

About Signia

Signia hearing aids enhance human performance by giving your patients the ability to hear what matters most in every situation, no matter their level of hearing loss. In short, it helps them better connect, even reconnect, with the world around them.

Find out more at signia-pro.com

Or ask your hearing care professional for more information on Signia hearing aids, useful accessories and the Signia app.



Compatible with iOS and Android. The app is free of charge. Apple, the Apple logo and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Android, Google Play and the Google Play logo are trademarks of Google Inc.

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice.

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Be
Brilliant™

Signia Augmented Xperience (AX)

Empowering people to hear what matters



signia





Our Goal:

Empower people to perform at their best in everything that they do

We put hearing aid wearers first with products that fit their wants, needs and style. The wearer is at the center of our universe and their needs are woven into our DNA.

For us, this is not about correcting a loss, it's about gaining an edge. Not just performing, but performing at their best. Signia combines world-class audiology with cutting-edge technology to deliver iconic innovations in hearing.

A True Partnership

Your success means our success. To achieve our mission, Signia delivers a unique combination of Innovative Solutions, Unparalleled Support, and Service Excellence to help you welcome more patients and achieve more positive outcomes, with our full support every step of the way.

In addition to world-class audiology and cutting-edge technology, Signia delivers business support and partnership opportunities to ensure long-term success for you, your practice and your patients. From expert audiological training courses to highly specialized support teams, Signia provides the knowledge and expertise to help you get the most from our technology today and always.

Join the breakthrough in hearing aid technology.

Augmented Focus™ Technology: Delivering outstanding speech clarity

Augmented Focus separates speech from noise using two dedicated processors to fully optimize sounds without compromising one from the other.

Signia AX

Speech clarity without compromise

Hearing aids don't always make hearing easy. Background noise can make it difficult to focus on conversation, and conversation can distract you from the rest of your surroundings. When these sounds blend together, it's nearly impossible to focus on what you want to hear. Augmented Xperience has changed all that, and it's only available from Signia.

Augmented Xperience changes the way your patients hear the world. Instead of them having to strain to discern speech from background noise, our new platform uses proprietary Augmented Focus technology to process the two separately and create a clear contrast. The sounds are then recombined to deliver outstanding speech clarity in a fully immersive soundscape.

Traditionally, hearing aids have processed all sounds under one set of rules, resulting in signals competing against each other. If you prioritize one part, another is neglected. With Augmented Xperience, **two dedicated processors** can fully optimize different sounds without compromising one or the other. This new platform empowers your patients to better focus on the conversations they want to hear, while still engaging with the sounds around them.

More contrast. Less distractions.

With a processor dedicated to speech and a processor dedicated to environmental noise, the wearer can better focus on what's important while being more spatially aware.



Augmented Xperience



Signia AX

Revolutionary split processing

Augmented Focus uses two separate processors that work together to deliver outstanding speech clarity.

Speech Understanding

In conversations, every small detail matters. Augmented Focus processes speech in a highly linear, uncompressed way with emphasis on clarity and detail. This brings speech closer to the wearer for enhanced, easier focus.

More than 25% better speech understanding in noise compared to own hearing aids*

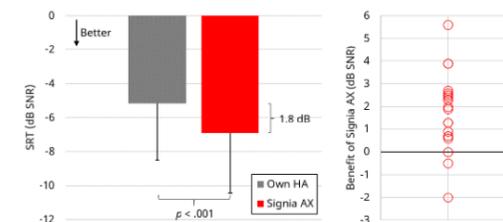


Figure 6. Left panel: Mean SRTs for own hearing aids (HA) and for Signia AX in the Oldenburg sentence test, based on data from 20 participants. The error bars indicate one standard deviation. Right panel: The individual differences between Signia AX and own hearing aids. A positive benefit of Signia AX indicates a lower (better) SRT.

Environmental Noise

Our surroundings are full of sounds outside of speech, which help the wearer connect to their environment. Augmented Focus processes these sounds, like piano music or laughter in a cafe, with higher spatial resolution and more compression to keep them at a distance. Additionally, sudden loud sounds are processed more quickly than ever to prevent them from hindering speech understanding.

94% of wearers report excellent speech understanding with Signia AX**

Creating a more immersive hearing experience.

Two separate processors allow wearers to fully capture speech and environmental noise independently. Augmented Focus then combines the two to bring speech closer for better understanding and keep environmental sounds at bay for quality and better than normal hearing.*

3 out of 4 wearers experience less listening effort with AX***

Conventional Processing

Flat & Unvaried



Augmented Focus

Dimensional & Engaging



* Signia White Paper. Based on transformation of the 1.8 dB SNR improvement using a value of the slope of the psychometric function (Wagener & Brand, 2005)

** Signia White Paper. 18/19 participants had a mean rating of speech intelligibility-related questions of more than 8.0 and 9.0, respectively

*** Jensen, N., Powers, L., Haag, S., Lantin, P., Høydal, E. (2021). Enhancing real-world listening and quality of life with new split-processing technology. *AudiologyOnline*, Article 27929. Retrieved from <http://www.audiologyonline.com>

Signia AX

The Augmented Xperience platform at a glance



2x

Audiological core processors

110%

Increased binaural audio transfer rate

60%

Reduced binaural latency

27%

More electric circuits

22%

Longer battery runtime

Signia Delivers New Audiological Features



Auto EchoShield: Automatically eliminates compromises caused by reverberation

Automatically analyzes the listening environment and adjusts to deal with problematic reverberation in every kind of room. Wearers will enjoy a pleasant listening experience and understand conversations better in any type of reverberant environment.

