The open sound paradigm is expanding, and Oticon Opn is opening up a world of sound for even more users, including those with more severe hearing loss.

Two new Oticon Opn styles - the small, unique miniRITE-T and the powerful BTE13 PP - give people with mild to severe-to-profound hearing loss access to Oticon Opn’s revolutionary open sound experience.

The success of Oticon Opn is built on the groundbreaking BrainHearing™ benefits including less listening effort, capacity to remember more and better speech understanding. All are enabled by the industry-leading, ultra-fast and precise Velox™ platform. Now, we are introducing an array of attractive new features built on this platform.

Tinnitus SoundSupport™ and Speech Rescue™ LX are now available in every Oticon Opn style and performance level.

New enhanced Feedback shield LX provides you with more tools to manage feedback, and new listening programs will support a variety of challenging listening situations.

The expanded Oticon Opn portfolio also gives you the option to fit clients using the DSL v5.0 rationale. You can now fit young adults with an Oticon Opn solution that offers the benefits of both great audiology and a large number of connectivity solutions. With TwinLink™, you can help young adults to stream directly from their iPhone® and stay connected to the internet.

The Oticon Firmware Updater provides you with a unique opportunity to add these new, high quality features to the Oticon Opn devices of clients who are already enjoying the open sound experience.

With more styles and exciting new features, Oticon Opn expands your ability to open up a world of sound for your clients. There are more reasons than ever to choose Oticon Opn!
The highlights of Oticon Opn

• Extremely fast and precise technology provides users with more accurate information about their 360º soundscape, even in difficult listening environments. This open sound experience gives access to multiple speakers and allows the user to decide what to focus on.

• Two groundbreaking features - OpenSound Navigator™ and Spatial Sound™ Lx - work together to deliver the open sound experience.

• This new open sound paradigm is enabled by the groundbreaking Velox platform. With 50 times faster* sound processing and market-leading 64 frequency channel resolution, the tiny chip is a technological powerhouse.

• 20/20/20 – BrainHearing benefits in noisy environments make it easier on the brain. 20% less listening effort, 20% more capacity to remember, 30% better speech understanding.**

• Now proven - Even in easy listening situations, Oticon Opn can reduce noise to significantly decrease listening effort. This is possible because of the speed and precision of the OpenSound Navigator.***

• TwinLink™ wireless technology delivers the best possible audio- logical performance and 2.4 GHz wireless connectivity for the highest sound quality and very low power consumption.

• World’s first Internet-connected hearing aid connects directly to the internet via the IFTTT network, giving users the ability to connect to a wide range of Bluetooth™ and “smart home” devices that make everyday life easier.

• Oticon Opn captures two CES 2017 awards • Tech for a Better World • Wearable Technologies

*Compared to Inium Sense.
**Le Goff et al. 2016.

Rather than just hearing what’s right in front, I can now hear everything going on around me.”

These testimonials represent the opinion of the concerned individual only and may not be representative of the experience of others. The testimonials are not paid and may not be indicative of the future performance or success of any other individual.
The overwhelming response to the global launch of Oticon Opn from both users and hearing care professionals is unprecedented.

Now, the Oticon Opn portfolio expands with more styles and new features in three performance levels to cover hearing losses from mild to severe-to-profound.

**Speech Rescue LX:**
Access to inaudible high frequency sounds
Delivers high frequency audibility when traditional methods have not succeeded.
Available in all Oticon Opn styles, Speech Rescue LX improves speech intelligibility when severe-to-profound hearing loss is present in the high frequencies.
Speech Rescue LX is also suitable for clients with asymmetric, progressive and unilateral hearing loss.

**LED Indicator:**
Status monitor for caregivers
Helps users and caregivers, parents and teachers operate the hearing aid and obtain indications on relevant functions and modes. Intuitive, two-colour LED provides valuable information for caregiver and is configurable for personal preferences.

**Tinnitus SoundSupport:**
Relief sounds for tinnitus clients
Provides a range of tinnitus relief sounds that may help decrease the annoyance of tinnitus. The relief sounds can be customized to each client’s needs and preferences. The integrated sound generator is available in all Oticon Opn styles and performance levels.

**miniRITE-T:**
Sleek and discreet
Features a telecoil and double push button for easy volume and program control. The fully featured solution includes: Tinnitus SoundSupport, Speech Rescue LX, DSL, and TwinLink for 2.4 GHz wireless technology and Made for iPhone® functionality.

**DSL vs. 0:**
Fit young adults with assurance
Supports best practice guidelines to enable listening in complex listening environments that are common in a teenager’s life. Opens up a world of sound and opportunity in increasingly connected school settings with direct streaming from iPad®, iPhone, and IFTTT applications.

**BTE13 PP:**
Powerful and compact
With an output of 138 dB SPL benefits clients with severe-to-profound hearing loss. A tactile double push button lets users easily control volume and programs and the LED indicator monitors hearing aid status. Includes DSL, Speech Rescue LX and TwinLink for 2.4 GHz wireless technology and Made for iPhone® functionality.

**Feedback shield LX:**
Fast and effective feedback management
Instantly suppresses feedback to protect the listener from unwanted whistling and squealing, without compromising audibility or sound quality. The system can be set to individual needs to optimise sound quality and feedback performance. The system operates in two separate paths - one for each microphone - to improve efficiency and accuracy.

**Listening programs:**
For enhanced listening
Optimises listening in difficult situations when the user may want programs in addition to the general program, such as when enjoying music or listening in an auditorium with a loop system. Programs include Speech in Noise, Music, Comfort, Lecture and a range of T-coil programs.

**NEW**
What’s new
Introducing the Velox™ platform

The best in resolution and speed

The groundbreaking Velox platform enables a paradigm shift.

Eleven-core processor, 8 cores for processing sound signals and 3 cores for managing wireless communication, give the instrument extremely fast processing capabilities. The high speed Network on Chip (NoC) architecture with finer engraving (65 nM) in 9 layers delivers impressive performance with the capacity to execute 500 million instructions per second (MIPS) and 1,200 million operations per second (MOPS). It all runs at a maximum of 3.3 mA, when all processes and streaming capabilities are in use. With the Velox platform, a tiny instrument powered by a 1.4V battery can deliver 50 times more processing power than the previous generation.

