



NEW Pure® 312 X

The most discreet personalized hearing with direct streaming and optional T-Coil. Enabling you to hear what matters to you.

- **Enhanced design** - Slimmer housing
- **Bluetooth connectivity** - Easy and carefree enjoyment of TV, music, and phone calls
- **Options** - T-Coil, available in 10 colors

NEW Pure® Charge&Go X

The ultimate RIC thanks to Li-ion rechargeability and full connectivity. Enabling you to hear what matters to you.

- **Enhanced design** - 16% smaller, 20% extra Li-ion rechargeable capacity, new rocker switch
- **Bluetooth connectivity** - Easy and carefree enjoyment of TV, music, and phone calls
- **Options** - Available in 10 colors
- **Inductive charger** - Dehumidifies, fits custom molds, and is backwards compatible with all Signia Li-ion inductive charging hearing aids



ALL YOUR PATIENT'S NEEDS, ALL TOGETHER



NEW Signia App

Combines all existing Signia apps into one unified environment for all the patient's needs.

- **All-in-one** - touchControl, myControl, and myHearing App in one
- **Adaptive layout** - Display features dependent on hearing aid model
- **Full functionality** - Remote control, streaming and TeleCare options



An evolution in hearing technology - **YourSound Technology** leverages iconic innovations from our past and for the first time, integrates a **Motion Sensor** for audiological benefit.

binax - Clinically proven better than normal hearing ¹	primax - Clinically proven reduced listening effort ¹²	Nx - Raised first fit acceptance to 80% with Own Voice Processing ²	Xperience - 90% of wearers reported a natural sound experience when in motion ³
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YOURSOUND TECHNOLOGY allows you to **HEAR WHAT MATTERS** to you.

- **ACOUSTIC-MOTION SENSORS**
For a complete analysis of each wearer's dynamic soundscape
- **DYNAMIC SOUNDSCAPE PROCESSING**
For natural sound and speech from any direction, in any situation - even when moving
- **OWN VOICE PROCESSING**
For a natural sounding own voice



Life sounds brilliant.

WE PROVIDE A RAPID FLOW OF ICONIC INNOVATIONS TO HELP HEARING CARE PROFESSIONALS BUILD LOYAL AND LASTING PATIENT RELATIONSHIPS.

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.

- 1 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>
- 2 Høydal, 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.
- 3 Haubold J. (2019) Real-world effectiveness of Signia Xperience Dynamic Soundscape Processing. Unpublished Manuscript.
- 4 Unpublished internal research.
- 5 Froehlich M, Junius D, Branda E. (2017) A Comparison of Signal Quality of Direct Streaming Hearing Aids. *Canadian Audiologist*. 4 (4).
- 6 Picou EM, Ricketts TA. (2013) Efficacy of hearing-aid based telephone strategies for listeners with moderate-to-severe hearing loss. *J Am Acad Audiol*, 24(1):59-70.
- 7 Froehlich M, Branda E, Apel D. (2018). Signia TeleCare facilitates improvements in hearing aid fitting outcomes. *AudiologyOnline*, Article 24096. Retrieved from www.audiologyonline.com
- 8 Branda E, Powers TA, Weber J. (2019) Clinical Comparison of Premier Hearing Aids. *Canadian Audiologist*. 6 (4).
- 9 Chalupper J, Wu Y, Weber J. (2011) New algorithm automatically adjusts directional system for special situations. *Hearing Journal*. 64(1): 26-33.
- 10 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>.
- 11 Folkeard P, Littmann V, Scollie S. (2017) Using a De-reverberation Program to Improve Speech Intelligibility and Reduce Perceived Listening Effort. *Hearing Review*. 24(4):32-33.
- 12 Littmann V, Froehlich M, Beilin J, Branda E, Schaefer PJ. (2016) Clinical Studies Show Advanced Hearing Aid Technology Reduces Listening Effort. *Hearing Review*. 23(4):36.

