes.

## 5. Select



Your iPhone will detect the hearing aids for pairing. Detected devices will appear in your iPhone list. Choose your hearing aids.

## 6. Confirm pairing



Confirm pairing. If you have two hearing aids, pairing confirmation is needed for each hearing aid.

## Re-connect your hearing aids to your iPhone, iPad or iPod touch

When you turn off your hearing aids or Apple device, these will no longer be connected. To connect them again, turn on your hearing aids by opening and closing the battery door. The hearing aids will then automatically re-connect to your Apple device.

“Made for iPod,” “Made for iPhone,” and “Made for iPad” mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, 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. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

## Oticon ON App

Oticon ON App for iPhone, iPad, iPod touch and Android™ devices offers an intuitive and discreet way to control your hearing aids. Oticon ON App enables you to connect and control an endless range of other devices by linking to IFTTT via the internet. Go to [www.oticon.com/support](http://www.oticon.com/support) for more details and information on compatibility.

Oticon ON App is available on the App Store® and on Google Play™. When downloading Oticon ON App on iPad, search for iPhone apps on the App Store.



Apple, the Apple logo, iPhone, iPad, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Apple Watch is a trademark of Apple Inc. App Store is a service mark of Apple Inc. Android, Google Play and the Google Play logo are trademarks of Google Inc.

## ☐ **Wireless accessories** (optional)

As an enhancement to your wireless hearing aids, a range of wireless accessories are available. They can enable you to hear and communicate better in many everyday situations.

### **ConnectClip**

When ConnectClip is paired with your mobile phone, you can use the hearing aids as a handsfree headset.

### **TV Adapter 3.0**

TV Adapter is a wireless transmitter of sound from TV and electronic audio devices. The TV Adapter streams sound directly to your hearing aids.

### **Remote Control 3.0**

Remote Control offers the ability to change program, adjust volume or mute your hearing aids.

For more information, please contact your hearing care professional or visit:  
[www.oticon.com/support](http://www.oticon.com/support)

## ☐ **Other options** (optional)



### **Autophone**

The autophone can automatically activate a phone program in the hearing aid, if your telephone has a dedicated magnet. The magnet needs to be placed at your telephone next to the sound outlet.

For more information, please contact your hearing care professional.

## Warnings

You should familiarize yourself fully with the following general warnings before using your hearing aid for your personal safety and to ensure correct use.

Please note that a hearing aid will not restore normal hearing and will not prevent or improve a hearing impairment resulting from organic conditions. Furthermore, note that in most cases, infrequent use of a hearing aid does not permit a user to attain full benefit from it.

Consult your Hearing Care Professional if you experience unexpected operations or events with your hearing instrument.

### Usage of hearing aids

- Hearing aids should be used only as directed and adjusted by your hearing care professional. Misuse can result in sudden and permanent hearing loss.
- Never allow others to wear your hearing aid as incorrect usage could cause permanent damage to their hearing.

### Choking hazards & risk of swallowing batteries

- Hearing aids, their parts, and batteries should be kept out of reach of children and anyone who might swallow these items, or otherwise cause injury to themselves.

- Batteries have occasionally been mistaken for pills. Therefore, check your medicine carefully before swallowing any pills.
- Most hearing aids can be supplied with a tamper-resistant battery drawer upon request. This is strongly recommended for infants, small children and people with learning difficulties.
- Children below 36 months must always use a tamper-resistant battery drawer. This option is available in BTE, miniBTE, RITE and miniRITE hearing aids.

*If a battery or hearing aid is swallowed, see a doctor immediately and contact the National Poison Center at 1-800-222-1222 or National Battery Ingestion Hotline at 202-625-3333*

### Battery use

- Always use batteries recommended by your hearing care professional. Batteries of low quality may leak and cause bodily harm.
- Never attempt to recharge your batteries and never dispose of batteries by burning them. There is a risk that the batteries will explode.



## Warnings

### Dysfunction

- Be aware of the possibility that your hearing aid may stop working without notice. Keep this in mind when you depend on warning sounds (e.g. when you are in traffic). The hearing aids may stop functioning, for instance if the batteries have expired or if the tubing is blocked by moisture or ear wax.

### Active implants

- Caution must be taken with active implants. In general, follow the guidelines recommended by manufacturers of implantable defibrillators and pacemakers regarding use with mobile phones and magnets.

