

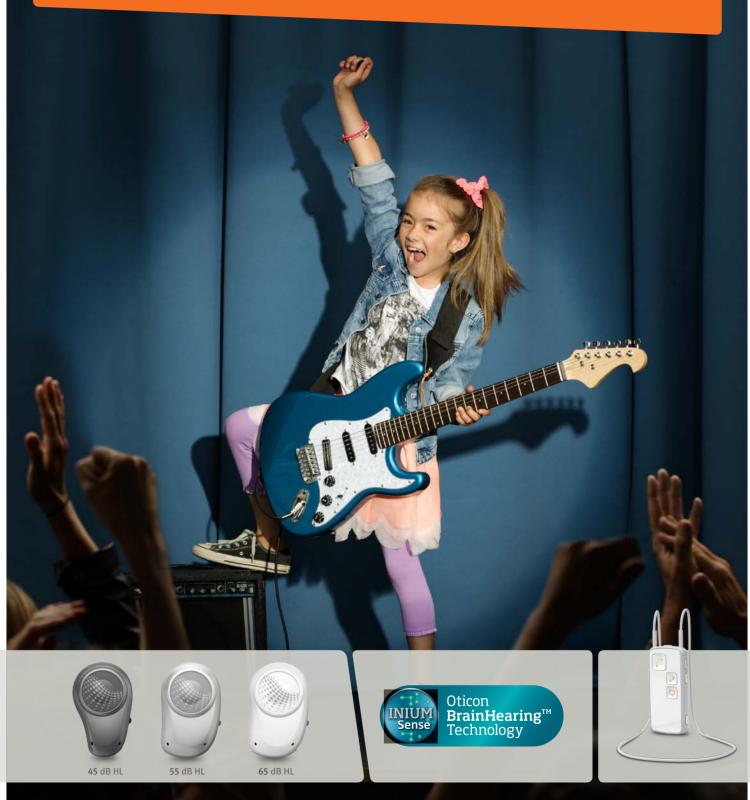
Because sound matters

Oticon Medical is a global company in implantable hearing solutions, dedicated to bringing the magical world of sound to people at every stage of life. As a member of one of the world's largest groups of hearing healthcare companies, we share a close link with Oticon and direct access to the latest advancements in hearing research and technologies. Our competencies span more than a century of innovations in sound processing and decades of pioneering experience in hearing implant technology.

By working collaboratively with patients, physicians and hearing care professionals, we ensure that every solution we create is designed with user needs in mind. We share an unwavering commitment to provide innovative solutions and support that enhance quality of life for people wherever life may take them. Because we know how much sound matters.

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BONE ANCHORED HEARING SYSTEM

Ponto 3 – The Definition of Power



Ponto 3 – The Definition of Power

Ponto 3 – The world's most powerful family of abutment-level processors



Ponto 3 45 dB HL Ponto 3 Power

SuperPower maximum output 135 dBµN Highest output ever from an abutment-level sound processor

> Bandwidth 260 – 9600 Hz The widest frequency bandwidth in the industry

FreeFocus optimised directionalityBetter speech understanding in everyday listening situations

Inium Sense feedback shield Managing power through effective feedback control

> DSL-BC fitting rationale Tailor-made for BAHS

Powerful sound quality

Ponto 3 has the highest ever output from an abutmentlevel processor, the industry's widest bandwidth and the Inium Sense platform for greater clarity and understanding. Power your Brain

The Ponto System supports the brain's cognitive processes by using Direct Sound Transmission and the Inium Sense platform. This helps the brain to decode the sound environment and focus on the important hearing details.

Power to

participate

Ponto 3 connects seamlessly to

a wide range of communication

and entertainment devices

processor power or sound

reliability in everyday life.

without compromising sound

quality. And its proven design offers functionality and

Better hearing begins here

Oticon Medical introduces BrainHearing™

BrainHearing™ is about a fundamental understanding of how hearing works – and how the brain makes sense of sound.