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HEAR WHAT MATTERS
to you.

pro.signiausa.com

Current hearing technology is limited to a finite number of classifications used to adapt acoustic settings to dynamic situations. Diverse listening environments and unique wearers' needs exceed current classifications, rendering today's technology unable to consider enough variables to see the full picture. This means that existing hearing aids either focus on what is directly in front of the wearer or on the general surroundings, not both, and assume that the wearer is not in motion, missing important sounds that matter as environments change and the wearer moves from one place to another. Hearing aids should know what sounds are important in every situation and adjust sound with each movement.

Signia Xperience

The **NEW Signia Xperience** allows patients to **HEAR WHAT MATTERS** to them. With our innovative **YourSound Technology**, Signia Xperience hearing aids can deliver the most natural and personalized sound in every situation.

YOURSOUND TECHNOLOGY

PRECISE INPUT FROM THE WORLD'S FIRST INTEGRATED **ACOUSTIC-MOTION SENSORS** ALLOWS FOR COMPLETE ANALYSIS OF EACH WEARER'S DYNAMIC SOUNDSCAPE



Motion sensor

- **NEW** Integrated motion sensor detects when the wearer is moving for a more accurate analysis of changing needs



Acoustic sensors

- Redesigned acoustic sensors measure more aspects of sound than ever before, easily surpassing existing classification methods

BASED ON THE ANALYSIS FROM THE ACOUSTIC-MOTION SENSORS, **DYNAMIC SOUNDSCAPE PROCESSING** AND **OWN VOICE PROCESSING** ALLOW WEARERS TO HEAR WHAT MATTERS MOST



- Automatically adjusts to find the optimal balance between sounds in front of and all around the wearer for a personalized listening experience
- Responds to wearer's movements and changes in environment to deliver natural sound and speech from any direction, in any situation
- Binaural processing with Narrow Directionality provides superior speech understanding in background noise¹ - automatically applies when necessary



- The world's first Own Voice Processing for a natural own voice quality, raising first fit acceptance to 80%²



THE RESULT IS A PROVEN, RESPONSIVE SOLUTION THAT CAN ADAPT TO THE WEARER'S CHANGING NEEDS AS THEY MOVE THROUGHOUT THE DAY

- More than 90% of Signia Xperience wearers report a natural sound experience when in motion³
- Signia Xperience wearers show significantly improved ability to understand speech and significantly reduced listening effort when speech comes from the side, both when in motion and when being stationary, compared to current premium hearing aid technology⁴

FEATURE OVERVIEW

YourSound Technology: Redesigned **acoustic sensors** plus an integrated **motion sensor** provide detailed information about the wearer's movement and environment. **Dynamic Soundscape Processing** and **Own Voice Processing (OVP™)** process this information, delivering the most natural and personalized sound.

Dynamic Soundscape Processing: Steers Sound Clarity and Speech Quality features for natural sound and speech in every situation, even when moving.

Own Voice Processing: Utilizes real-time recognition of the wearer's voice to deliver a natural own voice impression. Available for RIC/BTE devices with e2e wireless.

Direct Streaming: Signia streaming technology ratings were significantly higher than the Industry average for the categories of Intelligibility, Quality, and Naturalness of Telephone Conversation.⁵ Connects directly to Apple® devices for phone calls and audio streaming. Android™ devices and the StreamLine™ Mic accessory make streaming easy and hands-free. The StreamLine™ TV accessory transmits high-quality stereo sound directly from the wearer's TV. Available for **Bluetooth®** hearing aids.

TwinPhone: A bilateral delivery can provide a 3-8 dB improvement in perceived loudness, and has been shown to increase speech recognition by >20% when compared to a unilateral delivery of the streamed signal.⁶ Available for bilateral fittings with e2e wireless link.

HD Music: Preset programs for enhanced enjoyment of non-streamed music.

Tinnitus: A choice of tinnitus treatments based on the world's first notch therapy or traditional noise therapy signals. It is even possible to combine the two approaches.

