

# SIGNIA 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.<sup>3</sup>

**Dynamic Soundscape Processing:** Steers sound quality and speech clarity 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.<sup>6</sup> 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 only.

**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.<sup>7</sup> 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 sound therapy signals. It is even possible to combine the two approaches.

**Signia App (iOS® and Android):** The new Signia App connects patients with Signia Experience Bluetooth hearing aids to the Signia Assistant. The functionality offered in the app is automatically customized depending on the connected hearing aid.

**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.<sup>8</sup> 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.<sup>1,9 \*</sup>

**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.<sup>10</sup> Available for bilateral fittings with directional microphones and e2e wireless link.\*

**eWindScreen Binaural:** Reduces the annoyance of wind noise when outdoors. Provides up to 30% improvement in word recognition with eWindScreen Binaural activated.<sup>11</sup> eWindScreen Binaural 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.<sup>12</sup>

	7X 48/20	5X 32/16	3X 24/12	2X 16/8	1X 16/8
ACOUSTIC + MOTION	ACOUSTIC + MOTION	ACOUSTIC + MOTION	ACOUSTIC + MOTION	ACOUSTIC	ACOUSTIC
✓	✓	✓	✓	✓	✓
✓	✓	✓	-	-	-
✓	✓	✓	✓	✓	✓
✓	✓	✓	-	-	-
3	3	1	1	-	-
✓	✓	✓	✓	-	-
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
BINAURAL AUTO / ADAPTIVE	BINAURAL AUTO / ADAPTIVE	BINAURAL AUTO / ADAPTIVE	BINAURAL AUTO / ADAPTIVE	AUTO / ADAPTIVE	AUTO / ADAPTIVE
FRONT BACK RIGHT LEFT	FRONT BACK RIGHT LEFT	-	-	-	-
FRONT BACK RIGHT LEFT	FRONT BACK OMNI	-	-	-	-
AUTO	MANUAL	-	-	-	-
✓	-	-	-	-	-
✓	-	-	-	-	-



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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.

\* Not available with Silk X at any performance level.

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>

3 Haubold J. (2019) Real-world effectiveness of Signia Xperience Dynamic Soundscape Processing. Unpublished Manuscript.

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

7 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.

8 Froehlich M, Branda E, Apel D. (2018). Signia TeleCare facilitates improvements in hearing aid fitting outcomes. *AudiologyOnline*, Article 24096. Retrieved from [www.audiologyonline.com](http://www.audiologyonline.com)

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

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

11 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>.

12 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.

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