- Only available for level 7



OVP 2.0: Unique solution for own voice discomfort

Own Voice Processing 2.0 harnesses the split processing capability of the Augmented Xperience platform to process the wearer's own voice separately from simultaneous ambient sounds. Wearers can speak comfortably and confidently without being bothered by the sound of their own voice or distracted by ambient sounds.



HandsFree with CallControl (iOS): Turn AX hearing aids into a headset

The HandsFree (iOS) feature lets the hearing aid wearer use their Signia AX hearing aids for HandsFree calls with their iPhone® in different environments – even in noisy ones. Wearers will enjoy answering the phone in any situation and never being limited in their active, busy lifestyle.

Enhanced Audiological Features



e2e Wireless 4.0: A great leap for true binaural hearing

e2e 4.0 significantly boosts the speed of data transmission and a 60% reduction in latency provides inaudible shifts between environments. The synchronization of more binaural audio data than ever before ensures clearer speech processing with high-precision directional awareness.



TruEar 360: Mimics the natural pinna effect

The powerful processing engine allows for an exceptional TruEar 360 mic mode that reproduces and emphasizes the capabilities of the natural pinna-effect better than ever. TruEar 360 highlights the difference between front and back sources of sound to make localization of sound sources easier.



Increased Dynamic Range Input: Appreciated by music lovers

The microphones and the state-of-the-art analogue input stage can handle signals up to 117dB with great sound quality. That's very close to the full capacity of human ears and ensures a clean, crisp signal for scenarios like concerts.



Enhanced Feedback Cancellation: No distractions for a smooth sound impression

e2e 4.0 also synchronizes feedback cancellation between the ears in the same phase, removing more artifacts for a smoother overall sound experience.



Direct Streaming: Hassle-free listening to audio input

Augmented Xperience offers direct streaming for both iOS and ASHA-compatible Android™ smartphones. It handles the signal of a streaming input independently from other signals, ensuring that the sound is even clearer and easier to optimize.



Automatic Situation Detection: Automatically responds to where and what you are doing

Provides detailed information about the wearer's movement and environment. Analyzing and adapting to the acoustic and motion changes, these sensors deliver a clear understanding of speech from any direction and maximizing audibility as you move throughout the day.

¹Høydal, E. H. (2017). A new own voice processing system for optimizing communication. Hearing Review, 24(11), 20-22. Further details: www.signia-pro.com/ovp-study.

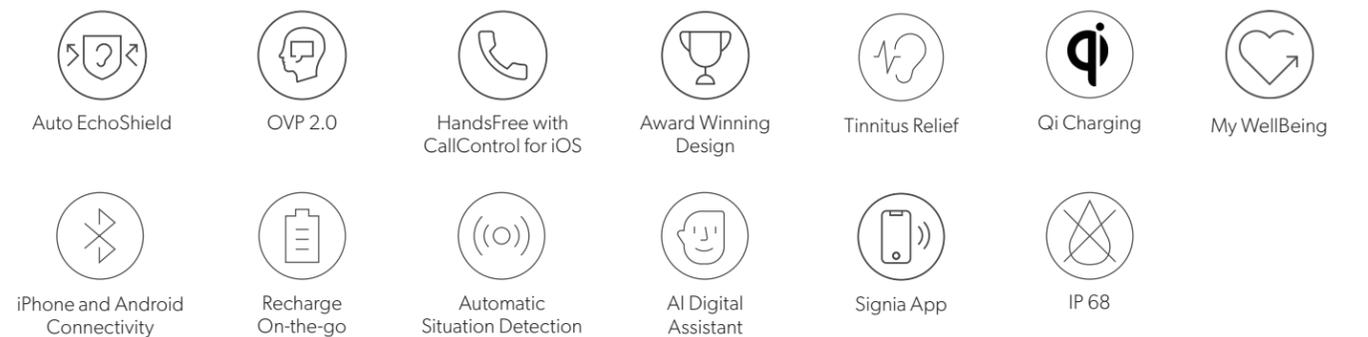


Signia AX Styletto AX

The new Styletto AX, Signia's award-winning design, is preferred by 8 out of 10 hearing aid wearers.*

The newest Slim-RIC, the Styletto AX delivers a broad range of options:

- When presented with a choice, 84% of the survey participants reported they would visit the office that included Styletto in their display versus those who did not**
- Direct streaming to iPhone and ASHA compatible Android devices for effortless streaming from any Bluetooth® device – HandsFree with CallControl (iOS)
- Sleek design combined with new EarWear 3.0 which is proven to deliver higher physical fit rates and better retention for increased patient satisfaction
- Wireless charging with Qi technology offers ease of use
- Up to 20 hours of runtime on a single charge, or 17 hours with 5 hours of streaming, plus enjoy a 30-minute fast charge for an additional 5.5 hours of hearing aid power.
- New earwear 3.0 for proven higher fit rate, sleek design and increased patient satisfaction
- Available as a CROS device





