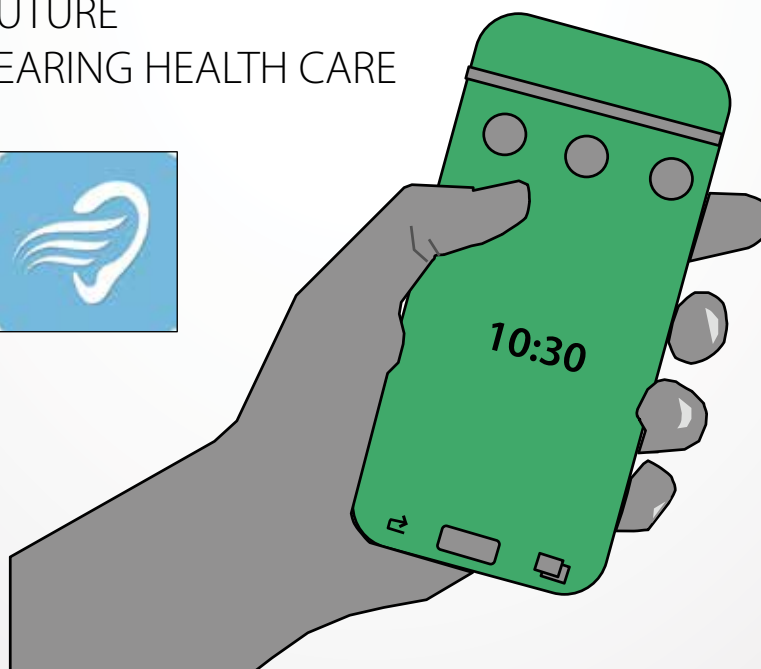


Canadian Hearing Report

Revue canadienne d'audition

VOL. 11 NO. 1 2016

PRESENT & FUTURE
TRACKING HEARING HEALTH CARE



2016 CHR PRODUCT REVIEW

HOW WELL CAN CENTENARIANS HEAR?

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The days are getting longer. We're over half way through winter now and compared to last year, it's been relatively kind to us. Then again, it's not over until it's over, right?

Here in Victoria the weather is...well, we won't bring up the obvious and to that end, I'll say no more! Welcome to the 1st issue of 2016! As with *CHR* tradition, our 1st issue of the year is always a product-focussed issue with fewer than the normal amount of articles. We have two for you however, and they are as different from each other as night and day. Here goes:

As clinicians and private practitioners, we are always looking for new and novel ways whereby to get clients to cross our doorsteps. Sometimes the approach is getting family practice physicians interested in our cause, thus gaining referrals from them. Another approach is highlighting the research linking hearing loss in the elderly to early onset of Dementia. The ads today seem flooded with this latest focus. Then again, websites from many franchises offer self-assessment of one's own hearing sensitivity, by means of informal screening tests done with one's computer speakers. The unity behind most of today's efforts whereby to garner better business is: *public, consumer-focused education of hearing, hearing loss, and hearing aids.*

Yet another example of this kind of focus is one where consumers can use the internet to locate and access hearing health care centres nearest to where they live. Once on such a site, they can see pictures of the clinicians, the offices, the services and the products, ranging from hearing aids to other available assistive listening devices. A rapidly growing and increasingly popular such instance would be "Hearing Tracker." If you're not familiar with this one, Google it up and "Czech" it out.

We begin with an interview with Abram Bailey, the founder of Hearing Tracker. He's led an interesting path through the field of Audiology, having moved to New Zealand where he practiced for a few years before returning back to the US. Let's let him tell his story though. I think you will find it interesting. Hopefully many more of you will use Hearing Tracker as a tool whereby to make yourselves even better known to potential clients.

Monty Python once said, "And now for something completely different." The title "How Well Can Centenarians Hear?" immediately caught my eye. The article concerns hearing in those who have past the ripe age of 100 years. It lately seems this population is growing by leaps and bounds. We increasingly hear on television the news of people who have passed the age of 110! In our field of hearing health care it is quite common to address Presbycusis, and we know that increasingly large and growing population to consist of those 65 years and older in age. Well now

let's just add another 35 years to that, and take another look! To the best of my knowledge, I am not aware of any previous study that specifically examined hearing in the 100+ year old population.

The article addresses not only pure-tone hearing threshold results, but it also looks at results from non-behavioural procedures such as tympanometry and oto-acoustic emissions (OAEs). Oddly enough, the section discussing Distortion Product Oto-Acoustic Emissions is titled "Transient Evoked Oto-Acoustic Emissions." As anyone who is clinically aware of OAEs will know that these are two completely different procedures. While that remains a small mystery, the content is still quite interesting. As clinicians, among our senior citizen clients, we sometimes see *very elderly* clients. This study is really about them. It offers a concise - yet detailed - report on their audiometric characteristics.

It's been my pleasure and privilege to edit *CHR* over the past year and a half. May the weather hold steady and the seas remain calm (and may spring come quickly to TROC (the rest of Canada)).

*Ted Venema, PhD,
Editor-in-Chief*

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Hearing Tracker: An Interview With Abram Bailey

Interviewed by Ted Venema, PhD, Editor-in-Chief



Dr. Bailey is a leading expert on consumer technology in the audiology industry. He is a staunch advocate for patient-centered hearing care and audiological best practices, and welcomes any technological innovation that improves access to quality hearing outcomes. Dr. Bailey holds an AuD from Vanderbilt University Medical Center.

Abram, I've recently been hearing bits and pieces about Hearing Tracker. Having looked it up on the Internet, I find you to be at their vortex central. Caughtcha! Now tell me all about it. What is Hearing Tracker, and how, when did it all get started?

Our website, HearingTracker.com, hosts an online directory of over 20,000 hearing health providers throughout the United States – the largest directory of its kind – and provides intuitive tools for locating providers based on their location, services, qualifications, and even which hearing aid brands they work with. We also host a large

collection of hearing aid reviews, but we strongly urge consumers to defer to the advice of their hearing health care professional when selecting a device.

One important side note: Our company is completely independent; we are free from any of the manufacturer biases that affect competing directories.





The future of hearing care

Hearing Tracker was founded by a Doctor of Audiology to help consumers find better hearing aids and better hearing aid providers. Hearing aids and hearing aid providers are rated by real patients. This helps ensure more meaningful information for consumers and providers. We're sure we have the best platform available, and we hope you enjoy using it as much as we do.



Hearing Tracker looks like a consumer-clinician meeting place. Tell us a bit more about how clinicians in private practice can get their names etc., listed on Hearing Tracker. What things should they be sure to include?

When we started HearingTracker.com 2 years ago, our website had zero consumer traffic. Since then the traffic has ballooned to over 30,000 monthly visits, with the vast majority of visitors coming from North America. Our approach to connecting consumers with providers has proven extremely successful, with many US-based providers responding positively to having a new organic source of patient leads.

Claiming a listing on Hearing Tracker is free and takes less than five minutes. Just visit HearingTracker.com and click on the “List Your Clinic” link on the upper-right hand corner. At minimum, be sure to include your services, hearing aid brands, a profile photo, and a practice location. We’ve also found that including a descriptive bio (*tell your*

story) greatly increases your chances of generating interest among Hearing Tracker users.

I see on your website: “Hearing Tracker is the leading online review system for hearing aids and providers. We believe that information is empowerment.” I couldn’t agree more with that last sentence. In fact, I used to tell my students, if you want to launder the word “sell,” just say “teach.” In my opinion, good explanations are the foundation of good business. So, what got you going in this directions? I mean, who lit the fire in your belly about that, and how did it all get started?

When I was practicing clinical audiology in New Zealand, I was astounded by the number of patients who came into my office with completely inappropriate (or poorly fitting) hearing aids. By following a simple set of best practices, I was able to improve the hearing outcomes for many of these patients, which often had a positive impact on their overall quality of life.

When I returned to the US, I realized clinical standards weren’t a great deal better here. I personally selected a doctor of audiology to treat my grandfather in Lafayette (Louisiana), using the American Academy of Audiology’s own provider directory. The provider performed a simple diagnostic exam, without the use of a sound-treated booth, did not perform Real Ear Measures, and failed to set goals or do any type of subjective income or outcome measurements. At that moment, it became a personal mission to help people like my grandfather find reliable hearing care.

How did you end up in New Zealand? Tell us a bit about that, and then why did you decide to return back to the US?

As an amateur landscape photographer, I was very interested in New Zealand. The scenery is out-of-this-world, and the Maori culture has always intrigued me. An opportunity came up for a paid clinical externship in the final year of my AuD program, and I jumped on

it. I met my wife after my first year in New Zealand, and ended up staying for another four years.

I was worried that my wife wouldn't like the US, seeing that there are so many cultural differences, but after a trip to Austin and New Orleans, she was up for the the adventure of moving here. My grandfather, who has since passed, was ill at the time, and I wanted to return to the US to be closer to him. I also wanted to be closer to my parents and sister, who live in Houston. Helen and I welcomed our first child, Alice, earlier this year. Helen was not impressed with our health care system (or parental leave policies)!

I can see you are a real consumer-focused group. Sergei Kochkin has long said one of the main barriers to hearing aid usage is cost-finances. What do you make of that?

There are a number of barriers to hearing aid adoption, including the looming threat of ageism, but cost is always cited as a significant concern. Some look to penetration rates in the UK and Australia, where hearing aids can be obtained at no cost, as proof that cost is not the primary barrier to hearing aid usage. I'm not sure who is right.

How do you think Personal Sound Amplification Products (also known as PSAPs) and over-the-counter hearing aids will affect the demand for traditionally fitted hearing aids?

I do believe that PSAPs have created a new parallel market for low-budget shoppers, which should act as a funnel for generating new hearing aid candidates. Of course, we need to

get our act together and improve our standard of care if we're going to impress those upgrading from PSAPs to hearing aids. If we just hit the "first-fit" button in the hearing aid manufacturer's software, we might not deliver the added value that consumers will expect (given the difference in cost).

You have a lot of interesting information on the Blog section of your website. One issue you tackle is that of assistive listening devices. What do you make of the recent renaissance in North America of loop systems for churches and other public places?

I'm really happy about the renaissance, but I'm also thinking it might be too little too late. I expect hearing aids to comply with rigorous wireless streaming protocols sometime in the near future. As wireless radios become smaller and smaller, and less power hungry, there will be a movement toward favouring this mode of sound delivery over the antiquated T-Coil technology, which is highly susceptible to interference.

I looked under your menu item "Resources." One item listed is called "Communication Needs Assessment Tool." Tell us a bit about that.

The Communication Needs Assessment Tool was developed by Cynthia Compton-Conley, PhD in order to help consumers develop a "listening-needs profile," which covers face-to-face, media, telecommunications, and alerting needs. Dr. Compton-Conley is a frequent contributor to Hearing Tracker, and helped to spearhead the partnership between Hearing Tracker and the Hearing Loss Association of America.

The tool is available to consumers online at soundstrategy.com.

How the heck did you manage to get all this material together? I mean, is this a full time occupation for you?

Ted, this truly has been a labour of love for me. Hearing Tracker was born after-work and on weekends during a very busy time for me, and gradually became my full-time job. I am a collaborator on a number of other businesses, but Hearing Tracker will always be my primary focus.

How has this venture been going? Where do you see it going into the future?

Between advertising revenue and premium subscriptions, we have managed to turn Hearing Tracker into a profitable business. It will never be the next Google or Facebook, but the goal was never to make a lot of money. If we can solidify Hearing Tracker's role as the #1 online resource for consumers seeking audiological care, and help improve hearing aid outcomes across the board, I will feel positive about the project's success.

How Well Can Centenarians Hear?

By Zhongping Mao^{1*}, Lijun Zhao¹, Lichun Pu¹, Mingxiao Wang¹, Qian Zhang², David Z. Z. He^{2,3*}

ABSTRACT

With advancements in modern medicine and significant improvements in life conditions in the past four decades, the elderly population is rapidly expanding. There is a growing number of those aged 100 years and older. While many changes in the human body occur with physiological aging, as many as 35% to 50% of the population aged 65 to 75 years have presbycusis. Presbycusis is a progressive sensorineural hearing loss that occurs as people get older. There are many studies of the prevalence of age-related hearing loss in the United States, Europe, and Asia. However, no audiological assessment of the population aged 100 years and older has been done. Therefore, it is not clear how well centenarians can hear. We measured middle ear impedance, pure-tone behavioral thresholds, and distortion-product otoacoustic emission from 74 centenarians living in the city of Shaoxing, China, to evaluate their middle and inner ear functions. We show that most centenarian listeners had an “As” type tympanogram, suggesting reduced static compliance of the tympanic membrane. Hearing threshold tests using pure-tone audiometry show that all centenarian subjects had varying degrees of hearing loss. More than 90% suffered from moderate to severe (41 to 80 dB) hearing loss below 2,000 Hz, and profound (.81 dB) hearing loss at 4,000 and 8,000 Hz. Otoacoustic emission, which is generated by the active process of cochlear outer hair cells, was undetectable in the majority of listeners. Our study shows the extent and severity of hearing loss in the centenarian population and represents the first audiological assessment of their middle and inner ear functions.

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INTRODUCTION

While many changes in the human body occur with physiological aging, age-related hearing loss ranks among the top three chronic conditions affecting adults over 65 years of age, according to the National Center for Health Statistics [1]. It has been reported that hearing loss affects approximately one-third of adults 61 to 70 years of age and more than 80% of those older than 85 years [1]. Age-related hearing loss, or presbycusis, refers to the physiological age-related changes of the peripheral and central auditory system that lead to hearing impairment and difficulty understanding spoken language. Presbycusis is characterized by decreased hearing sensitivity, reduced speech recognition in a noisy environment, and decreased central processing of acoustic information [2]. The early sign is a loss of hearing sensitivity primarily at high frequencies. Over time, the hearing threshold elevation progresses to lower frequencies. Presbycusis is bilateral, symmetrical, and often sensorineural in origin [2]. Hearing impairment hinders the exchange of information, thus significantly impacting daily life. Loss of hearing in the elderly can also contribute to social isolation and loss of autonomy, and is associated with anxiety, depression, and cognitive decline [2,3]. There is no known single cause for age-related hearing loss. Most commonly, it is caused by loss of mechanosensitive hair cells in the inner ear as one grows older. However, genetic deficits and repeated exposure to loud noises may play a major role [4]. Smoking and certain medical conditions and medications can aggravate presbycusis [5–7]. With advancements in modern medicine

and significant improvement of living conditions in the past four decades, the elderly population is rapidly expanding. There are a growing number of populations aged 100 years and older. Although there are many studies documenting the prevalence and degree of hearing loss with advanced age in the United States, Europe, and Asia [8–22], auditory function in the population aged 100 years and older has never been evaluated. Therefore, it is not clear how well centenarian listeners can hear. We measured middle ear impedance, hearing threshold, and distortion-product otoacoustic emission (DPOAE) from 74 centenarians living in the city of Shaoxing, China, to evaluate their middle and inner ear functions. This study represents the first audiological assessment of the middle and inner ear functions of the centenarian population.

MATERIALS AND METHODS

PARTICIPANTS

A total of 74 subjects born before 1911 participated in this study. Hearing tests were part of the physical examinations (including electrocardiogram and laboratory tests of blood and liver function) and mental health evaluation for the centenarians. Their ages varied between

100 and 106 years, with a mean age of 102 years. A questionnaire about ear- and hearing-related medical history, noise exposure (during leisure and work), and self-perceived hearing function was administered as an interview. All participants were farmers with no history of leisure- and/or work-related high intensity noise exposure. Questionnaire data on socioeconomic status, medical history, lifestyle factors, and medication use were obtained as part of the examination. Subjects with a family history of hearing loss and/or a history of ototoxic drug usage were excluded from the study. After excluding subjects with apparent

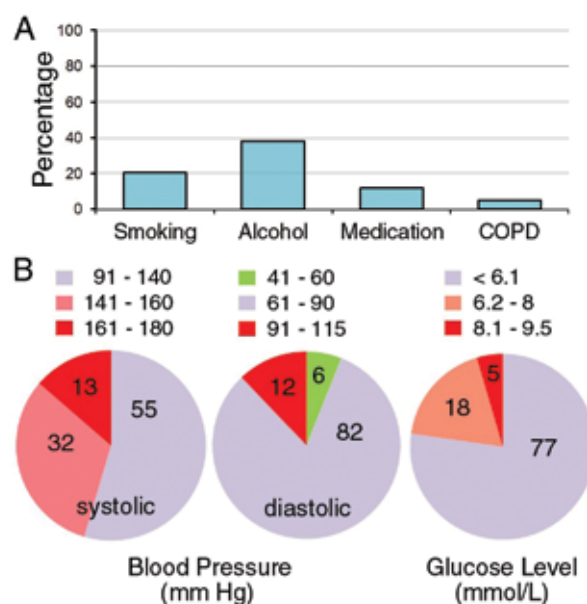


Figure 1. Lifestyle factors and health condition of the centenarian participants. A: Percentage of centenarian subjects who had some of the risk factors for age-related hearing loss. Smoking was defined as consumption of at least half a pack of cigarettes a day for more than a year within the past 10 years. Drinking was defined as consumption of more than 50 ml wine or alcohol on the daily basis for more than a year within the past 10 years. COPD: Chronic obstructive airways disease (diagnosed by a physician). B: Distribution of centenarian subjects (presented as percentage) with different blood pressure and glucose levels. Glucose level presented was based on blood collected 2 to 3 hours after meal. The numbers indicated inside the plots are the percentage.

middle ear diseases after otoscopic examination, 68 subjects (21 male and 47 female) were included in the report. The mean age of this group was 102 years. Figure 1 summarizes their lifestyle factors and medical conditions that are known risk factors for aggravating age-related hearing loss. For comparison, we also recruited normal subjects aged between 20 and 25 years and 60 and 65 years. Twenty subjects (equal number of males and females) for each of these two age groups were examined in the same condition as centenarian listeners. The same questionnaire that was used for centenarian subjects was used to obtain medical history and noise exposure history from the younger subjects before hearing tests. Subjects with a family history of hearing loss, history of otologic diseases, and treatment with ototoxic drugs were excluded. Written informed consent was obtained from all participants or their guardians. The procedures described in the present study have been approved by the Institutional Review Board of the Shaoxing Second Hospital.

HEARING TEST PROCEDURES

Pure-tone air-conduction thresholds were obtained in both ears of participants at the frequencies of 250, 500, 1,000, 2,000, 4,000, and 8,000 Hz using a diagnostic audiometer (MADSEN Midimate 622). Bone-conduction thresholds were also obtained at the frequencies of 500, 1,000, 2,000, and 4,000 Hz. No masking was used during test. The audiometer was calibrated in accordance with international (ISO) standards. Testing was completed in a room that met standard requirements. To measure evoked DPOAEs, a

MADSEN Capella Cochlear Emissions Analyzer was used. Test frequencies were 500, 1,000, 2,000, 4,000, 6,000, and 8,000 Hz with an f_2/f_1 ratio of 1.2. The level of f_1 was set at 70 dB (maximum output), while the level of f_2 was set at 65 dB. DPOAE response was regarded as detectable if the “cubic” distortion tone (DP1) and the “quadratic” distortion tone (DP2) were 6 dB above noise floor. For the assessment of middle ear function, tympanometry was used with a 226 Hz probe tone. An otoscopic examination was performed before all the tests to ensure that the ear canal was clear and that there were no obvious signs of middle ear infection or perforation in the tympanic membrane.