- The hearing aid contains a wireless transmitter. Please keep the hearing aid at least 15 cm away from the implant, e.g. do not carry it in a breast pocket.
- When the hearing aids are mounted on or in the ears, the distance between the hearing aids and the implant is larger than 15 cm.
- The Autophone magnet and Multi-Tool (which has a built-in magnet) should be kept more than 30 cm away from the implant, e.g. do not carry it in a breast pocket.

- If you have an active brain implant, please contact the manufacturer of your implantable device for information about the risk of disturbance.

### X-ray, CT, MR, PET scanning and electrotherapy

- Remove your hearing aid before X-ray, CT/MR/PET scanning electrotherapy, surgery etc. as your hearing aid may be damaged when exposed to strong fields.

### Heat and chemicals

- The hearing aid must never be exposed to extreme heat e.g. left inside a parked car in the sun.
- The hearing aid must not be dried in microwave ovens or other ovens.
- The chemicals in cosmetics, hairspray, perfume, aftershave lotion, suntan lotion and insect repellent can damage the hearing aid. Always remove your hearing aid before applying such products and allow time to dry before use.

## Warnings

### Power instrument

- Special care should be exercised in selecting, fitting and using a hearing instrument where maximum sound pressure capability exceeds 132 dB SPL (IEC 711), as there may be risk of impairing the remaining hearing of the hearing instrument user.

*For information on whether your instrument is a power instrument, speak with your hearing care professional or consult the settings overview page at the end of this manual.*

### Possible side effects

- Hearing aids, molds or domes may cause an accelerated accumulation of ear wax.
- The otherwise non-allergenic materials used in hearing aids may in rare cases cause a skin irritation or other side effects.

*Please seek consultation with a physician if these conditions occur.*

### Interference

- The hearing aid has been thoroughly tested for interference, according to the most stringent international standards. However, interference between the hearing aid and other devices (e.g. some mobile telephones, citizens band systems and shop alarm systems and other devices) may occur. If this occurs, increase the distance between the hearing aid and the interfering device.

### Use on Aircraft

- Your hearing aid contains Bluetooth. On board an aircraft, flight mode must be activated, unless Bluetooth is permitted by the flight personnel.

### **Warning to hearing instrument dispensers**

A hearing instrument dispenser should advise a prospective hearing instrument user to consult immediately with a licensed physician (preferably an ear specialist) before dispensing a hearing instrument if the hearing instrument 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.

Special care should be exercised in selecting and fitting a hearing instrument whose maximum sound pressure capability exceeds 132 dB SPL as there may be risk of impairing the remaining hearing of the hearing instrument user.

### **Important notice for prospective hearing instrument users**

- 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 instrument. Licensed physicians who specialize in diseases of the ear are often referred to as Otolar-

yingologists, Otologists or Otorhinolaryngologists. The purpose of medical evaluation is to ensure that all medically treatable conditions that may affect hearing are identified and treated before the hearing instrument 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 instrument. The physician will refer you to an audiologist or a hearing instrument dispenser, as appropriate, for a hearing instrument evaluation.

- The audiologist or hearing instrument dispenser will conduct a hearing instrument evaluation to assess your ability to hear with and without a hearing instrument. The hearing instrument evaluation will enable the audiologist or dispenser to select and fit a hearing instrument 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 instrument dispensers now offer programs that permit you to wear a hearing instrument for a period of time for a nominal fee, after which you may decide if you want to purchase the

hearing instrument. Federal law limits the sale of hearing instruments 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. A hearing instrument will not restore normal hearing and will not prevent or improve a hearing impairment resulting from organic conditions. A hearing instrument is

only part of hearing rehabilitation and may need to be supplemented by auditory training and lip reading.

that the hearing instrument be modified with a tamper-resistant battery compartment.