CROS



Integrated Telecoil



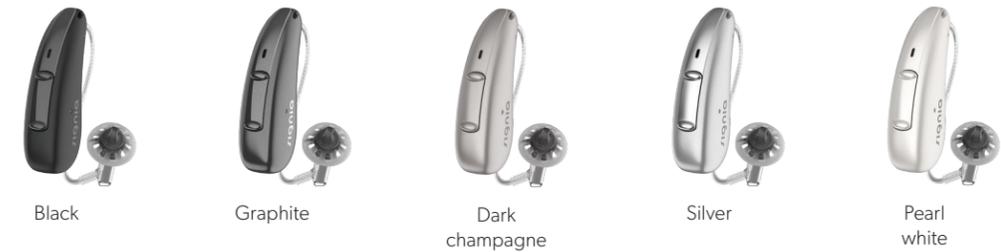
Signia AX

Pure Charge&Go T AX

The new Pure Charge&Go T AX is Signia's smallest rechargeable RIC with telecoil and delivers a slimmer, sleek design

The first hearing aid on our revolutionary Signia AX platform, the Pure Charge&Go T AX is the new standard as it delivers 36 hours of wear-time, including 5 hours of streaming.

- Our smallest RIC with a telecoil, negligibly longer than the standard version – a difference less than the thickness of a dime
- Pure Charge&Go AX delivers up to 36 hours of use on a single charge, including 5 hours of streaming for complete flexibility on the move
- Direct streaming to iPhone and Android (ASHA) addresses a broader range of patients
- Available as a CROS device
- New EarWear 3.0 for proven higher fit rate, sleek design and increased patient satisfaction
- Signia app and the Signia Assistant for the most personalized augmented hearing experience