The digital signal processing uses 24 bit block-floating point representation across 64 frequency channels for higher signal and frequency resolution, fundamental to providing superior sound fidelity.

The Velox platform offers extended linear processing of sounds levels to an upper input limit of 113 dB SPL thanks to 24 bit A/D converters on each microphone and the auxiliary input. Fully programmable with updatable firmware, the Velox platform is ready for the future.

TwinLink™

Wireless connectivity and binaural processing in a small, energy-efficient solution

New TwinLink technology uses two dedicated radio systems to meet distinct communication needs.

TwinLink technology supports seamless, energy-efficient communication between two hearing aids and streamer free connectivity with external electronic and digital devices.

Near-Field Magnetic Induction (NFM) enables a continuous exchange of data and audio between two hearing aids to provide advanced binaural processing. This communication is done at minimal power consumption. With new NFM, data and audio information is exchanged 21 times per second between the two hearing aids, 4 times more compared to previous generations.

Stereo Bluetooth low energy (BLE) 2.4 GHz connects Oticon Opn directly to smartphones and other digital devices for easy, seamless wireless connectivity. This technology also allows for true wireless fitting.

Analysing more than 100 times/second

High resolution

24 bit DSP

64 frequency channels

Ultra-fast processing

1,200 MIPS

11 DSP Cores

High processing power

113 dB SPL upper limit input range

DID YOU KNOW?

The chipset in Velox includes 76 metres of wiring and 64 million transistors.

DID YOU KNOW?

NFMI travels easily around the human body and the head, while 2.4 GHz travels well through air and holds its strength over longer distances.

On Velox, wireless connectivity is fully integrated into the chip for lower power consumption, smaller size and better performance.
OpenSound Navigator™

Less effort. Remember more. Better hearing!

OpenSound Navigator is sound processing that reduces noise while preserving distinct speech from all directions. This is enabled by the new revolutionary Multiple Speaker Access Technology (MSAT), which ensures access to all speakers in a dynamic environment.

OpenSound Navigator employs an extremely fast three-step process;

• Scans the full 360º sound environment more than 100 times per second to identify noise and separate it from speech.
• Rapidly reduces the levels of loud noise coming from specific directions, while preserving speech.
• Rapidly attenuates remaining diffuse noise, even between individual words.

OpenSound Navigator ensures a full, more balanced soundscape and lets users enjoy improved speech understanding even in complex and dynamic environments, while at the same time preserving mental energy.

OpenSound Navigator is personalised in Genie 2 and can be further fine-tuned in YouMatic LX controls.

Spatial Sound™ LX

Locate, follow and shift focus to the speakers you want to hear

Spatial Sound LX combines a number of advanced technologies to provide a more precise spatial awareness to help users identify where sound is coming from.

Using the energy efficient and fast binaural communication offered by NFMI, Spatial Sound LX preserves interaural level differences in four frequency bands. This maintains the sense of location and direction naturally provided by the head shadow effect.

The multi-band analysis prevents low frequencies from masking higher frequencies. This ensures that interaural differences are preserved over the entire frequency spectrum.

As part of Spatial Sound LX, Spatial Noise Management emphasises sounds on the better ear in asymmetrical noise situations.

DID YOU KNOW?

Interaural level differences (ILD) are important factors to make speech and noise appear distinctly and separately (and not muddled together) and help improve speech understanding in noise.

Four estimators enable precise, frequency-specific ILDs which remain intact across the frequency spectrum. This is important because the head shadow effect is greater at high frequencies.
YouMatic™ LX

Tailors OpenSound Navigator to individual needs and preferences

YouMatic LX is the personalisation feature in Oticon Opn that intelligently controls the level of performance and response of the OpenSound Navigator across listening environments.

YouMatic LX ensures that the OpenSound Navigator delivers the optimised open sound experience to individual users, and at the same time, provides the best possible speech understanding in difficult, noisy situations.

YouMatic LX is automatically configured during the fitting process based on the users’ personal sound and listening preferences.

YouMatic LX control is an integral part of the OpenSound Navigator screen in Genie 2 and enables you to fine-tune the OpenSound Navigator response to serve individual needs.

Speech Guard™ LX

Improves speech understanding in noisy environments

Speech Guard LX preserves clear, transparent sound quality and speech details for better speech understanding with less effort even in complex environments.

Speech Guard LX uses adaptive compression and is the only amplification technology that combines the benefit of linear amplification and fast compression. Linear amplification is applied in a 12dB dynamic range window to preserve amplitude modulation cues in speech signals.

When large changes in level occur, Speech Guard LX quickly adapts gain to maintain audibility and fits all sound in the reduced dynamic range of hearing-impaired listeners.

Speech Guard LX takes advantage of the new extended dynamic input range provided by Clear Dynamics to preserve the clear, transparent quality of loud sounds.

TELL YOUR CLIENT

Speech Guard LX improves speech understanding in noise and makes it easier for you to follow conversations in many situations – from soft to loud environments and even with multiple speakers.

DID YOU KNOW?
The benefits of the adaptive compression in Speech Guard LX have been documented in a number of studies. Amongst these, a study by Pitman et al. (2014) where Speech Guard LX proved superior to fast and slow compression strategies.
Soft Speech Booster LX

Improves soft speech understanding up to 20%

Soft Speech Booster LX makes soft sounds audible to people with hearing loss. By increasing access to the soft sounds that occur in most situations and conversations, Soft Speech Booster LX improves soft speech understanding by up to 20%.

Oticon’s proprietary fitting rationale, VAC+, uses multiple kneepoints to provide a clear focus on soft to moderate speech information while preserving comfortable perception of louder sounds.

Soft Speech Booster LX can be personalised using questions and sound files in Genie 2 to ensure a fitting matched to each user’s unique perception of soft sound for the best possible balance between details and comfort.

Speech Rescue™ LX

Making high frequency sounds more audible

Missing high frequency sounds such as /s/ or /sh/ can negatively impact the flow and understanding of conversation. Oticon’s methodology of frequency lowering called frequency composition increases speech understanding by ‘rescuing’ speech cues that might otherwise be lost.

