

Welcome!
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Manager of Education and Audiology

Best option for audio is to call in using Phone Number: 02 8518 1923 Access Code: 802 832 511
For technical questions or log-in information please contact Dan Towns Direct line: 02 8823 9005 Dan_towns@Starkey.com.au



Housekeeping

Webinar Experience

If not using speakers and you haven't already, please call into the call center number 02 8518 1923 and enter access code 802 832 511

Please be sure to keep microphones muted

If you have any questions, please type them in the chat box. You can view the chat box by clicking the chat bubble at the bottom of your screen

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Endorsed Session

This Session is endorsed for ACAud, AudA and HAASA points

You must stay logged on for the full session

AudA members must complete a 10 questions quiz with a passing score of 70% as well as your CPD Reflections and Evaluations

ACAud, HAASA and NZAS members must complete the quiz to receive full points.



Housekeeping

Learning Objectives

Identify the noise management features accessed within the Sound Manager screen of the Inspire programming software

Identify what microphone modalities are available for Livio AI and Livio devices

Describe how to successfully fit and fine-tune Starkey's frequency lowering feature $\frac{1}{\sqrt{2}}$



Mastering Advanced Features

Judy Grobstein, AuD-FAAA, MACAudManager of Education and Audiology



Agenda



Frequency Lowering Stream Boost





















The Heart of Starkey Sound Quality

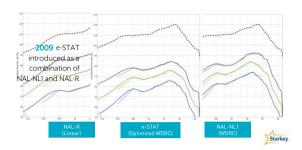
Multicore Twin Compressors and eSTAT Starkey's Proprietary Fitting Formula

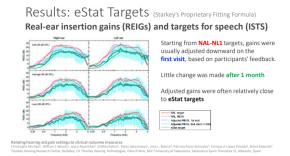


eSTAT: Starkey's Proprietary Fitting Formula











Comfort and Personalization Redefined

Twin Compression Architecture

Utilizes wide dynamic range for a fuller perception of loudness and natural sound quality & unique music approach

Feedback Cancellation

Automatically applies personalized sensitivity settings and auto gain adjust for a feedback-free start with reduced artifacts and distortion

Comprehensive Sound Manager

Hearing Reality seamlessly categorizes complex listening situations to enhance and adapt in all environments

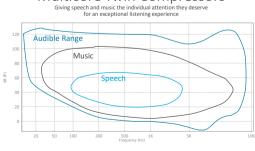


Speech Optimization

- Starkey WDRC compression system gain changes track speech input smoothly, quickly and accurately
- Allows for precise, intuitive management of speech by allowing discrete gain adjustments
 Per channel changes to soft, moderate and loud speech inputs
- Compression Ratios change based on the gain required at each frequency and input level



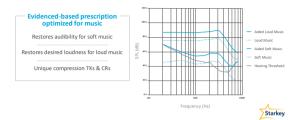
Multicore Twin Compressors



Music is Important 50 40 30

20 10 Categories of Judged Importance of Music 0 = not at all 5 = very Starkey

Proprietary Fitting Formula







Hearing Reality

Continuous optimization of audibility, intelligibility, comfort and sound



Sound Enhancement







Sound Enhancement



Speech in Loud Noise

Quiet

Reduces listening effort Improves clarity and preserves spatial cues

oise Increase

Speech in Noise

Ultra fast processing to instantly track and filter noise even between the syllables of speech

- Active 100% of the time
- Makes very quick decisions over a wide range of input levels
- Recognizes speech vs. noise patterns





Inspire Settings for Speech in Noise



1 = up to 6 dB 2 = up to 8 dB 3 = up to 10dB 4 = up to 20 dB

Spatial Speech Enhancement Reduces steady-state and dynamic background noise Reduces interfering sounds from the sides Preserves interaural level differences for localization



Inspire Settings for Speech in Loud Noise



Quiet

Enhancing expansion with our patented fast-acting noise management, **Quiet** makes hearing aids quieter in low level environments than what is possible with Expansion alone.



Inspire Settings for Quiet



1 = Minimum
2 = Moderate
3 = Strong
4 = Maximum

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Situational Sound Management







Situational Sound Management

Transients

Increases listener comfort

Reduces sound of ulence over microphone Increases listener comfort

Wind

Machine Noise Increases listening comfort

Optimizes environmental music without compromising speech Enhances perception of music

Auto Music

Transient Noise Reduction

Improves comfort for loud, transient sounds

Quickly attenuates brief, loud sounds

No distortion of other

environmental or speech sounds

Preserves natural sound quality





Transient Noise Reduction

Preferred (vs. off) to better tolerate hammer and cutlery transient sounds





Starkey.

Wind

Designed to keep patients comfortable in windy environments



Starkey.