HIGHEST

EVER

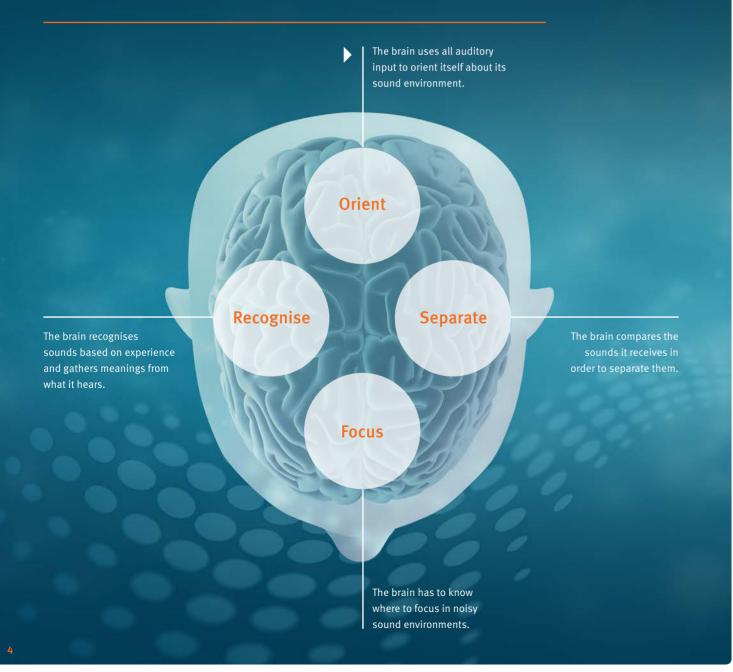
Ponto 3 SuperPower 65 dB HL

WIDEST



Power your **brain** The most important part of hearing

When we think about hearing, we automatically think about the ears, although in fact sound is heard and processed by the brain. Hearing loss puts extra strain on the brain, which then has to work harder to decode the sound signals it receives. That is why we provide audibility and signal processing that support the brain's cognitive processes. BrainHearing[™] is about making listening easy for every user - whether they are learning at school, attending a meeting at work or socialising with friends.



The prerequisite for BrainHearing™

Direct Sound Transmission and the Inium Sense platform are the unique enablers of BrainHearing[™] for Ponto and the prerequisites for delivering the **output, bandwidth and clarity** users need to experience **powerful sound quality.**

Direct Sound Transmission

Direct Sound Transmission systems such as the Ponto 3 abutment solution with a direct connection to the bone can provide an extra 10-20 dB of output in the mid to high frequency range.¹ This range

contains the most important sound information for speech understanding.



Direct Sound Transmission means less listening effort

If the brain is not getting the right sounds to work with, it takes intense effort to create meaning. We know patients hear best when nothing stands between them and the sounds they want to hear. Direct Sound Transmission provides more sound to support the brain's cognitive processes, which reduces the effort spent on listening.²

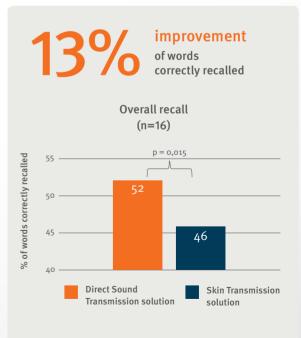




Inium Sense Platform

The Inium Sense chip delivers increased processing power and advanced sound processing technologies for improved signal clarity. This helps the brain to decode sound and focus on the important hearing details.