STATISTICAL ANALYSES

Middle ear impedance, pure tone thresholds, and DPOAEs were obtained from both ears of each participant. When a participant was unable to hear a tone, 5 dB above the highest audiometer output level was recorded as the threshold. Data were presented as mean and standard deviation (SD) and evaluated with student's t-tests. Statistical significance was assigned to P values of less than 0.01. A p value larger than 0.5 was considered as statistically insignificant. Data presented in this study reflected a sample size of 136, 40, and 40 ears for the centenarian group and the two groups aged 60–65 and 20–25, respectively.

RESULTS

1. MIDDLE EAR FUNCTION

We used tympanometry to evaluate middle ear function of the centenarian subjects. Tympanometry examines the relationship of air pressure in the external ear canal to impedance of

the tympanic membrane and middle ear system. For comparison, middle ear function was also examined from subjects in the age groups of 20–25 and 60–65. The majority of the subjects in the 20- to 25-year-old and 60- to 65-year-old age groups had an “A” type of tympanogram, with compliance peaked near zero decaPascals (Fig. 2A, B). In contrast, most centenarian subjects exhibited an “As” type, with significantly reduced peak compliance (Fig. 2C). We examined the ratio of various types of tympanograms in different age groups and present it in Figure 3A. As shown, only 30% of ears from the centenarian group had the normal “A” type, while the “As” type accounted for 60% of the centenarian subjects tested. This is in contrast to more than 80% of ears with “A” type in the group aged 20–25 years and approximately 50% in the group aged 60–65 years. Figure 3B presents the mean and SD values of peak compliance obtained from tympanometry. It is apparent that the peak compliance of centenarian subjects was significantly reduced when compared to those of the younger age groups ($p=0.01$). The peak compliance between 20–25 and 60–65 year old groups was not statistically different ($p=0.68$). Figure 3C shows the mean value of middle ear pressure of the subjects from the three age groups. The middle ear pressure of the centenarian subjects was significantly more negative than the younger subjects ($p=0.01$). However, the pressure between the two younger age groups was not significantly different ($p=0.51$).

2. PURE-TONE BEHAVIORAL THRESHOLDS

To determine how well centenarians

can hear, we measured airconduction behavioral thresholds using pure-tone audiometry. For comparison, hearing thresholds of subjects from the two younger groups were also measured. Figure 4 shows the mean and SD values of thresholds of the right and left ears from subjects from the three groups. The mean thresholds of 20- to 25-year-old subjects were all within the normal range (less than 20 dB HL) for the frequency range tested (between 250 and 8,000 Hz). While the mean thresholds of 60- to 65-year-old subjects were within the normal range at low and mid frequencies, their mean thresholds at 4,000 and 8,000 Hz were elevated to 30 and 40 dB HL, respectively. The mean thresholds of centenarian subjects were significantly elevated across all frequencies, with mid and high frequency (4,000 and 8,000 Hz) thresholds exceeding 95 dB HL. Comparison between the audiograms of left and right ears indicated that hearing loss of the centenarian subjects was bilateral and symmetric. We also measured bone-conduction thresholds at the frequencies of 500, 1,000, 2,000 and 4,000 Hz from the centenarian group. As shown in Figure 4, the bone-conduction thresholds were also significantly elevated. However, there was an appropriately 10 to 20 dB difference between the air- and boneconduction thresholds, with air-conduction thresholds being significantly worse.

To determine the distribution of different degrees of hearing loss at different frequencies in the elderly population, we graded hearing loss based on the World Health Organization (WHO) criterion [23]. Hearing loss was ranked as mild (26–

40 dB HL), moderate (41–60 dB HL), severe (61–80 dB HL), and profound (81 dB HL). Figure 5A presents the distribution of ears (as percentage) that had different degrees of hearing loss at various frequencies for centenarians and those aged 60–65 years. As shown, most centenarian subjects had moderate to severe hearing loss at low frequencies. The number of ears that had profound hearing loss increased as frequency increased. At 8,000 Hz, 95% of the centenarian subjects suffered from profound hearing loss. As for the subjects in the 60- to 65-year-old group, the number of ears that had mild to moderate hearing loss also increased at high frequencies. However, only a fraction of subjects in this age group had severe to profound hearing loss (Fig. 5A). The WHO standards use audiometric threshold values to grade hearing impairment (ranked as mild, moderate, severe, and profound) based on the averages of hearing threshold values at 500, 1,000, 2,000, and 4,000 Hz. Figure 5B presents the percentage of different grades of hearing loss of centenarian subjects, as well as subjects from the 60- to 65-year-old group. As shown, more than 95% of

centenarian subjects had severe to profound hearing loss. This is in contrast to 75% of the subjects from the 60- to 65-year old group who showed no sign of hearing loss. 25% of the subjects from the 60- to 65 year old group showed mild to moderate hearing loss. We also analyzed hearing thresholds of male and female subjects in the centenarian group. Figure 6 presents threshold comparison between

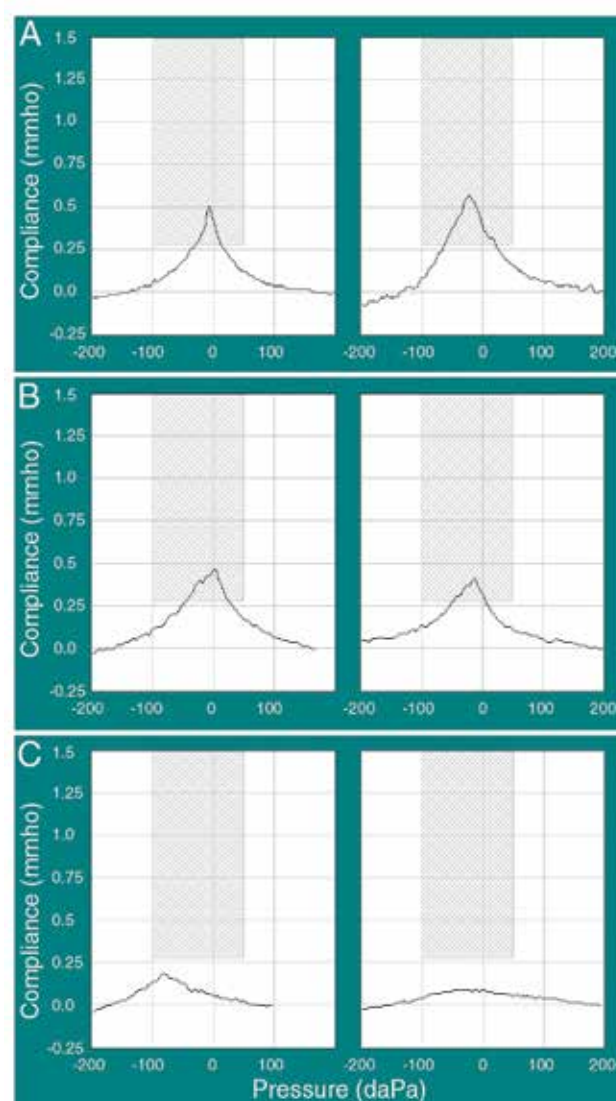


Figure 2. Representative tympanogram obtained from subjects from three different age groups. A: 20–25 years old. B: 60–65 years old. C: 100 years old. doi:10.1371/journal.pone.0065565.g002

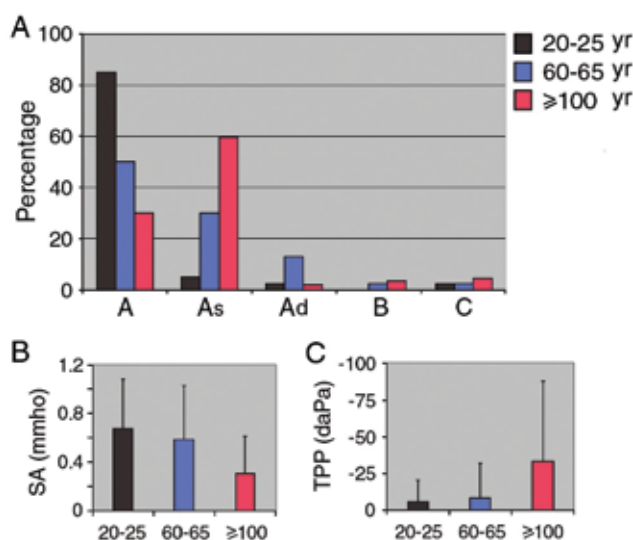


Figure 3. Parameters obtained from tympanometry. A: Ratio (presented in percentage) of 5 different types (A, As, Ad, B, C) of tympanogram at different age groups. B: Peak compliance (mean 6 SD) for the three groups are: 0.3160.30 (≥100 years old), 0.5860.44 (60–65 years old), and 0.6760.41 (20–25 years old) mmho, respectively. Peak compliance of the centenarian group is significantly less than the other two groups. C: Middle ear pressure (mean 6 SD) for the three groups are: 233.2654 (≥100 years old), 28.2624 (60–65 years old), and 25.5615 (20–25 years old) daPa, respectively. doi:10.1371/journal.pone.0065565.g003

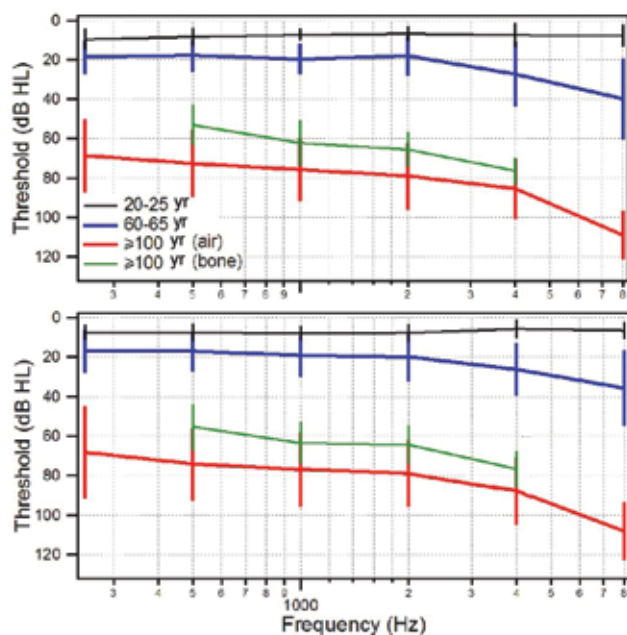


Figure 4. Mean and SD values of pure-tone behavioral thresholds of left and right ears obtained from listeners from different age groups. Bone-conduction thresholds of centenarian subjects are also included. Sixty-eight subjects were included in the centenarians' group, while 20 subjects each participated in the 20- to 25-year-old and 60- to 65-year-old groups. doi:10.1371/journal.pone.0065565.g004

male and female subjects at different frequencies. Student's t-test showed that the mean thresholds of male and female subjects at each frequencies were not statistically significant ($p > 0.5$).

3. TRANSIENT EVOKED DISTORTION PRODUCT OTOACOUSTIC EMISSION

A routine non-invasive technique used to evaluate hearing is the otoacoustic emissions test [24–27]. We measured DPOAEs from centenarian listeners and two other age groups with test frequencies varying from 500 to 8,000 Hz. Figure 7 shows some examples of DPOAE responses obtained from subjects from different age groups. As shown in the left panels of Figure 7A and B, subjects from younger age groups had robust DPOAEs in response to test tones near 6,000 Hz. DPOAEs are reflected by the presence of DP1 and DP2 in the spectrum analysis. In subjects presented in Figure 7A and B, DPOAEs were present in all frequencies tested (two panels on the right). However, when the same test tones (near 6,000 Hz) were presented to the centenarian subjects, neither DP1 nor DP2 were detected (left panel of Fig. 7C) in majority of the subjects. As shown in the right panel, DPOAEs were not observed in any of the frequencies tested. To determine how many ears had positive DPOAE responses at different frequencies, Figure 8 exhibits the percentage of ears that had detectable DPOAEs in different age groups. It is apparent that while all subjects from the 20- to 25-year-old group and the majority of participants in the 60- to 65-year-old group had positive DPAOEs at all test frequencies, only a small fraction of centenarian subjects had detectable DPAOEs at low to mid frequencies. None of the

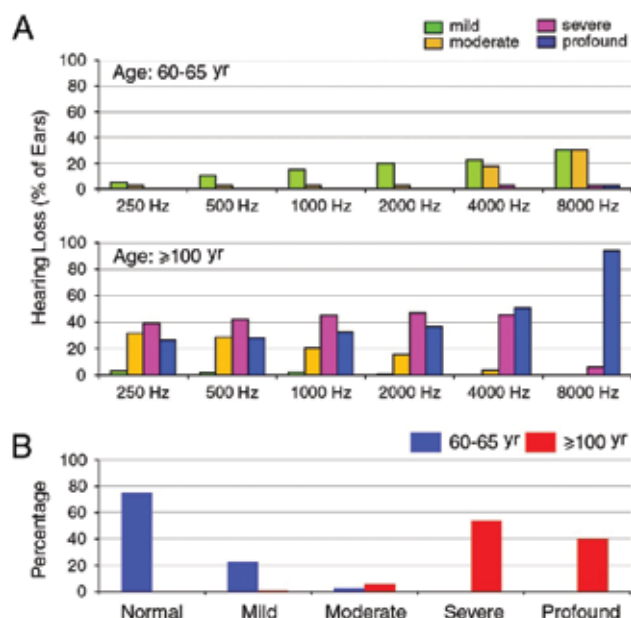


Figure 5. Degree of hearing loss at different frequencies and age groups. A: Number of ears (presented in percentage) that had hearing loss at different frequencies from two different age groups. B: Percentage of different grades of hearing loss in two different age groups. Hearing loss grade was based on the WHO criteria. doi:10.1371/journal.pone.0065565.g005

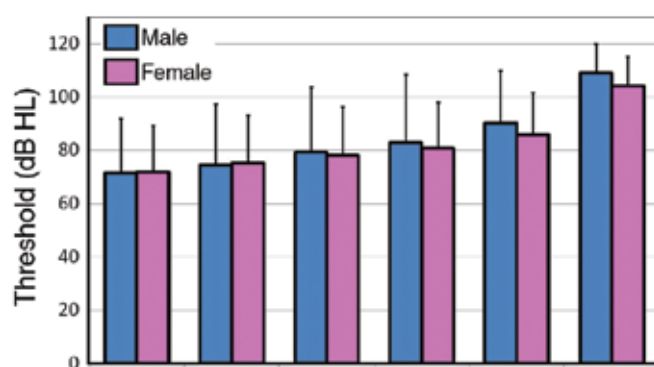


Figure 6. Comparison of hearing thresholds between men and women at different frequencies. Means \pm 6 SD are presented. Comparison was made between two genders at each frequencies and no statistical significance in threshold was found at any frequencies ($p > 0.05$). doi:10.1371/journal.pone.0065565.g006

centenarian subjects showed positive DPOAEs at frequencies above 6,000 Hz.

DISCUSSION

The current study is the first audiological assessment of the middle and inner ear functions of centenarian subjects. We show that all centenarian subjects have hearing loss with severity varying from moderate to severe in the low and mid frequencies and from severe to profound in the mid to high frequencies (Figs. 4 and 5). Otoacoustic emissions, which reflect the status of outer hair cells, were undetectable in the majority of the subjects. The elevation of hearing threshold and absence of otoacoustic emissions suggest that sensorineural cause is largely responsible for age-related hearing loss seen in centenarian subjects.

Several large-scale epidemiologic studies were carried out in the United States and Europe to examine the prevalence and degree of hearing loss in the elderly population [9,11,12,15–17]. The prevalence of hearing loss shown in these studies varies significantly from study to study. Comparisons of prevalence and degree of hearing loss among different studies are difficult because of the lack of agreement on a standard definition of hearing loss for use in epidemiologic studies, as well as differences in age and sex in the populations tested [16]. Although there are many studies of the prevalence of age-related hearing loss in the United States and Europe, auditory function in the centenarian population has never been examined. The only study that examined hearing from more advanced age was done in an urban

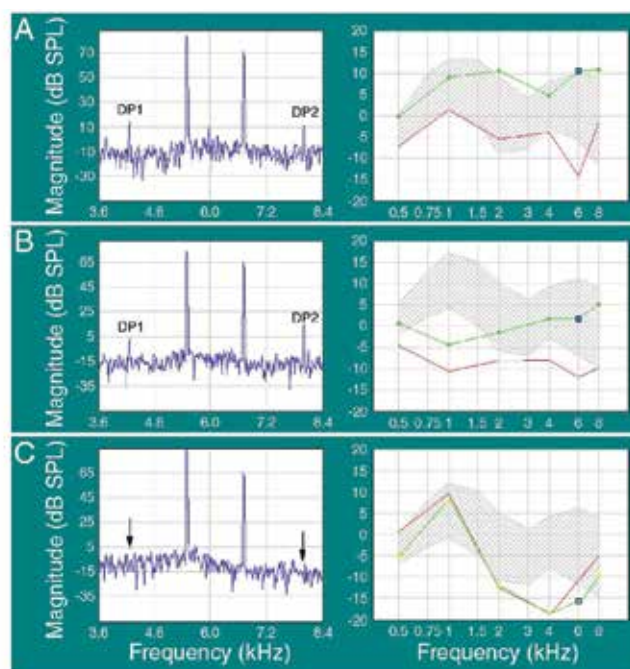


Figure 7. Representative DPOAE responses obtained from listeners from different age groups. A: An example of DPOAE response obtained from a subject from the 20- to 25-year-old group. The two probe tones were set at frequencies close to 6,000 Hz. Distortion product one (DP1) and DP2 were clearly visible (10 dB above the noise level). The right panel shows the DPOAEs were detected in all test frequencies (500, 1,000, 2,000, 4,000, 6,000, and 8,000 Hz). B: An example of DPOAE obtained from a participant from the 60- to 65-year-old group. DPOAEs were also detected in all test frequencies. C: Otoacoustic emission from a centenarian subject using the same probe frequencies used in younger groups. DP1 and DP2 were absent (arrows indicate where DP1 and DP2 were expected in the frequency spectrum). The right panel shows that DPOAEs were not detected in all frequencies tested. doi:10.1371/journal.pone.0065565.g007

Swedish population aged between 85 and 90 [14]. The participants in that longitudinal study were followed audiometrically over a 20-year period from 70 to 90 years of age. The study focused on hearing and its decline during the later time span in which the participants were tested at the age of 85, 88 and 90 years. The results reveal that hearing loss in advanced age progresses only slightly in both men and women. The annual hearing threshold decline is about twice as large in the eighth decade of life as compared with the ninth [14]. Although we did not follow the progression of age-related hearing loss of centenarian subjects in our study, the hearing loss appeared to be much worse than the population aged 85 and 90. We would like to point out that the current study is not an epidemiological study whose goal is to examine prevalence of hearing loss in the general population. Neither was our goal to compare and monitor hearing loss progression over time among different age groups. Our goal is to determine how well centenarian listeners can hear. It is likely that the extent and severity of hearing loss in the general centenarian population are slightly greater than what we reported here. This is because the current study excluded those who already had hearing loss due to genetic deficits (family history), histories of ototoxic drug usage and exposure to impulsive noise, and middle ear diseases. In addition, most subjects in this study were generally in reasonably good health (Fig. 1). It has been reported that changes in the blood supply to the ear because of heart disease, high blood pressure, and other circulatory problems can cause and/or aggravate presbycusis [5,6].

