

Introducing Omega AI+: Give Patients a Superhuman Advantage

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Key Takeaways

Key Takeaway	What to Know
Quad DNN architecture	Omega AI+ features Always-on Noise Reduction, Edge Mode, DNN 360, and Dual Compression, with the G4 Gen AI Neuro Processor up to 2.7X faster than the DNN co-processor architecture.
DNN Dual Compression System	An always-on slow compressor maintains sound quality, and a dynamic fast compressor activates automatically for speech clarity. Defaults on in Pro Fit.
DNN 360	Exclusive to Omega AI+ 24, now in customs, and active whenever Adaptive Directionality is selected.
Edge Mode options	Automatic Edge Mode (24 tier, now in non-wireless styles, defaults on) and Always-on Edge Mode (24 tier only, defaults off, requires Automatic Edge Mode on).
One product family	Wireless RIC, wireless custom, and non-wireless custom styles in 24, 20, and 16 technology tiers (IIC NW in tier 24).
StarLink Charger 3.0	LED indicators, turbo charging, a Premium model with an on-board battery, and Ship Mode before first use.
Pro Fit updates	Intelligent Feedback Management, Auto Adjust Preference, REM Target Match data saved with the session, Session Notes toggle, and SCIF Compliance Letter auto-population.
My Starkey updates	Auracast Assistant, DualSync with Android via ASHA, Hearing Aid Left Behind, and Sleep (industry firsts).

Course Content

Learner Outcomes

- Discuss the styles and technology levels of Omega AI+.
- Describe new or enhanced features in Pro Fit.
- Identify the new features in the My Starkey mobile app.

This session provides an overview of the all-new Omega AI+ product family, featuring a complete product lineup, industry-first innovations, and enhancements to My Starkey and Pro Fit.

Introduction: Quad DNN Architecture

Omega AI+ is presented as a breakthrough Quad DNN architecture with four featured technologies:

- Always-on Noise Reduction
- Edge Mode
- DNN 360
- Dual Compression

The theme of the product launch is: better hearing, superior product, and unmatched support.

Sound Quality

G4 Gen AI Neuro Processor

The all-new G4 Gen AI Neuro Processor processes audio up to 2.7X faster than the DNN co-processor architecture.

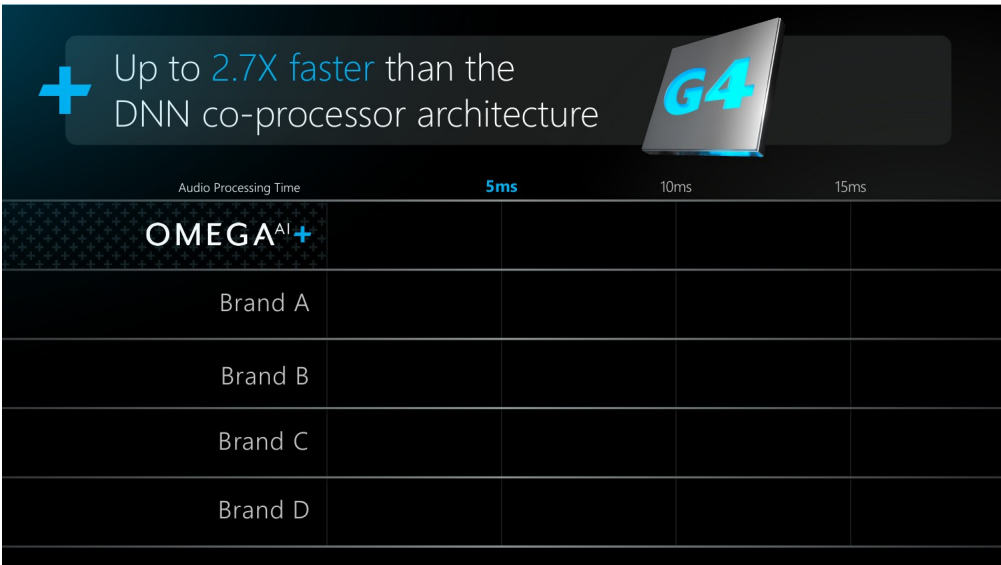


Figure 1. Audio processing time comparison table for Omega AI+ and Brands A through D.

