Audibel Hearing Aid Features

**Channels and Bands**

Audibel hearing aids offer between 4 and 16 truly independent channels and bands.

Channels are sections of the frequency spectrum that are processed independently by the hearing aid. For example, a hearing aid with twelve channels will divide the sound into twelve separate sections. Each one of those sections can then be controlled independently from the other eleven. Channels help the hearing aid adapt to various environments automatically.

Bands are used by our hearing specialists to fine tune the hearing aid’s amplification characteristics to precisely match the wearer's loss and preferences.

*Side note: Some manufacturers claim to have hearing aids with 64 channels and bands or other outrageous numbers. These are not independent channels and bands. They show up on a computer screen but cannot be controlled. Basically, they’re hyping up these numbers to make their hearing aids seem better than they are. In reality, having more than 16 channels and bands is needless.*

**Active Noise Control$^2$**

Active Noise Control$^2$ (ANC$^2$) is the second generation of Audibel’s industry-leading noise reduction and speech preservation system.

Typically, the biggest frustration for hearing aid wearers is the ability to hear in noise. Audibel hearing aids with ANC$^2$ can detect and isolate speech waves in noisy environments, delivering unmatched speech clarity. ANC$^2$ helps you focus on the sounds you want to hear by reducing the sounds you don’t.

- **Premium ANC$^2$**
  - Utilizes 16 channels for high resolution processing and the best performance in noise, including up to 20dB of noise reduction.
- **Advanced ANC$^2$**
  - Utilizes 12 channels for successful performance in noise, including up to 8dB of noise reduction.
- **Select ANC$^2$**
  - Utilizes 8 channels for successful performance in noise.
Active Frequency Control (AFC) is Audibel’s new frequency lowering technology. Designed for patients who have steeply sloping, high-frequency hearing loss, AFC enhances real-time audibility by intelligently identifying high-frequency speech cues and replicating them in lower frequencies that the wearer naturally hears well.

Highlights for Audibel’s AFC include:

- It does not limit high-frequency bandwidth like competing technologies.
- It is better able to identify speech sounds with high-frequency components such as “s” while not affecting other already audible speech sounds.
- It can make high-frequency speech cues audible in the presence of dead regions by moving the information rather than over-amplifying, limiting the amount of distortion.

WhistleFree Feedback Cancellation

This industry-leading technology ensures wide fitting ranges and a fast response to more complex feedback. WhistleFree Feedback Cancellation virtually eliminates buzzing and whistling.

Directional Microphones

Directional microphones are extremely useful for hearing in noise. As the name implies, they allow sounds to be amplified from certain directions more than sounds from other directions. For example, hearing aids could be programmed with a restaurant setting that would focus on the speech coming from the people at the wearer’s table rather than the people at the other tables around them.

Tonal and Voice Indicators

Indicators alert the wearer to the status of the hearing aid, low battery, and memory/telephone modes. This can be done with traditional tones or with actual voice prompts in their choice of male or female voices in a wide variety of languages.
**PROGRAMMABLE MEMORIES**

A “memory” is a preset listening program that is stored on the hearing aid’s processor. Audibel hearing aids can have up to 4 memories programmed at once. This allows the wearer to have different settings for different listening environments. For example, a hearing aid could be programmed to have a restaurant setting that is specifically geared to deal with a restaurant atmosphere or a TV setting that is specially designed for watching television. Having multiple memories allows for greater flexibility in hearing aid capabilities.

**HYDRASHIELD²**

Hydrashield² is the second generation of Audibel’s exclusive nano-coating that protects hearing aids from water, wax, sweat, oil, and corrosion making them more reliable and durable than ever before. The combined oleophobic and hydrophobic capabilities of HydraShield² ensure that Audibel hearing aids are virtually impervious to everyday moisture.

Hydrashield² is available on all Receiver – in – Canal products.

HearClear with Hydrashield is available on custom-fit products. This is an innovative moisture protection system that provides unprecedented resistance to wax and water for custom-fit products.

**AUTOMATIC TELEPHONE RESPONSE**

Automatic Telephone Response detects telephone use and automatically switches to a program (or memory) that is optimized for listening on the telephone.

**T² REMOTE**

T² Remote allows the wearer to control their hearing aids using any cell or touch-tone phone. T² Remote can be used for discreet changes to memory settings or volume.

T² Remote is available on custom-fit products only.

**T² ON DEMAND**

T² On Demand allows our hearing specialists to make common, standard adjustments to hearing aids remotely over any touch-tone phone. This saves time and eliminates the need for some trips to the office – an especially useful feature for those who live long distances from our offices.
**ENVIRONMENTAL NOISE CLASSIFICATION**

Another one of Audibel’s industry-leading technologies, Environmental Noise Classification (ENC) is an advanced directional system designed to perform best in highly complex backgrounds of noise. Based on clinical performance measures and patient-proven results, ENC takes directional listening to a new level.

**MUSIC AND TELEVISION PROCESSING**

Music processing offers multiple music genre settings designed to maximize sound quality and listening enjoyment. Television processing is a new memory program designed for optimal performance while watching television.

**LIVE SPEECH MAPPING**

Live Speech Mapping (LSM) verifies hearing aids’ processing of speech, or any live acoustic input, in real time. Demonstrated by a 3D display, this allows wearers to “see” how their hearing aids are listening. LSM is also useful for determining problem areas in the frequency spectrum, making adjustments even more precise.

**WIRELESS TECHNOLOGY**

Wireless is the next BIG thing in hearing aid technology and Audibel is leading the way with innovative products that deliver unprecedented capabilities. Thanks to Audibel’s exclusive IRIS Technology, our wireless hearing aids enable benefits that no other wireless products can match. These features include:

- **SurfLink Accessories Compatibility**
  - By far the biggest advantage of having wireless hearing aids. Check out the “SurfLink Accessories” page on our website to learn more.

- **Synchronized User Controls**
  - A single aid can be programmed to adjust volume or memory for both – eliminating the need to manually change two instruments.

- **Synchronized Telephone Response**
  - Automatically places the phone-side hearing aid to Automatic Telephone Response while reducing the off-side hearing aid for improved focus.

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• **Active Noise Control Boost**
  o Activated via SurfLink Remote or SurfLink Mobile, Active Noise Control Boost allows the wearer to enable aggressive noise reduction while optimizing sound quality in extremely noisy situations.

• **Binaural Spatial Mapping**
  o Delivers real ear-to-ear communication which queries, analyzes, and maps the acoustic space surrounding the wearer and applies an optimized signal processing strategy. In layman terms, the hearing aids both listen to the environment and talk to each other, making automatic adjustments to help the wearer preserve speech. Binaural Spatial Mapping can only be achieved using two hearing aids.