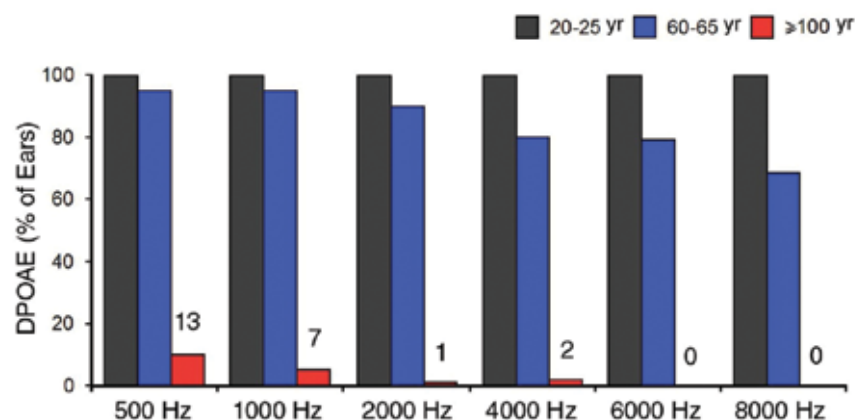


Figure 8. Number of ears (presented in percentage) that had detectable DPOAEs at different frequencies from different age groups. From the centenarian group, 136 ears were measured. The numbers above the red bars indicate the number of ears that had detectable DPOAEs. doi:10.1371/journal.pone.0065565.g008

It has been demonstrated in several well-controlled studies that age-related hearing loss is more prevalent and severe in men than in women, especially at high frequencies [9,12,16]. Cruickshanks et al. reported that the mean threshold difference was as large as 20 dB at 4,000 and 8,000 Hz between men and women aged between 60 and 64 years [16]. Such difference is likely due to the fact that men have a greater risk of noise exposure in occupational settings. Interestingly, we did not observe a significant difference of hearing thresholds between men and women at any tested frequencies. The result is not entirely surprising since both men and women in this group already had severe to profound hearing loss. It is conceivable that the difference was minimized when the majority of the subjects already suffered from a profound loss of hearing (Fig. 5).

Age-related hearing loss is a natural part of the aging process. Although it is generally accepted that morphological and physiological changes in the middle ear, cochlea, and central auditory system contribute to hearing loss, degeneration of the cochlear hair cells and/or atrophy of stria vascularis play the most important role [5]. A recent study suggests that microRNAs, a class of short non-coding RNAs that regulate the expression of mRNA targets, are important regulators of age-related hearing loss [28]. Animal studies have shown that outer hair cell loss, particularly in the basal turn of the cochlea, is associated with age-related hearing loss [29]. Otoacoustic emissions decrease with age, likely signifying outer hair cell damage [30]. A number of previous studies in humans have shown that as

audiometric thresholds become poorer, the magnitude of the DPOAE response decreases and is ultimately eliminated [31–39]. Some studies indicate that there is spiral ganglion cell loss during aging [40]. Studies of the human temporal bone from patients with age-related hearing loss have shown a loss of capillaries within the spiral ligament and degeneration of the stria vascularis [2]. It is important to point out that morphological and mechanical changes in the middle ear can also contribute to presbycusis. Such changes can result in reduced function of the tympanic membrane and the ossicular chain. We show that the peak compliance of the middle ear was significantly reduced in centenarian subjects (Fig. 3). Furthermore, the boneconduction thresholds are 10 to 20 dB better than the airconduction thresholds (Fig. 4), suggesting that conductive hearing loss is partially responsible for age-related hearing loss in centenarian subjects. A number of previous studies have demonstrated the impact of reduced conductive hearing loss on otoacoustic emissions [41–46]. Therefore, reduced middle ear function can partially be responsible for the absence/reduction of otoacoustic emissions seen in the centenarian listeners.

Finally, it is worth noting that the audiogram is not a particularly good measure of how one hears in real life. Hearing pure tones under headphones is quite different from listening to complex and dynamically changing sounds coming from different directions. Listening to pure tones in a quiet environment is also different from listening to conversation in background noise. Presbycusis is characterized by decreased hearing sensitivity

and reduced speech recognition in a noisy environment. Although we did not perform speech audiometry, many studies have shown that speech discrimination is significantly reduced in the elderly [47–49]. The reduced speech recognition is generally believed to be caused by degeneration of the central auditory pathway. Loss of function of the cochlear nerve has been shown in aged animals with reduced synchronous neural activity [50,51]. This asynchrony may contribute to the decline in temporal resolution during aging. Other animal studies have shown decreased function in the cochlear nucleus [50,51]. Thus, it is conceivable that morphological and physiological changes in the periphery (middle ear and cochlea) and central auditory system contribute to age-related hearing loss and difficulty understanding spoken language.

In conclusion, we show that although centenarian subjects still retain some residual hearing, more than 95% of them have severe to profound hearing loss. It appears that both conductive and sensorineural causes contribute to the age-related hearing loss seen in the centenarian listeners.

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Contributions Conceived and designed the experiments: ZM DZZH. Performed the experiments: ZM LZ LP MW. Analyzed the data: ZM QZ DZZH. Wrote the paper: ZM DZZH.

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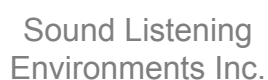
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Your Marsona Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Clarity ALTO Amplified Telephone

The Alto amplified corded telephone is the ideal solution for those with mild, moderate and severe hearing loss.

This 53dB phone is the first on the market to receive TIA-4953 certification, passing the new industry standards for amplified telephones. The ergonomic volume and tone control is also perfect for those with arthritis



Your Clarity Products Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Clarity ALTO PLUS Amplified Telephone

The AltoPlus™ amplified corded telephone is the ideal solution for those with mild, moderate and severe hearing loss.

This 53dB phone is the first on the market to receive TIA-4953 certification, passing the new industry standards for amplified telephones. The ergonomic volume and tone control is also perfect for those with arthritis.

Your Clarity Products Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Clarity Amplified Bluetooth Cordless Phone with Answering Machine

Enjoy amplified calls with or without a landline.

The BT914 pairs with your cell phone or other mobile device to make calls. The BT914 pairs with your Bluetooth cell phone and allows you to take amplified calls using your wireless cell phone service. Make and take calls on the BT914 from either your cell phone or landline connection. Distinct ringtones can be set for each line so you immediately know where the call is coming from.



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Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Clarity SEMPRE Extra Loud Bluetooth Speakerphone

Enjoy amplified cell phone calls with Sempres! This feature-rich phone gives you all the loud and clear sound quality of a Clarity home phone, but does so using your existing cell phone service. The Sempres provides 53 decibels of amplification, a large 4" color touch screen, speakerphone with tone control, talking Caller ID and keypad, and a digital answering machine. Add up to four (4) extra handsets (XLC3.5HSB) and expand the reach of your Sempres throughout your home.



Your Clarity Products Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Clarity E814CC Corded/Cordless Combo Telephone

40dB Amplified Telephone Combo with Answering Machine
4 tone settings to customize your listening experience 5 speed dial buttons to store important numbers 10 loud ringer melodies with 6 levels of volume Amplified digital answering machine Large high contrast CID display Extra loud and clear speakerphone Large keypad with high contrast numbers CID display lights up as super bright visual ringer Expandable up to 4 cordless handsets.



Your Clarity Products Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Silent Call Shake-Up Kit with Vibrator

SU12V Smoke Detector Kit

When the Smoke Detector is activated the transmitter sends a signal (up to 100 feet away) to the Shake up receiver with vibrator to wake you up.

Included in this kit:

- 1 Smoke Detector with transmitter
- 1 Shake up receiver with bed vibrator

Add additional smoke detectors and receivers throughout your home for complete coverage. When your family's safety is concerned...every second counts. Combination 3 and 5 year warranty.

Your Silent Call Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Silent Call complete dorm kit | Col-Kit-4ss

When you pack a student with hearing loss off to college, be sure to pack a Silent Call alerting system to notify them of dormitory events that will enhance their social interaction and safety. A Signature Series Smoke Detector with Transmitter, will alert your student to smoke while the Wireless Doorbell Transmitter is ideal for attachment to a dorm room door. When activated, both transmitters will signal the Sidekick II Receiver with Strobe Light that alerts your student with a bright flashing light or by vibration with the bed shaker.



Your Silent Call Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Tasco Kidsafe Ear Muffs

NRR: 25dB. Tested at an independent NVLAP laboratory. Headband and pad specially sized and designed for children and adults with smaller heads (suitable for children ages 6 months to 12 years). Thick headband pad for extra comfort. Low profile. Available in 3 fun colors (Blue, Pink, Lime Green). Even, four point pressure distribution combined with Soft Seal ear cushions provide all-day comfort and very little squeeze. Deep ear cups allows ears to fit completely and comfortably inside. Spring stainless steel headband. Premium components for long life.



Your Tasco Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

SB1000ss Sonic Boom Alarm Clock

A personal alarm clock with More.

Wake up to an adjustable loud buzzer, flashing lamp, strong shaker or any combination. The bed shaker produces steady or pulsating vibration pattern for maximum effectiveness. Adjustable volume controls allows selection of the best sound combination for waking up PLUS when you need your clock to be more than an alarm clock, a built-in remote receiver notifies you day or night of a baby crying the phone ringing or someone at the door even when sleeping (Requires separate Sonic Alert Signalers)



Your Sonic Alert Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

SBB500ss Sonic Bomb Alarm Clock

This clock dares you to sleep through its alarm.

The new Sonic BOMB has been designed for people of all ages on a mission. This clock gets anyone out of bed no matter the occasion. If waking up on time is a must the Sonic Bomb Loud Alarm Clock is for you. The Stealth black color with red controls, night vision display and pulsating alert lights won't keep you in the dark. Complete with ground shaking super-charged bed shaker and turbo-charged 113 dB extra loud alarm.



Your Sonic Alert Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

SBT600ss Sonic Travel

The Traveler from Sonic Alert is an ideal companion for those on the go, whether its business or pleasure.

Take the Sonic Traveler with you to wake to your favorite clock and charge your phone at the same time - don't leave home without it.



Your Sonic Alert Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

SBT625ss Rise'n Shine Alarm Clock

The Rise 'n Shine from Sonic Alert is an ideal companion for those on the go, whether its business or pleasure. Take the Sonic Rise 'n Shine with you to wake up to your favorite clock and charge your phone at the same time.

Compact and stylish, the Rise 'n Shine has useful features including a unique bed vibration providing a tactile sense ensuring you wake up while others continue sleeping. The bright blue display is easy to see and adjustable so you can choose the brightness you want.



Your Sonic Alert Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

iLuv Wireless Bluetooth Bed Shaker

SmartShaker pairs to your smart phone via Bluetooth and allows you to set your alarm by time and date, as well as choose whether to be woken by vibration, alarm tone or both. SmartShaker is the perfect wake up alarm for couples, roommates, heavy sleepers and the hearing impaired.

SmartShaker works with a free user-friendly app that allows you to set up to 10 customized alarm options. Available in three fantastic color options: Black, White, ALDS Green.



Your iLuv Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Global II Hearing Aid Conditioner

Stores Dries & Sanitizes your Hearing Aids

Dry & Store for nightly use at home for care of all types of hearing instruments. It combines the three essential elements needed for effective drying: Heat, Moving air and a Desiccant that drives the relative humidity really low then captures the moisture that is released. During the first ninety seconds of the Dry & Store Global II cycle a germicidal lamp sanitizes the hearing instruments after which conditioning continues for 8 hours.



Your iLuv Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Dry Caddy Hearing Aid Dry and Store Kit

Take Dry Caddy anywhere and everywhere such as: camping, outings to the pool or beach, short trips – you name it! Created with the high quality you've come to expect from the family of Dry & Store products, an entire year of protection in a small package! Powerful proprietary molecular sieve desiccant captures moisture and odor.

Kit includes 1 Dry Caddy jar plus 6 Dry Caddy Discs, providing a year of protection against moisture damage. Easy to use, Portable—great for travel.



Your Ear Tech Corp. Canadian Distributor:



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

Lifetone Bedside Fire Alarm & Clock HLAC151

Ordinary alarms often fail to awaken members of high-risk groups, who may not even hear the high-pitched sound of a common smoke detector. The Lifetone alarm is different. Patented technology in the Lifetone alarm listens for your existing smoke alarms, and the HLAC151 responds with audible, visual, and tactile alerts. Audible alerting of the alarm's loud, lower-pitched signal plus announcement in a baritone voice "Fire! Get out!". Tactile alerting by means of a vibrating disk called a bed shaker. Visual notification by FIRE displayed in large text against a bright, flashing orange backlight.



Website: www.alds.com • Toll Free: 866.845.2537 • Email: sales@alds.com

ALL STAR SALES | DizzyFIX | Easy Cure for BPPV

DizzyFIX is a simple, effective medical device for BPPV with no side effects. The DizzyFIX comes complete with DVD in English, French and Spanish, written step-by-step instructional guide, and hat. The DizzyFIX visually guides patients through the particle-repositioning maneuver to achieve successful treatment of BPPV through visual reinforcement. The DizzyFIX is a scientific but entirely non-pharmaceutical and non-intrusive therapy.



Contact us:
All Star Sales
4 Vata Crt – Unit 15
Aurora ON L4G 4B6
905-727-9135, 1-800-361-0072



www.allstarsales.ca

ALL STAR SALES | Sound Pillow

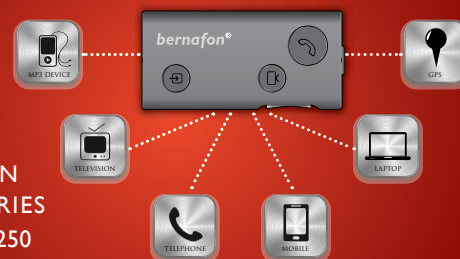
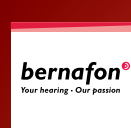
The Sound Pillow has 2 stereo wafer thin speakers buried deep inside a comfortable hypoallergenic plush pillow, great for Tinnitus sufferers. A MP3 player comes loaded with 18 hours of binaural and natural sounds and music. The binaural music slows cardiovascular and respiratory systems, as well as brain activity allowing for deep relaxation and a great sleep. Receive a free gift on your first order.



Contact us:
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4 Vata Crt – Unit 15
Aurora ON L4G 4B6
905-727-9135, 1-800-361-0072



www.allstarsales.ca



BERNAFON
ACCESSORIES
1.800.265.8250
bernafon.ca



ClearSounds® A700 Amplified Cordless Phone with Digital Answering Machine

The ClearSounds® A700 offers crystal-clear sound quality and interference-free transmission plus a high-quality amplified digital answering machine. Providing 40 dB of adjustable amplification with tone control, speakerphone in handset, and extra loud ringer with adjustable ring tones, the A700 is ideal for anyone seeking cordless convenience with the practicality of an amplified digital answering machine. To complete your system, add up to 4 extension handsets (A700E) for maximum accessibility.



Toll free: 1-888-657-2855
info@clearsounds.com
www.clearsounds.com



Amplified Telephone C4220+

- Digital Clarity Power™ technology clearly amplifies incoming sounds up to 50+ dB
- Large backlit keypad is largest of any cordless phone
- Bright visual ringers in handset and base
- DECT 6.0 interference free technology
- Extra loud ringer (95 dB) with bright flashing visual ringers in handset and base
- Four (4) tone settings
- Amplifies outgoing speech up to 15 dB
- Includes belt clip and headset jack
- Loud and clear handset speakerphone
- Hearing aid and TIA-1083 compatible
- Easy-to-read Caller ID display
- 1 year warranty



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Signature Series Doorbell Transmitter

The transmitter attaches to the wiring of the doorbell chime and is activated by the same current. When the doorbell button is pushed, it activates the vibrator or strobe on the receiver and lights up.

- Operates up to a 2000-foot radius depending on which 418MHz receiver is used
- Uses 2 AA batteries
- 5 year warranty



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Signature Series Mini-receiver

- Digital Icon alert displays
- Works with all Silent Call® 418MHz Transmitters
- Low battery indicator light
- Night dimming backlight display
- Can be used with optional bed vibrator
- Can be placed up to 2000 feet from transmitters
- Multiple receivers can be used in same home
- Constant 24 hour notification
- Battery backup can be used to supply power should you lose house power
- 5 year warranty



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Shake-Up Kit with Vibrator

When the Smoke Detector with transmitter is activated the audible siren sounds and the transmitter sends a signal (up to 100 feet away) to the Shake up receiver with vibrator.

Included in this kit:

- 1 Smoke Detector with transmitter
- 1 Shake up receiver with bed vibrator
- Combination 3 and 5 year warranty



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Signature Series Sidekick II Receiver

- Distinctive LEDs for each alert type
- Digital Icon alert displays
- Works with all Silent Call® 418MHz Transmitters
- Low battery indicator light
- Night dimming backlight display
- Can be used with optional bed vibrator
- Can be placed up to 2000 feet from transmitters
- Multiple receivers can be used in same home
- Constant 24 hour notification
- Battery backup can be used to supply power should you lose house power (sold separately)
- 5 year warranty



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Signature Series Telephone Transmitter

This transmitter connects in seconds to the jack of any standard telephone or TTY. When the telephone/TTY rings, the transmitter signals the receiver, activating the vibrator or strobe and a light below the symbol of a telephone.