### **Children with hearing loss**

- In addition to seeing a physician for 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 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. If the user is an infant, small child, or person of mental incapacity, it is recommended

# Troubleshooting guide

Symptom	Possible causes	Solutions
No sound	Dead battery	Replace the battery
	Clogged earpieces (dome, Grip Tip, MicroMold, LiteTip or Power Mold)	Clean mold
		Consider replacing wax filter or dome
Intermittent or reduced sound	Clogged sound outlet	Clean mold or replace wax filter in speaker, mold or dome
	Moisture	Wipe battery with a dry cloth
	Dead battery	Replace the battery
Squealing noise	Hearing aid earpiece inserted incorrectly	Re-insert the earpiece
	Ear wax accumulated in ear canal	Have ear canal examined by your doctor
Beeping	If your hearing aid plays 8 beeps, 4 times consecutively, your hearing aid needs a microphone service check	Contact your hearing care professional
Pairing issue with Apple device	Bluetooth connection failed	<b>1)</b> Unpair your hearing aids (Settings→General→Accessibility→Hearing Aids→Devices→Forget this device). <b>2)</b> Turn Bluetooth off and on again. <b>3)</b> Open and close battery drawer on hearing aids. <b>4)</b> Re-pair hearing aids (see section Pair Hearing Aids with iPhone)
	Only one hearing aid paired	

If none of the above solutions work, consult your hearing care professional for assistance.

# Water & dust resistant (IP68)

Your hearing aid is dust-tight and protected against ingress of water which means it is designed to be worn in all daily life situations. Therefore you do not have to worry about sweat or getting wet in the rain. Should your hearing aid come in contact with water and stop working, please follow these guidelines:

- 1. Gently wipe off any water.
- 2. Open the battery drawer, remove the battery and gently wipe off any water in the battery drawer.
- 3. Let the hearing aid dry with the battery drawer left open for approximately 30 minutes.
- 4. Insert a new battery.

# Conditions of use

Operating conditions	Temperature: +1°C to +40°C Relative humidity: 5% to 93%, non-condensing
Storage and transportation conditions	Temperature and humidity should not exceed the following limits for extended periods during transportation and storage:  Temperature: -25°C to +60°C Relative humidity: 5% to 93%, non-condensing

## IMPORTANT NOTICE

Do not wear your hearing aid while showering or participating in water activities. Do not immerse your hearing aid in water or other liquids.

## Warranty certificate

Name of owner: \_\_\_\_\_

Hearing care professional: \_\_\_\_\_

Hearing care professional address: \_\_\_\_\_

Hearing care professional phone: \_\_\_\_\_

Purchase date: \_\_\_\_\_

Warranty period: \_\_\_\_\_ Month: \_\_\_\_\_

Model left: \_\_\_\_\_ Serial no.: \_\_\_\_\_

Model right: \_\_\_\_\_ Serial no.: \_\_\_\_\_

## International warranty

Your hearing aid is covered by an international limited warranty issued by the manufacturer for a period of 12 months from the date of delivery. This limited warranty covers manufacturing and material defects in the hearing aid itself, but not in accessories such as e.g. batteries, tubing, speakers, earpieces and filters, etc. Problems arising from improper/incorrect handling or care, excessive use, accidents, repairs made by an unauthorized party, exposure to corrosive conditions, physical changes in your ear, damage due to foreign objects entering the device or incorrect adjustments are NOT covered by the limited warranty and may void it. The above warranty does not affect

any legal rights that you might have under applicable national legislation governing sale of consumer goods. Your hearing care professional may have issued a warranty that goes beyond the clauses of this limited warranty. Please consult him/her for further information.

### If you need service

Take your hearing aid to your hearing care professional, who may be able to sort out minor problems and adjustments immediately.

## Mobile phone

Some hearing aid users have reported a buzzing sound in their hearing aid when they are using mobile phones, indicating that the mobile phone and hearing aid may not be compatible.

The ANSI C63.19 standard determines the prediction of compatibility between a specific hearing aid and a mobile phone by: adding the numerical value of the rating for the hearing aid immunity to the numerical value of the rating for the mobile phone emissions. A sum of 4 would indicate that the combination of wireless device and hearing aid is usable; a combined rating that equals at least 5 would provide normal use; a combined rating of 6 or greater would indicate excellent performance.

Whereas all hearing aids have acoustic coupling, only the larger hearing aids have the physical space for telecoil (inductive) coupling. These two types of coupling have different rating scales (M1-M4 for acoustic coupling and T1-T4 for telecoil coupling, respectively) and both ratings are therefore relevant when predicting the compatibility of a particular hearing aid.