OpenSound Navigator’s precise ability to improve SNR makes Speech Rescue LX more effective in two ways. High-frequency noise is reduced to clean the inaudible high-frequency speech, which is then copied into noise-cleaned medium frequencies.

Combined with Speech Guard LX, this gives users with moderate to severe-to-profound hearing loss (in the high frequencies) access to inaudible high frequency sounds. The three step ‘copy and keep’ methodology copies inaudible high frequency sounds, places them on the edge of the client’s maximum audible output frequency (MAOF) and ensures that the low frequencies are preserved so that vowel information and sound quality are maintained.

Speech Rescue™ LX

Increases speech understanding by letting you hear more speech sounds like /s/ and /sh/.

DID YOU KNOW?
Speech Rescue LX uses a multilayered lowering technique. The inaudible HF source sounds are copied and placed on the border of the client’s usable hearing. The destination is never below 6500 Hz, as a primary aim of Speech Rescue is to protect the information carried by low frequencies as well as providing high frequency audibility.

DID YOU KNOW?
More than 75% of normal speech has soft sounds.

Oticon has developed an app that shows just how much soft speech information is present in normal speech. Find the Soft Speech Booster app in the App Store.

Tell your client

Increases access to soft sounds so that you can enjoy up to 20% improved soft speech understanding without turning up the volume.

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**Clear Dynamics**

Better sound quality in the full dynamic range of life

Clear Dynamics expands the input dynamic range, processing input sounds up to 113 dB SPL, to provide better sound quality without distortion and artefacts at loud input levels, while still keeping the sound quality of soft input levels intact. Clear Dynamics has an operating range from 5 to 113 dB SPL.

With speech cues preserved at high input levels, users enjoy a better listening experience without distortion even in loud environments. Clear Dynamics is especially valuable for users when listening to music or in conversations in busy, dynamic environments, where peaks can often be louder than the available input dynamic range.

**Wind Noise Management**

Better access to speech in situations with wind noise

With the powerful Velox platform, Wind Noise Management offers innovative and highly efficient wind noise suppression. High-speed estimators analyse the presence of wind noise 500 times per second in 16 frequency channels for fast and precise application of up to 30 dB wind noise reduction. Wind Noise Management attenuates wind bursts in less than 50 ms, making it fast enough to precisely attenuate wind between words.

The purpose of Wind Noise Management is to attenuate the wind noise and quickly ensure a stable and comfortable loudness level for the hearing aid user, so they can focus on the speech that’s important to them.

When speech is present, the signal-to-noise ratio is preserved because wind noise is suppressed when it is louder than speech. When no speech is present, the system will aggressively suppress wind noise to ensure comfort in windy situations.

**DID YOU KNOW?**

Peaks of speech are usually around 12 dB above and 18 dB below the average speech level. In contrast, music is much more dynamic with peaks of up to 30 dB.

Total Harmonic Distortion (THD) is a measure of the distortion within the hearing aid. Clear Dynamics ensures less than 5% distortion up to 113 dB SPL.

**Wind Noise Management off**

**Wind Noise Management on**
Tell Your Client

Enjoy clearer sound without worrying about annoying whistling or squealing, even in feedback-prone everyday situations like greeting someone with a hug.

**DID YOU KNOW?**

There are two types of feedback. Audible feedback materialises as a whistling sound, while inaudible feedback manifests itself as poor sound quality and occurs when the hearing aid is operating close to the feedback margin.

Feedback shield LX prevents both audible and inaudible feedback.

**Feedback shield LX**

Dual-microphone feedback system eliminates feedback rapidly and effectively.

Feedback is uncomfortable and annoying. With Feedback shield LX, Oticon Opn delivers ultra-fast and effective feedback management without compromising audibility or sound quality. To improve efficiency and accuracy, Feedback shield LX operates in two separate paths - one for each microphone. In each path, three distinct technologies work together to instantly suppress potential feedback. Frequency shift optimises phase inversion, and gain control may be applied if needed.

With Feedback shield LX, more gain can be added before any intervention is necessary. This gives you greater flexibility in the fitting process.

**Tinnitus SoundSupport™**

A variety of relief sounds to meet the unique needs of each person with tinnitus.

You can enable Tinnitus SoundSupport in all Oticon Opn styles and performance levels. The integrated sound generator offers a wide range of sound options including broadband sounds (shaped to audiogram, white, pink & red) and three ocean-like sounds. These nature sounds are dynamic, yet soothing, and show great promise in decreasing the annoyance of tinnitus.

No brain works the same and some clients require sounds that are more dynamic or have a unique quality. Tinnitus SoundSupport aims to make fitting as simple and quick as possible while giving clients a fully personalised treatment. You can apply four modulation options to any of the broadband sounds to create more possibilities for relief sounds that meet clients' individual needs and preferences.

Clients can adjust the volume level of relief sounds directly on the hearing aid or via the Oticon ON App. For the client it means easy and discreet handling and adjustment of relief sounds whenever needed.

Tell Your Client

Tinnitus SoundSupport and OpenSound Navigator give you the combined benefit of a balanced and rich sound experience that doesn’t overload the brain and a powerful solution for tinnitus relief. The goal is to affect your perception of your tinnitus in a positive way.

**Tinnitus Treatment for Professionals**

Clinician support

ON App

Counselling tools

Easy fitting

OpenSound Navigator™

Tinnitus SoundSupport™

No tinnitus treatment package is complete without appropriate client counselling and education. Oticon offers a comprehensive toolbox as part of our tinnitus treatment solution to help you guide your clients through their journey towards tinnitus relief.
Feature overview

**Acoustic Notifications**
Provides notifications and warnings to assist and support confidence in daily use, e.g., start-up jingle, low battery warnings, etc.

**Automatic Adaptation Manager**
Adapts in 3 steps for gradual user acclimatisation to a new hearing aid.

**App & Remote Control**
Discretely adjusts volume, switches between programs or controls connectivity sources with Remote Control or the Oticon ON App.

**Bass Boost**
Controls compensation for bass leakage in open fittings when streaming audio.

**Binaural Coordination**
Coordinates program and volume settings between the two hearing aids.

**Binaural Processing**
Continuous data exchange between two hearing aids about the sound level in each ear to maintain the difference in input between the ears.

**Clear Dynamics**
Expands the dynamic input range, processing sounds up to 113dB SPL, to preserve sound quality even at loud input levels.