Black

Graphite

Dark champagne

Silver

Pearl white



Fine Gold

Deep brown

Sandy brown

Rose gold

Beige



Auto EchoShield



OVP 2.0



HandsFree with CallControl for iOS



Tinnitus Relief



Augmented Speech Understanding



Immersive Soundscape



My WellBeing



iPhone and Android Connectivity



Recharge On-the-go



Automatic Situation Detection



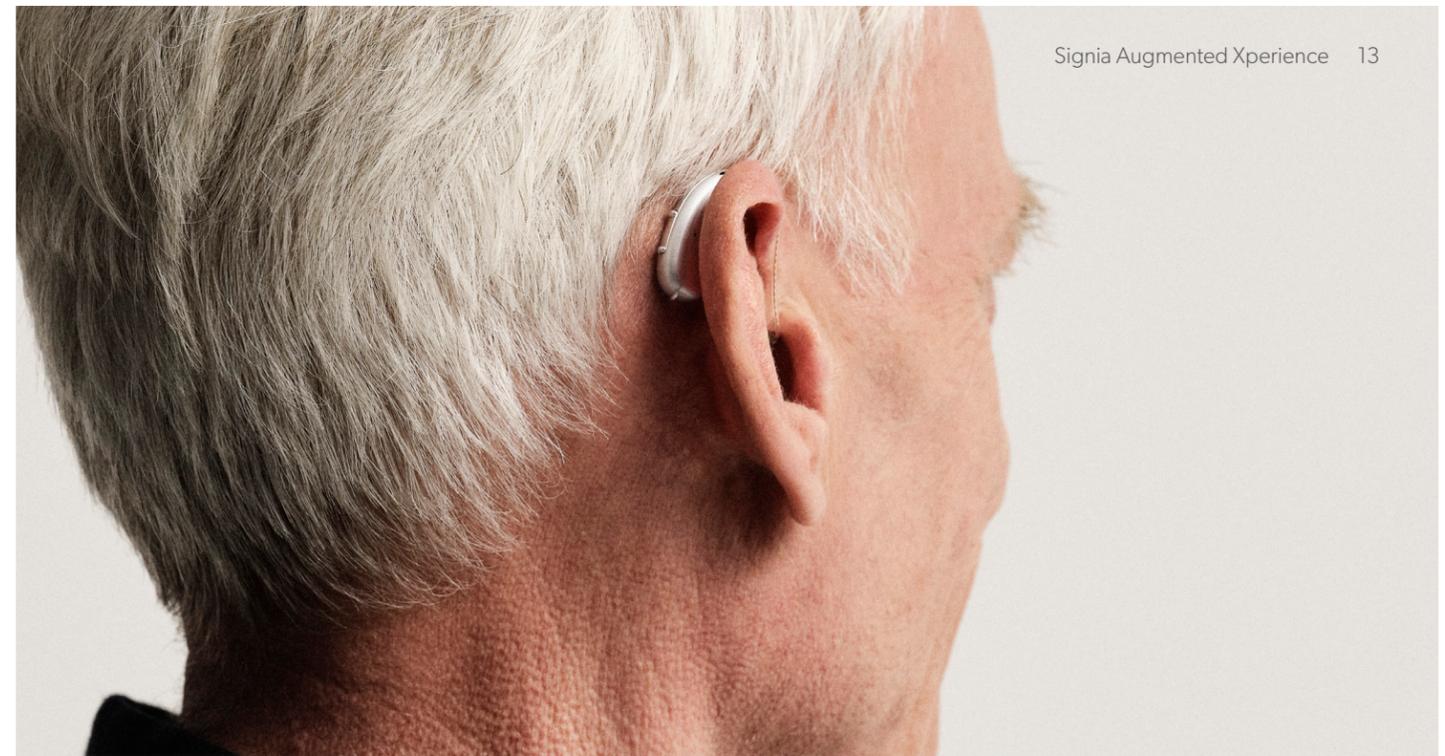
AI Digital Assistant



IP 68



Signia App



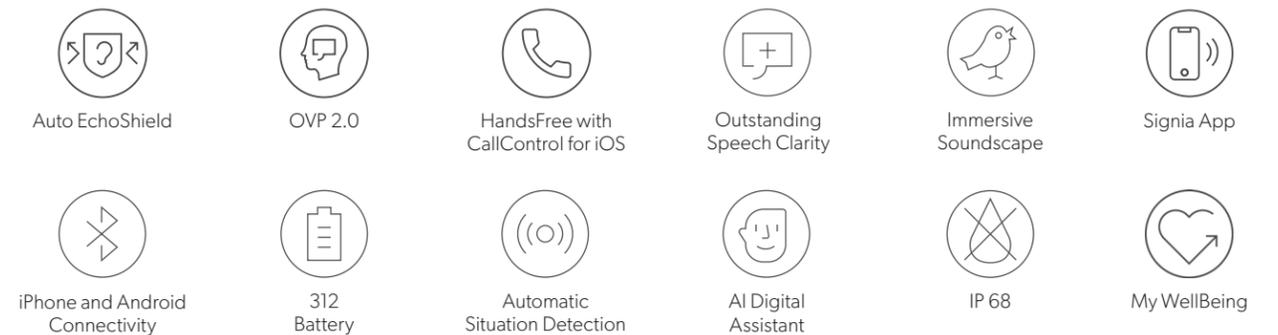
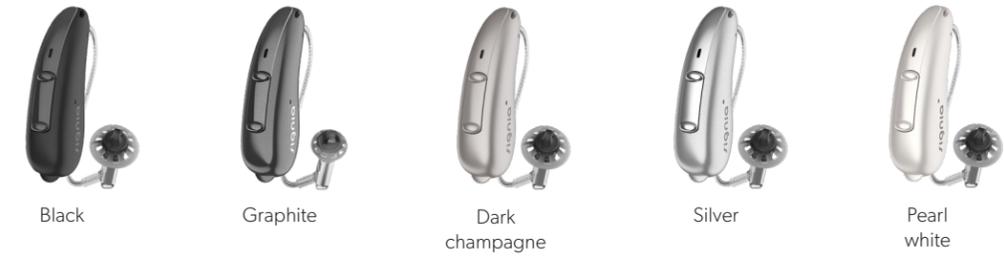
Signia AX

Pure 312 AX

The Pure 312 AX is Signia's smallest traditional-battery powered RIC delivering outstanding speech clarity

The newest RIC, the Pure 312 AX delivers a broad range of options:

- Direct streaming to iPhone and ASHA compatible Android devices for effortless streaming from any Bluetooth device – HandsFree with CallControl.
- Sleek design combined with new EarWear 3.0 which is proven to deliver higher physical fit rates and better retention for increased patient satisfaction
- Rocker switch for onboard control
- Available as a CROS device
- Signia app and the Signia Assistant for the most personalized augmented hearing experience
- Pure 312 AX's Zn-Air battery delivers a wear-time of up to 4 days





