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## Learning Outcomes

- 1

Will be able to identify the key differences between our current Amaze product portfolio and our new Amaze product portfolio.
- 2

Will be able to list three benefits of our Amaze products.
- 3

Will be able to identify the key differences between our current and new super-power portfolio.
- 4

Will be able to list three benefits of our new Boost Ultra.

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	RIE	Custom Products	BTE & Super Power
Premier	Amaze 17	Amaze 17	Amaze 17 Boost Ultra 17
Advantage	Amaze 9	Amaze 9	Amaze 9 Boost Ultra 9
Quality	Amaze 6	Amaze 6	Amaze 6 Boost Ultra 6
	Ally 3	Ally 3	Ally 3
Budget	Origin 3 64D	Ally 2 Origin 2	Ally 2* Bold 2, 3 Origin 2

 Available with 2.4 GHz Direct Wireless Accessories  
 Direct connection to iPhone, iPad, and iPad (MFi)  
 and select Android devices running OS 10 and BLE 5.0

 Available with 2.4 GHz Direct Wireless Accessories  
 No MFi \*Remote Control Only

 No 2.4 GHz  
 No MFi

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# Amaze 63

- Rechargeable model
- No battery door or outer contact point
- LED light
- Multi-functional program button
- No telecoil / DAI
- Compatible with myPAL Pro





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## New Amaze 63 Mini RIE

- Cosmetic very appealing with low visibility on the ear (312 battery)
- 4 receivers (LP, MP, HP, UP) and 3 technology levels (17, 9, 6)
- Multi-functional program button
- No telecoil / DAI
- Compatible with myPAL Pro



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## Updated Amaze 64

- 13 battery
- Multifunction toggle button
- Now with telecoil / DAI



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## Beltone Amaze Customs

An excellent sound experience from a discreet custom-made design.



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### ITE (now with t-coil option)

In The Ear

Battery	312, 13
Receivers	MP, HP, UP
Wireless	✓
Dual mics	✓
e2e	✓
Push button*	✓
Volume Control*	✓
Telecoil*	✓

- New Options:
- CrossLink Directionality II w/ Personal Sound ID

\* Optional

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### MIH (now with t-coil option)

Mic in Helix

Battery	312 or 13
Receivers	MP, HP, UP
Wireless	✓
Dual mics	✗
e2e	✓
Push button*	✓
Volume Control*	✓
Telecoil*	✓

- Note:
- No size 10A battery option

\* Optional

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### ITC (now with t-coil option)

In The Canal

Battery	312
Receivers	LP, MP, HP, UP
Wireless	✓
Dual mics	✓
e2e	✗
Push button*	✓
Volume Control*	✓
Telecoil*+	✓

- New Options:
- Directional Mic Only

\* Optional  
+ Telecoil not available with LP receiver

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# World's First 2.4 GHz CIC

New Pull-Out Antenna



Increased Efficiency of New Chipset



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# CIC

Completely in Canal

Battery	10A
Receivers	LP, MP, HP, UP
Wireless	✓
Dual mics	✗
e2e	✓
Push button*	✓
Volume Control*	✗
Telecoil*	✗

- New Options:
  - 2.4 GHz
  - Ear to Ear Functionality
  - Made For iPhone
  - Remote Fine Tuning
- Note:
  - Push Button Only
  - Single Microphone

\* Optional



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# New Beltone Amaze BTEs



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### Amaze 66

- Mini BTE
- Multifunctional program button
- Telecoil
- Available with standard hook or thin-tube

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### Amaze 76

- Standard BTE
- Multifunctional toggle and push button allows for separate program and volume control
- Telecoil / DAI
- Available with standard hook or thin-tube

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### Amaze 86

- High Power BTE
- Multifunctional toggle and push button allows for separate program and volume control
- Telecoil / DAI

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## Benefits of Telecoil Systems

- Tele-loop systems are widely used in cinemas, theatres, places of worship, and schools.
- Hearing-aid compatible phones use telecoils to connect to hearing aids.



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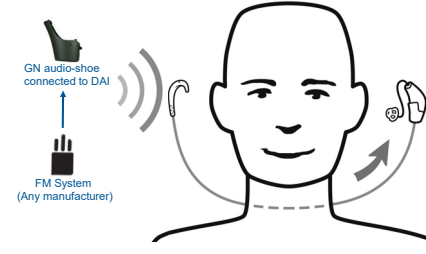
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## Benefits of Direct Audio Input (DAI)



- Direct Audio Input (DAI) allows direct connection to external audio sources.
- FM systems (Schools/Colleges)
- CROS/BICROS



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## BTE Benefits

- Easier to handle for users with dexterity issues
- Comfort and venting with earmold
- Telecoil & Direct Audio Input
- IP 68 Rating
- Broad fitting range (Mild–Severe hearing losses)
- High bandwidth and input dynamic range
- Customized hearing solution with the HearMax App
- Beltone Remote Care
- Direct Apple and Android streaming
- Access to the complete Beltone ecosystem