DNN Dual Compression System

The DNN Dual Compression System is the industry's first. It maintains slow compression for sound quality and automatically determines when to activate fast compression for speech clarity. It is exclusive to Omega AI+ wireless products.

- Always on: slow compressor
- Dynamic: fast compressor (activates when speech is detected)

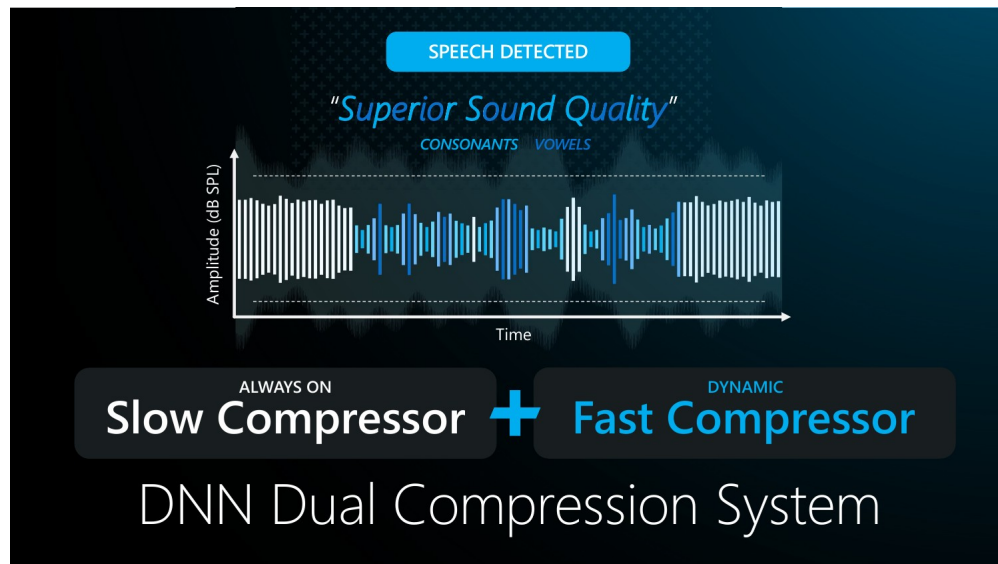


Figure 2. DNN Dual Compression System with always-on slow and dynamic fast compressors.

Q1

Quiz Hint: The DNN Dual Compression System pairs an always-on slow compressor, which maintains sound quality, with a dynamic fast compressor that the system automatically activates when it determines speech clarity is needed.

DNN 360

DNN 360 is exclusive to Omega AI+ 24. It uses three categories of input to drive four outputs:

- Inputs: acoustic information, sensor information, and user intent information.
- Factors analyzed include noise presence, wind presence, loudness information, frequency band information, speech presence, signal-to-noise ratio, motion presence, and intent selection.