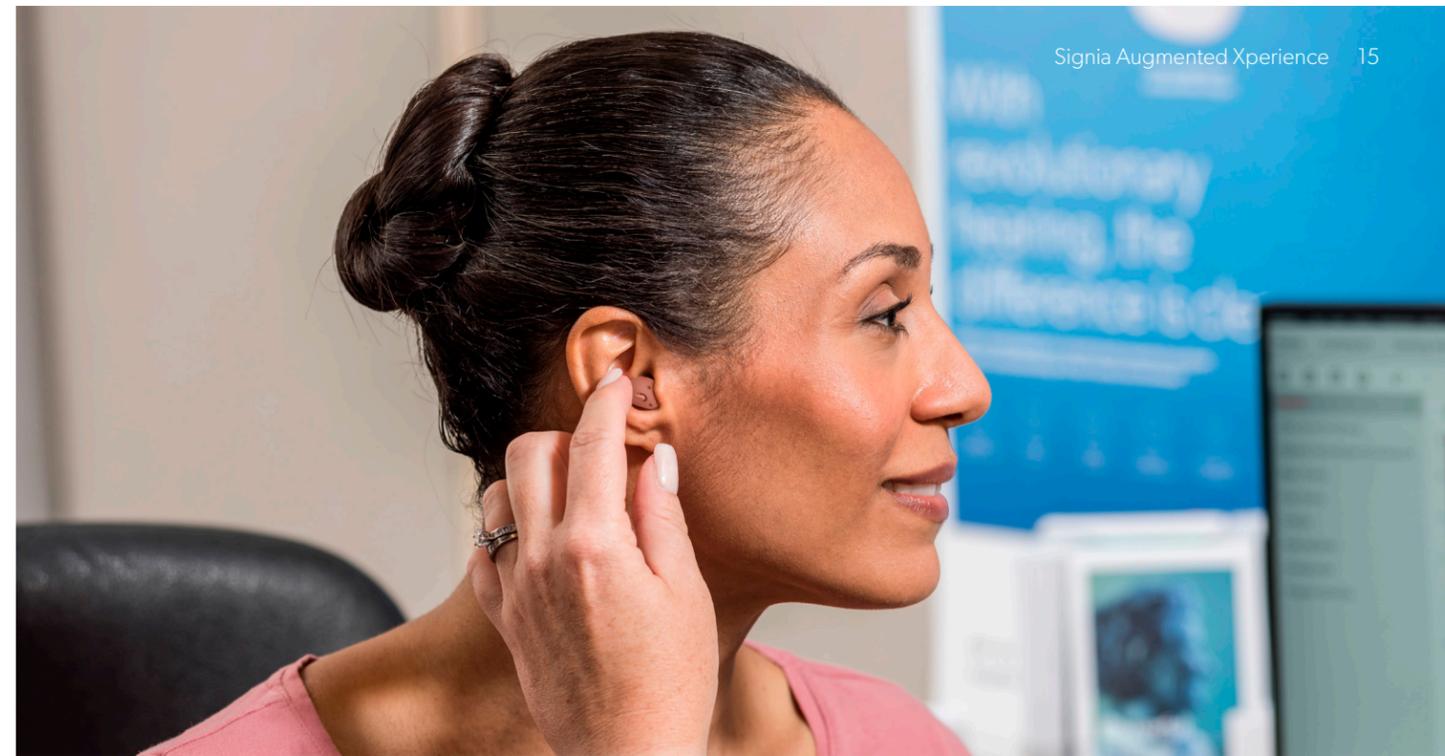
Signia AX

Inσιο Charge&Go AX

The world's first rechargeable custom hearing aids with contactless charging and Bluetooth connectivity

Our new rechargeable Inσιο Charge&Go AX ITC and ITE models redefine what custom hearing aids can offer wearers.

- Tailored to wearer's individual ear anatomy and a slightly smaller design for all-day comfort and increased wearer satisfaction
- Easy insertion and removal to address challenges with dexterity
- Contactless charging for easy operation provides up to 24 hours of use on a single charge
- Direct streaming to iPhone and Android addresses a broader range of patients
- Signia app and the Signia Assistant for the most personalized augmented hearing experience



Red, blue, and clear shells are also available



Inσιο Charge&Go AX with compact charger

- | | | | | | |
|---|---|---|--|--|---|
| 
Auto EchoShield | 
HandsFree with CallControl for iOS | 
Tinnitus Relief | 
Custom Design | 
iPhone and Android Connectivity | 
Signia App |
| 
Contactless Charging | 
Outstanding Speech Clarity | 
AI Digital Assistant | 
Automatic Situation Detection | 
IP 68 | 
My WellBeing |

Chargers

A world of charging possibilities

You can offer Signia AX hearing aid wearers the choice of a variety of different chargers to power their hearing aids, depending on their preferences and lifestyle.



Pure Charge&Go AX Charger

This small and highly reliable desktop charger addresses basic needs when it comes to providing power. The Pure Charger uses a USB power adapter. In addition, this standard charger is easy to use for those with dexterity issues.



Pure Charge&Go AX Portable Charger

This sophisticated charger offers comfort and charging on the go. Its power bank holds up to 3 full charges for a pair of hearing aids. A protective lid prevents dust accumulation. The Pure Portable Charger is powered via USB-C.



Pure Charge&Go AX Dry&Clean Charger

Using the ultimate in state-of-the-art charging technology, the Pure Dry&Clean Charger not only charges the hearing aids but also offers UVC cleaning and drying technology to keep them in peak condition. The UVC cleaning starts automatically when the hearing aids are placed inside and is completed in just 15 minutes.

The Pure Charge&Go AX Dry&Clean Charger also has a lid to ensure optimal hearing aid cleaning and storage and is powered via USB-C.



Insio Charger

This revolutionary charger provides the first contactless charging for custom hearing aids. No specific charging position is required — wearers intuitively place their Insio Charge&Go AX hearing aids in the charger as if it were a jewel case. It charges hearing aids at home or on-the-go for up to 28 hours of use per charge.



Styletto Portable Charger

This elegant portable charger matches Styletto AX's award-winning design. Wearers can charge their Styletto AX hearing aids at home or on-the-go for up to 20 hours of use per charge. The pocket-sized charging case's Qi wireless technology enables them to simply place the charger on a charging pad instead of having to plug it into the mains. The charger gives an astounding 4 days of autonomy without needing to charge the case.



Styletto Dry&Clean Charger

Using the ultimate in state-of-the-art charging technology, the Styletto AX Charger not only charges the hearing aids but also offers UVC cleaning and drying technology to keep them in peak condition. The UVC cleaning starts automatically when the hearing aids are placed inside and is completed in just 15 minutes.

All three Pure chargers use galvanic charging technology and are compatible with Pure Charge&Go AX, Pure Charge&Go T AX and CROS Pure Charge&Go AX.

Each delivers a full charge in about 4 hours and a 30-minute quick charge for added flexibility on the go.

Both Styletto Chargers are compatible with the Styletto AX and the CROS Styletto AX.