**Data Logging**
Logs volume control usage, program usage and total use time.

**Feedback Analyser**
Analyses the risk of feedback with the prescribed gain and chosen acoustics in Genie 2.

**Feedback shield LX**
Employs an ultra-fast and effective feedback management system that prevents feedback without compromising sound quality or audibility.

**Fitting Bands**
16 fitting bands for a precise fit and more fine-tuning options for client fittings.

**Fitting Formulas**
Include VAC+, NAL-NL1, NAL-NL2, and DSL v5.0.

**Listening Programs**
Supports listening in difficult situations when the client may want extra support from e.g. a loop system.

**Made for iPhone®**
Indicates compatibility. 'Made for iPhone' means that the hearing aid and accessories have been designed to connect to iPhone, and have been certified by the developer to meet Apple™ performance standards.

**Multiple Directionality Options**
Enables conventional directionality settings in addition to OpenSound Navigator transition settings.

**NFMI**
Near-Field Magnetic Induction – Improves speed of communication and bandwidth between two hearing aids with very low power consumption.

**OpenSound Navigator**
Provides listening support by continuously analyzing the environment, balancing sound sources so focus sound is clear and competing sounds are not too disturbing. It attenuates remaining noise to provide a more accessible sound environment.

**Oticon Firmware Updater**
Enables you to update Value-based hearing aids and connectivity solutions, adding new and improved features with just one click.

**Phone Program**
Optimises hearing aid for telephone conversations using the hearing aid microphone and/or telecoil.

**Processing Channels**
Data is analysed and processed in 64 channels, more than 100 times per second.

**REM AutoFit**
Enables you to personalise fittings to individual ear acoustics.

**Soft Speech Booster LX**
Applies an individual amount of soft gain to increase soft speech understanding.

**Spatial Noise Management**
Optimises listening in asymmetrical, noisy situations.

**Sound Studio**
Offers a large selection of soundscapes to simulate different listening environments in the process of providing a better first fit.

**Speech Guard LX**
Preserves the dynamics of speech by combining the benefits of linear and non-linear compression.

**Speech Rescue LX**
Makes high frequency speech sounds like /s/ and /sh/ more audible using frequency composition.

**Stereo Streaming**
Streams audio input in stereo.

**Tinnitus SoundSupport**
Provides a variety of relief sounds, including soothing ocean sounds, to meet the individual needs of people with tinnitus.

**Transient Noise Management**
Protects against sudden loud sounds with fast recovery to preserve audibility. Offers four different levels for fine tuning, including 'off'.

**TwinLink**
Combines two distinct radio technologies in an innovative wireless communication system. Features one technology to support seamless, energy-efficient binaural communication between two hearing aids (NFMI) and one to support communication with external electronic and digital devices (2.4 GHz).

**Wind Noise Management**
Protects against the discomfort of wind noise.

**YouMatic LX**
Accommodates personal listening preferences and sound perceptions in the prescription of gain and automatics.
The auditory difference between Oticon Opn 1, Opn 2 and Opn 3

Hearing loss limits the amount of acoustic detail the brain receives. The fewer details the harder the brain has to work to decode sound. Oticon Opn 1, Opn 2 and Opn 3 all provide access to a 360° listening environment, but they differ in the way they support and help the brain make sense of sound.

Three Opn features are key in supporting the brain in making sense of sound:

- **OpenSound Navigator** opens the sound by preserving distinct speech and removing the noise that makes speech unclear. The level of noise that can be removed in different listening environments ranging from 9 dB to 3 dB and results in different levels of BrainHearing support.

- **Spatial Sound LX** makes sure that important information about the location of sound is preserved. With 4 level estimators Oticon Opn 1 offers the best spatial information of the three performance levels.

- **Speech Guard LX** amplifies and preserves clean speech information and improves the ability of the brain to separate speech from noise. The difference between Opn 1, Opn 2 and Opn 3 lies in the input range combined with the linear window which ranges from 12 to 9 dB, resulting in different levels of speech cue preservation.

In addition, Oticon Opn also contains a number of other features that will also influence the support the brain receives in different listening situations e.g. Clear Dynamics, Spatial Noise Management, bandwidth, and number of processing channels.

Oticon Opn 1 provides the maximum support across different listening environments, client age and lifestyle.

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### Oticon Opn product comparison

<table>
<thead>
<tr>
<th>Feature / Category</th>
<th>Opn Opn 1</th>
<th>Opn Opn 2</th>
<th>Opn Opn 3</th>
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</thead>
<tbody>
<tr>
<td><strong>Speech Understanding</strong></td>
<td></td>
<td></td>
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<tr>
<td>OpenSound Navigator™ Balancing power effect</td>
<td>Level 1</td>
<td>Level 2</td>
<td>Level 2</td>
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<tr>
<td>Max. noise removal</td>
<td>9 dB</td>
<td>5 dB</td>
<td>3 dB</td>
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<tr>
<td>Spatial Sound™ LX</td>
<td>4 estimators</td>
<td>2 estimators</td>
<td>2 estimators</td>
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<td>Speech Guard™ LX</td>
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<td><strong>Speech Quality</strong></td>
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<tr>
<td>Clear Dynamics</td>
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<tr>
<td>Spatial Noise Management</td>
<td></td>
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<tr>
<td><strong>Fitting Bandwidth</strong></td>
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<td><strong>Processing Channels</strong></td>
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<td>48</td>
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<tr>
<td><strong>Bass Boost (streaming)</strong></td>
<td>5 dB</td>
<td>5 dB</td>
<td>5 dB</td>
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<td><strong>Automated Customization</strong></td>
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<td><strong>Personalization &amp; Optimising Fitting</strong></td>
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<td><strong>Fitting Bands</strong></td>
<td>16</td>
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<td><strong>Adaptation Management</strong></td>
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<td><strong>Fitting Formulas</strong></td>
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<td><strong>Connecting to the World</strong></td>
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<td>Stereo streaming (2.4 GHz)</td>
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<td>Made for iPhone®</td>
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<td>Oticon ON App</td>
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<td><strong>Special Needs</strong></td>
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<tr>
<td>Tinnitus SoundSupport™</td>
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</table>
**How the difference influences Oticon Opn’s ability to support the brain**

Brainhearing support is delivered by a unique combination of technologies working together to reduce listening effort and provide the brain with better conditions to perform in. All three members of the Opn family provide the unique open sound experience, with access to multiple speakers. However, they differ in the amount of support they give the brain in terms of rapid noise reduction, localisation of sounds, speech clarity, and the personalisation of the listening experience - i.e. they differ in the level of Brainhearing support they deliver.