- Operates within a 2000-foot radius
- Uses 2 AA batteries
- 5 year warranty
- Works with 418MHz receivers



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XLC2 Cordless Amplified Telephone

- Digital Clarity Power™ amplifies incoming sound up to 50+dB and outgoing speech up to 15 dB
- Talking Caller ID announces the phone number of the incoming caller
- Talking dial pad with large backlit buttons
- Simple, easy-to-use design
- Hearing aid compatible and TIA-1083 compliant
- Three tone settings for a customized listening experience
- Extra loud ringer (95 dB) with adjustable tones
- Super bright visual ringer with voicemail indicator



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HA40 Telephone Handset Amplifier

- Digital Clarity Power™ sound technology
- Increases the volume of your phone 100 times
- BOOST button eliminates background noise and feedback for extra loud and clear conversations
- Tone selector for maximum speech clarity
- Connects easily between handset and phone base



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AMPLI 100 VM Amplified Telephone

The Ampli100VM has been designed as a full featured amplified telephone with the added feature of voice modulation. Voice modulation allows the user to see the loudness of their outgoing voice as they speak. This helps the user to adjust their speech to an acceptable outgoing level either louder or softer, helping improve the quality of the call for both caller and call receiver.

- Receiving volume control up to 40 dB



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Sonic Shaker SBP100 Portable Vibrating Alarm Clock

Our Sonic Shaker Portable Travel alarm clock comes complete with batteries, pillow strap with clasp, and protective travel case. It shakes users awake with its powerful bed shaker and extra loud pulsating alarm.

- Most powerful vibrator
- Easy to set function keys
- Easy to read .75" display



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AL10 Visual Alert System

- Sensors monitor and provide remote visual alerts to the door bell, telephone calls and the sounds of babies or young children from anywhere around your home
- Alarm clock with snooze and vibrating alert features to wake the deepest of sleepers
- The motion detector will monitor a large area and notify you of any unexpected movement
- Flashes a connected lamp and shakes your bed to alert you to activities within the home
- Various accessories allow you to customize and expand the system for your specific household or lifestyle needs
- Simple set up — no hard wiring required, just plug it in



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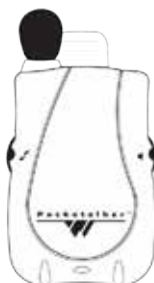


Pocketalker® Ultra Personal Amplifier

The Pocketalker Ultra amplifies sound clearly and easily for better understanding. 100 hours of battery life ensures long-lasting performance. Each Pocketalker Ultra includes a plug-in sensitive microphone and a TV listening extension cord for the TV listener. Use the Pocketalker Ultra with a variety of available earphones and headphones of your choice, or a neckloop and a telecoil-equipped hearing aid.

Applications:

- 1-on-1 conversations
- TV listening
- Listening in the car
- Small groups and much more



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A1600-BT

- Large, backlit keys
- Talking keypad and personal identifier options
- Large, backlit display of date, time, number of unheard messages, and the name and number being called
- Handset carrying clip
- Alarm clock with snooze function
- One-touch calling via eight photo keys and four handset memory keys
- SOS emergency key (programmable)
- Handset flashlight
- Ten ring tones with selectable, extra-loud volumes
- Bright strobe-light ringing notification and handset vibration
- Handset volume amplification and tone adjustment
- Speakerphones with volume control
- Mute, hold, call transfer and conference calling
- Last number redial



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CSIR2012

- Compatible with all TVs including flat screens and plasma
- Integrated digital to analog converter maintains signal integrity
- Submerge yourself in pure listening pleasure with the remarkable light & comfortable headset
- Feel free to set the volume to fit your specific needs without disturbing others
- True, well-defined sound provides clarity and unmatched intelligibility
- 45ft range
- Infrared technology offers total privacy
- Weight: headset-8oz



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ALTO

- TIA-4953 certified for mild, moderate and severe hearing loss
- Up to 53 dB amplification
- Boost override: when on, enables amplification for all users
- Ergonomically designed tone and volume control for all users, including people with arthritis
- Loud 100 dB ringer with visual indicator
- Speakerphone
- Outgoing speech amplification of 15 dB
- 4" backlit screen with large font
- Talking keypad with Clarity Voice Assist
- 3 one-touch memory buttons
- 2.5mm headset jack
- 3.5mm neckloop jack
- Jack for optional bed shaker (not included)
- Outgoing Speech Amplification makes your voice louder for the other caller
- TIA1083 hearing



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HearIt M

- Very easy to use, with one large control for on/off and volume adjustments
- Total amplification with all controls at maximum is 56 dB (50 dB at 1.6 KHz)
- The AGC safeguards the ears against damage from sudden sounds that are too loud such as being dropped on a table. Hearit M takes readily available standard AA batteries, which are easy to install
- Also available as an MT or just a T model for looped rooms
- Comes with carrying case



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CLTVBT

- Remarkably comfortable & adjustable headset
- Embedded microphone in headset allows for use with Bluetooth enabled mobile phones
- Enjoy stereo high-def music wirelessly – pairs with A2DP Bluetooth audio devices
- Supports remote control of play/pause, previous/next track, volume up & down

One Year
Warranty
Lifetime
Product
Support



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TVaid® RF Digital Wireless 2.4 GHz Amplifying System

This system transmits crisp stereo audio from your TV to your headset receiver. In addition to connecting the TVaid to your TV, TVaid can be connected to your Hi-Fi System, Radio, i-Device or other audio sources using a standard audio patch cord.

- High definition amplified digital sound
- User replaceable LiPolymer Battery, up to 8 hours of life per charge
- Does not require line-of-sight for reception
- Adjustable volume and separate balance control
- Up to 120 dB output for excellent sound amplification
- Automatic gain control (AGC) and noise reduction technology
- Includes microphone and hookup cables



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Communicator

A new generation of alerting systems with outstanding features and fresh, elegant styling. The silent call communicator alerts you quickly to visitors, calls and emergencies. The portable design allows the wearer to be fully aware of their home without missing out on life. When a signal is received, the Communicator will display a distinctive digital icon as well as distinctive pulse vibrations indicating which transmitter sent the signal.

- Body worn receiver
- Docking port for charging
- Leather carrying pouch
- 5 year warranty



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Vibra-Call 3

A new generation of alerting systems with increased range, outstanding features and fresh, elegant styling. The Silent Call Vibra-Call 3 alerts you quickly to visitors, calls and emergencies. The portable design allows the user to be fully aware in their home without missing out on life. When a signal is received, the Vibra-Call 3 will emit distinctive pulse vibrations indicating which transmitter sent the signal.

The Vibra-Call 3 will monitor:

- Telephone
- Smoke detector
- Door bell
- Sound monitor
- Weather alert system
- 5 Year warranty



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Crystal Reflections Receiver

Finally, an alerting device with style! The CR-30 receiver works in conjunction with any Silent Call 318 Mhz transmitter and flashes its brilliantly lit glass crystal with unique flash patterns to notify you a signal has been received.

- Up to a 100 foot range
- Can also be used with optional bed vibrator (#VIB-PJ) sold separately
- 5 year limited warranty



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Carbon Monoxide Detector with Built In Transmitter

Simple to install on the wall or ceiling. The detector is battery operated and includes an 85 dBA alarm and transmits simultaneously to the receiver. This direct transmission only when the alarm is activated, eliminates false alarms. Ideal receiver is the Mini, which can also receive any other transmitters such as smoke detector, telephone, doorbell etc.

- 5 year warranty on everything except the battery



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LampLighter Signaler

A familiar idea with a twist! The Silent Call LampLighter Signaler is a wireless alerting device that will flash a table lamp with unique flash patterns.

- LED indicators for each alert type
- Turn the table lamp on/off by pushing the button on the top of the LampLighter
- Plug your telephone directly into the LampLighter for instant notification
- Works with all Silent Call 318 Mhz Transmitters
- 5 year limited warranty



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TV SoundBox Wireless TV Speaker

Tired of straining to hear your TV? No more! The wireless TV, loud and clear even with your TV speaker turned off. No more muffled dialog, no more blaring volume to disturb others in the room.

- Independent volume control
- Loud, lifelike and crystal clear dialog
- Adjustable voice enhancing
- Wireless, lightweight and portable
- Easy to install
- The transmitter also serves as a charging dock when not in use
- Built-in rechargeable battery (up to 8 hours of listening time)



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Portable Amplifier CE125

The Clarity CE-125 Telephone Handset Amplifier is a small portable device featuring technology that makes calls not only louder, but also clearer and easier to understand. Great for use at home, at the office or while travelling, the Clarity CE-125 amplifies incoming sound up to 25 dB. Compatible with most telephones, the Clarity CE-125 is quite easy to install and connects between the base of the telephone and the receiver.

Features:

- In line amplifier
- 3x amplification
- Clarity boost button
- Compatible with standard and electronic phones
- Single line or multi-line use
- Easy to install
- Compact, portable design



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VisualEyes™4

- High speed binocular goggles to record horizontal and vertical eye movement waveforms at 100Hz (eye position samples per second).
- LCD TV or projector for the oculomotor stimulus and to display large eyes on TV screen during nystagmus tests.
- Four button RF Remote to start and stop recording, turn on fixation light and center both eyes on computer screen.
- EyeMax™ TV screen to display large eye images for ease of testing and patient review.



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RealEyes™

Binocular Video Goggles

RealEyes™ xDVR video goggles are used during the Dix-Hallpike test for diagnosis of BPPV and during canalith repositioning for treatment of BPPV.

- Binocular cameras record both eyes with or without vision (goggles cover included)
- Proven video cameras with a single low-power IR LED for eye illumination
- Goggles weigh only 10.2oz (11.6oz with eye cover) with an easy to tighten Velcro strap



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Reminder
YOU CAN ORDER ACCESSORIES IN OUR

ONLINE STORE!



3 EASY STEPS TO START SHOPPING:

- 1 Go to www.diateccanadaorders.com
- 2 "Register" (top left of your screen) using your Diatec Account #
- 3 Create a password, and start shopping!

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ReSound Smart™ app



If you own a ReSound Smart Hearing aid, the ReSound Smart app will enable you to discreetly fine-tune your hearing aids to your unique taste. The app works with iPhone®, iPad®, iPod touch® and Apple Watch™ and selected Android devices.

- Adjust treble/bass and volume
- Assign personalized settings to favourite locations
- Help look for your hearing aid if you have misplaced it

www.resound.com/smartapp

The ReSound Smart app is compatible with the following devices: iPhone® 6 Plus, iPhone® 6, iPhone® 5s, iPhone® 5c, iPhone® 5, iPad Air® 2, iPad Air®, iPad® (4th generation), iPad® mini 3, iPad® mini 2, iPad® mini with Retina display, iPad® mini and iPod® touch (5th generation). The app is optimized for iPhone 6, iOS 7 or later is required. For iPhone® 6 Plus and iPhone® 6 we strongly recommend iOS 8.1 or later. The app supports Apple Watch™. GN ReSound, all rights reserved. © 2015, Apple, the Apple logo, iPhone, iPad, iPod touch and Apple Watch are trademarks of Apple Inc, registered in the U.S. and other countries. The App Store is a service mark of Apple Inc. Android and Google Play are registered trademarks of Google Inc. The Android robot is reproduced or modified from work created and shared by Google and used according to terms described in the Creative Commons 3.0 Attribution License. The ReSound Smart app is available for certain Android phones.



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ANDROID APP ON
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resoundpro.com

ReSound



1-888-737-6863

ReSound Relief™ App



Anyone with tinnitus can benefit from the ReSound Relief app as part of a tinnitus management program. It offers a combination of sound therapy and relaxing exercises that aim to distract your patients from focusing on their tinnitus.

- Customize sounds and colours
- Relax by popping bubbles
- Track progress
- Manage tinnitus and hearing loss

www.resound.com/reliefapp



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ReSound



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ReSound Unite™ Phone Clip+



Made for
iPhone

Works with
Android™

- Streams Bluetooth® phone calls and music in stereo directly to ReSound wireless hearing instruments
- Doubles as a remote control for volume and program changes
- Hearing aid mute functionality
- Works with all Bluetooth enabled smart phones

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ReSound



1-888-737-6863

ReSound Unite™ Remote Control 2



resoundpro.com

- Rechargeable with low battery indicator
- Can block out surrounding sound with mute function
- Scratch resistant display screen
- Mechanical on/off switch
- Can be used to initiate streaming from Unite™ TV Streamer 2 or Unite™ Mini Microphone

ReSound



1-888-737-6863

ReSound Unite™ TV Streamer 2



resoundpro.com

- Small design with built-in stand
- Streams audio directly from TV into hearing instruments over a 23 foot range with no intermediary device
- Transforms ReSound wireless hearing instruments into headsets
- Dolby Digital™ support
- No synchronization issue between sound and image

Dolby and the double-D symbol are registered trademarks of Dolby Laboratories.

ReSound



1-888-737-6863

ReSound Unite™ Mini Microphone



resoundpro.com

- Streams speech directly to hearing instruments over a 23 foot range with no intermediary device
- Small, light weight and portable
- Ideal for distance listening (e.g. at a church or theatre)
- Significantly improves the signal to noise ratio in noisy environments
- Doubles as portable streaming device for MP3 Player or PC

ReSound



1-888-737-6863

Oticon | ConnectLine



ConnectLine Streamer Pro

- One complete, integrated easy to use system
- Acts as a remote control for your hearing instruments
- Single button operation
- Wirelessly connects up to 8 devices – including MP3 players, computers, etc.
- Optimized Neck Loop
- PC VoIP Optimization
- Built-in Telecoil
- 3.5mm cable to listen to music via cable
- FM Euro Pin Connector for FM receivers
- Optimized battery life
- Wirelessly interfaces with entire ConnectLine family
- iPhone and Android App
- Effective Noise Cancelling (Dual Mic) System

www.oticon.ca

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PEOPLE FIRST

Oticon | ConnectLine



ConnectLine Phone 2.0 Solution

- Wirelessly transmits landline phone calls to both hearing aids via the Streamer
- No howling or distortion with phone usage
- Easy installation
- Single button operation
- Slim, elegant design
- Up to 30m working range
- Wall mount

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PEOPLE FIRST

Oticon | ConnectLine



ConnectLine TV 2.0 Solution

- Supports a range of connections, including digital stereo and Dolby Digital® through optical TOSLINK
- Autopairing: TV adapter will automatically pair with Streamer in pairing mode
- Autoconnect: TV listening automatically resumed after phone call
- AutoPriority: an incoming phone call will have priority over TV sound
- SelectMe: switch between two TV adapters
- Wirelessly transmits TV to both hearing aids via the Streamer
- Premium sound quality
- Improves TV speech intelligibility
- Easy installation
- Up to 30m working range

www.oticon.ca

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PEOPLE FIRST

Oticon | ConnectLine



ConnectLine Microphone

- Robust wireless connection with full integrity in partner to partner communication
- Improve the client ability to function in very demanding listening situations
- Advanced dual directional microphone design to cancel out surrounding noise
- DSP based noise cancelling
- Automatic gain control for absorbing variances in CL mic placement and speaker level
- Single button control from the Streamer or the Microphone
- 15m indoor working range
- Slim, elegant design

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PEOPLE FIRST

Oticon | Amigo



Amigo Arc

- Universal Neck Loop Receiver
- Works with any instrument with a telecoil, such as BTE, RITE, ITE, Cochlear Implants or Bone Anchored Instrument
- Extended 7000 Hz Bandwidth captures important high frequency cues
- Simple and intuitive to use
- Can be used with headphones for children with CAPD
- Tamper-resistant controls
- Re-chargeable battery
- 5 Exchangeable shell colours

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PEOPLE FIRST

Oticon | Amigo



Amigo T30/T31

- Maximum Speech Intelligibility for language development, learning and socializing
- Full programming and fitting capabilities
- No programming cables required
- Accesses full bandwidth for transmitting high frequency Speech Cues
- Built-in LED
- Durable and reliable
- FM scanner to select clean interference free channels

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PEOPLE FIRST

Oticon | Amigo



Amigo T5/R5

- Body Worn Transmitter and Receiver
- Can be used with headphones, Audio Shoe and DAI Cord connected to hearing aid, or telecoil of hearing aid via a neckloop
- Simple on/off switch
- Lockable Channel/Volume Control
- LED lights to confirm system is operational
- Cost conscious

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PEOPLE FIRST

Phonak ComPilot Air II

The Phonak ComPilot Air II is the handy clip-on streamer and remote control accessory for Phonak Venture hearing aids. It can receive speech and music from all Bluetooth enabled audio sources (cell phones, MP3 players, TV streamers, tablets, navigation systems, etc.) and streams these sounds wirelessly to both hearing aids in stereo quality, resulting in better understanding and more enjoyment.



For more information visit www.phonakpro.ca

PHONAK
life is on

Phonak ComPilot II

The Phonak ComPilot II is the all-in-one streaming and remote control accessory for Phonak Venture hearing aids. It can receive speech and music from all Bluetooth enabled audio sources (cell phones, MP3 players, TV streamers, tablets, navigation systems, etc.) and stream these sounds wirelessly to both hearing aids in stereo sound quality, resulting in better understanding and more enjoyment.



For more information visit www.phonakpro.ca

PHONAK
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Phonak EasyCall II

The Phonak EasyCall II is a unique wireless accessory that connects any brand of Bluetooth enabled cell or smart phone to Phonak Venture hearing aids. After picking up the phone, it automatically and wirelessly streams the call to both Phonak Venture hearing aids resulting in unmatched sound quality and maximum understanding.



For more information visit www.phonakpro.ca

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life is on

Phonak DECT Phone

This advanced cordless phone is easy to use and includes essential features designed specifically for people with hearing loss. The main benefit of the Phonak DECT Phone is the simultaneous sound transmission to both hearing instruments, maximizing speech intelligibility.



For more information visit www.phonakpro.ca

PHONAK
life is on

Phonak PilotOne II

The Phonak PilotOne II is the easy-to-use remote control for clients with Phonak Venture hearing aids. It adjusts the volume and program settings of the hearing aids with 4 simple buttons: Home, Volume up, Volume down and Program.



For more information visit www.phonakpro.ca

PHONAK
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Phonak RemoteMic

The Phonak RemoteMic is a Bluetooth-based microphone which is clipped onto the conversation partners' clothing. It then streams the speaker's voice to Phonak wireless hearing instruments via ComPilot. This improves the intelligibility and listening experience when listening to a speaker or sound source in a noisy environment, or over a distance of up to 20 m (60 ft).



For more information visit www.phonakpro.ca

PHONAK
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Roger WallPilot

Wall mounted device used to automatically connect Roger receivers and teacher microphones to the class room's existing Roger networks.



roger

For more information visit www.phonakpro.ca

PHONAK
life is on

Roger Clip-On Mic

This compact microphone uses adaptive wireless transmission to help people with a hearing loss understand more speech in noise and over distance. It is ideal for use by a partner or friend, plus it includes an audio input for listening to multimedia and TV connectivity. It can also be used alongside other Roger Clip-On Mics and Roger Pens in a microphone network.



roger

For more information visit www.phonakpro.ca

PHONAK
life is on

Roger design-integrated receivers

Roger design-integrated receivers (02) bring industry-leading speech-in-noise performance to Phonak hearing instrument users who have a hearing loss. These discrete devices slightly extend the sleek contours of a Phonak hearing instrument.



roger

For more information visit www.phonakpro.ca

PHONAK
life is on

Roger Dynamic SoundField

Roger Dynamic SoundField by Phonak ushers in a new era in classroom amplification, solving today's soundfield issues by offering industry-leading performance, fully automated settings, and hassle-free integration with Phonak's personal FM systems.



roger

For more information visit www.phonakpro.ca

PHONAK
life is on

Roger DynaMic

The Roger DynaMic passaround microphone for Roger inspiro places Phonak's Roger technology within arm's reach of every student, ensuring no child is left out of the discussion.



roger

For more information visit www.phonakpro.ca

PHONAK
life is on

Roger EasyPen

The Roger EasyPen is an exciting product for clients who desire ultimate simplicity with full Roger performance and don't need Bluetooth functionality or manual microphone control.