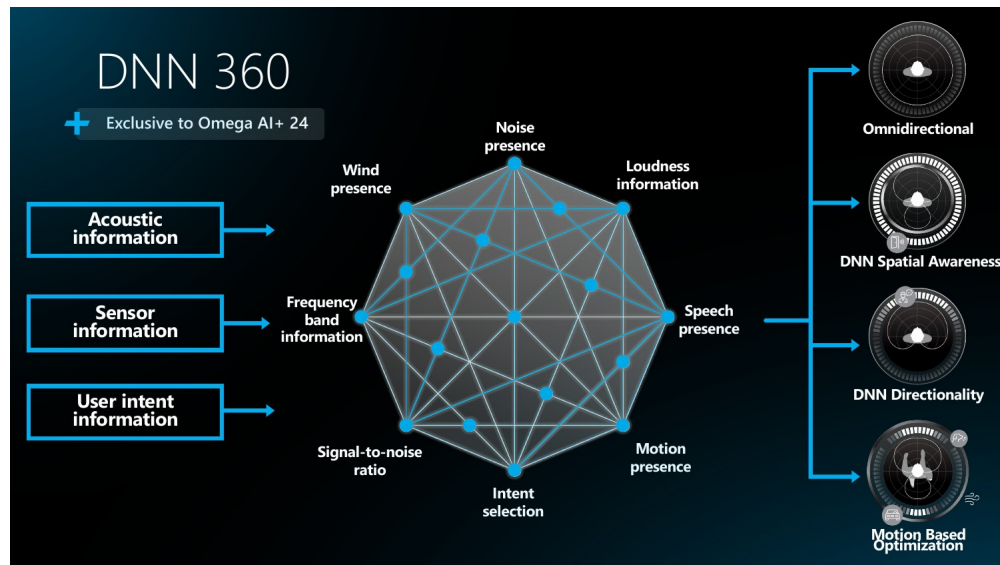


Figure 3. DNN 360 inputs, analysis factors, and four outputs.

DNN 360 Output	Description
Omnidirectional	Captures sounds from all directions equally for a natural, balanced listening experience.
DNN Spatial Awareness	Omnidirectional in low frequencies and fixed directional in high frequencies to maintain speech audibility.
DNN Directionality	Independent adaptive null steering.
Motion Based Optimization	Low frequency: omnidirectional with additional gain for general environmental awareness. High frequency: fixed directional for clear, precise sound localization.

DNN 360 is now in customs, focusing on speech in any direction, even in complex environments, with the only DNN-powered directionality system in customs. It significantly decreases listening effort compared to legacy directionality.

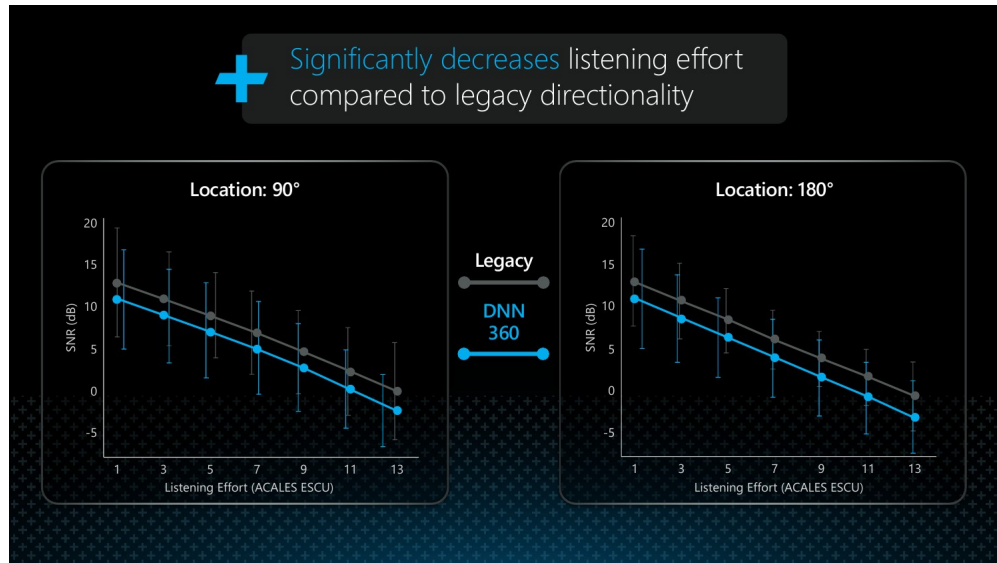


Figure 4. DNN 360 versus legacy directionality at 90 and 180 degrees.

Q2

Quiz Hint: DNN 360 is exclusive to Omega AI+ 24 and is available in the directional 2.4 GHz wireless standard styles and, new with this release, in custom styles.

Edge Mode

Edge Mode is enhanced. Edge Mode Reduce Noise enables even more comfort in noise. Two options expand access to the feature:

- Always-on Edge Mode: powerful, real-time optimization of speech audibility and noise management.
- Automatic Edge Mode for non-wireless customs: automatically rescans as the environment changes.