<table>
<thead>
<tr>
<th>Product</th>
<th>Brainhearing support</th>
<th>Open access to all speakers</th>
<th>Rapid noise reduction</th>
<th>Localisation of sounds</th>
<th>Speech clarity</th>
<th>A personalised listening experience</th>
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<td>Oticon Opn 1</td>
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<tr>
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**Supporting features:**

- OpenSound Navigator
- Spatial Sound LX
- Frequency bands
- Speech Guard LX
- Spatial Sound LX
- Clear Dynamics
- Bandwidth
- OpenSound Navigator
- Speech Guard LX
- Clear Dynamics
- Bandwidth
- Frequency bands
- Fitting bands
- YouMatic LX
- Soft Speech Booster LX

1. **Open access to all speakers**

   The open sound experience is built on the foundation of ensuring open access to multiple speakers, even in noisy environments.

2. **Rapid noise reduction**

   Intruding noise puts extra load on the brain, so a rapid and precise reduction of noise coming from specific directions, as well as diffuse background noise, is essential to make distinct speech stand out.

3. **Localisation of sounds**

   With the open sound experience bringing access to all sounds, it’s important that users receive precise sound localisation information, so they can decide where to focus.

4. **Speech clarity**

   To ensure maximal speech understanding with less effort, and a richer listening experience, all speech sources in any location are enhanced and clarified.

5. **A personalised listening experience**

   The performance of Oticon Opn is optimised by making adjustments based on individual needs and personal preferences.
By supporting the brain, Oticon Opn significantly reduces listening effort...

In difficult listening environments, the limitations of traditional hearing aid technology has led to the use of narrow directivity to make speech coming from the front clear. All other sounds — speech and noise alike — are reduced, leaving the user with a narrowed, artificial listening experience. But with the speed and precision of Multiple Speaker Access Technology (MSAT), the OpenSound Navigator can reduce noise enough to significantly reduce listening effort,* while at the same time delivering an open sound experience.

Traditional directionality — focusing on one speaker, while suppressing all other sounds.

The easiest listening experience with maximum reduction of background noise and minimal reduction of loud noise coming from specific directions while preserving speech.

An easier listening experience with moderate reduction of background noise, and reduction of loud noise coming from specific directions while preserving speech.

An improved listening experience with basic reduction of background noise, and reduction of loud noise coming from specific directions while preserving speech.

MSAT in:

- Oticon Opn 1
- Oticon Opn 2
- Oticon Opn 3

Background noise from all directions
Noise between speakers from specific directions
Distinct speech

Traditional technology

** Only Oticon Opn 1 has the full effect of OpenSound Navigator™.

With hearing loss, the brain must work harder to make sense of sound. Using pupillometry as the objective measure for listening effort, new research shows a significant increase in the load on the brain for people with hearing loss, even in easy communication conditions where noise is quieter than speech, and speech understanding is high.

Oticon Opn is now proven to reduce noise to significantly decrease listening effort, even in these easy listening situations. In doing so, Opn significantly narrows the gap in listening effort between people with normal hearing and people with hearing loss. Oticon Opn 1 provides the most support across different listening environments.**

... in both simple and complex environments

![Graph showing reduction of listening effort with OpenSound Navigator](image)

Listening effort, as indicated by Peak Pupil Dilation (mm)

**Hearing impaired**
**Normal hearing**

*Reduction of listening effort with OpenSound Navigator*
Small, discreet miniRITE

Oticon Opn miniRITE has a discreet design with a smart single push button for easy operation of volume and programs.

Oticon Opn miniRITE offers clients a discreet hearing aid with a wealth of features and functionalities incl. 2.4 GHz wireless technology.

miniFit receivers

Select between three different receivers, miniFit receivers are available with length 0-5.

Power flex moulds

Select between two Power flex moulds. Power flex have separate wires, available in length 1-5.

IP68 – water and dust resistant

- Made for iPhone functionality, and Tinnitus SoundSupport.

Closed-coupler moulds

- 57 dB
- 105 dB SPL

Ear simulator 66 dB

Ear simulator 132 dB SPL

* Fitting range is based on Oticon Opn 1. Details for Oticon Opn 2 & Oticon Opn 3 are available in Technical data sheets.

Accessories for miniFit receivers:

- Different ear grips for receiver
- Use ProWax miniFit filter
- Measuring tool

Accessories for Power flex moulds:

- Use ProWax filter
- Measuring tool

Standard earpieces

All domes:
- Are made of silicone
- Are only compatible with miniFit receivers
- Have built-in wax protection

Grip Tip:

- In honey yellow
- More durable than domes
- Has a tacky texture to help prevent slippage

Customised earpieces

- Micro mould®
- Micro mould® VarioTherm®
- MiniFit mould with a VarioTherm®

Please note:

- VarioTherm® requires gentle warming of the mould
- VarioTherm® is only compatible with miniFit receivers
- VarioTherm® is tinted pink

Micro mould®

- Are made of acrylic
- Use ProWax filter
- Use ProWax miniFit filter

Micro mould® VarioTherm®

- Are thermoplastic
- Remains firm at room temperature for easy insertion
- Softens at body temperature for increased comfort and optimum sealing
- Available in two hardnesses: 50 and 65

Please note:

- VarioTherm® requires gentle warming of the mould
- VarioTherm® is only compatible with miniFit receivers
- VarioTherm® is tinted pink

Grip Tip:

- In honey yellow
- More durable than domes
- Has a tacky texture to help prevent slippage

Made for iPhone functionality, and Tinnitus SoundSupport.