Designed with discretion in mind, the Roger EasyPen microphone features premium speech-in-noise and over distance performance, adaptive wireless transmission, fully automated settings, TV connectivity and an audio input for listening to multimedia. It can also be used alongside other Roger Clip-On Mics, Roger Pens and Roger EasyPens in a microphone network.



roger

For more information visit www.phonakpro.ca

PHONAK
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Roger inspiro SoundField

Roger inspiro SoundField can only be used for the SoundField application with the Roger DigiMaster 5000 Loudspeaker, Roger DigiMaster 7000 and Roger DigiMaster X Loudspeaker. This system transmits in Digital Modulation (DM) only and is available at a significantly lower price than the Roger inspiro.



roger

For more information visit www.phonakpro.ca

PHONAK
life is on

Roger inspiro

The new Roger inspiro transmitter is our full featured wireless microphone that works with all components of the Roger systems. Simple to use, Roger inspiro connects with other Roger microphones, Roger receivers and Roger Dynamic SoundField with a simple click of the connect button. There is no need for frequency management, complex software or time consuming equipment set up. Roger inspiro is also compatible with previous generation FM receivers.



roger

For more information visit www.phonakpro.ca

PHONAK
life is on

Roger MyLink

Roger MyLink is an easy-to-use and affordable Roger receiver that works with any hearing instrument with a T-coil (from Phonak or any other manufacturer). A Roger microphone such as Phonak's Roger Pen picks up the desired speech at the source. This sound is sent wirelessly to the receiver (Roger MyLink), which relays the voice signal clearly to the user's hearing instruments. Roger MyLink is worn around the neck and transmits its signals to the hearing instruments using induction technology.



roger

For more information visit www.phonakpro.ca

PHONAK
life is on

Phonak TVLink II

The Phonak TVLink II base station is a device that transfers audio signals (from a TV or entertainment system) wirelessly to a compatible streamer (ComPilot, ComPilot II or ComPilot Air II) in stereo sound quality. In order to connect to a broad range of TVs and other audio equipment, the TVLink II offers not only classic analog but, also digital inputs.



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Sound Listening Environments Inc.

Hushh-ups®:

- Virtually eliminate noise caused by furniture legs scraping on uncarpeted floors.
- Are safe, durable, simple and easy to attach to chair, desk, and table legs.
- Are made using AIR inflation technology.
- Are free from chemicals found in cheaper pellet inflated balls.
- Recommended by Audiologists, Teachers of the Deaf/Hard of Hearing, and other professionals.
- Augment amplification technology such as hearing aids, FM and Sound Field Systems.
- Dramatically improve room acoustics.

ONE SIZE FITS ALL *

No more hassle trying to size glides for a variety of chairs, desks, and table configurations!

*Standard straight and disc bottom legs measuring up to 1.5" in diameter

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Tel: (800) 263-1828



Accessories

Our accessories integrate seamlessly to make the lives of your patients easier.

Our **remote control** offers easy control of essential hearing instrument settings.

uStream offers stereo sound through easy, more discreet connectivity to wireless devices. **uDirect 3™** adds the convenience of hands-free interaction with your cell phone and other audio devices.

uTV 3™ sends sounds wirelessly from your TV to your hearing instruments, via the uDirect 2.

uMic™ is a personal wireless microphone system that lets clients hear their companions more easily in challenging listening environments.



unitron Hearing matters

1.800.265.8255
unitron.com

WIDEX COM-DEX

The COM-DEX is a stylish, hands-free communication device that streams high-quality sound directly to the users' hearing aids from any smartphone.

- Up to **8 hours of streaming** and 1 week of standby time
- Built-in microphone for **hands-free talking** on a mobile phone or Skype™ via PC or tablet
- The COM-DEX app allows for **advanced RC functionality**
- **Compatible with all newer Bluetooth® sources** – PC, tablet, and smartphones
- Compatible with all Widex UNIQUE, DREAM, CLEAR and SUPER wireless hearing instruments

*Bluetooth pairing required.



Learn more at ca.widex.pro/comdex
ESHOP.WIDEX.PRO • 800.387.7943

WIDEX CALL-DEX

CALL-DEX is an ultra-compact, plug and play device for streaming conversations from mobile phones directly to hearing aids. CALL-DEX is simply inserted into the jack plug of almost any mobile phone and is then ready to use. No matching required.



- Stream conversations for **up to 80 hours**
- 3 weeks standby time
- **Plug and play**
- Powered by a size 10 battery
- Compatible with most mobile phones



Learn more at ca.widex.pro/calldex
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WIDEX UNI-DEX

The UNI-DEX is an easy-to-use, neck-worn plug and play solution designed to stream audio to the users' hearing aids - not just from cell phones, but any device with a mini-jack output, like iPods, iPads, etc.



- Hands-free and incredibly stable
- Streaming for up to 40 hours
- Built-in microphone – talk hands-free on a cell phone or when using Skype™ or FaceTime®
- Easy-to-use – just plug it in to the headphone jack and its ready to start streaming
- Room Off feature



Learn more at ca.widex.pro/unidex
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WIDEX TV-DEX

TV-DEX is a wireless streaming device for enjoying distortion-free television sound directly in the users' hearing aids.



- Real-time high quality stereo sound with no delay or echo
- 'Room Off' allows users to temporarily turn off the hearing aid's microphone to hear the TV with no background noise
- Volume up/down
- Up to 10 hours of streaming with rechargeable battery
- Compatible with all wireless models



Learn more at ca.widex.pro/tvdex
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WIDEX PHONE-DEX

PHONE-DEX streams crystal clear sound directly into wireless Widex hearing aids without a streamer.



- Cordless, amplified landline phone
- Streams call directly to hearing aid(s) without needing a streamer or telecoil
- Easy-to-use – hold the phone normally
- Binaural phone when using two aids
- Volume control
- Expandable up to 5 handsets
- Works as a conventional phone for non-hearing aid wearers
- Compatible with all wireless models



Learn more at ca.widex.pro/phonedex
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WIDEX FM+DEX

FM+DEX converts signals from an FM receiver, telecoil or audio line-in and streams them to wireless Widex hearing aids.



- Small & discrete
- Clip on or neck-loop worn
- Up to 10 hours of streaming with rechargeable battery
- Compatible with all wireless models



Learn more at ca.widex.pro/fmdex
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Batteries and Earmolds



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DiaTec
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WIDEX[®]
HIGH DEFINITION HEARING



Audibly big, visibly small.



There is no other hearing aid this small,
capable of this much.

Phonak Virto V introduces an industry first directional wireless 10 size battery model. It includes the unique Floating Antenna™ which can be placed individually for increased customization and space optimization. Based on sophisticated Venture technology, Virto V features the unrivalled AutoSense OS with Binaural VoiceStream Technology™ for outstanding precision and performance. Virto V is just one of many ingenious solutions from Phonak.



Simply ingenious

ALL STAR SALES | Aqua-Earbands

Aqua-Earbands are colourful 3mm thick neoprene headbands that are recommended by professionals to help keep ears warm and dry. The Aqua-Earbands hold earplugs in, and keep water out. They are available in 4 sizes and 14 reversible colours. An earband for each member of the family! Receive a free gift on your first order.



All Star Sales
4 Vata Crt – Unit 15
Aurora ON L4G 4B6
905-727-9135
1-800-361-0072



www.allstarsales.ca

ALL STAR SALES | Doc's Proplugs

Doc's Proplugs are preformed earplugs that help prevent Otitis Media. They are soft and comfortable and are available in 8 sizes, in solid or vented. 75% of ENT doctors recommend Doc's Proplugs because they are easy to fit, require no impressions, float and form an excellent watertight seal. Doc's Proplugs are inexpensive for both audiologists and patients. Now available in a new clamshell package.



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www.allstarsales.ca

ALL STAR SALES | Physicians Choice Earplugs

Physician Choice Earplugs are 100% medical grade silicone. They are great for sleeping or swimming. They reduce noise and repel water and are doctor recommended. The earplugs are available in 1 pair or 3 pair in a protective case.



Contact us:
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1-800-361-0072



www.allstarsales.ca

ALL STAR SALES | Insta-Mold Kit

For the hearing health professional, everything your need in one low cost starter kit so you can get started using Insta-Mold Featherweight instant silicones to make custom Swim plugs. Can make up to 50 pairs. Receive a free gift on your first order.



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Your hearing - Our passion

Oto Sil, Blue & White (2x660g)

- Multi-purpose putty
- Super-smooth consistency
- Easy mixing and removal
- Best cost/performance ratio with the highest detail reproduction and tear strength
- Retains it's shape and volume well
- Setting time: 3-5 minutes



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DiaTec
Diagnostic Solutions & Accessories

Bite Blocks

For open-jaw impressioning.

- Package of 100
- Non-elastic styrofoam holds desired angle with firmness
- Tapered shape can be positioned for best fit
- Drilled to accommodate strand of dental floss



866 326 8830
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DiaTec
Diagnostic Solutions & Accessories

EMSEE

Materials

- Acrylic: Hard clear, tints, Medicryl, Mediflex, Softex, Ultraflex
- PVC: Protint: Light pink or brown tint
Hydroclear: Clear frosted
Dermatex: Flesh colour
Neon: Hot Pink, Orange, Yellow, Blue, Purple
- Silicone: Flesh colour only, in frost or gloss finish
- Silicone II: Frost or gloss finish. Hundreds of colours and patterns, glitter, or glow-in-the-dark
- Catamaran: Floatable opaque swim plugs.
Hundreds of colours and patterns available

Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE

Conventional Molds

Every style of mold for BTE hearing aids is available: Full concha, Shell (Geriatric handle available), Half-Shell, Skeleton, Semi-Skeleton, Canal Lock, Canal Tip.



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE

Open Fit Molds

We have designed a series of Hollow Canal molds for use with Open-Fit hearing aids. Molds can use Slim Tubes, #13 tubes, or RIC devices (space permitting), in occluded or non-occluded options. Molds are usually Canal Lock, but any style is possible. Soft Silicone molds for use with regular-power or high-power RIC devices are also available, in any style, as well as CROS and IROS molds to allow combination aided and unaided sound in high frequency losses.



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE**Swim Plugs**

Plugs may be manufactured in any of our soft materials. Our most popular Catamaran floating plugs are available in hundreds of colours and patterns, including rainbow, camo, dots, or stripes. Select Silicone II for plugs that are transparent, translucent-tint, with sparkles, or glow-in-the-dark. We include a handy carrying case with each order, and handles and cords are available by request at no extra charge.



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE**Solid Noise Plugs**

For the maximum attenuation with an in-ear product, select the Solid Noise Plugs, which reduce sound by approximately 28dB of constant attenuation when properly fit. These are the best choice for persons who regularly find themselves in very loud environments. Usually made of Silicone or Sil II with a marker to indicate one side, any soft material can be chosen, with optional handles, cords, clips, or metal detector balls.



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE**Filtered and Vented Noise Plugs**

In situations where a person needs to hear some sound while reducing unwanted noise, we offer two options. Acoustic Filtered plugs provide minimal low-frequency attenuation, while reducing high frequencies up to 25dB, preserving speech comprehension. Vented Tuned plugs come with a set of inserts to allow the user to change high-frequency attenuation as desired, leaving low frequencies unaltered. Both of these products are available with the same options as the solid plugs.



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE**Sleep-Eez**

Similar to the solid noise plugs, but sculpted as a Shell to follow the contours of the ears. This is to enhance comfort while sleeping, permitting a person to lay on their side without pain. Silicone II is the standard material, but you can select any of our soft materials, in Shell, Half-Shell, or Canal Tip styles. The same shape makes these plugs suitable for use under helmets for motorcyclists or on construction sites.



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE**Musicians' Earplugs™**

Etymotic Research Musicians' Earplugs™ are designed to replicate the natural response of the open ear. Sound heard with these earplugs has the same quality as the original, but quieter. The occlusion effect common to other plugs is entirely absent. This is achieved by combining an interchangeable filter with a carefully calibrated, custom-tuned silicone earmold. Attenuation is available with 9, 15, or 25dB filters.



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE**MP3 Headset Buds**

For true-to-life sound, our headset buds can be adapted to almost any headset, including such high-fidelity monitors as Etymotic Research and Shure. The precision fit provided by a custom plug will be more comfortable for extended wear, and with lower ambient sound, music can be enjoyed at lower, safer sound levels, helping to preserve hearing. All headsets must be sent along with the impressions to ensure proper fit.

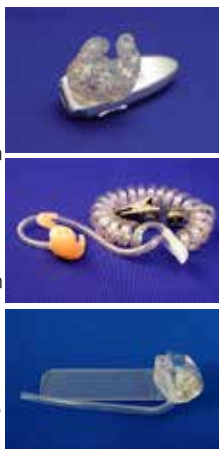


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EMSEE

Sound Systems

Regardless of the application, we are capable of adapting almost any earpiece to increase comfort and sound quality. With hands-free calling required in most of Canada, the isolation of Custom Bluetooth adapters are of extra benefit while driving. Many specialised products such as IFB communicators for television, "ham" radio, or police use, as well as Pilot Hanger-Bars are available as well. In most cases, headsets must be sent to the lab to ensure a proper fit.



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

EMSEE

Etymotic Research Consumer Products

We are proud to be partnered with Etymotic Research to distribute their consumer products in Canada. From the non-custom Ety-Plugs, which provide near-flat attenuation similar to the Musicians' Earplugs, through their lineup of headsets, Etymotic offers high-fidelity options for audiophiles and musicians. Multiple options exist for corded or wireless headphones and headsets.



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EMSEE

Accessories

Tubing and venting supplies:

- 13 Medium, Heavy Wall, Double Wall, Dry; 3/4mm Horns
- Tube Locks: Gold, Plastic, Invisilock, Flexible Vinyl
- Cement: Hard (Acrylics), Soft (PVCs), or Extra-Strength
- SAVs (Small or Large)
- Bulk tubing by the foot (Med or HW)

Impression-taking:

- MegaSil hand-mix
- MegaSil "Solos" (Premeasured singles)
- Syringes and Earlights
- Oto-blocks (7 sizes)



Tel: 905-886-3366 1-800-893-6733
www.emsee.ca info@emsee.ca

Oticon Earmolds

Molds

- BTE
- RITE
- Power RITE
- CordaminiFit
- CordaminiFit Power

Materials

- Hard Acrylic
- Silicone
- Soft Silicone

Styles

- LiteTip
- In-Mold
- Micromold
- Canal
- Canal Lock
- Half Shell
- Semi Skeleton
- Skeleton
- Non-occluding
- Shell
- Full Mold
- Receiver



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Earmolds, enhanced by AOV

The new Phonak Earmolds with AOV represent an advantage compared to conventional, manually produced earmolds. By taking into account the client's hearing loss configuration and the selected Phonak BTE hearing device, the Phonak Earmold with AOV delivers the ideal balance between gain, sound quality and occlusion management.

This perfect partnership between the mechanical aspects of the earmold and the innovative Phonak hearing instrument technology ensures the technologically optimized Phonak BTE solution.



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powerone)))

Hearing aid batteries – wireless approved.

Modern hearing aids have many demanding functions that use Wireless technology and therefore a very high power demand is necessary for this. With the mercury-free hearing aid batteries, wireless-approved type p13 and p312 and the high-drain approved type p10 and p675, power one offers high performance batteries with maximum energy density that especially meet these requirements of the new generation of hearing aids.



For more information contact us at
1 800 876-1167

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SIEMENS

Private label mercury-free batteries

Promote your business while being environmentally conscious

Promote your brand by labeling batteries with your own company logo. Siemens offers an all-new process in providing effective branding for your battery needs.



bestsound-technology.ca

SIEMENS

eCharger™

Powers and protects the hearing aids

After just 6 hours, the hearing aids are fully charged - ready for a busy day ahead.

In addition, the electronic drying function prevents moisture damage, ensuring long-term reliability.



bestsound-technology.ca

SIEMENS

SkyComfort™

Ideal for those who travel frequently

Changes in cabin pressure on an airplane, especially during takeoff and landings, can cause ear discomfort and even pain. Loud noises from the engines during the flight can be disturbing. SkyComfort custom earmolds provide individualized ear protection. The specialized SANOHR fly-filter reduces the air pressure at the eardrum during flight, making the effects of altitude changes on the ears less uncomfortable. Additionally, it reduces loud noises such as turbine or engine sounds without affecting communication with your travel partner.



bestsound-technology.ca

SIEMENS

Ear protection for swimming

Protect sensitive ears from water

Siemens ear protection for swimming provides a tight and custom fit so it can protect sensitive ears from irritation or infection caused by water in the ears.

It is perfect for ears of any age, from young children who have ear tubes, or adults who need ear protection during activities involving water such as swimming, boating, diving, or simply taking a shower.



bestsound-technology.ca

SIEMENS

Music listeners ear protection

Small and discreet with natural sound quality

Now you can protect your hearing while enjoying music as a spectator or a musician in a band.

Siemens ear protection for musicians and music lovers allows you to enjoy listening as well as making all varieties of music while protecting your hearing. A special filter, positioned within the custom ear protection, reduces the loudness of the music. Enjoy rock concerts, heavy metal music, and sports events at a reduced level without losing sound quality.



bestsound-technology.ca

SIEMENS

Hearing protection for hunting/high decibel noise

Protect ears while shooting at the range or hunting

A simple gunshot registers at 140 decibels which is significant enough to cause permanent hearing loss. Siemens custom ear protection for hunting and high-decibel noise is specifically designed for these transient types of sounds. They are custom-made to fit your ear so they offer maximum protection from loud, harmful sounds and the sudden "impulse noise" coming from a gun.



bestsound-technology.ca

SIEMENS

Custom Earmolds

One integrated hearing system

Siemens delivers an impressive hearing experience that makes users forget they are wearing hearing instruments. We bring that same drive for innovation to Siemens Earmolds so you can get BestSound Technology in one integrated hearing system – conveniently, accurately, and quickly.



bestsound-technology.ca

WIDEX BATTERIES

Premium Rayovac Mercury-Free Widex Full Performance hearing aid batteries.

- Designed to **meet the demands** of modern digital hearing aids
- **Reliable and long lasting** even in extreme environmental conditions such as high humidity
- Available in #10, 13, 312 & 675 sizes

Volume and private labelling available for all premium Rayovac Mercury-Free Widex Full Performance hearing aid batteries.