For a hearing aid with both acoustic coupling and telecoil coupling with a rating of M4/T2 and with a telephone rating of M3/T3), the combined rating is 7 ( $M4 + M3$ ) for the acoustic coupling and 5 ( $T2 + T3$ ) for the telecoil coupling. According to the guidelines given above, both types of coupling

will thereby be acceptable, with the acoustic coupling indicating excellent performance and the telecoil coupling indicating normal use.

The above equipment performance measurements, categories and system classifications are based upon the best information available, but it

cannot be guaranteed that all users will be satisfied.

The immunity of this hearing aid is at least M2. The equipment performance measurements, categories and system classifications are based upon the best information available but cannot guarantee that all users will be satisfied.

### IMPORTANT NOTICE

The performance of individual hearing aids may vary with individual mobile phones. Therefore, please try this hearing aid with your mobile phone or, if you are purchasing a new phone, be sure to try it with your hearing aid prior to purchase.

For additional guidance, please ask your mobile phone provider for the booklet entitled "Hearing Aid Compatibility with Digital Wireless Cell Phones."



## Technical information

The hearing aid contains two radio technologies, which are described below:

The hearing aid contains a radio transceiver using short range magnetic induction technology working at 3.84 MHz. The magnetic field strength of the transmitter is very weak and is always below -40 dBμA/m at 10 meter distance.

The hearing aid also contains a radio transceiver using Bluetooth Low Energy (BLE) and a proprietary short range radio technology both working at 2.4 GHz. The 2.4 GHz radio transmitter is weak and is always below 4 dBm e.i.r.p. in total radiated power.

The hearing aid complies with international standards concerning electromagnetic compatibility and human exposure.

Due to the limited space available on the hearing aid relevant approval markings can be found in this document.

### USA and Canada

The hearing aid contains a radio module with the following certification ID numbers:

FCC ID: U28AUMRIT  
IC: 1350B-AUMRIT

The device complies with Part 15 of the FCC Rules and with Industry Canada's license-exempt RSSs.

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.

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

More information: [www.oticon.global](http://www.oticon.global)

## Technical Data

## miniRITE

60

2CC Coupler  
measured  
according to  
American National  
Standard  
ANSI S3.22-2014  
and ANSI S3.55-  
2014/Part 5

Supply voltage:  
Battery Zinc  
Air 1.4 Volt

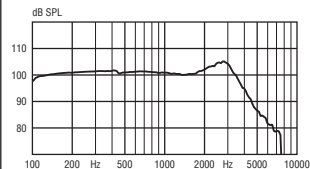
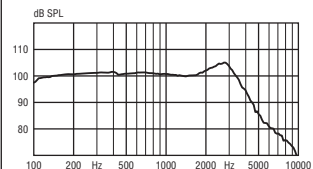
0 dB SPL ref. 20 mPa	Opn 1	Opn 2	Opn 3
Peak OSPL90	105 dB SPL	105 dB SPL	105 dB SPL
HF Average OSPL90	102 dB SPL	102 dB SPL	102 dB SPL
Peak Full-on Gain	35 dB	35 dB	35 dB
HF Average Full-on Gain	30 dB	30 dB	30 dB
Reference Test Gain	26 dB	26 dB	26 dB
Frequency Range	100-9200 Hz	100-7500 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	< 2 %	< 2 %	< 2 %
Total Harmonic Distortion 800 Hz	< 2 %	< 2 %	< 2 %
Total Harmonic Distortion 1600 Hz	< 2 %	< 2 %	< 2 %
Battery Consumption	1.6 mA	1.6 mA	1.6 mA
Equivalent Input Noise Level (omni/dir)	18/27 dB SPL	19/28 dB SPL	19/28 dB SPL
HF Average SPLITS (left/right ear)	-	-	-
Attack Time	2 ms	2 ms	2 ms
Release Time	30 ms	30 ms	30 ms

60

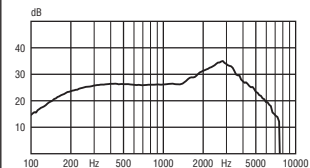
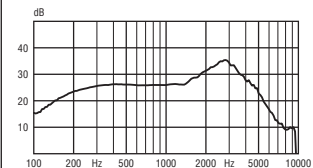
### Oticon Opn 1