Edge Mode reduce noise has been shown to significantly improve listening comfort and reduce loudness compared to the Personal program alone, and it significantly outperforms other leading brands with DNN processing. Notably higher SNR is provided by Edge Mode when compared to the Personal program.



Figure 5. Comfort ratings (n=37) for Personal, Best Sound, Enhance Speech, and Reduce Noise.



Figure 6. SNR comparison of Edge Mode reduce noise with other brands.

Always-on Edge Mode

Always-on Edge Mode was provider requested and is exclusive to Omega AI+ 24.

Topic	Details
How it works	The professional toggles on Always-on Edge Mode in Pro Fit. It analyzes and automatically activates when the user wakes up the device, leaves and returns to Program 1, or starts/stops streaming (wireless only).
Good to know	When active, the My Starkey home screen is blue. It uses the Best Sound feature of Edge Mode. Enhance Speech and Reduce Noise are accessible by manually activating Edge Mode from the mobile app. Patients cannot enable this feature from My Starkey.

Topic	Details
Best practice	Not all patients require Always-on Edge Mode. If the patient has previously used Edge Mode and enjoys it, consider engaging it. Assess need at a follow-up visit, after the patient is more comfortable with their hearing experience.

Q3 **Quiz Hint:** Always-on Edge Mode is exclusive to the Omega AI+ 24 technology tier.

Hardware

Automatic Edge Mode in Non-Wireless Customs

Automatic Edge Mode is now available in non-wireless customs. It automatically rescans as the environment changes and is exclusive to Omega AI+ 24. For non-wireless CIC R and IIC styles, the T2 Remote app provides user control to activate Edge Mode.

Q4 **Quiz Hint:** Automatic Edge Mode has been expanded to include the non-wireless custom styles in the 24 technology tier.

One Product Family

The all-new family includes IIC NW, CIC NW, CIC R NW, CIC, ITC R, ITE R, mRIC R, RIC 312, and RIC RT styles.

OMEGA ^{AI+}								
	RIC RT LED	mRIC R LED	RIC 312	ITE R, ITC R	CIC 312	CIC R NW	CIC NW	IIC NW
Technology Tiers/Channels	24, 20, 16	24, 20, 16	24, 20, 16	24, 20, 16	24, 20, 16	24, 20, 16	24, 20, 16	24
Matrix	Up to UP	Up to UP	Up to UP	Up to UP* *Style dependent	Up to UP	Up to UP	Up to UP	Up to M
Battery Type	Rechargeable Lithium-ion	Rechargeable Lithium-ion	312 Battery	Rechargeable Lithium-ion	312 Battery	Rechargeable Lithium-ion	10 Battery 312 Battery	10 Battery
User Control	Rocker Switch	Push Button	Rocker Switch	Push Button, Rotary VC, or Dual	Push Button (Optional)	Push Button	Push Button	Not Applicable
Telecoil	+			ITE R ONLY				
CROS/BICROS	+		+					
Waterproof	+	+		+		+		
App Compatibility	MyStarkey					T ² Remote		

Figure 7. Omega AI+ product family comparison by style.

Category	Key Features
Wireless RIC hearing aids	2.4 GHz radio with LE Audio. LED light: RIC RT and mRIC R. CROS: RIC RT and RIC 312. Telecoil: RIC RT. Waterproof: mRIC R and RIC RT. Technology tiers 24/20/16. Compatible with SnapFit 2.0 receivers, StarLink Charger 2.0/3.0, StarLink Edge wireless accessories, and the My Starkey app.
Wireless custom hearing aids	2.4 GHz radio with LE Audio. Telecoil optional in ITE. 312 battery in CIC. Technology tiers 24/20/16. Compatible with StarLink Charger 2.0/3.0 (ITE R/ITC R coming soon), StarLink Edge wireless accessories, and the My Starkey app.
Non-wireless custom hearing aids	10 battery in CIC NW and IIC NW; 312 battery optional in CIC NW. Tiers 24/20/16 for CIC R and CIC NW; 24 for IIC NW. Compatible with the T2 Remote app and StarLink Charger 2.0/3.0 (CIC R NW coming soon).