Learn more at ca.widex.pro/batteries
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Hearing Instruments

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rediscover hearing

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PEOPLE FIRST

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life is on

SIEMENS

SONIC
Everyday Sounds Better

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Hearing matters

WIDEX®
HIGH DEFINITION HEARING

THE NATURAL CHOICE FOR POWER AND PERFORMANCE

The all-new Power BTE is a strong, robust and modern hearing instrument, suitable for users with moderate to severe hearing losses. The P BTE is now available in Bernafon's newest hearing aid families, Juna 9 | 7, Saphira 5 | 3, and Nevara 1. It comes with an earhook and is also compatible with the miniFit system for added convenience with a variety of custom molds and domes.

Unlock the full power and potential of Swiss Engineered technology with this new Bernafon hearing instrument.

bernafon[®]
Your hearing • Our passion

Bernafon Canada
500 Trillium Drive, Unit 15
Kitchener, Ontario
Canada N2R 1A7

Phone 519 748 6669
Toll free 1 800 265 8250
Toll Free Fax 1 888 748 9158
bernafon.ca

JU 9 | 7 P
SA 5 | 3 P
NE 1 P



JUNA 9|7

For a first class hearing experience, Juna delivers new Audio Efficiency™ features such as Reverb Reduction, Speech Cue Priority™, i-VC, and Comfort in Airplane. Explore the possibilities in Bernafon's premium hearing aid family today.

MAKE MORE OUT OF EVERY SINGLE SOUND. WITH JUNA. YOUR FIRST CHOICE.

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Your hearing • Our passion

JUNA 9|7

FOR PRECIOUS MOMENTS IN LIFE

SAPHIRA 5|3

There are moments in life that are very precious. An impressive range of styles, in combination with state-of-the-art hearing aid and wireless technology, makes Saphira 5 | 3 a valuable choice for you and many of your customers. Let Saphira shine for a large number of your clients in their lives' most precious moments.

CHOOSE SAPHIRA A GEM FOR YOUR BUSINESS.

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Your hearing • Our passion

SAPHIRA 5|3

POWERFUL PERSPECTIVES

SUPREMIA 7|3

Reach out to even more clients with Bernafon's most powerful channel free hearing aid. With the Supremia Super Power BTE, we strive to offer people with severe to profound hearing losses a new perspective in hearing. Supremia's contemporary design and sophisticated feature set have the potential to inspire and support your super power users every day.

BE PART OF A POWERFUL CHANGE IN PERSPECTIVE WITH SUPREMIA.

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bernafon®
Your hearing • Our passion

SUPREMIA 7|3

CUSTOM-MADE SOLUTIONS FOR ME AND YOU

NEVARA 1

For convincing sound quality choose Nevara. Impressive feedback handling with AFC Plus and effective noise reduction with ANR Plus are now offered in the entry-level performance category. With many models and easy fittings, you will be well on your way to a sound solution for your clients.

A MORE-THAN-SUITABLE CHOICE FOR EVERYONE.

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bernafon®
Your hearing • Our passion

NEVARA 1

ReSound Enya™



- Budget price
- Available in 2 Technology Levels 3 & 2
- Adaptive Directionality
- Fixed Directionality
- SoftSwitching™
- NoiseTracker™ II
- Dual Stabilizer II DFS with Whistle Control
- Expansion
- Phone Now™
- In Situ Audiometry
- Open Fitting Capability
- A Complete Line Up including RIC and CIC
- iSolate™ Nanotech Protection
- Tinnitus Sound Generator
- Compatible with all ReSound Unite™ Wireless accessories (ReSound Enya 3 only)*
- Windguard
- UP fitting options
- DVA Pre-approved

resoundpro.com

*Feature dependent on model

ReSound



1-888-737-6863

ReSound ENZO™



- Available in 3 Technology Levels 9/7/5
- 86 dB Stable Gain
- ReSound SmartRange™ chip
- Surround Sound by ReSound™
- Environmental Classifier
- Sound Shaper™
- Low Frequency Boost
- Noise Tracker™ II*
- Directional Mix Processor
- DFS Ultra™ II & Auto DFS™
- 2.4 GHz Wireless Technology
- Synchronized Acceptance Manager
- Amplification modes: WDRC, Semi-linear, Linear*
- Made for iPhone® (Levels 7 & 9)*
- Ear Level Synchronized Push Button & Volume Control
- TC and DAI support
- Unique Earhook
- Wireless Fitting with Airlink™ 2
- ReSound Smart™ app*

resoundpro.com

*Feature dependent on model

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ReSound



1-888-737-6863

ReSound LiNX²



- Available in 3 Technology Levels 9/7/5
- ReSound SmartRange™ chip
- Surround Sound by ReSound™
- WARP™ compression
- Environmental Classifier
- Sound Shaper™
- Noise Tracker™ II*
- WindGuard™**
- Directional Mix Processor
- Binaural Directionality™ II*
- Environmental Optimizer*
- DFS Ultra™ II & Auto DFS™
- Music Mode
- Synchronized Push Button
- PhoneNow™
- Synchronized Acceptance Manager
- SuperPower fitting options (UP receiver only)
- 2.4 GHz Wireless Technology
- Made for iPhone®
- Wireless Fitting with Airlink™ 2
- iSolate™ Nanotech Protection
- ReSound Smart™ app*
- Tinnitus Sound Generator

resoundpro.com

*Feature dependent on model

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ReSound



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Oticon Alta2



- Inium Sense Platform
- Speech Guard E
- Corda miniFit & miniFit Power
- YouMatic Premium
- Inium Sense feedback shield
- IP58 certified dust & water resistant
- Spatial Sound Premium
- Binaural Processing, Synchronization, PB Coordination
- 100 dB fitting level available in custom products
- Special purpose programs
- Wireless IIC and CIC
- Spatial Noise Management
- FreeFocus Premium
- Artificial Intelligence Premium [+]
- Connect [+] with Power Bass and Music Widening
- Tri-State Noise Management System
- Multi-band Adaptive Directionality
- Flexible miniFit Receiver & Dome System
- ConnectLine enabled
- Fitting bandwidth 10 kHz
- All styles available including new BTE Plus Power
- Soft Speech Booster
- Tinnitus SoundSupport (Alta2 Pro Ti miniRITE, RITE and BTE)

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PEOPLE FIRST

Oticon Nera2



- Inium Sense Platform
- Corda miniFit & miniFit Power
- YouMatic Advanced
- Inium Sense feedback shield
- IP58 certified dust & water resistant
- Spatial Sound Advanced
- 100 dB receiver available in custom products
- Binaural Processing, Synchronization, PB Coordination
- Wireless IIC and CIC
- Special purpose programs
- FreeFocus Advanced
- Artificial Intelligence Advanced [+]
- Tri-State Noise Management System
- Multi-band Adaptive Directionality
- Flexible miniFit Receiver & Dome System
- ConnectLine enabled
- Fitting bandwidth 8 kHz
- All styles available including BTE Plus Power
- Soft Speech Booster
- Tinnitus SoundSupport available in Nera2 Pro Ti miniRITE, RITE and BTE

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PEOPLE FIRST

Oticon Ria2



- Inium Sense Platform
- Corda miniFit & miniFit Power
- 100 dB receiver available in custom products
- Wireless IIC and CIC
- YouMatic Essential
- Inium Sense feedback shield
- FreeFocus Essential
- Binaural Synchronization, PB Coordination
- Artificial Intelligence Essential [+]
- Special purpose programs
- Single-band Adaptive Directionality
- Flexible miniFit Receiver & Dome System
- ConnectLine enabled
- Fitting bandwidth 8 kHz
- IP58 certified dust & water resistant
- All styles available including new Plus Power BTE
- Tinnitus SoundSupport available in Ria2 Pro Ti miniRITE, RITE and BTE

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PEOPLE FIRST

Oticon Dynamo



Dynamo SP10/SP8/SP6/SP4

- Super Power BTE (13)
- Inium Sense Platform
- Speech Guard E
- Speech Rescue™
- Inium Sense feedback shield^{SP}
- Spatial Noise Management
- Binaural Synchronization & Coordination
- YouMatic
- FreeFocus
- T-coil
- Fitting Bandwidth 6.5 kHz
- Bimodal Support
- Special Purpose Programs
- Multi-band Adaptive Directionality
- ConnectLine, Streamer and remote control
- Dynamic Speech Enhancement (DSE)
- DAI input and FM option
- IP58 certified dust and water resistant

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PEOPLE FIRST

Oticon Sensei SP



Audiological Features

- Speech Guard E
- Speech Rescue
- Inium Sense feedback shield
- Fitting Bandwidth 6.5 kHz

Fitting

- SmartFit Trainer™
- EasyRECD™
- Binaural Synchronization & Coordination

ConnectLine

- ConnectLine enabled
- Power Bass
- Music Widening

FM Features

- VoicePriority i™
- FM Super Silencer

Child Friendly

- LED light
- Tamper resistant battery doors
- Hypo allergenic
- Drop-tested
- IP58 classified
- Phthalates-free

Styles

- New Sensei Pro SP and Sensei SP

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PEOPLE FIRST

Oticon | Sensei



Audiological Features

- Speech Guard E
- Inium feedback shield
- 10 kHz Bandwidth

Fitting

- SmartFit Trainer™
- EasyRECD™
- Binaural Synchronization & Coordination

ConnectLine

- ConnectLine enabled
- Power Bass
- Music Widening

FM Features

- VoicePriority i™
- FM Super Silencer

Child Friendly

- LED light
- Tamper resistant battery doors
- Hypoallergenic
- Drop-tested
- IP58 classified
- Phthalates-free

Styles

- Sensei Pro and Sensei
- Flexible miniFit receivers
- Corda miniFit

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PEOPLE FIRST



The Ponto Pro bone anchored hearing system from Oticon Medical

Ponto Pro & Ponto Pro Power

- Easy to use
- Dynamic Feedback Cancellation
- Feedback Manager
- Multiband Adaptive Directionality
- Speech Guard
- Natural sound quality
- Sleek design and advanced RISE processing chip
- Flexibility to adapt to challenging listening environments
- Wide Implant



www.oticonmedical.ca

oticon
MEDICAL

Ponto Plus & Ponto Plus Power



- Wireless Bluetooth Communication with the Streamer + ConnectLine products!
- Feedback shield (phase inversion + frequency shifting + gain control)
- Speech Guard E
- Customizability with new colour casings + stickers
- More powerful transducer
- Genie Medical 2013.1
- Sleek design and advanced Inium processing chip
- Better hearing in difficult situations
- Wide Implant + choice of abutment length and orientation!

www.oticonmedical.ca

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MEDICAL

Oticon | Amigo

Amigo R12

- Dedicated ear-level receiver for Oticon BTE and RITE hearing aid styles
- Secure FM connection and smaller profile
- Built-in LED light confirms FM system is on, synchronized to the correct channel and receiving the FM signal
- Push button for on/off and Channel Seek
- Available in 12 colours to compliment Oticon hearing instruments

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PEOPLE FIRST

Oticon | Amigo



Amigo Star

- Ear level FM receiver
- 312 Battery size
- 55 hour battery life
- Transmission range up to 30 metres
- Water resistant with IP57 classification
- On board volume control with on/off function
- On board channel selection via push button
- LED status indicator (on when FM signal is received)
- 6 colour options

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Phonak Audéo V

Phonak Audéo Venture is the comprehensive RIC (receiver in the canal) portfolio for mild to severe hearing losses. Phonak Audéo V includes four designs, three external receivers and four performance levels, including a noise generator for tinnitus management. Powered by the innovative technology of the new Phonak Venture platform, Phonak Audéo V hearing aids are the ideal solution for those clients that prefer best hearing performance in flexible and discreet RIC housings.



For more information visit www.phonakpro.ca

PHONAK
life is on

Phonak Bolero V

Phonak Bolero V is the comprehensive BTE portfolio for mild to profound hearing losses. Phonak Bolero V includes three designs and four performance levels, including a noise generator for tinnitus management. Powered by the innovative technology of the Phonak Venture platform, Phonak Bolero V hearing aids are the ideal solution for those clients that prefer best hearing performance in water resistant high-tech BTE housings.



For more information visit www.phonakpro.ca

Phonak CROS II

Phonak CROS II is a dedicated product for clients with an unaidable hearing loss in one ear. Featuring the unique Phonak Binaural VoiceStream Technology™, it wirelessly transmits the sound from the unaidable ear to a Venture hearing aid on the better hearing ear. The hearing aid receives the signal and plays it into the better ear. As a result a person with single-sided deafness (SSD) can hear speech from the side they have not heard from before.

CROS II is compatible to hearing aids in all performance classes using the Phonak Venture platform.



For more information visit www.phonakpro.ca

Phonak Naída Q

Phonak Naída Q is the most complete, WaterResistant power portfolio covering mild to profound hearing losses. It includes three models, available in four performance levels. Naída Q introduces significant performance enhancements across all levels, offering a host of features, based on Binaural VoiceStream Technology™. The Naída Q portfolio is available in the highly attractive Phonak Quest colour range.



For more information visit www.phonakpro.ca

Phonak Sky Q

Phonak Sky Q is the most comprehensive portfolio exclusively designed for children of all ages with mild to profound hearing losses. All four models are water resistant and dust tight. Tamperproof solutions are available when necessary. Phonak Sky Q introduces significant enhancements across the three performance levels, offering the unique benefits of Binaural VoiceStream Technology™ for children. Enhanced fitting capabilities in Junior mode provide increased customization to meet listening needs while unique housing and ear hook colours enable children to Mix & Match so they can fully express their personalities.



For more information visit www.phonakpro.ca

Phonak Virto V

Phonak Virto V is the comprehensive custom product offering for mild to severe to profound hearing losses, including six models in four performance levels.

Powered by the innovative technology of the Phonak Venture platform, Phonak Virto V hearing aids are the ideal solution for those clients that prefer best hearing performance and a cosmetically attractive custom made hearing solution.



For more information visit www.phonakpro.ca

SIEMENS

binax

Ace™ binax

A highlight of discretion and sound

- Powered by binax technology
- IP67-rated - resistant to moisture, sweat, dust and dirt
- Remotely controllable via the new touchControl App
- Ultra small design - the hearing aid is nearly imperceptible when worn
- Push button - also available as flat cover
- Tinnitus therapy feature



bestsound-technology.ca

SIEMENS

binax

Pure™ binax*Sophisticated binaural technology in an elegant design*

- Powered by binax technology
- e2e wireless 3.0™ - third generation wireless system enables the sophisticated binax binaural features
- IP67-rated - resistant to moisture, sweat, dust and dirt
- The industry's most energy efficient hearing aid
- Directional microphone placement and orientation is optimized to ensure the best possible hearing performance
- Easily operable via the easyTek audio streamer/remote control as well as the touchControl App
- Rechargeable - no hassle with tiny batteries
- Tinnitus therapy feature



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SIEMENS

binax

Carat/Carat A™ binax*True binaural hearing meets flexibility in a compact design*

- Powered by binax technology
- e2e wireless 3.0™ - third generation wireless system enables the sophisticated binax binaural features
- IP67-rated - resistant to moisture, sweat, dust and dirt
- Easily operable via the easyTek audio streamer/remote control as well as the touchControl App
- Rechargeable (Carat only) - no hassle with tiny batteries
- DAI-ready (Carat A only) - when used with the integrated DAI battery door, this model connects easily to most common FM solutions



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SIEMENS

binax

Motion™ SX binax*Sleek and easy to manage with true binaural capabilities*

Fully featured, Motion provides almost all options to cover any individual need. The rechargeable Motion SX binax aids come in an innovative, sleek design with improved directionality. This makes them not only very discreet and comfortable to wear but also provides the best possible listening performance.



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SIEMENS

binax

Motion™ SA binax*Sleek and easy to manage with true binaural capabilities*

Fully featured, Motion provides almost all options to cover any individual need. The DAI-ready Motion SA binax comes in an innovative, sleek design with improved directionality. This makes them not only very discreet and comfortable to wear but also provides the best possible listening performance.



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SIEMENS

binax

Motion™ PX binax*Sleek and easy to manage with true binaural capabilities*

Motion PX binax is a powerful partner in a proven design; with its high level of amplification, it can cover a broad range of hearing losses and is a reliable solution for almost any customer. Its user-friendly controls, rechargeability, and intelligent interfaces offer wearers hassle-free handling and usability.



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SIEMENS

binax

Insio™ binax*Leading in binaural directionality*

With binaural OneMic directionality, Insio binax™ CICs present a true world's first: These tiny custom hearing aids can offer directionality that can only be achieved with binaural technology. Additionally, all Insio binax models, even tiniest CICs, are remotely controllable via the touchControl App™. This makes Insio binax a nearly invisible solution with outstanding audiological performance.



bestsound-technology.ca

SIEMENS

binax

Insio™ binax Power Matrix

Leading in binaural directionality

With binaural OneMic directionality, Insio binax™ CICs present a true world's first: These tiny custom hearing aids can offer directionality that can only be achieved with binaural technology. Additionally, all Insio binax models, even tiniest CICs, are remotely controllable via the touchControl App™. This makes Insio binax a nearly invisible solution with outstanding audiological performance.



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SIEMENS

Orion™ 2 RIC 10

Individual, comfortable hearing

The new Orion 2 family offers all types of hearing aid models, from RICs to BTEs to customs. All models provide good speech understanding and a comfortable listening experience according to the wearer's sound preferences and needs. Orion 2 is remotely controllable via the touchControl App – thus offering a discreet hearing solution for many of your customers.



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SIEMENS

Orion™ 2 RIC 312

Individual, comfortable hearing

The new Orion 2 family offers all types of hearing aid models, from RICs to BTEs to customs. All models provide good speech understanding and a comfortable listening experience according to the wearer's sound preferences and needs. Plus, Orion 2 offers wireless connectivity options; via the easyTek, it can stream audio from most Bluetooth-enabled devices. And it is remotely controllable via the touchControl App – thus offering a discreet hearing solution for many of your customers.



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SIEMENS

Orion™ 2 S

Individual, comfortable hearing

Thanks to high resolution, feedback cancellation, and directionality, all models provide good speech understanding and a comfortable listening experience according to the wearer's sound preferences and needs. Plus, Orion 2 offers wireless connectivity options: Via the easyTek™, it can stream audio from most Bluetooth-enabled devices. And it is remotely controllable via the easyTek App™ and the touchControl App™ – offering a discreet hearing solution to almost all your customers.



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SIEMENS

Orion™ 2 M

Individual, comfortable hearing

Thanks to high resolution, feedback cancellation, and directionality, all models provide good speech understanding and a comfortable listening experience according to the wearer's sound preferences and needs. Plus, Orion 2 offers wireless connectivity options: Via the easyTek™, it can stream audio from most Bluetooth-enabled devices. And it is remotely controllable via the easyTek App™ and the touchControl App™ – offering a discreet hearing solution to almost all your customers.