### Oticon Opn 2 & Opn 3

**OSPL90 - Output  
Sound**  
**Pressure Level**  
Input: 90 dB SPL.  
Technical setting: A0



**Full-on Gain**  
Input: 50 dB SPL.  
Technical setting: A0



## Technical Data

## miniRITE

85

2CC Coupler  
measured  
according to  
American National  
Standard  
ANSI S3.22-2014  
and ANSI S3.55-  
2014/Part 5

Supply voltage:  
Battery Zinc  
Air 1.4 Volt

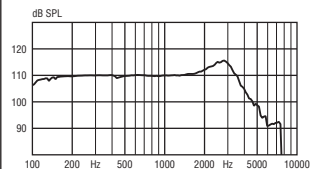
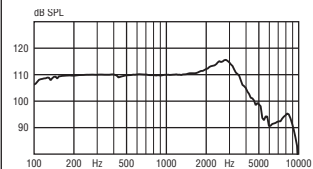
0 dB SPL ref. 20 mPa	Opn 1	Opn 2	Opn 3
Peak OSPL90	116 dB SPL	116 dB SPL	116 dB SPL
HF Average OSPL90	112 dB SPL	112 dB SPL	112 dB SPL
Peak Full-on Gain	54 dB	54 dB	54 dB
HF Average Full-on Gain	47dB	47dB	47dB
Reference Test Gain	34dB	34dB	34dB
Frequency Range	100-8500 Hz	100-7500 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	< 2 %	< 2 %	< 2 %
Total Harmonic Distortion 800 Hz	< 2%	< 2%	< 2%
Total Harmonic Distortion 1600 Hz	< 2 %	< 2 %	< 2 %
Battery Consumption	1.7 mA	1.7 mA	1.7mA
Equivalent Input Noise Level (omni/dir)	20/29 dB SPL	21/30dB SPL	21/30dB SPL
HF Average SPLITS (left/right ear)	-	-	-
Attack Time	2 ms	2 ms	2 ms
Release Time	20 ms	20 ms	20 ms

85

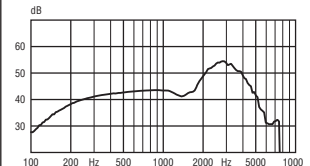
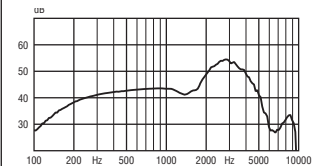
### Oticon Opn 1

### Oticon Opn 2 & Opn 3

**OSPL90 - Output  
Sound**  
**Pressure Level**  
Input: 90 dB SPL.  
Technical setting: A0



**Full-on Gain**  
Input: 50 dB SPL.  
Technical setting: A0



## Technical Data

100

2CC Coupler  
measured  
according to  
American National  
Standard  
ANSI S3.22-2014  
and ANSI S3.55-  
2014/Part 5

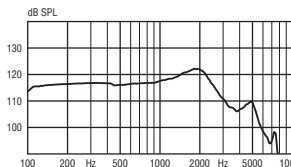
Supply voltage:  
Battery Zinc  
Air 1.4 Volt

0 dB SPL ref. 20 mPa	Opn 1	Opn 2	Opn 3
Peak OSPL90	122 dB SPL	122 dB SPL	122 dB SPL
HF Average OSPL90	118 dB SPL	118 dB SPL	118 dB SPL
Peak Full-on Gain	57dB	57dB	57dB
HF Average Full-on Gain	51dB	51dB	51dB
Reference Test Gain	42 dB	42 dB	42 dB
Frequency Range	100-8000 Hz	100-7500 Hz	100-7500 Hz
Total Harmonic Distortion 500 Hz	< 2 %	< 2 %	< 2 %
Total Harmonic Distortion 800 Hz	< 2%	< 2%	< 2%
Total Harmonic Distortion 1600 Hz	< 2 %	< 2 %	< 2 %
Battery Consumption	1.7 mA	1.7 mA	1.7 mA
Equivalent Input Noise Level (omni/dir)	19/30 dB SPL	19/30 dB SPL	19/30 dB SPL
HF Average SPLITS (left/right ear)	-	-	-
Attack Time	2 ms	2 ms	2 ms
Release Time	10 ms	10 ms	10 ms

