

Unitron's TrueFit 5.10 Deep Dive

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Key Takeaways

Key Takeaway	Clinical Implication
The DEEPSONIC chip and SoundSonic360 use a dedicated AI/DNN system to separate speech from noise, reducing noise by up to 10 dB SNR.	Clinicians can offer a first-of-its-kind AI noise-separation benefit that goes beyond conventional directional or noise-reduction processing.
Conversation in Loud Noise (SoundSonic360) is now available at both Level 9 and Level 7 technology tiers.	This benefit can be offered across a wider range of price points, not only premium fittings.
NoiseSonic360 and SpeechSonic360 are two new DNN-based manual programs, adjustable via the Remote Plus app AI Noise Filter slider.	Patients gain self-directed control over DNN strength for added support in specific listening situations.
The Motion Detector is enabled by default so SoundSonic360/Conversation in Loud Noise activates only when the listener is stationary in very loud noise.	This targeted activation helps ensure the feature engages in the situations it was designed for, rather than continuously.
The new feedback test in TrueFit 5.10 is 72% faster on Moxi S-RX devices.	Fitting appointments can be streamlined, reducing time spent on verification steps.
TrueFit 5.10 extends EasyGuard dome support (Open, Power, and continued Vented) with the AI dome proposer now recommending EasyGuard domes by default.	Clinicians have more dome/venting options to match acoustic needs, with software guidance built in.

Course Content

Learner Outcomes

Upon the completion of this course, participants will be able to:

- Identify when to adjust signature features in the Unitron TrueFit 5.10 fitting software for optimal patient results
- Implement TrueFit 5.10 software enhancements into their clinical routine when appropriate
- Explain methods to successfully address common sound quality issues using Unitron technology and fitting software

Introducing Moxi S-RX

Moxi S-RX is introduced around three pillars: Easy to hear, Easy to wear, and Easy for you.

Two Really Is Better Than One: The DEEPSONIC Chip

Sonova's newest innovation in sound performance is brought by DEEPSONIC™, described as the world's first dedicated AI chip for all-around speech-from-noise separation.

- The DNN denoising feature, SoundSonic360, can improve speech understanding by reducing noise.
- It distinguishes speech and noise and then reduces the noise by up to 10 dB (up to 10 dB SNR improvement).



Figure 1. The DEEPSONIC chip separates speech from noise and reduces noise by up to 10 dB.

Training the Chip

The DEEPSONIC chip training used a dataset of 22 million sound samples, representing two years of audio data, including variations in gender, age, language, disorders, emotions, and noise. The dataset was split into a training dataset and an evaluation dataset.