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## Beltone Amaze Complete Family



	CIC	ITC	ITE	MH	Rechargeable 63 PHE	Mini 63 PHE	Std 64 PHE	Mini 66 BTE	Std 70 BTE	Power 86 BTE
Telecoil (optional for custom)		✓	✓	✓			✓	✓	✓	✓
Direct Audio Input							✓		✓	✓
Rechargeability					✓					

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## Introducing Beltone Boost Ultra

 Beltone University

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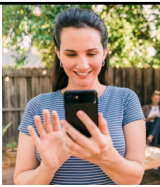
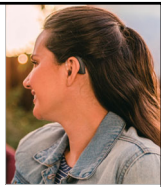


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## Characteristics

- Dependent on amplification.
- Need and use amplification at all times.
- Majority have prior experience with amplification and know how they want it programmed.

 Beltone

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## 86 High Power



- Metal earhook for increased gain
- Size 13 battery
- Multifunctional toggle and push button
- Telecoil
- Direct Audio Input



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## 95 Super Power



- Size 675 battery
- Multifunctional toggle and push button
- Telecoil
- Direct Audio Input



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## The engine of Beltona Boost Ultra

The heart of an industry-leading solution.



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## Beltone Boost Ultra – Flexibility in Beltone Solus Max™



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## Additional Compression Options

- Compression Options
  - Linear
  - Semi-Linear
  - WDRC
- Adjustable by ear and program

The screenshot shows the Beltone Solus Max interface with the following settings:

- Handles: 0
- Compression: WDRC (selected)
- Calibrate MSG
- Pair Accessories

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## Compression Mode Recommendations

The screenshot shows the Beltone Solus Max interface with the following settings:

- Linear: Handles: 0, Compression: Linear
- Semi-Linear: Handles: 0, Compression: Semi-Linear
- WDRC: Handles: 0, Compression: WDRC

**Recommendation:**  
Previous users of linear amplification

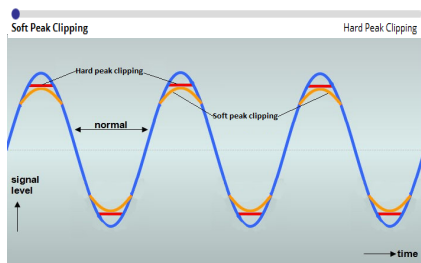
**Recommendation:**  
Previous users of linear amplification to ease adjustment to WDRC

**Recommendation:**  
New users and experienced WDRC users

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# Compression Limit Mode

- Only appears when linear is the selected compression mode.
- Soft peak clipping rounds the sound wave causing less distortion.
- Hard peak clipping clips the sound wave which can cause distortion.



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# Low Frequency Boost

- Add additional preset gain to the lower frequencies.

	Mild		Moderate		Strong
Value	250 Hz	500 Hz	750 Hz	1K	
Off	0 dB	0 dB	0 dB	0 dB	
Mild	3 dB	6 dB	3 dB	1 dB	
Moderate	6 dB	9 dB	5 dB	2 dB	
Strong	9 dB	12 dB	8 dB	3 dB	



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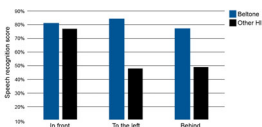
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# CrossLink Directionality 2 with personal Sound ID

**60%** Improvement in recognizing speech  
From in front in noisy situations



\*Jespersen C, Kirkwood B, Groth J. Effect of directional strategy on audibility of sounds in the environment for varying hearing loss severity. Canadian Audiologist. 2017; 48(1).



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### Feedback Eraser with Whistle Stop

- Completely redesigned feedback cancellation.
- Maximum amount of usable stable gain.
- Prevents feedback in challenging situations without compromising amplification.
- Best in class solution across industry.

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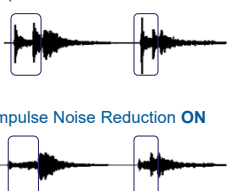
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### Maximized Comfort

- Impulse Noise Reduction OFF
- Impulse Noise Reduction ON



**89%**  
of the time listeners judged impulse sounds as being softer with Impulse Noise Reduction

\*Spilander et al. 2012



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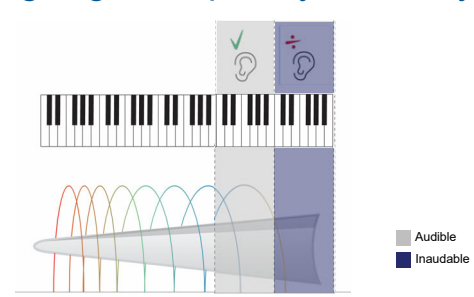
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### Improving High Frequency Audibility



0.5 1 2 4 8 16

Audible  
Inaudible

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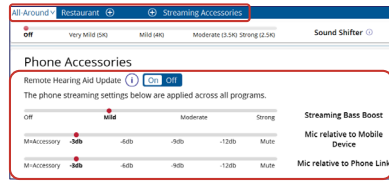
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## Mix-in Streaming

- No longer a separate program tab for Phone Accessories.
- Phone accessory options are at the bottom of Advanced Features.
- Streaming will activate from program that patient is in.