Industry-Leading Battery Performance

Style	Battery Performance (based on M receiver)
CIC 312 (wireless)	Up to 8 days
ITC R and ITE R (wireless)	Up to 42 hours
RIC RT (wireless)	Up to 51 hours (29 hours with CROS)
mRIC R (wireless)	Up to 41 hours
RIC 312 (wireless)	Up to 6 days (4 days with CROS)
CIC R NW (non-wireless)	38 hours
CIC NW (non-wireless)	7 days (size 10) or 10 days (size 312)
IIC NW (non-wireless)	7 days

StarLink Charger 3.0

The StarLink Charger 3.0 features a redesigned shape, texture, and intuitively colored LED lights, and is available as a Standard Charger 3.0 and a Premium Charger 3.0.

- LED lights illuminate for two seconds to indicate successful hearing aid placement, blink while the hearing aids are charging, and become solid when fully charged.
- Hearing aids fully charge in 3.5 hours.
- Turbo charging provides approximately 3 hours of use from only 10 minutes of charging.
- The Premium Charger 3.0 charges its on-board battery in under 3.5 hours and can fully charge hearing aids 3X without needing to be connected to a power source.

Ship Mode: prior to first use, the StarLink Charger 3.0 must be plugged into a power source (for example, a wall outlet). To exit Ship Mode, place rechargeable hearing aids in the charger for 3 seconds, then remove them.

StarLink Edge Accessories

Accessories include the StarLink Edge LE Adapter, Table Microphone, Remote Microphone, Remote Control 2.0, and TV Streamer, along with the StarLink Charger 3.0.

Pro Fit Software Updates

The goal for Pro Fit is to get the best fit on the first fit.

Firmware Update

Hearing aids may remain in the patient's ears when doing a firmware update, and the hearing aid microphones remain active.

Dual Compressor, DNN 360, and Edge Mode Settings

Feature	Pro Fit Details
DNN Dual Compressor	Industry first. Defaults on and is recommended for optimal sound quality. Increase or decrease the setting to make consonant sounds more or less pronounced, respectively. Exclusive to Omega AI+ 2.4 GHz wireless hearing aids. All Omega AI+ non-wireless hearing aids use Dual Compressor, found on the Sound Manager screen.
DNN 360	Available in all directional 2.4 GHz wireless standard and custom styles. Active whenever Adaptive Directionality is selected. Exclusive to Omega AI+ 24.
Automatic Edge Mode	Expanded to include non-wireless styles in the 24 technology tier. Continuously samples the acoustic environment and adjusts feature settings in real time as listening conditions change. Found on the User Controls screen. Defaults on.
Always-on Edge Mode	Removes the need to manually activate Edge Mode for listeners who want the feature on all the time. Defaults off. Operates in Program 1 if enabled. Requires Automatic Edge Mode to be on. Exclusive to Omega AI+ 24.

Always-on Edge Mode: moving to a different program or streaming turns Edge Mode off. Navigating back to Program 1 reinitiates Always-on Edge Mode with the optimized setting. Edge Mode Stop/Start is still available with the hearing aid user controls, My Starkey, or StarLink Remote 2.0. A new icon appears adjacent to Program 1 when Always-on Edge Mode is enabled. Fitting tips are located on the User Controls screen and the Data Log screen.

Intelligent Feedback Management

Starkey's new Feedback Management system, exclusive to Omega AI+, is designed to assess fitting-specific information to balance feedback protection and gain behavior, helping deliver greater fitting stability and improved sound quality. It combines Feedback Cancellation, Intelligent Control, and Sound Optimization.

Component	What It Uses or Does
Fitting-specific information	Acoustic vent; audiogram and gain; initialization; hearing aid features/settings.
Personalized optimization	Auto Adjust.

Component	What It Uses or Does
Coordinated feedback management	Gain, mid-frequency management, and FBC settings.