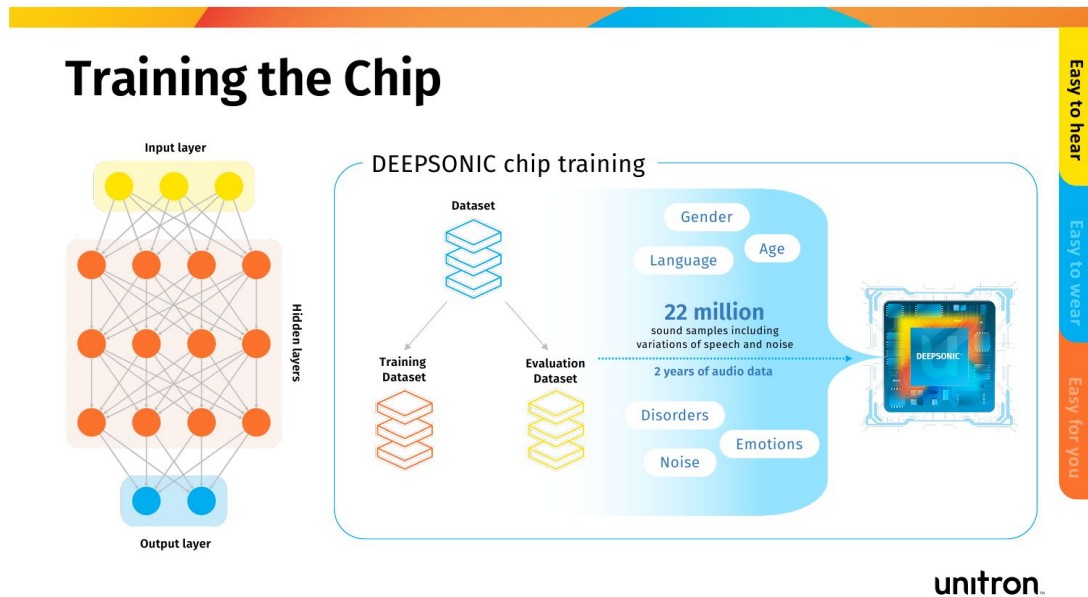


Figure 2. The DEEPSONIC chip was trained on 22 million sound samples across two years of audio data.

Confidence in the Chaos

The Deep Neural Network, SoundSonic360, improves listening in loud noise through a three-step process: it identifies speech, separates speech from noise, and maintains speech clarity in all directions.

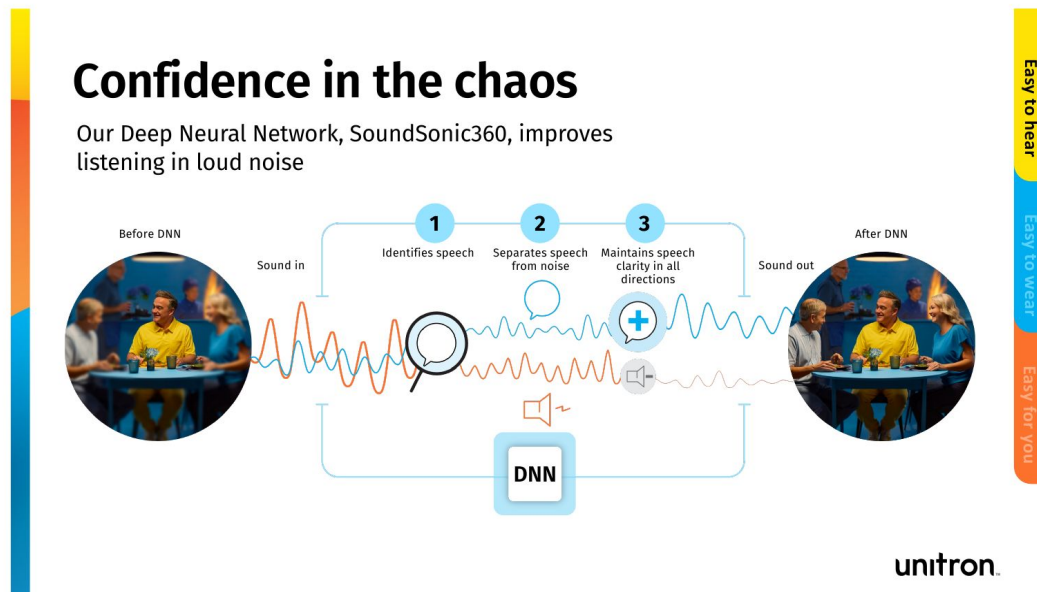


Figure 3. SoundSonic360 identifies speech, separates it from noise, and maintains clarity in all directions.

Making It Easier to Stay in the Game

- SoundSonic360 works within the Conversation in Loud Noise environment.
- Conversation in Loud Noise is activated when: the listener is stationary, and speech occurs in very loud noise.
- Available in monaural fittings – NEW!

Q5

Quiz Hint: Conversation in Loud Noise (and the Motion Detector that supports it) is designed to activate specifically when the listener is stationary and speech occurs in very loud noise — not continuously.

What's in Level 9 and Level 7

Level 9 highlights include SoundSonic360 in Integra OS, AutoFocus 360, HyperFocus as a manual program, and two new manual programs: SpeechSonic360 and NoiseSonic360.