EarWear 3.0

Hearing aids that fit better and look better

Our EarWear 3.0 offers proven higher fit rate, a sleek design and increased patient satisfaction.

EarWear 3.0 is a comprehensive solution that supports a broad range of fitting and cosmetic needs. Your patients can now enjoy a more comfortable fit, more stylish look and consistently reliable performance.

Eartips are available in a variety of sizes with both closed- and open-build versions that fit most ear anatomies. This means fitting more patients is easier than ever before.



miniReceiver 3.0

EarWear 3.0 advantages at a glance:

Higher physical fit rate

Soft eartips and improved receiver sizes enable a secure, snug fit that's comfortable for even the smallest ear canals.

Appealing design

Updated form and in-ear position provides a closer fit and less visibility.

More secure fit

Built to securely lock into the ear canal, with minimal movement and no need for an anchor.

Eartips

Compatible with miniReceiver 3.0 and easier for your patients to switch out, compared to click domes.

Smaller hearing aids

The introduction of a substantially smaller tip allows for smaller RIC designs overall.

Improved usability

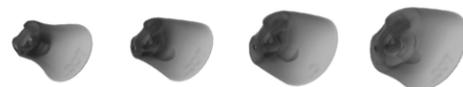
The proven design makes eartips much easier for patients to switch out. Compatible with miniReceiver 3.0.



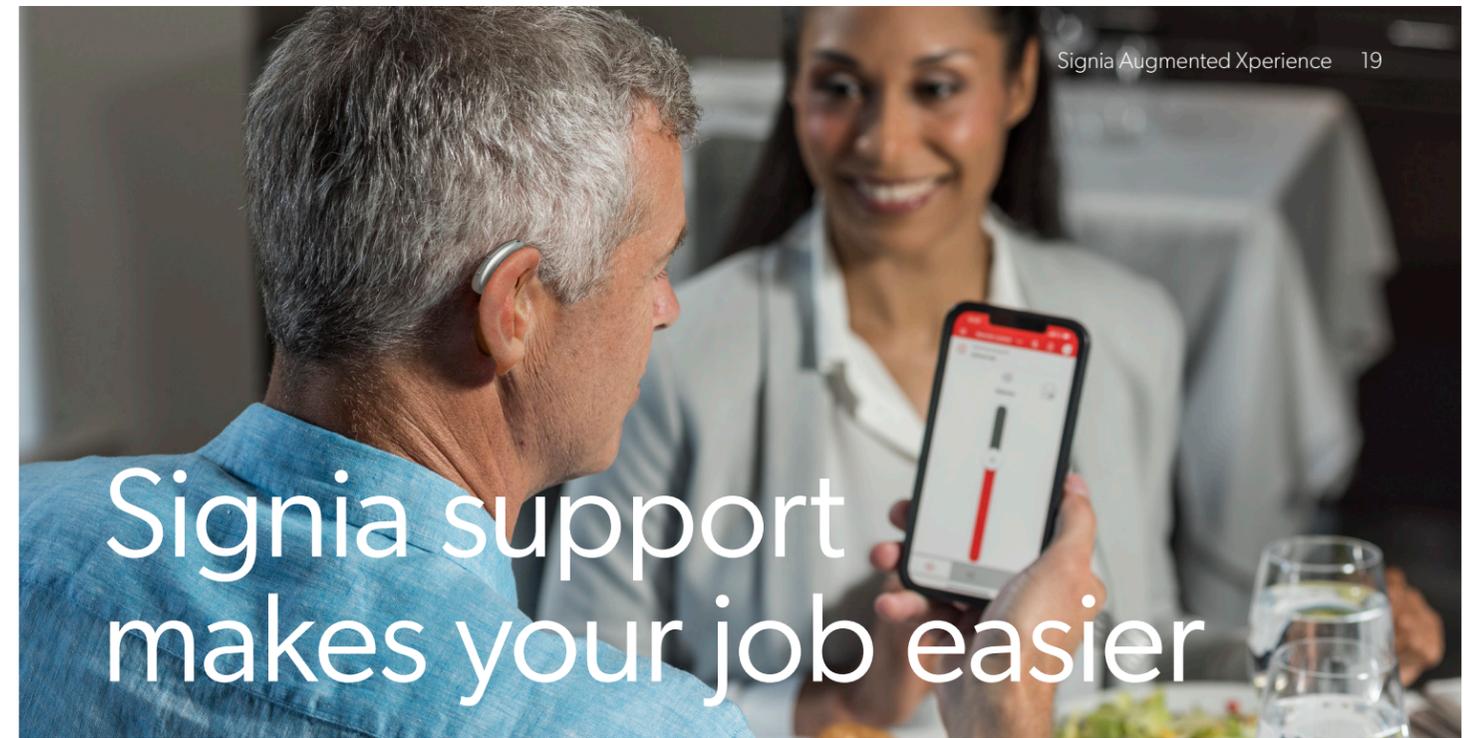
Open EarTips 3.0



Tulip EarTips 3.0



Sleeves 3.0

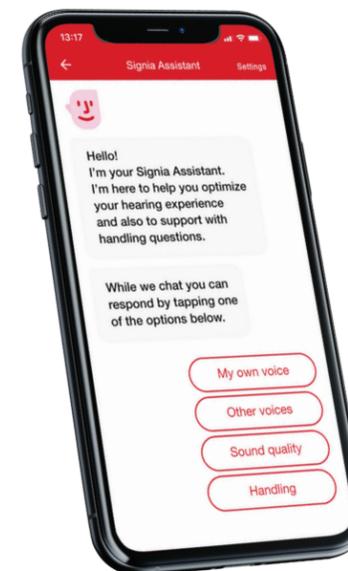


Signia support makes your job easier

From our all-in-one Signia app to our Connexx fitting software, Signia supports you and your patients at every step.