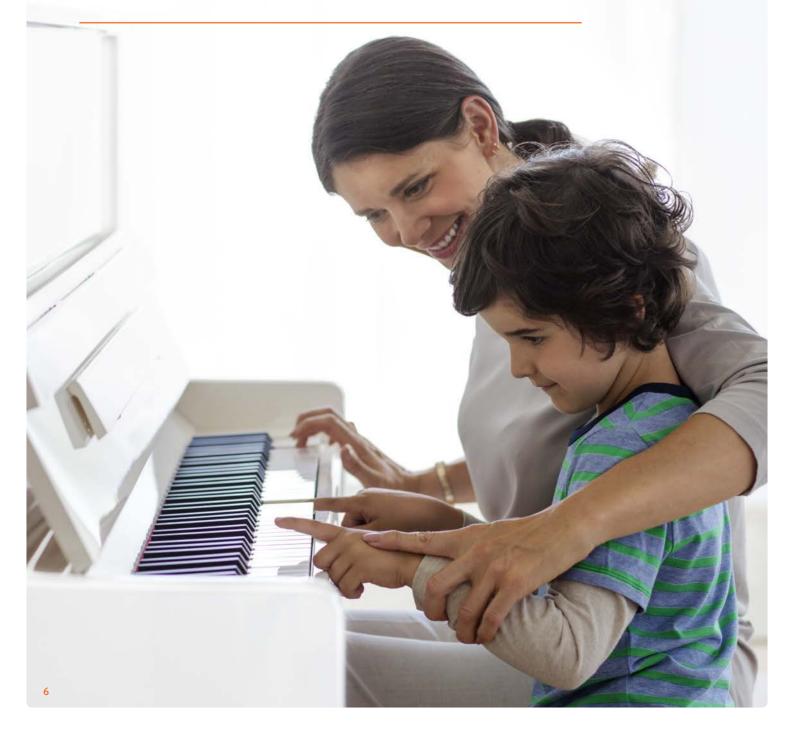


Study participants experienced greater recall of words with the Direct Sound Transmission via the abutment compared with a Skin Transmission solution via softband.²

Softband and magnetic solutions have similar performance.³

Powerful sound quality Output and bandwidth matter

The more power we build in, the more users get out in terms of audibility and understanding. That's why we continuously focus on making Ponto **more powerful** so it can deliver **higher output (MFO) across the entire bandwidth.** This leaves more room for more sound in everyday situations.



More power

Users of bone anchored devices can always benefit from higher output as this **expands the range of sounds** they can hear.

Many users have good hearing at a cochlear level, so it's important that the sound processor can reproduce soft and loud sounds. Higher output across the entire bandwidth provides access to an increased dynamic range. This enables users of Ponto 3 to enjoy a broader sound experience.



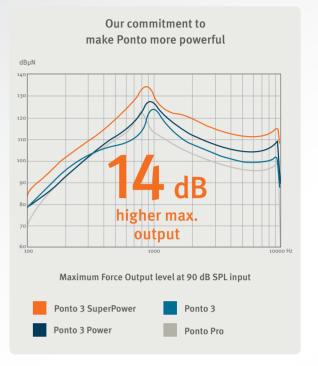
The unique **UltraDrive™ technology** in Ponto 3 SuperPower together with the new Inium Sense platform allows us to boost the signal to the transducer while minimising the risk of feedback.

← 38% → WIDER

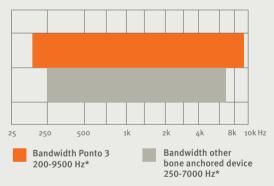
The importance of extended bandwidth

To develop language skills, children need access to the clearest, most complete auditory signal and the widest dynamic range. A study suggests that children listening to words under an extended bandwidth condition learnt new words three times as quickly compared to children listening to the same words under a limited bandwidth.⁴ This knowledge highlights the importance of extended bandwidth and provides valuable insight to our sound processor development.

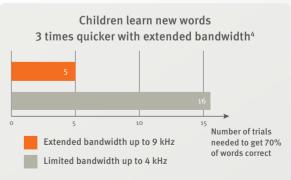




The widest frequency bandwidth in the industry



^{*}Linear comparison of the data from manufacturers official data sheets. The perceptual performance has not been evaluated.



The study included both normal hearing and hearing impaired children who were exposed to limited and extended bandwidth. Ponto 3 was not part of this study. No conclusion can be drawn from this study with regards to Ponto 3.

Powerful sound quality Power to focus and understand

We say ultimate sound quality is when you hear your surroundings without noticing your sound processor. A sound processor should support patients in all the listening situations they encounter - from a noisy sporting event to a family dinner, and everything in between. And this is where the most advanced sound technology can make a difference.



Better speech understanding with **FreeFocus**

In order to better recognise a sound, users need to know what is happening around them. Ponto 3 uses the FreeFocus directional system, designed to help the brain focus while continuing to orient and separate sounds. It automatically supports users when moving from one environment to another. A typical user spends 70% of time in Omni directional mode. With its unique Speech Omni mode, Ponto 3 provides 15 % better speech understanding in the majority of everyday listening situations.