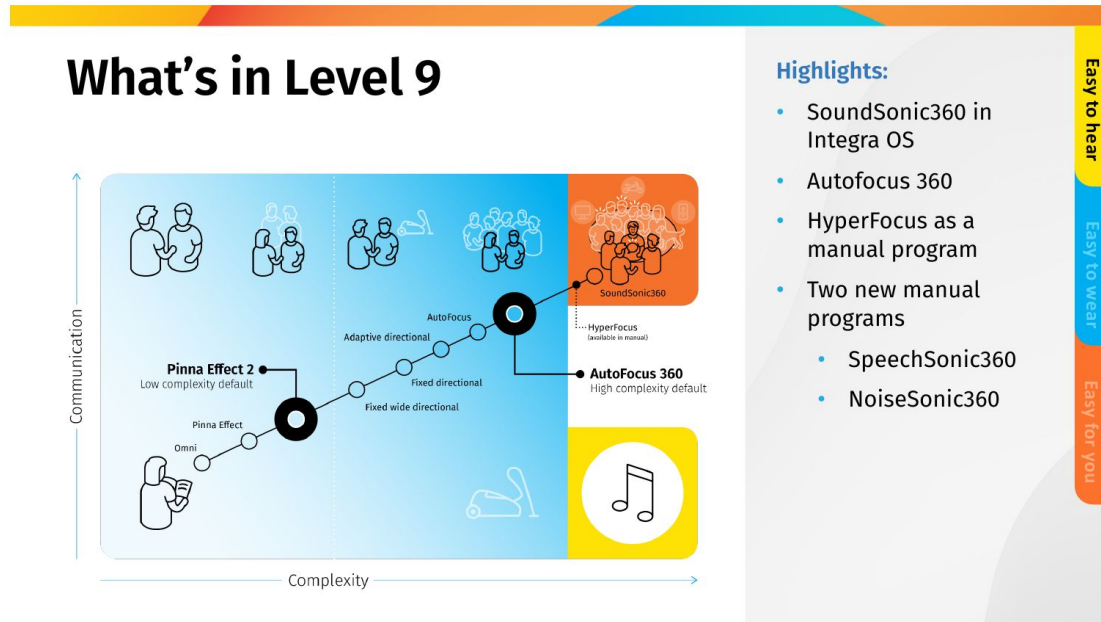


Figure 4. Level 9 technology includes SoundSonic360, AutoFocus 360, HyperFocus, SpeechSonic360, and NoiseSonic360.

Conversation in Loud Noise is now available for Level 7 technology as well. Level 7 highlights include Conversation in Loud Noise in Integra OS, Autofocus, SoundSonic360 in Integra OS at a lower strength, Motion Detector now in Level 7, HyperFocus as a manual program, and the same two new manual programs: SpeechSonic360 and NoiseSonic360.