The Signia app provides an all-in-one enhanced wearer experience. The layout is automatically adapted to the features available in the hearing aids it is paired with.

Beyond remote control, streaming capabilities with multiple devices, the app offers two revolutionary solutions that make it easier for you to fit and stay in touch with patients, Signia Assistant and TeleCare™.



Signia Assistant

Inspired by the way the human brain's neural network solves challenges, the Signia Assistant uses its AI deep live neural network to offer real-time sound adjustments in response to changing listening needs.

TeleCare

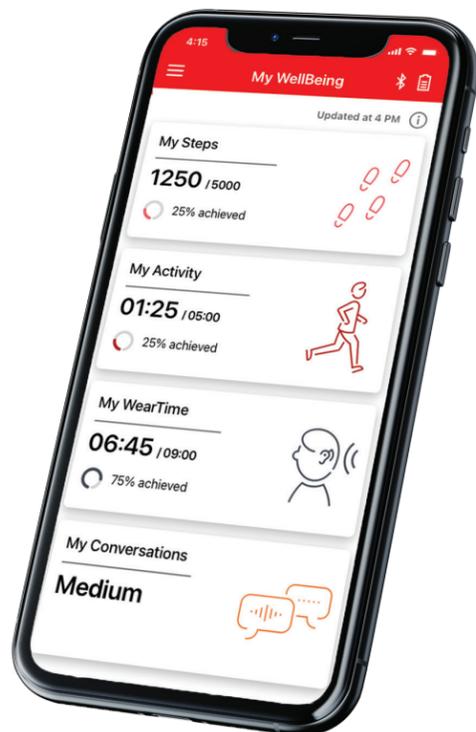
Signia TeleCare enables virtual connection for remote care when in-person visits aren't ideal or possible. You can hold virtual appointments via phone or video call and adjust the hearing aid settings remotely through the Connexx fitting software.



My WellBeing

Better hearing, better health

In a changing industry, it is important to focus on hearing health as part of our patients' overall health. Signia's new My WellBeing feature in the Signia app does just that. This feature will help encourage consistent hearing aid use and increase awareness that hearing aids are part of overall well-being. Patients are able to track activity through four convenient tools.



My Steps
Enables patients to see exactly how many steps they take each day



My Activity
Enables patients to know how much time spent exercising — and together with steps, provides an overview of physical activity level



My WearTime
Shows how well patients are using their hearing aids based on how often they use them — helping to better understand usage habits



My Conversations
Own Voice Processing technology measures how much patients are interacting socially with others, so they can keep track of their social engagement and stay on top of any situation



Connexx with Signia AX



Connexx with Augmented Xperience

Our Connexx fitting software puts you in the driver's seat with real-world insights to optimally support each individual patient.

First Fit in Connexx configures Signia AX hearing aids to allow the wearer to hear what is important to them. The First Fit settings have been carefully optimized to provide a good starting position for each wearer.

Features	Information	Performance level
Data Input & Transmission		7AX
Augmented Focus™	Augmented Focus™ can separate the focus sound (speech) from surroundings with split processing to create a contrast between the two, designed to make it easier to follow conversations.	✓
Acoustic Sensors	Upgraded to detect even more variables of sound than ever before to provide accurate information about the environment.	✓
Motion Sensor	Integrated in the hearing aids to recognize changes in the wearer's movement. This motion data complements the acoustic data to optimize Dynamic Soundscape Processing 2.0. ¹	✓
e2e wireless 4.0	Enhanced speed of data transmission, designed to deliver a smoother sound experience and inaudible shifts between different settings. Enables synchronization, binaural directionality, Spatial Speech Focus, CROS/ BiCROS.	✓
OVP 2.0™ (Own Voice Processing) ¹	Utilizes real-time recognition of the wearers voice and split processing to detach the wearer's own voice from surrounding sounds and all other voices. 88% satisfaction with quality of Own Voice ² <small>*Excluding Insio Charge&Go</small>	✓
Processing & Sound Design		
A unique sound experience by shaping the two processing streams.		
Dynamic Soundscape Processing 2.0	Precise processing for awareness of sounds and enhancement of speech for added contrast. Additional personalization available via Connexx for a customized experience. ³	✓
Signal processing / Gain & MPO	Signia processing and frequency shaping - Increased channels = increased in precision and processing. Split processing with AX doubles the channels available with a binaural fitting up to 192 channels.	96/20 Universal 48/20 Manual
Hearing Programs	Number of programs configurable in Connexx.	6
Extended input range	117 dB 24 bit processing for enhanced digital encoding of soft and loud sounds.	✓
Speech and noise management	Reduces listening effort using sophisticated sound processing.	✓
SoundSmoothing™	Reduces the annoyance of sudden loud impact sound such as when handling glassware.	✓
Feedback cancellation	High speed monitoring and control of feedback in individual processing channels.	✓
eWindScreen	Reduces the annoyance of wind noise when outdoors. ⁴	✓
Extended bandwidth	12 kHz bandwidth for enhanced processing of high-frequency speech and environmental sounds.	✓

¹ Froehlich M, Branda E, Freels K. (2019) New dimensions in automatic steering for hearing aids: Clinical and real-world findings. Hearing Review. 26(11):32-36.