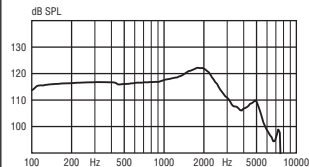
## miniRITE

100

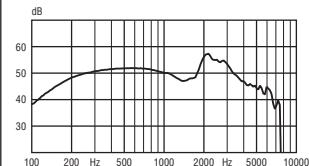
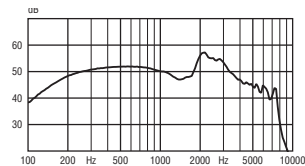
**OSPL90 - Output  
Sound  
Pressure Level**  
Input: 90 dB SPL.  
Technical setting: A0



### Oticon Opn 2 & Opn 3



**Full-on Gain**  
Input: 50 dB SPL.  
Technical setting: A0



## Technical Data

## miniRITE

105

2CC Coupler  
measured  
according to  
American National  
Standard  
ANSI S3.22-2014  
and ANSI S3.55-  
2014/Part 5

Supply voltage:  
Battery Zinc  
Air 1.4 Volt

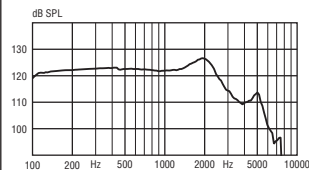
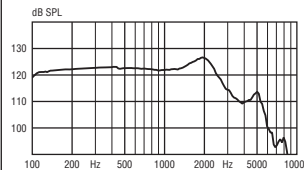
0 dB SPL ref. 20 mPa	Opn 1	Opn 2	Opn 3
Peak OSPL90	127 dB SPL	127 dB SPL	127 dB SPL
HF Average OSPL90	122 dB SPL	122 dB SPL	122 dB SPL
Peak Full-on Gain	64dB	64dB	64dB
HF Average Full-on Gain	57dB	57dB	57dB
Reference Test Gain	46 dB	46 dB	46 dB
Frequency Range	100-7800 Hz	100-6500 Hz	100-6500 Hz
Total Harmonic Distortion 500 Hz	< 2 %	< 2 %	< 2 %
Total Harmonic Distortion 800 Hz	< 2%	< 2%	< 2%
Total Harmonic Distortion 1600 Hz	< 2 %	< 2 %	< 2 %
Battery Consumption	1.7 mA	1.7 mA	1.7 mA
Equivalent Input Noise Level (omni/dir)	18/29 dB SPL	18/29 dB SPL	18/29 dB SPL
HF Average SPLITS (left/right ear)	-	-	-
Attack Time	2 ms	2 ms	2 ms
Release Time	20 ms	20 ms	20 ms

105

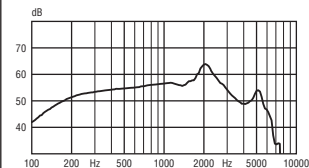
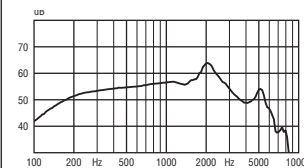
### Oticon Opn 1

### Oticon Opn 2 & Opn 3

**OSPL90 - Output  
Sound**  
**Pressure Level**  
Input: 90 dB SPL.  
Technical setting: A0



**Full-on Gain**  
Input: 50 dB SPL.  
Technical setting: A0



The manufacturer declares that this hearing aid is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Declaration of Conformity is available from the manufacturer.



Manufactured by:  
Oticon A/S  
Kongebakken 9  
DK-2765 Smørum  
Denmark  
www.oticon.global



E2831



172944US / XX.10.16

Power instrument <input type="checkbox"/> Yes <input type="checkbox"/> No				
Settings overview for your hearing aid				
Left			Right	
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Volume control	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Program shift	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Mute	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Volume control indicators				
<input type="checkbox"/> On	<input type="checkbox"/> Off	Beeps at min/max volume	<input type="checkbox"/> On	<input type="checkbox"/> Off
<input type="checkbox"/> On	<input type="checkbox"/> Off	Clicks when changing volume	<input type="checkbox"/> On	<input type="checkbox"/> Off
<input type="checkbox"/> On	<input type="checkbox"/> Off	Beeps at preferred volume	<input type="checkbox"/> On	<input type="checkbox"/> Off
Battery indicators				
<input type="checkbox"/> On	<input type="checkbox"/> Off	Low battery warning	<input type="checkbox"/> On	<input type="checkbox"/> Off

172944US / XX.10.16



0000172944000001

**oticon**  
PEOPLE FIRST

172944US / XX.09.16 / FW rev. 2.X