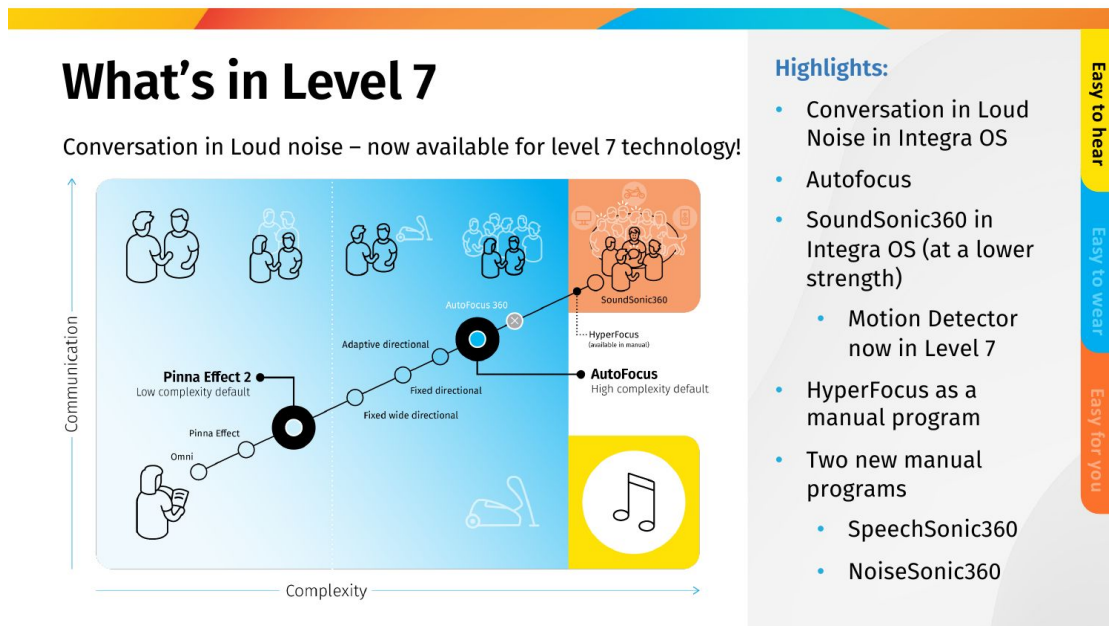


Figure 5. Level 7 technology now includes Conversation in Loud Noise, AutoFocus, and SoundSonic360 at a lower strength.

Q4

Quiz Hint: SoundSonic360 and Conversation in Loud Noise are available across both Level 9 and Level 7 technology in Moxi S-RX, with Level 7 offering SoundSonic360 at a lower strength.

NoiseSonic and SpeechSonic

NoiseSonic and SpeechSonic are two DNN-based Optional App Programs (OAPs). The patient can add these two new programs for added support, and a slider is available to adjust DNN strength — the AI Noise Filter allows for patient adjustments of the DNN.

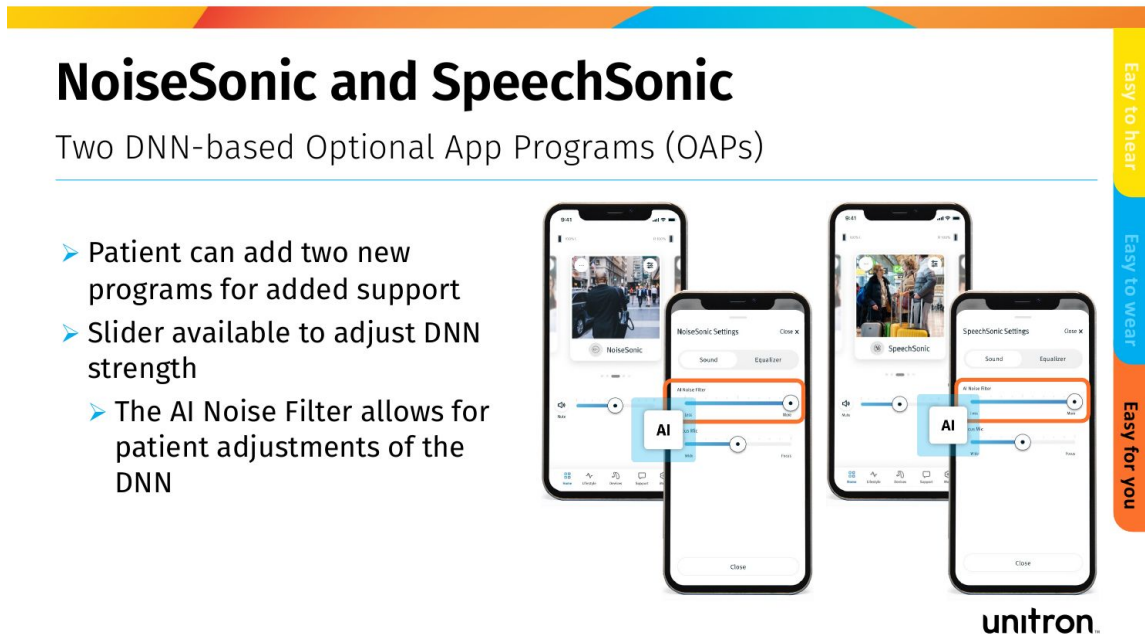


Figure 6. NoiseSonic and SpeechSonic are DNN-based Optional App Programs with an adjustable AI Noise Filter slider.

Q2

Quiz Hint: NoiseSonic360 and SpeechSonic360 are the two DNN-based Optional App Programs patients can add in the Remote Plus app, each with a slider to adjust DNN strength.