² Jensen NS, Pischel C, Taylor B. Upgrading the performance of Signia AX with Auto EchoShield and Own Voice Processing 2.0. Signia White Paper. 2022

³ Froehlich M, Freels K, Powers T. (2015). Speech recognition benefit obtained from binaural beamforming hearing aids: comparison to omnidirectional and individuals with normal hearing AudiologyOnline, Article 14338. Retrieved from <http://www.audiologyonline.com>

⁴ Freels K, Pischel C, Wilson C, & Ramirez P. (2015, October). New wireless, binaural processing reduces problems associated with wind noise in hearing aids. AudiologyOnline, Article 15453. Retrieved from <http://www.audiologyonline.com>.

⁵ Branda E, Powers TA, Weber J. (2019) Clinical Comparison of Premier Hearing Aids. Canadian Audiologist. 6 (4).

⁶ Chalupper J, Wu Y, Weber J. (2011) New algorithm automatically adjusts directional system for special situations. Hearing Journal. 64(1): 26-33.

⁷ Froehlich M, Junius D, Branda E. (2017) A Comparison of Signal Quality of Direct Streaming Hearing Aids. Canadian Audiologist. 4 (4).

⁸ Branda, E (2020) Improving Communication with face masks whitepaper https://www.signia-library.com/scientific_marketing/improving-communication-with-face-masks/

⁹ Froehlich M, Branda E, Apel D. (2018). Signia TeleCare facilitates improvements in hearing aid fitting outcomes. AudiologyOnline, Article 24096. Retrieved from www.audiologyonline.com

Features	Information	Performance levels
Speech Quality		7AX
Binaural Directionality	Enhancing speech understanding in challenging and noisy situations via e2e 4.0 processing. Shown to provide a significant benefit compared to other directional processing algorithms, significantly better performance than competitive products, and for individuals with mild-to-moderate hearing losses, significantly better performance than age-matched controls with normal hearing. ^{3,5}	✓
Wireless CROS/BiCROS	Compatible with CROS Transmitter.	✓
Spatial SpeechFocus	Steers the directional beam to the front, left, right, or behind the wearer, depending on the direction of the dominant speech source. Studies have shown SpeechFocus can provide an average ~5 dB SNR advantage (compared to omnidirectional), which can lead to a 30-50% improvement in speech understanding for speech signals originating from behind the user. ^{3,6}	Front Back Right Left
Frequency Compression	Designed to improve the detection of speech sounds for wearers with reduced high frequency hearing thresholds. Frequency compression is selectively activated based on audiological criteria.	✓
Auto EchoShield	Automatically augments the sound delivered to the wearer, providing a more comfortable hearing experience in high-reverb environments leading to increased speech clarity and natural room perceptions.	✓
Personalization		
Activated based on audiological criteria.		✓
TwinPhone	Delivers the phone conversation to both ears, which provides a 3-8 dB improvement in perceived loudness and has been shown to increase speech recognition by >20% when compared to listening with one ear. Two available for bilateral fittings. ³	✓
Tinnitus	A choice of tinnitus treatments based on the world's first Notch Therapy or traditional sound therapy signals. It is even possible to combine the two approaches.	✓
HD Music	Preset programs for enhancing enjoyment of non-streamed music	3
Wearer Interaction		
Direct Streaming	iOS (Apple) and AHSA (Android) compatible. Utilizes Bluetooth low energy - which is designed specifically to deliver optimal sound quality when streamed to hearing aids. AX streaming is processed separately from microphone input to enhanced clarity with a dedicated compression system. ⁷	✓
Streaming Accessories	Compatible with Streamline Mic and Streamline TV.	✓
Directional Hearing	Directional Hearing is part of the Signia App and allows the wearer to adjust the span and directional focus of the microphone beam.	✓
Signia App	Connects patients with immediate benefits and support in an intuitive solution. My WellBeing — Count your steps and measure your movement from your hearing aids via the Signia app to help you be active, be healthy, and be brilliant.	✓
Face Mask Mode	Improves audibility for Signia wearers communicating with someone wearing a face mask - all with the touch of a button in the Signia App. ⁸	✓
Signia Assistant	24/7 digital assistant for on-demand AI support for patients for adjustments and questions with all Bluetooth hearing aids.	✓
HandsFree with CallControl (iOS)	A feature using Bluetooth to allow the wearer to use their hearing aids as a headset. A built-in microphone on the hearing aid picks up the voice of the wearer to deliver high-quality speech to the conversation partner.	✓
TeleCare	Provides remote fine-tuning services including additional tools to follow up with patients. Proven to increase patient satisfaction for new hearing aid fittings more than patients fitted without TeleCare. In addition, the user engagement and autonomy can be increased via the Signia App. ⁹	✓