Accessories for Power flex moulds:

- Different ear grips for receiver
- Use ProWax filter
- Measuring tool

Accessories for miniFit receivers:

- Different ear grips for receiver
- Use ProWax miniFit filter
- Measuring tool

Customised earpieces

- Micro mould®
- Micro mould® VarioTherm®
- MiniFit mould with a VarioTherm®

Please note:

- VarioTherm® requires gentle warming of the mould
- VarioTherm® is only compatible with miniFit receivers
- VarioTherm® is tinted pink

Grip Tip:

- In honey yellow
- More durable than domes
- Has a tacky texture to help prevent slippage

Micro mould®

- Are made of acrylic
- Use ProWax filter
- Use ProWax miniFit filter

Micro mould® VarioTherm®

- Are thermoplastic
- Remains firm at room temperature for easy insertion
- Softens at body temperature for increased comfort and optimum sealing
- Available in two hardnesses: 50 and 65

Please note:

- VarioTherm® requires gentle warming of the mould
- VarioTherm® is only compatible with miniFit receivers
- VarioTherm® is tinted pink
**Oticon Opn fitting range**

Oticon Opn miniRITE-T is a discreet new style, based on the popular miniRITE, and features telecoil and a convenient double push button for easy volume and program control.

With miniRITE-T clients with hearing loss up to 105 dB HL can choose a discreet hearing aids with a full set of features and functionalities, including 2.4 GHz wireless technology, Made for iPhone functionality, and Trinitus SoundSupport.

The new miniRITE-T uses the proven miniFit receivers and earpieces and is powered by a 312 battery.

**miniFit receivers**

Select between three different receivers, miniFit receivers are available with length 0-5.

**Power flex moulds**

Select between two Power flex Moulds. Power flex have separate wires, available in length 1-5.

**All vital components are nano-coated inside and out.**

Oticon Opn is robust and reliable, and has a certified rating of IP68 for dust and water resistance.

**NEW Accessories for Power flex moulds:**

- Measuring tool
- Use ProWax miniFit filter

**Full-on gain (peak)**

Ear simulator

<table>
<thead>
<tr>
<th>100 dB HL</th>
<th>70 dB HL</th>
<th>40 dB HL</th>
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<tbody>
<tr>
<td>136 dB SPL</td>
<td>106 dB SPL</td>
<td>76 dB SPL</td>
</tr>
</tbody>
</table>

**Power flex moulds**

Select between two Power flex Moulds. Power flex have separate wires, available in length 1-5.

**Accessories for Power flex moulds:**

- Use ProWax filter
- Measuring tool

**IPEX: water and dust resistant**

Oticon Opn is robust and reliable, and has a certified rating of IP68 for dust and water resistance. All vital components are nano-coated inside and out.

**Standard earpieces**

Select between two different Grip Tip types. In two different sizes (small & large) for both left and right ear:

- **Grip Tip:**
  - In heterotip: sink
  - More durable than domes
  - Has a tacky texture to help prevent slippage

**Customised earpieces**

Select between two different Grip Tip types. In two different sizes (small & large) for both left and right ear:

- **Grip Tip:**
  - In heterotip: sink
  - More durable than domes
  - Has a tacky texture to help prevent slippage

Please note:

- VariTherm® requires gentle warming of the mould with a hair dryer before insertion or removal of the receiver.

**Micro mould**

- Are made of acrylic
- Use ProWax filter

**LineTip®**

- Are thermoplastic
- Remains hard at all temperatures for easy insertion
- Softens at body temperature for increased comfort and optimum sealing
- Available in two hardnesses - 50 and 70. 70 is standard.

**Directional**

- Volume control
- TV Adapter 3.0
- MultiPhone 3.0
- Made for iPhone
- Made for Android

**Program control**

- AutoPhone
- Made for iPhone
- Diamond Black
- Silver Grey
- Chestnut Brown

**Volume control**

- TV Adapter 3.0
- TV Adapter 3.0
- AutoPhone
- Made for iPhone
- Diamond Black
- Silver Grey
- Chestnut Brown

**Battery size**

- Made for iPhone
- Directional
- Program control
- Volume control
- TV Adapter 3.0
- MultiPhone 3.0
- AutoPhone
- TV Adapter 3.0
- Made for Android
- Diamond Black
- Silver Grey
- Chestnut Brown

* Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (50% of the time) and voice activation of a virtual assistant (25% of the time). Interval is shown for typical clients. Details for other speakers can be found in the technical data sheets.
Powerful and compact BTE13 PP

Oticon Opn BTE13 PP features a new compact design with a tactile double push button for easy operation of volume and programs. BTE13 PP comes with telecoil and an optional discreet, two-colour LED indicator to monitor hearing aid status.

The compact and powerful hearing aid provides an MPO of 138 dB SPL and offers a full set of features and functionalities, including 2.4 GHz wireless technology, Made for iPhone functionality, and Tinnitus SoundSupport. Oticon Opn BTE13 PP supports fittings with either hook and Corda miniFit or is powered by a 13 battery.

**Hook and Corda miniFit options**

BTE13 PP is defaulted with an undamped hook for adults. This is interchangeable with a damped hook or child hooks (damped/undamped) or the more discreet Corda miniFit Power option. Corda miniFit Power (1.3 mm thin tube) is available in 6 different lengths (-1 to 4).

**Tamper resistant battery drawer**

The standard battery drawer can be replaced by a tamper resistant battery drawer available in all instrument colours.

**Accessories for Corda miniFit**

- Measuring tool

**Customised earpieces**

- Micro mould: Are made of acrylic
- Uses Problem filter
- VarioTherm®: Are thermoplastic
- Remains at room temperature for easy insertion
- Softens at body temperature for increased comfort and optimum sealing
- Available in two hardnesses – 50 and 70, 70 is standard.

**Please note:**

VarioTherm® requires gentle warming of the mould with a hair dryer before insertion or removal of the thin tube.

**Micro mould:**

- Are made of acrylic
- Uses Problem filter
- VarioTherm®:
  - Are thermoplastic
  - Remains at room temperature for easy insertion
  - Softens at body temperature for increased comfort and optimum sealing
  - Available in two hardnesses – 50 and 70, 70 is standard.

**IPEX - water and dust resistant**

Oticon Opn is robust and reliable, and has a certified rating of IP68 for dust and water resistance. All vital components are nano-coated inside and out.