TrueFit 5.10 Software Walkthrough

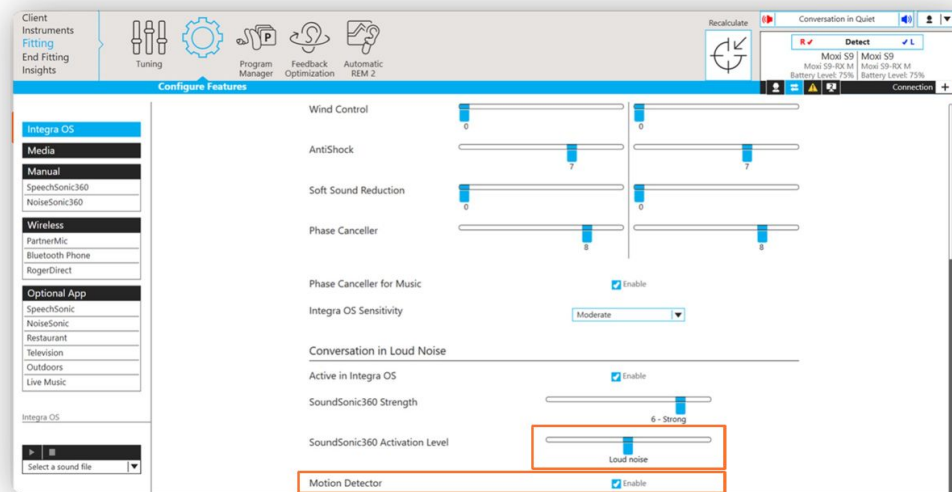
TrueFit 5.10 updates covered in the live software walkthrough include ensuring the TrueFit software is up to date, adjusting SoundSonic360, adjustments to manual DNN programs, and SoundSonic360 adjustments with Remote Adjust.

Ensure your TrueFit software is up to date: software updates can be checked from the File menu under Software Updates.

Adjusting SoundSonic360

Within Configure Features, the Conversation in Loud Noise panel allows the clinician to enable the feature, set the SoundSonic360 Strength, adjust the SoundSonic360 Activation Level, and enable the Motion Detector.

Adjusting SoundSonic360



Easy to hear

Easy to wear

Easy for you

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Figure 7. SoundSonic360 strength and activation settings are adjusted in the Configure Features screen.

Q3

Quiz Hint: SoundSonic360 strength and activation settings are adjusted within the Configure Features section of the TrueFit fitting software.

Adjustments to Manual DNN Programs

For manual programs such as NoiseSonic360, clinicians can adjust Microphone Mode and SoundSonic360 Strength, in addition to standard controls like Wind Control, AntiShock, Soft Sound Reduction, and Phase Canceller.

SoundSonic360 Adjustments with Remote Adjust

Remote Adjust also includes a SoundSonic360 Strength control alongside Dynamic Noise Reduction, Noise Reduction, Speech Enhancement, and Soft Speech settings.

New Feedback Test – 72% Faster

The new feedback test on Moxi S-RX open-dome devices completes markedly faster than on pre-S-RX open-dome devices, shortening the time between the end-of-test signal and the end of the test.