Optimised . Omni

Split Directional

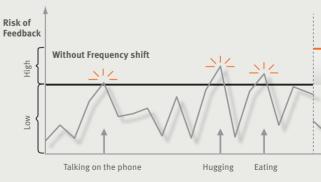
Full Directional

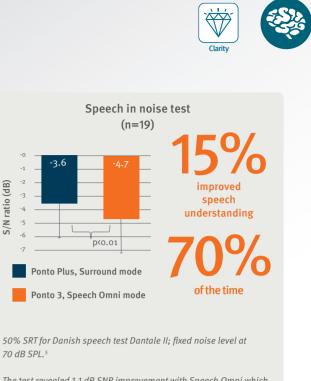
All the power with minimal feedback

Ómni

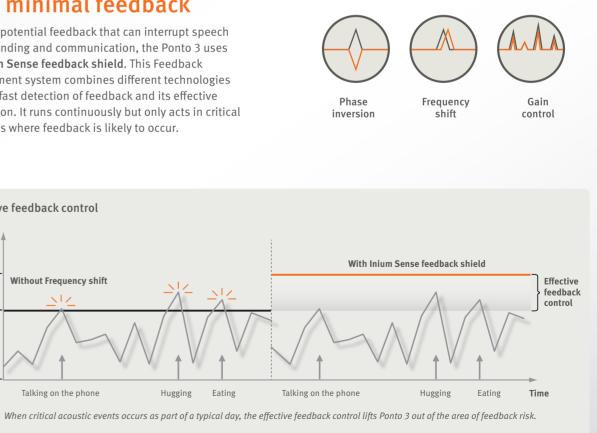
To avoid potential feedback that can interrupt speech understanding and communication, the Ponto 3 uses the Inium Sense feedback shield. This Feedback Management system combines different technologies for ultra-fast detection of feedback and its effective elimination. It runs continuously but only acts in critical situations where feedback is likely to occur.

Effective feedback control





The test revealed 1.1 dB SNR improvement with Speech Omni which is equivalent to 15% improvement of speech understanding.⁶



Power to participate

Communication today is much more than just face-to-face conversations. That's why the Ponto 3 lets users wirelessly connect to a wide variety of electronic devices, such as cell phones, TV, looped environments and more, via the Oticon Medical Streamer, without ever putting power at risk. Furthermore, all parts of the sound processor are extensively tested to ensure the Ponto 3 delivers the reliability and performance an active lifestyle requires.



Wireless connectivity that doesn't compromise power

electronic devices with Ponto 3. This intuitive device and



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Quality you can rely on

As part of the William Demant Group of hearing health care companies, Oticon Medical can draw on the technological advances of Oticon and enjoy its advanced testing facilities. The Ponto 3 sound processor has an IP57* classification and has been thoroughly tested in over 30 different reliability tests. From humidity and drop tests to compatibility tests, the results prove that Ponto 3 supports an active lifestyle all day, every day.

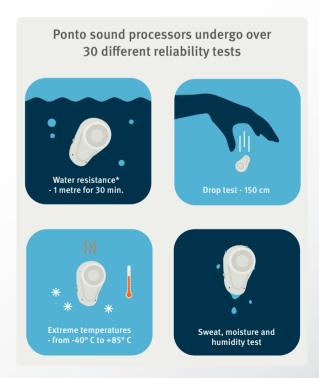




Use QR code to see how we test Ponto sound processors.

* Please note, Ponto 3 is not waterproof. Users should remove their sound processor while showering or bathing. Please visit www.oticonmedical.com/connectlineapp for details on compatibility.





SuperPower made beautiful

Ponto 3 SuperPower uses UltraDrive[™] technology and combines a discreet design, small size and a battery that is designed to last. This means that users who require a SuperPower device can benefit from the same, award-winning design as users with a more minor hearing loss. It connects simply to the abutment and requires no strings or bulky ear- or body-worn devices.

Discreet, organic design

Ponto 3 is available in dedicated left and right versions that smoothly follow the contours of the outer ear. Users can choose from six different colours that blend in with most hair shades.

Ease of use

The design of Ponto 3 manages to be discreet without compromising usability. For example, changing the volume is easy, the push button makes program selection and muting simple, while the battery door is designed for smooth opening. Furthermore, Ponto 3 features **binaural synchronisation and coordination** allowing users of two processors to adjust both processors from one sound processor.



Empowering children Development starts with sound

The power of the Ponto 3 offers children with hearing loss access to the speech and sounds they need to develop language. Whether in the classroom listening to the teacher, in the schoolyard with friends, or playing on the computer, the Ponto 3 supports communication so children can be an active part of the world around them.



The new Ponto Softband

The Ponto Softband has been redesigned. For example, the sound processor can now be worn on a favourite cap or piece of headwear. The Ponto Softband is an ideal way for children to experience the many benefits of the Ponto 3 sound processor without the need for surgery.