**Corda miniFit earpieces**

**Standard earpieces**

- Bass dome, single vent (1.0 mm)
- Bass dome, double vent (1.4 mm)
- Power dome

**Grip Tip**

- Select two different Grip Tip types in two different sizes (small & large) for both left and right ear.

- Bass dome,
  - single vent (0.8 mm)
  - double vent (1.4 mm)

- Power dome

**Micro moulds**

- Are made of acrylic
- Uses Problem filter
- VarioTherm®:
  - Are thermoplastic
  - Remains at room temperature for easy insertion
  - Softens at body temperature for increased comfort and optimum sealing
  - Available in two hardnesses – 50 and 70, 70 is standard.

**Please note:**

VarioTherm® requires gentle warming of the mould with a hair dryer before insertion or removal of the thin tube.

**Customised earpieces**

- Micro mould: Are made of acrylic
- Uses Problem filter
- VarioTherm®:
  - Are thermoplastic
  - Remains at room temperature for easy insertion
  - Softens at body temperature for increased comfort and optimum sealing
  - Available in two hardnesses – 50 and 70, 70 is standard.

**IP6X - water and dust resistant**

Oticon Opn is robust and reliable, and has a certified rating of IP68 for dust and water resistance. All vital components are nano-coated inside and out.
Connectivity & Apps
**TELL YOUR CLIENT**

*Enjoy audio streamed directly from your iPhone®, iPad® and iPod touch® to your hearing aids.*

**TELL YOUR CLIENT**

*Connects your iPhone or Android™ smartphone directly to your hearing aids so you can control volume, switch programs, adjust settings and more with just a tap of your fingers.*

**DID YOU KNOW?**

*That Made for iPhone means that you have basic control over your hearing aids directly from your iPhone, such as volume control and battery status.*

Learn more at oticon.global

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**Made for iPhone**

Oticon Opn is a Made for iPhone hearing aid. Directly connected to iPhone, the hearing aid doubles as wireless headphones – without the need for an intermediary device. The Bluetooth technology in Oticon Opn supports stereo streaming of music and produces sound with high fidelity and bandwidth. When making calls, the user’s voice is picked up by iPhone microphone. iPhone also doubles as a basic remote control for the hearing aids.

**Learn more at oticon.global**

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**Oticon ON App**

The Oticon ON App makes it easy for Oticon Opn hearing aid users to have additional control of their hearing aids with just a touch of their fingertips. iPhone or the Android smartphone is connected directly to the hearing aids using Bluetooth 4.0/Bluetooth SMART.

The ON App allows users to adjust volume levels of both gain and tinnitus relief sounds, as well as switching between programs, settings and more. The app also offers a “find my hearing aid” search feature, a client information and education guide, links to hearing aid instructions and low battery notification.

Please note that direct audio streaming is currently not supported by Android.

**Remote Control 3.0**

The Remote Control, roughly the size of a modern car key, gives users discreet control over Oticon Opn hearing aids. Users can easily adjust volume, switch between programs or control connectivity sources. Simple and easy to use, the Remote Control is especially beneficial for users with dexterity challenges.

---

**TV Adapter 3.0**

TV Adapter 3.0 wirelessly transmits real-time stereo audio from a TV or home entertainment system directly to Oticon Opn hearing aids at a distance of up to 15 metres. Users can set the volume to their preferred level for a listening experience free from the distraction of surrounding noise. The TV Adapter is installed and placed at the TV. Practically any audio source can be connected to the TV Adapter including digital stereo (PCM) and Dolby Digital® (Optical Toslink input) (Fig. A).

As a unique feature the TV Adapter can be installed in most existing home entertainment systems (Fig. B).

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ConnectClip

ConnectClip is used with mobile phones and other audio devices not supporting direct wireless connectivity (or streaming) to the hearing aids (Fig. C). The hearing aids function as a wireless headset and the user’s conversation is picked up by the ConnectClip’s built-in directional microphones.

Audio from the mobile phone streams to ConnectClip using standard Bluetooth technology. The audio is then streamed directly to the user’s hearing aids using 2.4 GHz technology. ConnectClip works with almost any mobile phone produced since 2010.*

Phone Adapter

Phone Adapter 2.0 connects wirelessly to the ConnectClip—allowing for hassle-free daily use of traditional phones.

USB Adapter

The USB Adapter (BTD 800) is a “plug and play” solution which wirelessly connects the ConnectClip to practically any computer for Skype, Messenger, Lync, and other softphones.

*ConnectClip will be available during second half of 2017.

The world’s first Internet-connected hearing aid

Open up to a world of endless connectivity possibilities through a unique Oticon cloud solution. Oticon Opn can be linked to the If This Then That (IFTTT) network. This allows users to connect to and control an endless range of devices used in everyday life.

Imagine, for instance that hearing aids are able to notify users when an email is received, turn the home alarm system on and off or inform when someone is at the front door—all of this is possible with Oticon Opn.


Ideas for inspiration:

• Turn off lights when you leave home
• Get a voice alert when doorbell rings
• Send text when battery (own or next of kin) is low
• Switch to home program when entering front door

Connect to your home security system

Connect to electricity and thermostat controllers

Connect to smart devices

Connect to your car

Connect to your kitchen devices

Connect to your land line phone
Tinnitus SoundSupport for tinnitus relief
Tinnitus SoundSupport is now available in all Oticon Opn hearing aids. The integrated sound generator offers relief from tinnitus with customisable relief sounds that you can add to any conventional program in the hearing aid. Tinnitus SoundSupport is activated in Genie 2 and provides you with a range of four broadband sounds and three ocean-like sounds that can be individually adjusted and fine-tuned to suit each client’s individual needs and preferences. You can also adjust the relief sounds through Automatic Level Steering, hearing aid microphone on/off in tinnitus programs, frequency shaping, four modulation settings, and easy level adjustment.

Genie 2 now allows you to demonstrate all seven relief sounds in Sound Studio to help clients and their significant others better understand aspects of tinnitus treatment using sound therapy.

Prescribing Speech Rescue LX in Genie 2
Speech Rescue LX improves speech understanding for users with more severe, asymmetric, progressive and unilateral hearing loss by preserving high frequency cues that might otherwise be lost. Speech Rescue LX benefits clients when conventional forms of amplification have not produced audibility in the high frequencies.