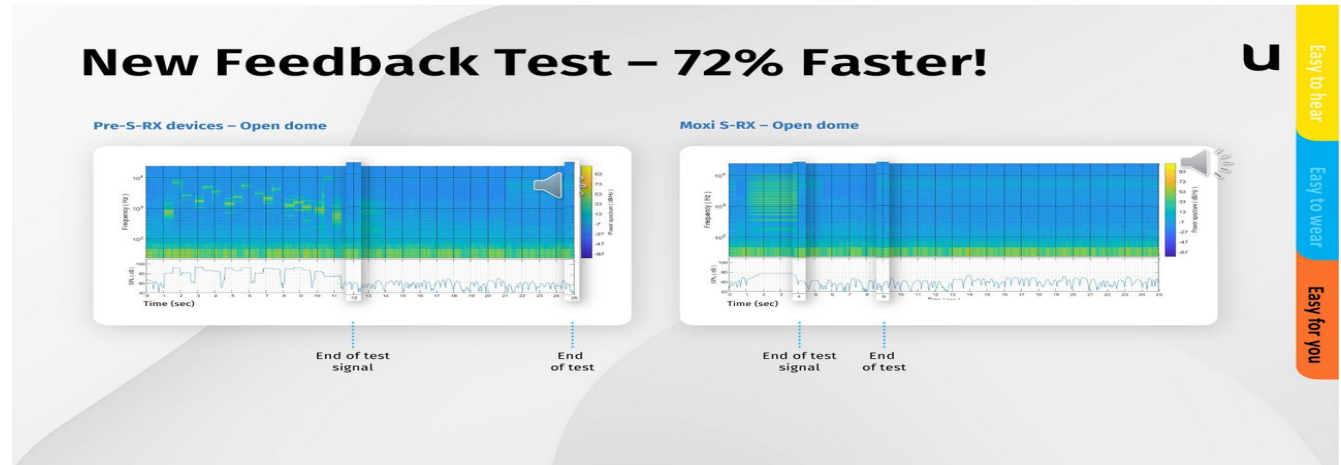


Figure 8. The new feedback test on Moxi S-RX devices completes 72% faster than on pre-S-RX devices.

Tool Tips in TrueFit

TrueFit now surfaces contextual tool tips, such as guidance on Dynamic Noise Reduction: selecting the maximum strength highlights speech from the front by reducing background noise from the side and back, with higher values producing stronger noise reduction.

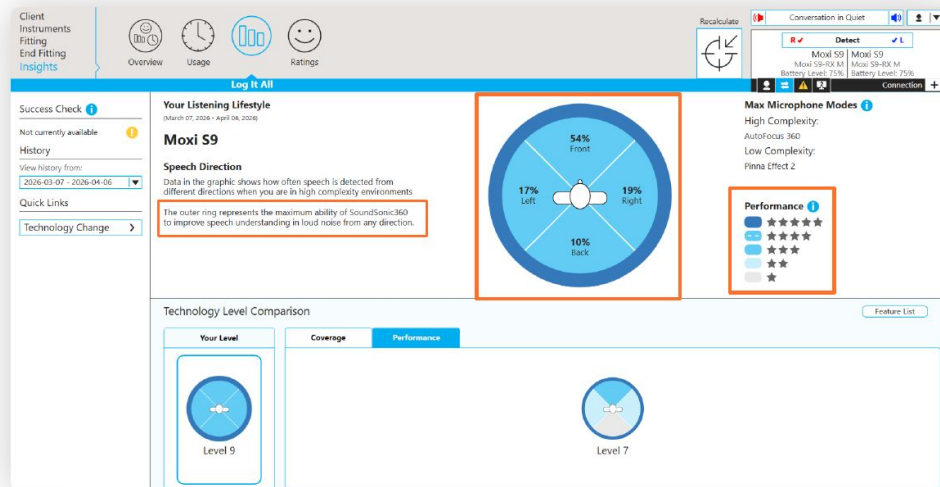
Faster Firmware Updates

Firmware updates are now up to 46% faster, giving clinicians and patients more time for what truly matters.

Enhanced Log It All Performance Screen

The Log It All Performance screen now displays Your Listening Lifestyle with a Speech Direction breakdown (front, left, right, back), Max Microphone Modes, and a Performance star-rating panel, alongside a Technology Level Comparison.

Enhanced Log It All Performance screen



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Figure 9. The enhanced Log It All Performance screen displays Speech Direction and Performance ratings.