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SIEMENS

Orion™ 2 P

Individual, comfortable hearing

Thanks to high resolution, feedback cancellation, and directionality, all models provide good speech understanding and a comfortable listening experience according to the wearer's sound preferences and needs. Plus, Orion 2 offers wireless connectivity options: Via the easyTek™, it can stream audio from most Bluetooth-enabled devices. And it is remotely controllable via the easyTek App™ and the touchControl App™ – offering a discreet hearing solution to almost all your customers.



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SIEMENS**Sirion™ 2 S**

Sound hearing, smart control

Thanks to feedback cancellation and noise reduction technology, each model provides a comfortable hearing experience. And this solid, Essential-range family offers convenient handling: All Sirion 2 hearing aids are remotely controllable via the touchControl App™ to provide a high level of discretion in every situation.



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SIEMENS**Sirion™ 2 M**

Sound hearing, smart control

Thanks to feedback cancellation and noise reduction technology, each model provides a comfortable hearing experience. And this solid, Essential-range family offers convenient handling: All Sirion 2 hearing aids are remotely controllable via the touchControl App™ to provide a high level of discretion in every situation.



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SIEMENS**Sirion™ 2 P**

Sound hearing, smart control

Thanks to feedback cancellation and noise reduction technology, each model provides a comfortable hearing experience. And this solid, Essential-range family offers convenient handling: All Sirion 2 hearing aids are remotely controllable via the touchControl App™ to provide a high level of discretion in every situation.



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SIEMENS**Orion™ 2 Custom**

Individual, comfortable hearing

Thanks to high resolution, feedback cancellation, and directionality, all models provide good speech understanding and a comfortable listening experience according to the wearer's sound preferences and needs. Plus, Orion 2 offers wireless connectivity options: Via the easyTek™, it can stream audio from most Bluetooth-enabled devices. And it is remotely controllable via the easyTek App™ and the touchControl App™ – offering a discreet hearing solution to almost all your customers.



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SIEMENS**Sirion™ 2 Custom**

Sound hearing, smart control

Thanks to feedback cancellation and noise reduction technology, each model provides a comfortable hearing experience. And this solid, Essential-range family offers convenient handling: All Sirion 2 hearing aids are remotely controllable via the touchControl App™ to provide a high level of discretion in every situation.



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SIEMENS**Aquaris™ micon**

Waterproof, ultra robust construction, unlimited enjoyment

- Equipped with micon technology
- Wireless connectivity
- IP68-rated - waterproof and dust proof
- Completely protected housing - suitable for continuous immersion in water up to 1 metre
- Soft touch surface for better grip behind the ear
- Available with Sport Clip - ensuring a secure fit in any situation



bestsound-technology.ca

SIEMENS

micon

Nitro™ micon SP

Maximum power for maximum gain

- Equipped with micon technology
- Wireless connectivity
- IP67-rated - resistant to moisture, sweat, dust and dirt
- Maximum amplification, even in directional mode
- Ergonomic slim neck BTE housing design - discreet fit behind the ear
- DAI-ready - when used in combination with audio shoe, the BTE models connect easily to most common FM solutions
- Tinnitus therapy feature



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SIEMENS

micon

Nitro™ micon Custom

Maximum power for maximum gain

- Equipped with micon technology
- Wireless connectivity
- Maximum amplification, even in directional mode
- Tinnitus therapy feature



bestsound-technology.ca

SONIC | bliss

The sound of
another great day.



- Available in two technology levels, Bliss 100/80
- Custom models, IIC, BTE, mini BTE & nano RITE
- Speech Variable Processing
- Speech Priority Noise Reduction
- Impulse Noise Reduction
- Binaural Coordination
- Simple connectivity to wireless devices



www.sonici.com
800 667 7664

SONIC
Everyday Sounds Better

SONIC | charm

Simply
enjoyable.



- Available in two technology levels, Charm 60/40
- Custom models, IIC, BTE, mini BTE & nano RITE
- Speech Variable Processing
- Speech Priority Noise Reduction
- Binaural Coordination
- Simple connectivity to wireless devices



www.sonici.com
800 667 7664

SONIC
Everyday Sounds Better

SONIC | flip

Flip your
expectations.



- Available in four technology levels, Flip 100/80/60/40
- Speech Variable Processing
- Size 13 battery
- Speech Priority Noise Reduction
- Impulse Noise Reduction
- Multiple directional strategies to improve understanding in noise
- Adaptive feedback canceller
- Binaural coordination
- Simple connectivity to wireless devices

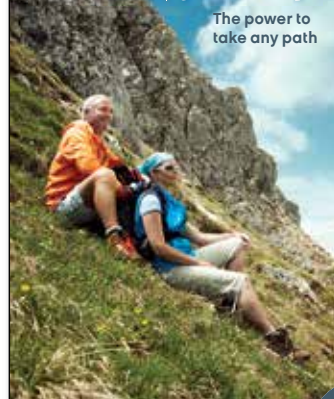


www.sonici.com
800 667 7664

SONIC
Everyday Sounds Better

SONIC | journey

The power to
take any path



- Available in two technology levels, Journey 80/40
- Speech Variable Processing
- Frequency Transfer
- Impulse Noise Reduction
- Reverb Reduction
- Analog Volume Control
- LED Visual Indicator
- Audible Performance Indicators
- Wireless Connectivity
- Size 13 Battery



www.sonici.com
800 667 7664

SONIC
Everyday Sounds Better

SONIC | celebrate

There's always a reason to celebrate.

- Available in two technology levels, Celebrate 100/80
- Custom models, IIC, mini BTE & mini RITE
- Speech Variable Processing
- Frequency Transfer
- Impulse Noise Reduction
- Reverb Reduction
- Hybrid Adaptive Directionality
- Wireless Connectivity
- Speech Priority Volume Control

SONIC
Everyday Sounds Better

www.sonici.com
800 667 7664

SONIC | cheer

cheer
for the excitement

Sound that's natural:

- Speech Variable Processing
- Adaptive Feedback Canceller
- Best Fit Fast SE
- Frequency Transfer

Speech understanding in noise:

- Adaptive Directionality
- Wind Noise Reduction
- Soft Noise Reduction
- Speech Priority Noise Reduction

Simplicity in everything we do:

- Universal Environment
- Data Learning
- Binaural Coordination
- Wireless Connectivity

Style that stands out:

- miniRITE, Nano BTE, Power BTE, Compact Power Plus BTE

SONIC
Everyday Sounds Better

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800 667 7664

Z series i110 / i90 / i70 / i30 / i20



BTE 13 | MINI BTE 312 | BTE 13 POWER PLUS | RIC 312
MICRO RIC 312 | ITE | HS | ITC | CIC

- Superior Audibility in Noisy Environments
- Distortion-Free Comfort in Loud Situations
- Effortless Connections with Streaming Media and Accessories
- Customizable Tinnitus Relief
- Spectral IQ is engineered to enhance real-time audibility by identifying high-frequency speech cues and replicating them in lower frequencies
- IQ Boost reduces noise while optimizing sound quality in noisy environments



www.StarkeyCanada.ca

THE BEST JUST GOT SMALLER



SoundLens 2 is even smaller with a redesigned faceplate and advanced mechanical design. The result – increased fit rates and durability. Tiny but powerful, these advanced instruments are loaded with the features and advanced technology that you've come to expect from Starkey Hearing Technologies.



www.StarkeyCanada.ca

Halo i110 / i90 / i70

Our Made for iPhone® Hearing Aids



- Enabling carefree conversations using iPhone
- Delivering Starkey Superior Sound™ and pristine audio streaming of any music or media played through their iPhone®, iPad® & iPod touch®
- Automatically adapting when patients are traveling in cars
- Allowing users to record, play back and email live sound sources
- Changing memories automatically based on personalized geotags
- Allowing Siri® to read emails and texts to patients through their hearing aids
- Letting them control their hearing aid volume and memories via iPhone

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Made for
iPod iPhone iPad

Stride

Powered by North

Stride™ leads the way in patient-centric design. This new family of behind-the-ear (BTE) and in-the-ear (ITE) styles offers impressive aesthetics, comfortable fit and intuitive controls that patients find so appealing, with choices to satisfy every need. Built on North, the platform that's powering a new direction in natural sound, Stride is packed with technology that truly allows your patients to focus on conversations in all listening environments. It's never been easier to help your patients find their Stride.



unitron. Hearing matters

1.800.265.8255
unitron.com

Moxi

▲ Powered by North

Our award-winning Moxi™ family has never looked or sounded better. That's because the latest generation of Moxi hearing instruments are built on our North platform. Moxi continues to lead the way in design excellence, while keeping choice front and centre with three receiver-in-canal (RIC) styles that give you even more options to offer your patients the one and only Moxi experience.



unitron. Hearing matters

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Flex

Flex™ is the industry-first hearing instrument trial and upgrade solution that helps improve in-clinic experience and build patient trust. This powerful tool for differentiating your practice is the only solution of its kind on the market. And it's only from Unitron. Flex:trial helps to reduce barriers associated with purchasing and wearing hearing instruments.

Flex:upgrade is a totally unique way to address evolving patient needs, while giving them the confidence that they have flexibility if things change again in the future.



unitron. Hearing matters

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WIDEX UNIQUE™

Performance levels: 440/330/220/110

WIDEX UNIQUE™ captures, purifies and processes sound like never before. WIDEX UNIQUE is the hearing aid your patients have been waiting for.

- 108 dB input dynamic range, giving UNIQUE the best sound capturing in the industry
- Sound Class Technology adjusts to the environment & your patients hearing loss resulting in the best sound experience in any environment
- Industry-leading noise reduction proven to provide better speech understanding in wind



W Learn more at ca.widex.pro/unique
ESHOP.WIDEX.PRO • 800.387.7943

WIDEX SUPER™

Performance levels: 440/220

WIDEX SUPER™ is a stylish RITE hearing aid with excellent sound quality for people with severe-to-profound hearing loss.

- Max output: 138 dB SPL (2cc coupler); Max gain: 78 dB SPL
- Wireless with a 675 battery, volume and program controls
- Speech Enhancer – 2.5 dB SNR improvement
- Zen – clinically proven for tinnitus management
- Audibility Extender – frequency lowering for high frequency hearing loss



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WIDEX MENU™

Performance levels: 10/5/3 channels

MENU™ is our non-wireless solution available in a wide range of styles from our smallest IIC to our new SUPER POWER BTE.

MENU is now easy to order, simply select your style and performance level (3, 5, or 10)! Our proven Widex features are now standard:

- Speech Enhancer
- Zen
- Audibility Extender
- Extra Programs
- SmartSpeak
- Sound Diary



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WIDEX CROS™

WIDEX CROS™ is a wireless CROS/BiCROS solution compatible with all wireless styles and technology levels in the DREAM hearing aid family.

- Excellent sound quality with no echoes or distortion
- Proven to significantly improve speech intelligibility for people with single-sided deafness when hearing in noise.
- Discreet wireless transmission
- Extremely low battery consumption – uses three times less battery power than other wireless CROS solutions
- Discreet FUSION or FASHION models available
- Compatible with DEX assistive listening devices (when not transmitting)



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Revue canadienne d'audition

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Canadian Hearing Report (CHR) is a Canadian hearing health care print journal that is published by Andrew John Publishing Inc. *CHR* provides a platform for researchers and students, Audiologists and Hearing Instrument Practitioners to impart and share knowledge in the form of papers, case studies, literature reviews and book reviews. We invite submission and also, letters!

CHR is one of the most well recognized publications of its kind in Canada. For 10 years, it has provided the hearing health care profession with a voice and a resource of high-quality articles. Our goal is not only to serve the profession but also to improve the quality of care to our clients.

Canadian Hearing Report is seeking quality articles related to all aspects of hearing health care.

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Testing, Outfitting, Hearing Instrument Accessories and Miscellaneous



Socrates once said,
“To find yourself,
think for yourself.”

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Blueprint solutions

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- In-house repair & loaner equipment available
- Fully stocked accessories including foam tips, tympanometers, probe tubes, etc.
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- Service across the country to clinics, hospitals, ENT or balance centres



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AC40 Clinical Audiometer

The AC40 allows for complete independent use as well as for full PC based audiometry with complete Noah and EMR/HIS integration, it is a true hybrid audiometer.

The AC40 provides the best of both worlds for those who like the familiar, classic feel of an audiometer keyboard while simultaneously engaging the power of the PC.

- Operate the AC40 as a standalone audiometer (no computer)
- Operate the AC40 via computer, and
- Operate the computer via the AC40



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AA222 Audio Traveler

The AA222 is the most comprehensive combination of middle ear analyzer and clinical audiometer available. It combines all of the diagnostic middle ear analyzer tests found on AT235 and most of the features available on the AD229 diagnostic audiometer. The AA222 is ideal for travelling to alternate locations and for clinical situations where space is at a premium.

- Includes speech and free field testing.
- Diagnostic impedance and audiometry
- PC integration for printing, storage/sharing
- Built-in power supply and test cavities



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AD629—The True Hybrid Audiometer

The AD629 includes all the features of a traditional diagnostic stand-alone audiometer but also offers full, two-way PC-control and online mode with flexible reporting tools and database storage (NOAH, OtoAccess™ and XML for EMR integration).

- Integrated pre-recorded speech options
- Internal storage for 500 patients/50,000 tests
- Direct print options
- High frequency option (20,000Hz)
- Compact and portable (35 x 29 cm)



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AS608/e Screening Audiometer

The portable AS608/AS608e is ideal for schools, industry, primary medical practices, etc. for quick hearing screening. It is easy to use and offers calibrated pure tone and warble tone stimuli. AS608e (extended version) includes Hughson Westlake automatic pure tone test and PC-integration through a USB cable using the Diagnostic Suite Windows® software for transferring audiometric data to the PC.

- Portable (total weight is less than 1.6 kg/3.5 lbs)
- Simple operation and inexpensive
- AS608e: PC-integration and auto test



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NEW AT235 Diagnostic Impedance Tympanometer

The AT235 is an automatic middle ear analyzer ideal for diagnostic and screening evaluations. Test batteries of the AT235 include standard tympanometry, ETF, ipsilateral and contralateral acoustic reflex and reflex decay and air conduction audiometry.

- Manual and automatic tympanometry
- Ipsi- and contralateral reflexes
- ETF test, Decay test
- Combi probe with remote control built-in
- Built-in power supply and test cavities
- High frequency probe tones (AT235h)



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The Eclipse ABR/OAE — A Complete Solution

The system when coupled with a PC, includes capabilities for measuring all facets of auditory evoked potentials and otoacoustic emissions. Data are managed through a single database with reports in print or EMR formats. Users build their own system choosing only modules they need with the ability to add more capabilities as their needs change.

- One platform for all tests
- Modular and future safe



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MedRx The Ultimate Office+

- AVANT REM Speech+ Live Speech Mapping System and the AVANT A2D+ Dual Channel Audiometer along with a convenient carrying case, together they make up The Complete Audiological Testing & Fitting System.
- Features include DSL (I/O), NAL-NAL1 and NAL-NL2 Targets for Speech Mapping
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NOISE CONTROL TECHNOLOGIES

Audiometric Rooms

Eckel Audiometric Rooms provide the precise noise control environments necessary for all variety of audiological testing. Over the past five decades Eckel has developed a broad spectrum of standard audiology booths, rooms and suites. A choice of several standard Audiometric Room models are available. Eckel also provides custom audiological & audiometric room design and fabrication.



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OtoRead Portable OAE

OtoRead is a fast, automatic handheld OAE instrument for testing newborn babies, children and adults. Actual test results along with a Pass or Refer indication are available on the display as well as in print from a thermal printer. The user has a choice of three different lengths of cable from the unit to the probe, providing great flexibility to accommodate a variety of testing situations. Tests may be performed with the unit resting in its cradle.

- User friendly
- Reliable
- DPOAE & TEOAE



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Callisto™—Redefining Portability

Interacoustics is proud to announce the release of the new modular member of our Hearing Aid Analyzer family.

Audiometry and REM in one Box!

- Small footprint and light weight (565 g / 1.25 lbs)
- Built-in digitized speech lists
- High frequency up to 16 kHz (optional)
- Counselling features
- Customized reporting and printing
- True on-top mode for fast and easy hearing aid fitting
- Latest NAL-NL2 fitting prescription



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Titan—Evaluating the Entire Auditory Pathway

Imagine a handheld instrument that will evaluate the entire auditory pathway from middle ear to brainstem, a product that will reduce your screening ABR test time by up to 50% and yet is so intuitively designed it requires only four buttons to do tympanometry, OAE & ABR. The ergonomic, lightweight Titan platform can do exactly that and much more.

- IMP440 — Impedance — Screening, Diagnostic, Clinical
- DPOAE440/TEOAE440 Screening and Clinical Option
- ABRIS440



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Titan Middle Ear Analyzer

Titan offers full clinical level middle ear analysis with multiple probe tones (226, 678, 800 and 1000 Hz), multiple Eustachian Tube tests, full reflex battery ipsi/contra, decay and latency as well as automatic and manual pump control. It can be operated either as a handheld or PC-controlled instrument with the ability to print to a small thermal printer or to a connected PC printer.

- A fully diagnostic and clinical impedance solution
- Handheld or PC-controlled
- High speed and high precision measurements
- Flexible and customizable protocols and reports
- Memory for 250 patients



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Wideband Tympanometry

The new dimension in differential diagnostics, WBT provides a 3D diagnostic insight of middle ear pathology, helping us to expand our understanding of the middle ear.

- Absorbance provides advanced diagnostic differentiation
- Comprehensive multi-frequency tympanometry — fast and data rich
- 3D mountains of insightful diagnostic data
- Unprecedented research potential



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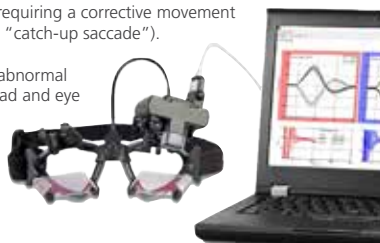
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VHIT – EyeSeeCam

The vHIT is a measure of the patient's vestibulo-ocular reflex (VOR) in response to head movement. A patient with a healthy vestibular system should be able to keep his eyes focused on a stationary target, even if the head is in motion. In patients with vestibular dysfunction, when the head moves, the eyes will move with the head, requiring a corrective movement back to the target (known as a "catch-up saccade").

EyeSeeCam vHIT captures this abnormal eye movement, displays the head and eye movements simultaneously in real time, analyzes the data and then provides a simple graphical presentation of the results.



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VF405 Video Frenzel

VF405 provides ideal conditions for fixation-free observation of eye movements during Positional testing, Dix-Hallpike testing, Head Impulse testing (HIT) and Spontaneous Nystagmus testing.