The prescription of Speech Rescue LX is based on the Maximum Audible Output Frequency (MAOF). In Genie, the MAOF is combined with data extracted from the audiogram, the fitting rationale, the output of the hearing aid and the average spectrum for conversational speech to determine the Speech Rescue LX prescription. Speech Rescue LX is also suitable for clients with a moderate to severe-to-profound hearing loss whose MAOF is below 6 kHz.

Conveniently located in the Fitting section below the Feedback Analyser, Speech Rescue LX in the default setting is OFF for both adult and children. When you choose to enable Speech Rescue LX for a client, Genie automatically applies the default setting. Speech Rescue LX can be fine-tuned to each client’s needs and can be activated in all or specific programs. Fine-tunings are simulated within Genie so that you can visualise the changes as they are made.

Speech Rescue LX can be utilised in both bilateral and unilateral fittings and is prescribed separately for each ear.
With the DSL v5.0 fitting rationale now available for Oticon Opn, you can offer your teen clients the full benefit of the open sound experience with assurance that best practice guidelines are supported. Selecting DSL v5.0 within the Genie 2 Program Manager will help ensure maximal audibility and comfort for the young adults listening situations.

Combining DSL v5.0 with Oticon’s new open sound experience enables confident listening at school and in the complex listening environments that are common in a teen’s life. They will enjoy streaming directly from iPhone® and iPads®, and also benefit from access to the digital advantages of Oticon Opn internet connections via the IFTTT network.*

Listening programs
Listening programs can provide users with benefits in specific listening situations when the user wishes to have programs in addition to the general program, such as listening to speech in an auditorium or to a loop system. The listening programs allow you to maintain the overall sound characteristics of the general program in P1 while modifying it to provide more benefit in a given situation. The Program Manager in Genie 2 features a variety of listening programs including Speech in Noise, Music, Comfort, Lecture and a variety of Telecoil supporting programs.

Oticon Firmware Updater
A new firmware package with the newest features, including Speech Rescue LX and Tinnitus SoundSupport, is now available for the Oticon Firmware Updater in Genie 2. The newest firmware package enables you to continue to add improved and new features, as they become available to Oticon Opn hearing aids regardless of style or performance level.

When an Oticon Opn hearing aid is connected to Genie 2, you receive a notification that the new firmware package is available and instructions on how to update the hearing aid. Existing settings are removed during the update. When the update is complete, you can easily reload the original settings from Genie 2 to save time and ensure that the client’s personalised fitting and adjustments are preserved in the updated solution.

BE INFORMED
New hearing aids you receive may have a new FW version, that is not compatible with your old Genie 2 installation. Therefore you must always install the newest Genie 2 software, when you receive it from Oticon.

* This product is intended for the young adult. It is not intended for use in infants and young children. Oticon Opn fulfills the necessary criteria relating to paediatric candidacy, routing of signal, signalling processing and features, and hearing aid fitting and verification (AAA Guidelines 2013). The provision of the independent paediatric prescription rationale DSL v5.0 is a considered and deliberate inclusion. It enables the intended teen population access to a paediatric focused prescription method, which can be verified in situ or using simulated real ear responses (RECD using a 2cc coupler).
Creating an open sound experience

A simple two-step procedure creates an open sound experience. With the innovative OpenSound Navigator and YouMatic LX in Genie 2, you can easily build a personalized sound experience with access to all details in their environment and, at the same time, superior speech understanding.

Users are pro-actively engaged in the fitting process with questions and sound demos that make it easy for them to express what they like to hear without the need to describe their preferences.

Step 1

Establish your client’s listening preferences in the ‘Personalisation’ menu to take individual preferences into account when prescribing gain and automatics.

Genie 2 features a personalisation process that includes a few simple questions to better capture the variations in sound preferences. In addition to listening preferences, age, gender, hearing aid experience and sometimes language will influence the prescribed gain and automatics.

For best results, present the sound sample for each question while clients are wearing their hearing aids, through headphones, or via loudspeakers, depending on each client’s hearing loss and your clinical setup.

Once the personalisation has been completed, it will impact the prescription and settings for:
- OpenSound Navigator
- Soft sound perception trimmer
- Brightness trimmer
- Gain prescription

Each can be fine-tuned to more accurately meet client preferences in the Fitting step.

The personalisation screen should be revisited when experience level changes or greater audio-metric changes occur.

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Go to OpenSound Navigator to adjust further with YouMatic LX.

OpenSound – Transition: The control lets you choose how much help is needed in the stage between simple and complex environments. In other words, how early in this transition will your client want the hearing aid to help more? You can choose between a Low, Medium, and High amount of help. As an example, when choosing High, the hearing aid will step in more aggressively to reduce unwanted sounds, even if the environment is not yet complex. OpenSound Navigator transition choices are displayed visually on the Transition bar above the central panel and in the illustration with the head. Background sounds are reduced in size as more help is applied.

Noise reduction controls: Adjustments to noise reduction are divided into Noise Reduction Simple and Noise Reduction Complex. Default settings are based on the client’s answers to the questions in ‘Personalisation/Listening preference’ or will default to a Medium profile. Adjustments are made by clicking the +/- buttons. Noise reduction choices are displayed visually in the speech waveforms.

Noise reduction on/off: By default, noise reduction is on because it is an integral part of the open sound experience, but it can easily be deactivated if needed by unchecking the box on the lower-right.

Directionality setting: In addition to the three transition settings you have two conventional directionality settings available. See the transition settings overview below.

Step 2

Go to OpenSound Navigator to adjust further with YouMatic LX.

OpenSound – Transition: The control lets you choose how much help is needed in the stage between simple and complex environments. In other words, how early in this transition will your client want the hearing aid to help more? You can choose between a Low, Medium, and High amount of help. As an example, when choosing High, the hearing aid will step in more aggressively to reduce unwanted sounds, even if the environment is not yet complex. OpenSound Navigator transition choices are displayed visually on the Transition bar above the central panel and in the illustration with the head. Background sounds are reduced in size as more help is applied.

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OSN directionality settings. In Pinna Omni, the hearing aid mimics sound as received by the human ear. In Full Directional, the focus is on sounds coming from the front. In Open Automatics, the hearing aid automatically adapts to the acoustical conditions, based on one of the three help profiles, High, Medium, or Low.