Q1

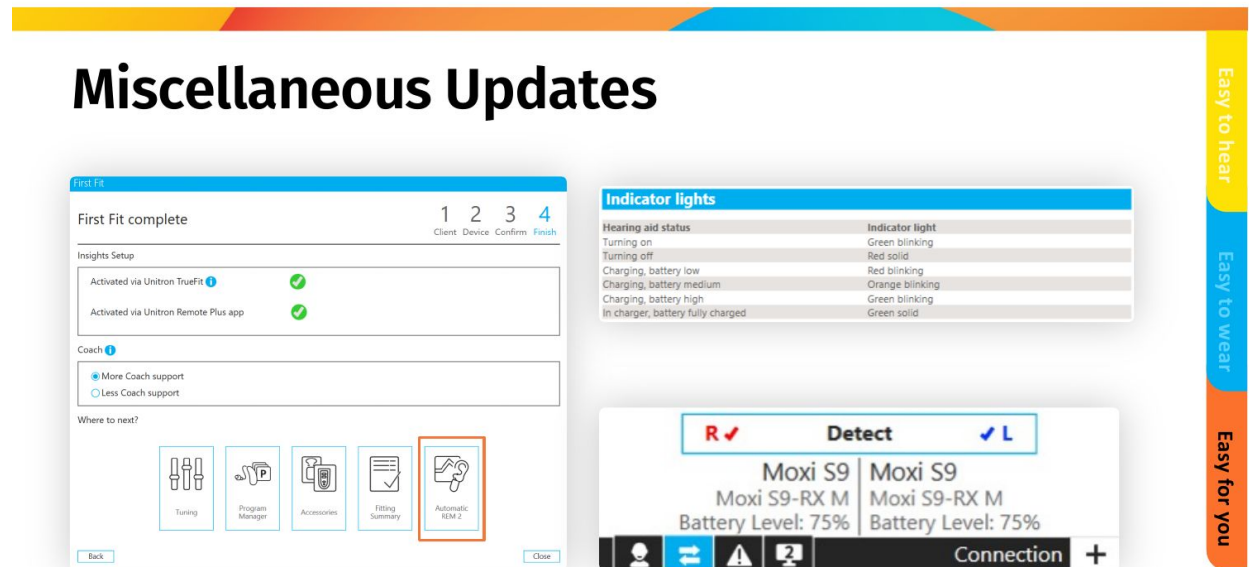
Quiz Hint: The Log It All Performance screen has been enhanced in TrueFit 5.10, now showing Speech Direction, Your Listening Lifestyle, Max Microphone Modes, and Performance star ratings.

Extended EasyGuard Support

- TrueFit 5.10 supports EasyGuard Open and EasyGuard Power domes.
- The AI dome proposer now recommends EasyGuard domes by default.
- Continued support remains for the EasyGuard Vented dome (introduced with TrueFit 5.9).

Miscellaneous Updates

Additional reference updates include the First Fit completion summary (Insights Setup and Coach support options) and an Indicator Lights reference table describing hearing aid status light colors and patterns.



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Figure 10. Reference views for First Fit completion status and hearing aid indicator light patterns.

Transfer Fittings and Upgrades

- Transfer fitting from a non-DNN to a DNN product is not possible due to chip incompatibility.
- FLEX:UPGRADE is available between Level 7 and Level 9 Moxi S-RX products.
 - Because Moxi S-R does not have the DEEPSONIC chip, it is not possible to upgrade a Moxi S-R to Moxi S-RX.

Moxi S-R and Inera™ S-R Firmware Updates

- A firmware update is available for Moxi S-R and Inera S-R in TrueFit 5.10; the user is prompted to update to the new firmware upon detection.
 - The update is optional, but highly recommended.
- Devices will ship with the new firmware beginning in August.
 - Devices with the new firmware will be detectable in TrueFit 5.9; however, FLEX:UPGRADE™ will be unavailable there — TrueFit 5.10 must be used to upgrade devices running the new firmware.

Conclusion

- TrueFit 5.10 centers on the DEEPSONIC chip and SoundSonic360, extending AI-driven speech-from-noise separation across both Level 9 and Level 7 technology.
- New manual programs (NoiseSonic360, SpeechSonic360), a faster feedback test, faster firmware updates, an enhanced Log It All Performance screen, and expanded EasyGuard dome support round out the update.

Interactive Worksheet

Course/Event ID: 42371 **Presenter:** Courtney Smith, M.A., CCC/A

Complete each section below as you work through the course content. Use this worksheet to reinforce key concepts and plan how you'll apply them in your practice.

Module 1: DEEPSONIC and SoundSonic360 Technology

Key Terms — define each in your own words:

Term	Your Definition
DEEPSONIC chip	
SoundSonic360	
Conversation in Loud Noise	

SoundSonic360 distinguishes speech and noise and reduces noise by up to how many dB?
What are the three steps of the DNN process shown in “Confidence in the Chaos”?