Omega AI+ shows 2.2x lower feedback occurrence at initial fit. The Auto Adjust Preference defaults to enabled to ensure the best start for every fitting.



Figure 8. Ease of resolving feedback for Legacy and Omega AI+ fittings.

REM Target Match

REM Target Match is enhanced. Data is saved to the Pro Fit session, previous aided REM Target Match measurements can be reviewed from within Pro Fit, previous aided measurements can be adjusted, and a new Target Match button is available.

- Saved with the session: found by clicking REM Target Match from any applicable screen in Pro Fit. The date of the most recent measurements is listed between the graphs.
- Review previous measurements: with hearing aids connected, or without them when a previous session is opened.
- Adjust previous measurements: make manual adjustments to previous aided responses with the Adjust button. After changes, use the Start button to run new measurements to verify the adjustments.
- Target Match button: resets soft, average, and loud frequency responses back to target and quickly undoes fine-tuning adjustments.

Real ear system compatibility includes Audioscan Verifit 1 and 2, Otometrics Aurical FreeFit, MedRx Avant REM Speech+, Inventis Maestro Trumpet, and Interacoustics Affinity Compact. Verifit calibration is done on the Verifit system directly, not in REM Target Match.

Session Notes, CROS, SCIF Compliance Letter, and TeleHear Insights

- Session Notes: a new toggle includes hearing aid information when the session is saved to Noah or when exported or copied. Hovering on 'Include Hearing Aid Information' displays what is included. It defaults on.
- CROS: the transmitter is now visible in the Noah session, with the receiver labeled Rx and the transmitter labeled Tx. Applicable for CROS fittings with 2026.1 and forward.

- SCIF Compliance Letter (enhanced): hearing aid information now automatically populates.
- TeleHear Insights (all new, network exclusive): an AI-powered algorithm that helps predict potential issues early, enabling proactive communication to address concerns that might warrant additional counseling, alternative product options, or adjustments.

My Starkey Updates

LE Audio, Auracast, and DualSync

Omega AI+ is engineered for the connected future with LE Audio, which includes Unicast, DualSync, and Auracast.

- Auracast improves accessibility by broadcasting to an unlimited number of nearby devices, offering high-quality, low-latency audio. Users select and tune in to a broadcast from a transmitter.
- Auracast transmitter: television, smartphone, tablet, laptop, PA system, and others. Auracast receiver: headphones, earbuds, hearing aids, and others. Auracast assistant: smartphone, smartwatch, and others.
- Use the My Starkey app on a mobile device to easily connect to an Auracast broadcast.
- DualSync (enhanced) is now compatible with Android streaming via the Android Streaming for Hearing Aids (ASHA) protocol, enabling more phones than ever to benefit from bimodal streaming.

Mobile Apps

Starkey is described as an industry leader in mobile apps, with patient driven controls, caregiver visibility, and patient resources. Pairing Starkey wireless hearing aids with iPhones running iOS 27 involves a minor process change.

Intelligent Reminders and Sleep

- Hearing Aid Left Behind (Industry First, enhanced): notifies the patient when they may have left their hearing aids behind. Exclusive to Omega AI+ 24 and 20.
- Sleep (Industry First): provides a nightly sleep score along with detailed insights on sleep cycles and body position. Exclusive to Omega AI+ 24, U.S. only.
- The sleep index calculation is based on the Pittsburgh Sleep Quality Index (PSQI). Sleep data shows time spent in one of three stages (awake, light sleep, or deep sleep), and body movements show time spent on the back, left side, or right side.