Machine Noise

Designed to deliver comfort for loud steady state noise





Auto Music

Designed to automatically deliver an optimized sound quality of music when it is the primary signal



Situational Sound Management





Directionality





Directionality

Improves speech understanding in noise
Optimizes speech in noise







Directionality





Directionality



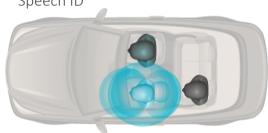


Directionality





Speech ID















Directionality



Maximum Noise Management

Maximum Gain Adaptation				
	Speech and Noise 85 dB SPL		nality Plus BB SPL	
2400 2000	20 dB 8 dB	2400 2000	20 dB 15 dB	
1600	6 dB	1600	10 dB	

Whenever, wherever, patient needs it

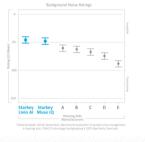
Maximum Noise Management





Whenever, wherever, patient needs it







Frequency Lowering



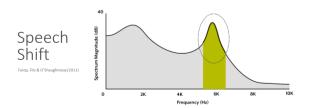
Speech Shift

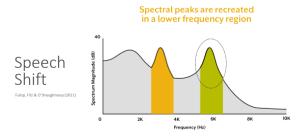
- Smart Candidacy Criteria
- Maintains broad bandwidth
- Preserves harmonic structure to minimize distortion
- Active only for high frequency speech sounds



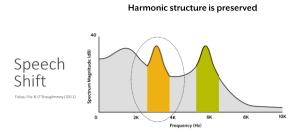


High frequency spectral energy is detected

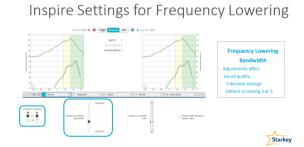


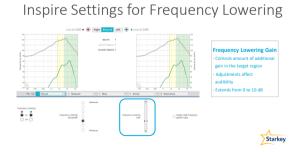


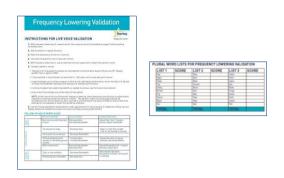
Original speech signal and broad bandwidth is maintained Speech Shift Fulgs, Fiz & O'Shaughnessy (2011)



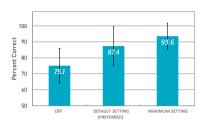
Smart Candidacy Criteria Slope of 25dB per octave All 55dBHL or better Any 55dBHL or worse All 55dBHL or worse







Average S-Test Results







Wireless Connectivity and Streaming





Dual Radio

2.4 GHz + NFMI

Ear-to-Ear data and audio communication

Reliable direct connectivity to phones and accessories

Dual-Radio Wireless Technology

The Best of Both Wireless Worlds

- Neer Field Magnetic Induction

 * Highly relables over short distances (approx. 20 cm)

 Eart-to-ear DATA and AUDIO communication

 Eart-to-ear DATA and COORDING

 Eart-to-ear User Controls

 Binsuard detection and coordinat of Wind, Noise, Music, and Directionality features

 Of Wind, Noise, Music, and Directionality features

 Spatial Speech Enhancement

 CROS System functionality

2.4 GHz

Ear-to-Ear DATA communication
 Ear-to-Ear User Controls
 Binaural detection and coord of Wind, Noise, Music, and Directionality features

··· Micro RIC 312 only



Direct Streaming Protocols

Low Energy Audio (LEA)

- Apple's proprietary streaming protocol
 Allows direct streaming between Livio AI and Livio devices
- Works in conjunction with Bluetooth Low Energy for pairing and data sharing



Wireless Technology With a new Android Streaming for Hearing Aids (ASHA) wireless protocol, we are able to STREAM DIRECTLY from select Android phones*.



Stream phone calls, music and more, directly from Android* smartphones



*Currently compatible with Google Pixel 3 and 4 smartphones with Android 10 operating system.



Patient-Focused Accessories

Livio AI Offers Amazon Echo Connectivity







Stream Boost

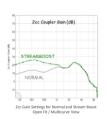
- Activates hearing aid settings optimized for high-quality streamed audio
- Stream Boost settings are automatically applied whenever streaming starts with no interaction required by the patient
- When streaming stops, the hearing aids revert to previous settings



Starkey

Stream Boost Memory

To compensate for vent loss with streamed audio, lowand mid-frequency gain is automatically increased for vented and open canal fittings when the Stream Boost is active.

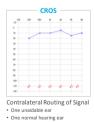


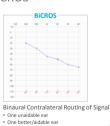


CROS System



CROS/BiCROS





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Wireless CROS System



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CROS Fitting Considerations

Memories: CROS modes can still be set on a per-memory basis in compatible memories.

CROS Streaming:
The CROS stream is active in any
CROS or BiCROS memory during the
fitting session.





CROS User Balance Control





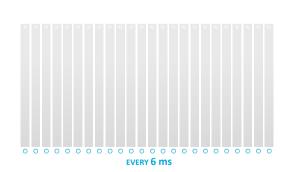




























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Sunday 3 May 2020 6:00pm - 9:00pm



Your Starkey team



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Endorsement Points

ACAud Endorsed: 202005 (2 CEP points) AudA Endorsed: CPD1920 048 (Category 1.2) (1 CPD point) HAASA Endorsed: CPED2018-2020 (2020-004) (1.5 CPED points)





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