Pause & Apply (If-Then): If I have a patient who struggles most in loud, crowded environments while remaining seated (e.g., a restaurant or family gathering), then I will...

Module 2: TrueFit 5.10 Software Updates

Key Terms — define each in your own words:

Term	Your Definition
EasyGuard domes	
NoiseSonic360 / SpeechSonic360	

Fill in the blanks: SoundSonic360 strength is adjusted in the ____ section of TrueFit.
Conversation in Loud Noise is available at Level ____ and Level ____ technology.

--	--	--

Pause & Apply (If-Then): If a patient reports their hearing aids feel “on” all the time when they'd rather adjust noise reduction themselves, then I will...

--

Quick Check

Mark True or False for each statement.

The Motion Detector is enabled by default so SoundSonic360 activates only when the listener is stationary.

☐ True ☐ False

Moxi S-R can be upgraded to Moxi S-RX using FLEX:UPGRADE.

☐ True ☐ False

NoiseSonic360 and SpeechSonic360 strength can be adjusted by the patient via the Remote Plus app.

☐ True ☐ False

Clinical Reference Tool: SoundSonic360 Activation Checklist

Use this checklist during a fitting appointment to confirm Conversation in Loud Noise / SoundSonic360 is configured appropriately for your patient.

Checklist Step	Done
Confirm patient's technology level (Level 7 or Level 9) supports SoundSonic360.	☐
Enable Conversation in Loud Noise in Configure Features, if appropriate for the patient's lifestyle.	☐
Set SoundSonic360 Strength based on patient preference and listening needs.	☐
Set the SoundSonic360 Activation Level appropriate to the patient's typical noise environments.	☐
Confirm the Motion Detector is enabled so activation occurs only when the patient is stationary.	☐
Counsel the patient on NoiseSonic360 / SpeechSonic360 manual programs and the app's AI Noise Filter slider.	☐

This tool is for clinical reference only. Always follow your facility's protocols.

Post-Course Reflection

What was the most significant thing you learned today that surprised you or challenged your existing practice?

What knowledge gaps did this course reveal in your own skills or knowledge?

Describe a specific patient from your own practice where you would apply something from this course:

Action Plan

Identify at least 2 specific, measurable changes you plan to make to your clinical practice as a direct result of this course. Use the If-Then format where possible.

My Action Plan Goal	Target Date	How I Will Measure Success

Quiz Summary

The following quiz hints appeared throughout the course content. Use this section as a quick study reference.

Q1

Quiz Hint: The Log It All Performance screen has been enhanced in TrueFit 5.10, now showing Speech Direction, Your Listening Lifestyle, Max Microphone Modes, and Performance star ratings.

Q2

Quiz Hint: NoiseSonic360 and SpeechSonic360 are the two DNN-based Optional App Programs patients can add in the Remote Plus app, each with a slider to adjust DNN strength.

Q3

Quiz Hint: SoundSonic360 strength and activation settings are adjusted within the Configure Features section of the TrueFit fitting software.

Q4

Quiz Hint: SoundSonic360 and Conversation in Loud Noise are available across both Level 9 and Level 7 technology in Moxi S-RX, with Level 7 offering SoundSonic360 at a lower strength.

Q5

Quiz Hint: Conversation in Loud Noise (and the Motion Detector that supports it) is designed to activate specifically when the listener is stationary and speech occurs in very loud noise — not continuously.

Additional Information

Presenter Bio

Courtney Smith, M.A., CCC/A, Senior Manager of Audiology and Education, is passionate about using her many years of clinical experience to build clinician confidence when fitting Unitron hearing devices. She earned her Master's in Audiology from The University of Iowa in 2003. After 18 years of clinical practice in Las Vegas, NV, she joined the Unitron team in 2022 as the Regional Trainer of the West Region. She now fills the role of Senior Manager of Audiology and Education. Courtney's favorite sound is a standing ovation.

Presenter Disclosure

Financial: Courtney Smith is employed by Unitron.

Non-financial: Courtney Smith has no relevant non-financial relationships to disclose.

Additional Information (continued)

Handout Information

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Social Workers

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- It is the responsibility of course participants to critically evaluate the evidence from multiple sources to guide professional practice.

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