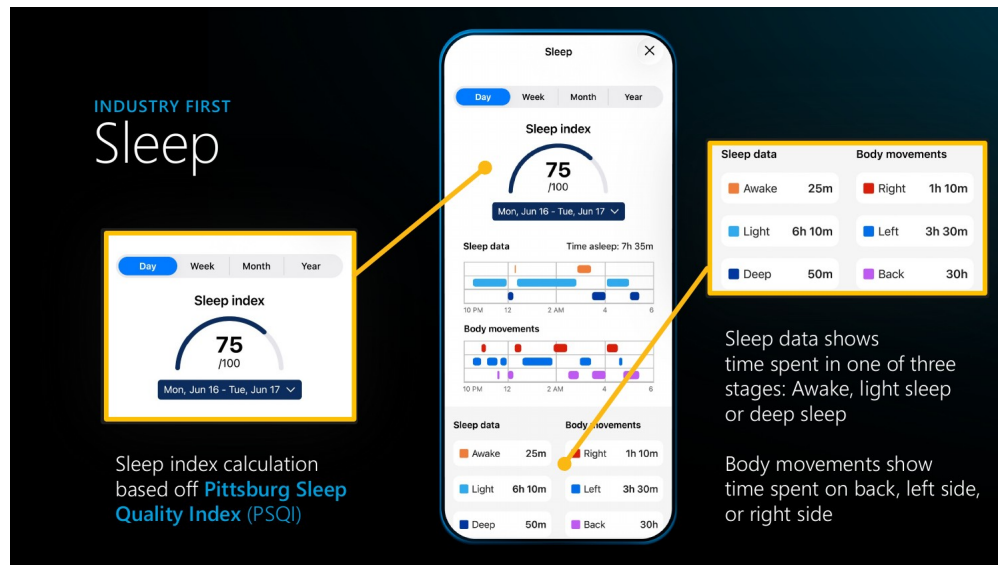


Figure 9. My Starkey Sleep screen showing sleep index, sleep data, and body movements.

Q5

Quiz Hint: Two industry-first features in the My Starkey app are Hearing Aid Left Behind (an Intelligent Reminder) and Sleep, which provides a nightly sleep score.

T2 Remote

The T2 Remote provides invisible control for invisible devices. It has been updated to use high frequency tone detection for ultra-discreet and accurate adjustments, and it makes it easy to enable Automatic Edge Mode on compatible non-wireless products.

Edge Mode Access	How It Is Activated
Automatic Edge Mode (Omega AI+ 24 tier only)	Activated through T2 app controls.
Always-on Edge Mode	Must be enabled via Pro Fit.
Edge Mode (Omega AI+ 20 and 16 tier only)	Edge Mode access for the 20 and 16 tiers.

Closing

Conclusion

- Quad DNN-powered sound
- Intelligent Feedback Management
- Seamless connectivity with Auracast
- Intelligent health and wellness
- Intuitive charging
- Up to 51 hours of battery life, all with over a 99% on-time delivery rate

Interactive Worksheet

Introducing Omega AI+: Give Patients a Superhuman Advantage

Presenter: Amanda Wolfe, AuD, CCC-A, Starkey

Course/Event ID: 42509 Profession: Audiology

Date:

How to Use This Worksheet

- Click any gray response box to type your answer. Responses stay in the document when you save it.
- Checkboxes are best completed in desktop Word. Word Online support for clicking checkboxes is inconsistent.

Learning Objectives

1. Discuss the styles and technology levels of Omega AI+.
2. Describe new or enhanced features in Pro Fit.
3. Identify the new features in the My Starkey mobile app.

Module 1: Sound Quality (Objective 1)

Key Terms

In your own words, define each term.

Key Term	My Definition
DNN Dual Compression System	
DNN 360	
Edge Mode Reduce Noise	
Always-on Edge Mode	

Quick Check

1. Always-on Edge Mode is available in all Omega AI+ technology tiers.

☐ True ☐ False

2. The DNN Dual Compression System keeps slow compression always on and activates fast compression when speech is detected.

☐ True ☐ False

Pause and Apply

If a patient who has used Edge Mode before and enjoys it asks about it, then I will...

Module 2: Hardware (Objective 1)

Matching Exercise: StarLink Charger 3.0

Write the letter of the matching description in the blank next to each term.

