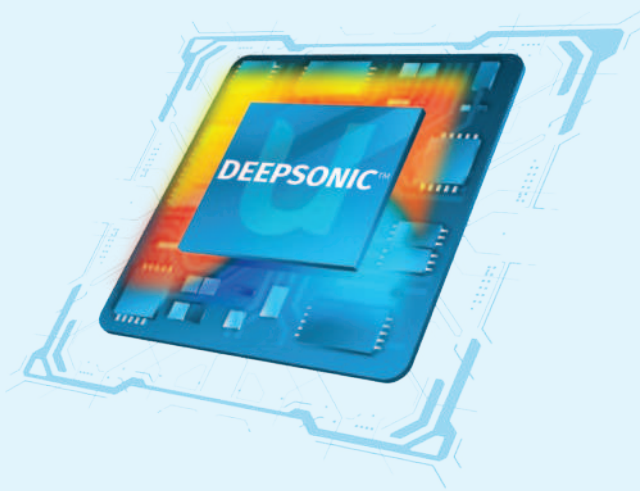


# Bring on the noise. Stay in the conversation.

**DNN**

The kids' playoff game. The group dinner out on the town. The big family party where everyone's got something to say.

Sonova's DEEPSONIC™ chip delivers Deep Neural Network (DNN) technology that helps keep voices clear when distractions are loud and coming from every direction, so you can stay in the middle of it all.



## What is DNN in hearing instruments?

Deep Neural Network (DNN) technology is an advanced form of artificial intelligence (AI) designed to take on complex commands, like signal processing in real-time. Our DNN is trained on huge amounts of sound data to identify the acoustic patterns of human speech and distinguish voices from background noise in real-time. Rather than simply lowering overall sound levels, the DNN is designed to identify speech and deliver clarity in loud environments, even when multiple speakers are present.

## How does it work?

DNN technology uses AI-based processing trained to recognise speech and respond dynamically as sounds shift.

When sound enters the hearing aid, the system:

1. Identifies speech within complex sound environments
2. Separates speech and reduces background noise in real time
3. Maintains clarity as voices shift in number or direction

## At a glance

DNN technology is trained to recognise speech and enhance it within noisy environments—helping separate voices from background sounds so you can stay engaged in the conversation. Even as more voices enter the scene, the system continues to process and filter out noise, so conversations stay clear: if the DNN detects additional speakers, it adds them in, rather than switching focus.

## How is DNN different than traditional noise reduction?

Traditional processing systems primarily use beamforming technology to reduce background noise and focus on speech from one direction. DNN technology goes further, by separating speech from surrounding sounds in real time, from any direction. Speech is then cleaned up before being consolidated with environmental input and delivered to the listener's ears.

**Traditional processing →**  
Reduces background noise



**DNN processing →**  
Identifies, separates, and preserves speech while reducing background noise



## The technology behind DNN

A Deep Neural Network is inspired by how the human brain processes information. Similar to how the brain learns to recognise patterns through experience, a DNN is trained on many examples of speech and background noise so it can recognise the patterns that make speech unique.

Through thousands of hours of training and feedback, the system learns to distinguish speech from competing noise, even when it encounters new listening situations. DEEPSONIC™ is Sonova's DNN chip that powers this processing, allowing the neural network to do the heavy lifting in the most complex listening environments.

At a kids' soccer game, for example, with cheering, whistles and chatter all around, DEEPSONIC gets to work behind the scenes, sorting through the sound in real time, picking out speech and separating it from the noise so you can enjoy conversations with less straining to hear.

## Introducing Moxi™ S-RX

### Unitron's DNN-powered hearing aid

The latest rechargeable RIC powered by the Smile platform, Moxi S-RX delivers advanced clarity in the chaos so speech stays clear, and you can stay tuned in.

- **Deep Neural Network (DNN)** technology for real-time speech separation from noise
- **SoundSonic360** for flexible adjustments to DNN for conversations in loud noise
- **Two Optional App Programs (OAPs)** with a DNN strength slider clients can control
- **Integra OS** for automatic environment classification
- **Universal Bluetooth® connectivity** for calls and media streaming
- **A simplified pairing workflow** for an easy setup experience
- **Remote Plus app** for in-the-moment feedback and changes to device settings

**Cut through the noise when life is at its loudest.** Learn more at:  
[unitron.com/moxis-rx](https://unitron.com/moxis-rx)

Unitron makes life vibrant with amazing hearing solutions designed to make the experience easy. Because everyone deserves to **Love the experience.™**

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**unitron**™ Love the experience

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**U Smile,  
we all Smile**