Signia App (iOS® and Android): The new Signia App combines all functionalities of previous apps (touchControl, myControl, myHearing App). The functionality offered in the app is automatically customized depending on the connected hearing aid.

TeleCare™: Provides remote 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.⁷ In addition, the user engagement and autonomy can be increased via the Signia App.

Directionality: Ultra HD e2e processing allows for **Narrow Directionality**, which has been 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.^{1,8}

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.

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.⁹ Available for bilateral fittings with directional microphones and e2e wireless link.

eWindScreen: Reduces the annoyance of wind noise when outdoors. Provides up to 30% improvement in word recognition with eWindScreen binaural activated.¹⁰ Binaural eWindScreen requires e2e wireless link.

Extended Bandwidth: 12 kHz bandwidth for enhanced processing of high frequency speech, music, and environmental sounds.

EchoShield: Dedicated program for reverberant environments. Provides significantly reduced listening effort in reverberant environments, with the majority of individuals obtaining a 10-20% improvement in speech recognition.¹¹

	7X 48/20	5X 32/16	3X 24/12
YourSound Technology: Redesigned acoustic sensors plus an integrated motion sensor provide detailed information about the wearer's movement and environment. Dynamic Soundscape Processing and Own Voice Processing (OVP™) process this information, delivering the most natural and personalized sound.	✓	✓	✓
Dynamic Soundscape Processing: Steers Sound Clarity and Speech Quality features for natural sound and speech in every situation, even when moving.	✓	✓	✓
Own Voice Processing: Utilizes real-time recognition of the wearer's voice to deliver a natural own voice impression. Available for RIC/BTE devices with e2e wireless.	✓	✓	✓
Direct Streaming: Signia streaming technology ratings were significantly higher than the Industry average for the categories of Intelligibility, Quality, and Naturalness of Telephone Conversation. ⁵ Connects directly to Apple® devices for phone calls and audio streaming. Android™ devices and the StreamLine™ Mic accessory make streaming easy and hands-free. The StreamLine™ TV accessory transmits high-quality stereo sound directly from the wearer's TV. Available for Bluetooth® hearing aids.	✓	✓	✓
TwinPhone: A bilateral delivery can provide a 3-8 dB improvement in perceived loudness, and has been shown to increase speech recognition by >20% when compared to a unilateral delivery of the streamed signal. ⁶ Available for bilateral fittings with e2e wireless link.	✓	✓	✓
HD Music: Preset programs for enhanced enjoyment of non-streamed music.	3	3	1
Tinnitus: A choice of tinnitus treatments based on the world's first notch therapy or traditional noise therapy signals. It is even possible to combine the two approaches.	✓	✓	✓
Signia App (iOS® and Android): The new Signia App combines all functionalities of previous apps (touchControl, myControl, myHearing App). The functionality offered in the app is automatically customized depending on the connected hearing aid.	✓	✓	✓
TeleCare™: Provides remote 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. ⁷ In addition, the user engagement and autonomy can be increased via the Signia App.	✓	✓	✓
Directionality: Ultra HD e2e processing allows for Narrow Directionality, which has been 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. ^{1,8}	✓	✓	✓
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.	FRONT BACK RIGHT LEFT	FRONT BACK OMNI	-
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. ⁹ Available for bilateral fittings with directional microphones and e2e wireless link.	FRONT BACK RIGHT LEFT	FRONT BACK OMNI	-
eWindScreen: Reduces the annoyance of wind noise when outdoors. Provides up to 30% improvement in word recognition with eWindScreen binaural activated. ¹⁰ Binaural eWindScreen requires e2e wireless link.	AUTO	MANUAL	-
Extended Bandwidth: 12 kHz bandwidth for enhanced processing of high frequency speech, music, and environmental sounds.	✓	-	-
EchoShield: Dedicated program for reverberant environments. Provides significantly reduced listening effort in reverberant environments, with the majority of individuals obtaining a 10-20% improvement in speech recognition. ¹¹	✓	-	-