- adjustable to most head sizes

- to ensure premium sound quality and



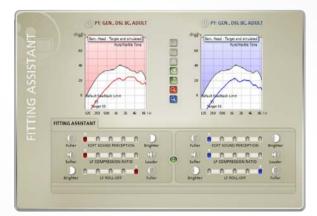


Individual style

Ponto 3 comes with a variety of skins and stickers that let users personalise and change the look of the processor.

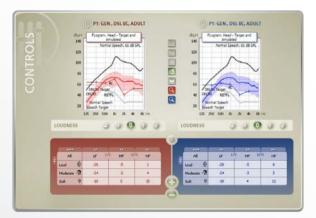
A few moments to a perfect fit

The new intuitive Genie Medical makes it easier for hearing healthcare professionals to provide a **more individualised fitting** of Ponto. New tools and updated features allow professionals to give users the best possible sound quality.



Adjust with new **Fitting Assistant tool**

The new Fitting Assistant tool allows quick adjustment of compression, low frequency gain and Soft Sound Perception that increases gain for low input levels.



Evaluate with new FLogram

The new FLogram visualises the patient's auditory dynamic range for Ponto fittings on abutment. This makes it simple to evaluate audibility and dynamic range with the sound processor setting.

New DSL-BC fitting rationale - tailor-made for bone anchored hearing

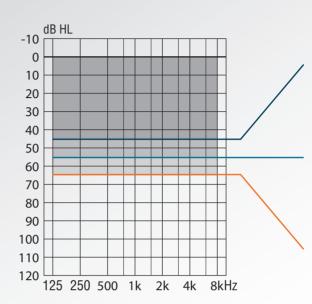
Oticon Medical is the first in the industry to provide the DSL-BC fitting rationale. This widespread hearing aid rationale has now been specifically adapted to the needs of bone anchored users.



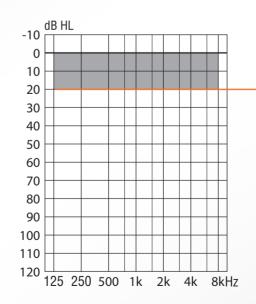
Bill Hodgetts Associate Professor University of Alberta University of Western Ontario



Fitting Range Conductive / Mixed hearing loss



Fitting Range Single-sided deafness



*Average of 0.5, 1, 2, and 3 kHz



Average BC threshold* better than or equal to



Ponto 3



Ponto 3 Power



h



Ponto 3 SuperPower

Average AC threshold* better than or equal to





Ponto 3



Ponto 3 Power



Ponto 3 SuperPower

Ponto 3 – The world's most powerful family of abutment-level processors

Features	Ponto 3	Ponto 3 Power	Ponto 3 SuperPower
Fitting range	Up to 45 dB HL	Up to 55 dB HL	Up to 65 dB HL
Peak OFL at 90 dB SPL	124 dB rel. 1µN	128 dB rel. 1µN	135 dB rel. 1µN
Frequency range	200 Hz – 9.5 kHz	260 Hz – 9.6 kHz	260 Hz – 9.6 kHz
FreeFocus	•	•	•
Inium Sense feedback shield	•	•	•
UltraDrive™ technology			•
Wind Noise Reduction	•	•	•
Speech Guard	•	•	•
Tri-state Noise Reduction	•	•	•
Binaural Coordination & Synchronisation	•	•	•
Dimensions (L*W*H)	34* 21* 11 mm	34* 21* 14 mm	34* 21* 14 mm
Weight without battery	14 g	17 g	17 g
Battery size	13	675	675P
Up to 4 programs	•	•	•
Wireless connectivity	Via Oticon Medical Streamer & ConnectLine App	Via Oticon Medical Streamer & ConnectLine App	Via Oticon Medical Streamer & ConnectLine App
Tamper-proof battery door	•	•	•
Volume control	•	•	•
Colours	Pure White White Silver	Chroma Beige Mocca Brown	Steel Grey Diamond Black

- with the bone-anchored hearing aid attached to the headband, the testband and to the 'snap' abutment. Otology & Neurotology 30: 70-75
- (2016). Using speech recall in hearing aid fitting and Hearing; 37; 145S- 154S
- Weber P, Smeds H, Flynn M, and Cowan R (2015). Clinical Performance of a New Magnetic Bone Conduction Hearing Implant System: Results from a Prospective, Multicenter, Clinical Investigation. Otology & Neurotology, Jun; 36(5): 834-41
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- optimization and evaluation of a Danish sentence test in noise. International Journal of Audiology; 42:10-17