Letter	Term	Definitions (choose the matching letter)
	1. Turbo charging	A. Charger must be plugged into a power source before first use
	2. Ship Mode	B. Can fully charge hearing aids 3X without a power source
	3. Premium Charger 3.0	C. LED lights blink while charging, then become solid when fully charged
	4. Charging LED lights	D. Approximately 3 hours of use from only 10 minutes of charging

Window Pane Summary: Wireless and Non-Wireless Customs

Complete each box using what you learned about the three product categories.

Topic	Battery type(s)	Compatible app or accessories
Wireless RIC		
Wireless custom		
Non-wireless custom		

Pause and Apply

If a patient with a non-wireless custom hearing aid wants to use Edge Mode, then I will...

Module 3: Pro Fit Software Updates (Objective 2)

Sequencing: REM Target Match Process

Number these steps in the order shown in the course process, 1 through 6.

Step Number	Step
	Start
	Aided Manual Adjust
	View REM Target Match Measurements
	Calibration (done directly on the Verifit system if using Verifit)
	Adjust
	Setup

Quick Check

3. Which statements about Always-on Edge Mode in Pro Fit are correct? Select the best answer.

☐ A. It defaults on and does not require Automatic Edge Mode.

☐ B. It defaults off, operates in Program 1, and requires Automatic Edge Mode to be on.

☐ C. Patients can enable it from My Starkey.

Pause and Apply

If I am fitting a patient with Omega AI+ and want to protect against feedback at the initial fit, then I will...

Clinical Reference Tool: Edge Mode Options

Complete the table from the course content.

Option	Technology tier(s) and styles	Default and how it is enabled
Automatic Edge Mode		
Always-on Edge Mode		
Edge Mode (20 and 16 tiers)		

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

Module 4: My Starkey Updates (Objective 3)

Window Pane Summary: New My Starkey Features

Complete each box using what you learned about these features.

Topic	What it does	Technology tier(s) or limits
Auracast Assistant		
DualSync		
Hearing Aid Left Behind		
Sleep		

Quick Check

4. Which are the two industry-first My Starkey features highlighted in this course?

☐ A. Hearing Aid Left Behind and Sleep

☐ B. Auracast Assistant and DualSync

☐ C. T2 Remote and Firmware Update

5. Sleep is available in all technology tiers and in all countries.

☐ True ☐ False

Pause and Apply

If a caregiver asks how they can stay informed about a patient's hearing aids, then I will...

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:

What is one thing you will do differently in your practice next week as a result of 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: 'If I encounter [situation X], then I will [action Y].' This is more useful than 'I will improve my practice.'

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 DNN Dual Compression System pairs an always-on slow compressor, which maintains sound quality, with a dynamic fast compressor that the system automatically activates when it determines speech clarity is needed.

Q2

Quiz Hint: DNN 360 is exclusive to Omega AI+ 24 and is available in the directional 2.4 GHz wireless standard styles and, new with this release, in custom styles.

Q3

Quiz Hint: Always-on Edge Mode is exclusive to the Omega AI+ 24 technology tier.

Q4

Quiz Hint: Automatic Edge Mode has been expanded to include the non-wireless custom styles in the 24 technology tier.

Q5

Quiz Hint: Two industry-first features in the My Starkey app are Hearing Aid Left Behind (an Intelligent Reminder) and Sleep, which provides a nightly sleep score.

Additional Information

Presenter Bio

Amanda Wolfe - Education & Training Audiologist

Amanda Wolfe joined Starkey in 2011 as a research audiologist in the Research & Development Department where she conducted clinical trials on emerging technology. In 2020, she joined the Education & Training Department where she is responsible for developing educational materials and leading training classes for Starkey staff and customers. Dr. Wolfe received her Au.D. in 2011 from the University of Nebraska-Lincoln.

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Presenter Disclosure

Amanda Wolfe is employed by Starkey Hearing and has no relevant non-financial relationships to disclose.

This learning event focuses on Starkey products and services and will not include info on other products or services.

Additional Information (continued)

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- Healthcare providers should apply cultural competence and sensitivity to ensure effective and respectful care based on their patients' diverse needs.
- Providers should always evaluate the limitations of diagnostic and screening tools, considering their potential for false results as well as any ethical implications.
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