- Simultaneous display of patient movement and eye movement
- Comfortable and light tight goggle with disposable foam cushions
- Two versions: VF405 Basic for eye image display and VF405 Extended for additional video capture of eye images and examination procedures



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VO425 Vestibular & Oculomotor Analysis

The VO425 is designed for clinics that perform detailed balance evaluations. It offers all the features of the VN415 plus detailed oculomotor testing and analysis. Full field of view visual stimuli in Gaze, Saccade, Smooth Pursuit and Optokinetic testing ensure dramatically reduced numbers of false positives compared to oculomotor testing using lightbar generated stimuli.

- Full field of view visual stimuli
- Software generated stimuli including user's own patterns and images.
- Combination goggle for both occluded and nonoccluded view



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VIOT— Video Otoscope

One of the latest additions to the Interacoustics product family: The VIOT™ video otoscope. The Video Oscope is an important documentation tool for ENT doctors, Audiologists and hearing aid dispenser. Otoscopy is a fundamental practice prior to any audiological evaluation and it may determine alternative strategies during the patient's examination.

- Sharp and high resolution image capturing
- Clear and crisp video recording
- Powerful and bright light source allowing true color capturing
- Full membrane viewing capabilities
- Two focus ranges for tympanic membrane and external images
- Light weight and ergonomic design
- Robust and sealed silicon housing — easy to clean



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MAICO

Maico MA 41

- Portable stand-alone audiometer with pure tone, speech and free field audiometric testing
- Tone and speech audiometer for AC, BC and free field testing
- Pure tone, pulse tone, warble tone, narrow band and speech noise
- Speech tests from SD-memory card, CD or via microphone
- Individual customization by extensive configuration options
- Direct printout of the results
- USB PC-Interface, NOAH compatible



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MAICO

Maico MA 42

- Two-channel audiometer with pure tone, speech and free field audiometric testing as well as Master Hearing Aid
- Air conduction, bone conduction, free field and speech audiometric testing
- Pure tone, pulse tone, warble tone, narrow band, white and speech noise
- SISI, Decay, ABLB, MLB, Langenbeck, Stenger
- Mixing — signals and channels can be mixed independently
- Speech tests from SD-memory card, CD or microphone
- High Frequency Testing Option up to 20.000 Hz
- Direct printout of the results
- USB PC-Interface, NOAH compatible



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DiaCare Kit #1: all products in the kit are alcohol free.

- Sta-dri Jar: to remove moisture during overnight storage
- Ear-Gel: a lubricant to help in insertion of earmold
- Wipes: to clean exterior of aids or molds
- Earmold Spray: to clean ITE or earmolds
- Hearing Aid Battery Tester: to insure batteries are still good. Also has a convenient battery holder for 2 batteries
- Earmold Blower: to blow out earmold tube
- Brushes to brush off dry debris
- Convenient flip top storage box
- Available in quantities with clinic name and logo



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Introducing the NEW Verifit2

- Fully binaural system, both in the box and on the ear
- As-worn™ verification, allowing users to test hearing instruments programmed and positioned as they will be worn, both on the ear and in the test box
- Testing and verification of advanced hearing aid features including: Wideband amplification; Paired performance, programming changes, and volume control; and Streaming functions such as phone programs
- Measurements to 16kHz and audiometry entry to 12.5kHz for more complete results

- Ability to simultaneously compare hearing instruments from different manufacturers
- The only ANSI RECD compliant fitting system for more accurate results
- Ability to listen in on any test in progress using binaural monitor headphones



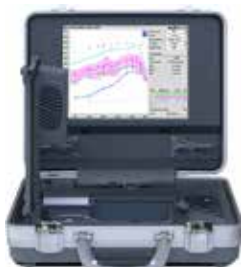
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RM 500SL

The RM500SL portable hearing instrument fitting system delivers the ability to quickly, objectively and accurately fit and test today's complex digital aids. Objective verification has become even more important with the increased complexity of digital instruments. The RM500SL allows you to accurately fit digitals any time, anywhere. The ultimate portable solution.



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AXIOM

Audioscan Axiom fitting system. Captivate your patients with Axiom's modern design and exclusive Speechmap display. Educate your patients by revealing their residual auditory area. Motivate your patients using our unique before-and-after amplification speech audibility measure. Axiom's simple process makes you and your patient a team with a common fitting goal — audibility that is comfortable.

The unique stand combines the on-ear speaker and probe microphone cable management. Stand adjusts to both floor, and table-top height.



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PerfectDry Lux

For Hearing Aid Dehumidification and UV-C Disinfection

- Forced-air fan system
- 360° UV-C lamp
- Quick cycle (30 minutes)
- Intensive cycle (1.5 hours)
- High quality materials
- USB or main power supply
- Compact case design
- Dimensions: 94x74x40mm



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Ear Gear Baha

Ear Gear Baha is designed to fit bone conduction hearing instruments. Ear Gear BAH A protects instruments from Moisture, Loss, Wind Noise, and Dirt. It is available beige and black only, and is produced in corded, cordless, and mono models. Ear Gear will minimize returns, and repairs, improve customer satisfaction, and help you sell more hearing instruments. Wholesale pricing available upon request.

For more information and to order, contact Mitch Stickney, V.P. Sales, email: mitch@gearforears.com phone 888-766-1838. Visit our website at www.gearforears.com to learn more.



Ear Gear Cochlear

Ear Gear Cochlear is designed to fit most types of implants. Ear Gear Cochlear protects instruments from Moisture, Loss, Wind Noise, and Dirt. It is available in 8 fashionable colours, and is produced in corded, cordless, mono, and eyeglasses models. Ear Gear will minimize returns, and repairs, improve customer satisfaction, and help you sell more hearing instruments.

Wholesale pricing available upon request.

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Ear Gear for Hearing Aids

Ear Gear for Hearing Aids is designed to fit BTE, and RIC hearing aids. Models are the micro, mini, original and FM, fitting the smallest to largest hearing aids. Ear Gear for hearing aids protects instruments from Moisture, Loss, Wind Noise, and Dirt. It is available in 8 fashionable colours, and is produced in corded, cordless, mono, and eyeglasses models. Ear Gear will minimize returns, repairs, improve customer satisfaction. Wholesale pricing available upon request.

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Ear Gear ITE

Ear Gear ITE is designed to work with ITE hearing aids to prevent loss. It is available in 8 fashionable colours, and is produced in binaural and mono models. Ear Gear will minimize returns, and repairs, improve customer satisfaction, and help you sell more hearing instruments. Wholesale pricing available upon request.

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Visit our website at
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Ear Gear Rondo

Ear Gear Rondo, is our newest model and is specifically designed to work with Medel's Rondo Implant. Ear Gear Rondo protects instruments from Moisture, Loss, Wind Noise, and Dirt. It is available in beige and is produced in corded, cordless, and mono models. Ear Gear will minimize returns, and repairs, improve customer satisfaction, and help you sell more hearing instruments. Wholesale pricing available upon request.

For more information and to order, contact Mitch Stickney, V.P. Sales,
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The Bionix Lighted Articulating Ear Curette



The Bionix Lighted Articulating Ear Curette combines the two greatest innovations in ear curettage, visualization with light and magnification, and articulation for the ability to work behind an occlusion in the ear canal. The easy to maneuver tip articulates up to 90 degrees to assist in the removal of cerumen from the ear canal and foreign bodies from the ear and nose.



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The Bionix Lighted Curette



Bionix has combined the safety of our single-use ear curettes with a powerful LED light source and a magnification lens creating visualization in what has typically been a blind procedure. This design gives you the ability to handle even the most difficult cerumen removal procedures with confidence and enhanced patient safety.



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The Bionix Lighted Forceps



The Bionix Lighted Forceps for foreign body removal is an innovative tool that provides primary and acute care physicians with light and magnification in a small, single-use forceps for the ear and nose. The Lighted Forceps is an extension of the innovative, award winning Lighted Ear Curette with Magnification product line.



How It Works
Squeezing the spring grip closes the forceps tip.



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Bionix Lighted Suction



Bionix has combined the innovation of the Lighted Ear Curette with the efficiency of a suction device. The combination provides the ability to quickly remove cerumen or foreign bodies with the utmost ease and safety.



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Bionix Otclear Irrigator



Sometimes, using a curette to remove ear wax is not the right approach for the patient. Sometimes you'll get an ear canal with hard, dry or impacted wax that needs to be irrigated. But traditional ear irrigation methods that shoot water directly into the ear canal can be both dangerous and messy.



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Echo-Screen® III Hearing Screener



The next generation automated, all-in-one hearing screener

The all new Echo-Screen III hearing screener combines advanced capabilities never before available in a single device. This versatile system uses the same proven and trusted algorithms with automated, pre-set screening parameters that have been used in millions of screenings¹, so you can feel confident in the quality of your results.



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DE550 Wireless Digital Video Otoscope



The DE550 Wireless Digital Video Otoscope is a special purpose digital video camera combined with a high magnification lens and multiple ultra-bright LEDs. Powered by 30x variable magnification, this innovative device streams high quality live video (at 30fps) to a computer or TV, enabling the user to view and record crystal clear images or videos.



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GSI 18



Pure Tone Screening Audiometer

The GSI 18 is a single channel, manual audiometer. It is a direct replacement for our GSI 17. Its stylish design along with its portability, built-in battery compartment and ability to store calibration data for both TDH 39 and EAR 3A or 5A insert phones makes the GSI 18 the ideal solution for school system and industrial hearing screening programs.



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GSI 39 Auto Tymp



Pure tone audiometry 226 Hz & 1K Hz Tympanometry screener

The GSI 39 Auto Tymp provides a flexible, screening product for tympanometry, acoustic reflex measurements and audiometry to meet your testing needs today and in the future. It is available in five different versions. Choose the features needed today and upgrade easily to the additional features as your needs grow in the future. These upgrades can be managed in your facility by your local GSI authorized distributor.



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audiostar^{pro}



Simply Brilliant

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The GSI AudioStar Pro is a versatile two-channel audiometer that can be used independently or with a computer to provide testing features for complete audiometric test evaluations on every patient population.



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GSI Corti Otoacoustic Emissions



The new GSI Corti™ is a portable, battery-operated diagnostic and screening instrument that measures Otoacoustic Emissions (OAE) in infants, children and adults. Offering the ability to rapidly screen newborns, the Corti meets recommended screening protocols and provides diagnostic OAE testing.



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The GSI TymStar



The GSI TymStar sets the standard for clinical middle-ear testing...A standard that had been established by its predecessor, the GSI 33. The sophistication, functionality and flexibility of the GSI TymStar provides unparalleled testing capabilities.



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Phone: (905) 822-3188: 1-800-263-6430
Fax: (905) 822-9920

Audiology Rooms



IAC's 60 years of experience in designs and installation of Rooms and Booths is second to none. Our audiology rooms provide a comfortable environment for staff and a relaxed atmosphere for patients. We design, manufacture and install an extensive range of high performance Audiology Test Rooms and Booths providing noise reduction levels from between Rw '35dB to Rw'60dB.



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Bio-logic Navigator® Pro AEP



**Flexibility, Portability & Adaptability -
Providing Results You Can Trust**

**Designed by Audiologists to Grow with You
& Your Patients' Needs**

The Bio-logic Navigator Pro diagnostic ABR system is the most complete product on the market that offers full AEP functionality in a Windows®-based system.



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Scout® SPORT

Biologic Scout® SPORT

PC-Based Diagnostic OAE System
Scout OAE Software adds flexibility & complements existing Bio-logic brand hearing products such as Navigator Pro AEP System and AuDX Pro OAE Screeners.



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D-Dry

The Art of Hearing System Care 3 in 1 — Compact and efficient!

- Drying and Cleaning UV-C light kit for all types of hearing systems and earmolds.
- The D-Dry kit protects your hearing aids against moisture, one of the main reasons for expensive repairs.
- The UV-C light reduces the accumulation of germs and therefore the risk of skin infections in and around the ear.



For more information contact us at
1 800 876-1167

PHONAK
life is on

iCube II

iCube II is a cable-free fitting device that wirelessly transfers fitting data from the PC to the client's hearing aids. It can be used with any wireless Phonak hearing aid in Phonak Target software.

The fitting process with iCube II is fast, smooth and cable-free. With improved reliability and stability, clients can enjoy the freedom to move or to walk around without being tangled up by cables.



For more information visit www.phonakpro.ca

PHONAK
life is on

SIEMENS

Unity 3™

Enhance your workflow and maximize customer satisfaction

Siemens Unity 3 is a PC-controlled fitting system that is flexible, modular, and compact, with tools that can be used together or independently.



bestsound-technology.ca

SIEMENS

iScan™

Your customer's ear impressions - easily handled

This innovative 3D scanning process allows acousticians to generate a 3D image of an auditory canal cast and send it directly to the manufacturer via e-mail. In conjunction with e-ordering, the iScan™ process eliminates the need for shipment costs and occasionally associated damage (such as shrinkage) from lengthy transportation periods. The end result is a better quality, better fitting product.



bestsound-technology.ca

SIEMENS

eARena™

Your customer's auditory training made easy

The best training programs are those that are easy to use. The eARena™ auditory training program was created to ease the adaptation to new hearing instruments. It can be used without any specific computer knowledge. eARena will guide your customers through 20 training steps. Each exercise requires approx. 30 minutes.



bestsound-technology.ca



Clarinet

Clarinet is a clinical middle ear analyzer, featured with all the tests needed for a deep and accurate investigation of middle ear disorders.

Advanced Features:

- Automatic and manual tympanometry • Acoustic reflex threshold
- Decay and latency examinations • ETF for intact and perforated eardrums
- High frequency and multi-component tympanometry

www.StarkeyCanada.ca



Piano

Piano is an advanced clinical audiometer featuring a complete battery of tests, including High Frequency, easily managed via the wide touch screen color display.

Advanced Features:

- Supreme flexibility • Extreme simplicity
- Available in three configurations: Basic, Plus and Plus VRA

www.StarkeyCanada.ca



Sycle Practice Management Software

Sycle is the number one practice management software in audiology and hearing care. Over 7,000 practices use Sycle to manage and grow their business. Sycle simplifies all your business processes so you're able to spend more time with patients. We automate every repeatable task, help grow your patient base, and increase patient satisfaction.

Features include drag and drop appointment scheduling, double booking, a paperless office solution, real time reporting, secure access from anywhere, best in class NOAH and QuickBooks integration, Canadian insurance capabilities, and more.



WIDEX DRY-GO UV™

The easy-to-use DRY-GO UV dries and sanitizes hearing aids and earmoulds in just 3 hours.



- Electronic drying system
- Protects hearing aids from moisture damage – **no desiccant required**
- Kills 99.9% of germs, bacteria and fungi with its UV-C light
- Daily use **improves acoustic performance**
- Energy efficient, safe and easy-to-use
- Portable – includes a hard travel case & powered by a standard outlet or USB



Learn more at ca.widex.pro/drygo
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THE STARKEY EXPERIENCE

FOUR DECADES OF INNOVATION

From our humble beginnings as a hearing aid repair shop, Starkey has done things differently. Our focus is not just manufacturing hearing aids, it's improving the hearing lives of people around the world. To this end, we have created the most advanced Research and Development department in the industry and continue to make life-changing advances year after year. Starkey firsts include the first in-canal hearing aid, the first CIC hearing aid, the first hearing aid with nanotechnology and the first real-ear measurement integrated directly into a hearing device.

BREAKTHROUGHS COME IN ALL SHAPES & SIZES – ESPECIALLY SMALL

Our latest innovations in hearing aid design create an unparalleled listening experience while eliminating some of the most frustrating characteristics of older hearing aids. For the first time ever, hearing aids are virtually feedback-free. Our nanotechnology also allowed us to incorporate automatic telephone recognition across a full line of hearing aids.

RESEARCHING THE FUTURE

At the Starkey Hearing Research Center in Berkeley, CA, our researchers explore the medical and technological breakthroughs of the future. Research conducted at

the Center is focused on two primary tracks: Auditory Perceptual Science (how the auditory system perceives sound) & Signal Processing Technology (how hearing aids can modify sound to enhance auditory perception). Working with leading researchers and universities around the world, Starkey continues to seek ways to better understand the science of hearing loss.

PATIENT PROVEN

At Starkey, our renowned evidence based philosophy ensures that product changes will always be based in solid research and patient needs. By incorporating both internal and peer-reviewed research into the development process we ensure that patient benefit drives every design. You won't see extraneous features or updates just for technology's sake. If it doesn't improve the hearing lives of your patients, or improve the fitting process for professionals, we don't do it.

ALWAYS WILLING TO BACK IT UP

We are committed to benchmarking all claims and product research. As the industry leader, we thoroughly test our products internally and then against other hearing aids. If we make a claim, we'll back it up and make our findings public.



A Carefree Way To Connect To Your World

GLOBAL IMPACT

Starkey is an international hearing technology company. We employ more than 3,500 people, operate 21 facilities and conduct business in more than 100 markets worldwide. This uniquely positions us to deliver hearing aids to countries around the globe.

FOUNDATION EXPANDS STARKEY'S MISSION

Bill Austin built Starkey Hearing Foundation on the mission, So the World May Hear. The Foundation uses hearing as a vehicle to reflect caring and help people reach their full potential. Starkey Hearing Foundation fits more than 100,000 hearing aids to children and adults annually in the U.S. and around the world, and has committed to giving more than one million hearing aids to people in need over the next decade.

MISSIONS ALL OVER THE WORLD, ALL YEAR LONG

There's nothing like the tears streaming down a mother's face as her son is finally able to hear her say, "I love you," or a young girl's laughter when the world of sound opens to her. Hearing loss affects more than 63 million children worldwide, yet many do not have access to the hearing care that can help them. That is why Bill Austin and the Starkey Hearing Foundation team work tirelessly to give the gift of hearing and develop sustainable systems of care globally, having worked in more than 100 countries.

PHOTOS TAKEN FROM STARKEY HEARING
FOUNDATION MISSION IN THE WEST BANK 2014



STARKEY HEARING ALLIANCE

YOUR SUCCESS IS OUR GOAL

Being a small business owner in today's world can be tough — unless you're a Starkey Hearing Alliance member. That's because Starkey Hearing Alliance members are part of an exclusive group. A group forged from the best in our business.

One future, One Goal, One Alliance

Become a Starkey Hearing Alliance member, and you too can have access to the hearing industry's smartest people, programs and solutions:

- Get patients to your practice
- Grow your business
- Build wealth
- Become better every day



Hearing Is Our Concern™

Its all about
POWER



Oticon
BrainHearing™
Technology

139 dB SPL/78 dB

Highest output ever from a BTE 13



Speech Rescue™

Innovative access to the inaudible frequencies



Speech Rescue™ and Speech Guard E

More speech details than ever before



Inium Sense feedback shield^{SP}

Effective feedback control



YouMatic for Super Power

Personalization to meet individual preferences



Bimodal fitting protocol

Fitting flow for bimodal balance

= Oticon
Dynamo