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## Increased Connectivity

- Beltone Boost Ultra supports direct streaming from Apple and selected Android phones.
  - Research shows a 50% improved speech intelligibility for direct streamed phone calls\*.
- Access to all Beltone Direct Line Accessories.



Beltone University

\*Jespersen, C.T., Kirkwood, B. Speech intelligibility benefits of PhonTronics. Hearing Review. 2015;21(2):25.



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## Beltone Boost Ultra Benefits

- New chip platform (Beltone Amaze)
- High input dynamic range & bandwidth
- Most stable power system on the market
- 140 (86 model) & 145 (95 model) dB SPL output
- Telecoil and DAI functionality
- IP 68 Rating
- Wireless Connectivity
- Direct Apple and Android streaming
- Customized solutions with HearMax App
- Beltone Remote Care
- Available in technology levels (17/9/6)

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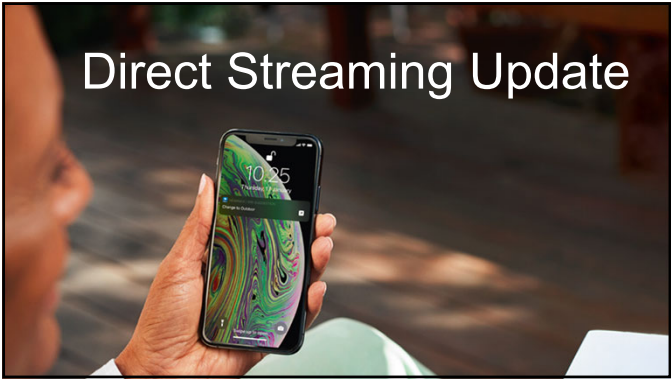
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### New Operating Requirements

- Beltone HearMax and HearPlus apps will no longer be available for download on devices running **Android 5 or iOS 10.**
- Beltone apps will remain on devices that are no longer supported.



Device Platform	Current Minimum	New Minimum
Android	Android 5	Android 7
iOS	iOS 10	iOS 12

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### iOS 12 & Android 7 Devices Compatibility

Operating system	Compatible devices	Launch date
iOS 12 or newer	iPhone 5S and newer	Sept 2013
	All iPad Air and iPad Pro	Nov 2013/2015
	iPad 5 <sup>th</sup> generation and newer	March 2017
	iPad mini 2 and newer	Nov 2013
	iPod touch 6 <sup>th</sup> generation and newer	July 2013
Android 7 or newer	Samsung Galaxy S7 and newer	March 2016
	Samsung Galaxy Note 8 and newer	Sept 2017

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## Support for Android Direct Streaming

- Beltone's HearMax app version 1.7 includes updates to help support patients seeking to use Android direct streaming.
- Support for three common scenarios:
  - Patient has a compatible phone running Android 9 or earlier.
  - Patient paired hearing aids in Bluetooth menu, rather than in the Beltone HearMax app.
  - Patient has compatible phone running Android 10.



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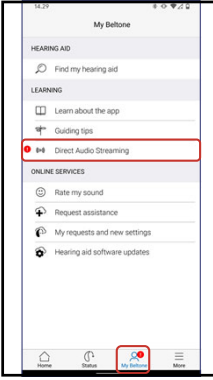
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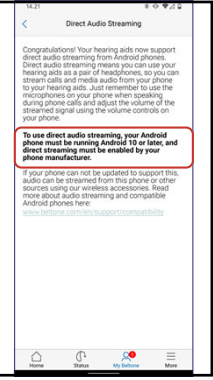
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## Patient has a Compatible Phone But Running Android 9 or Earlier



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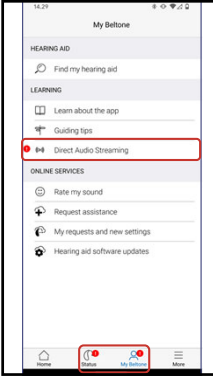
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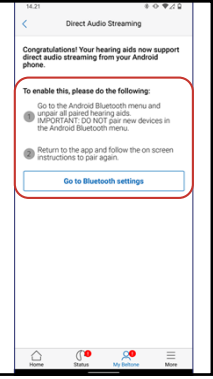
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## Patient Paired Hearing Aids in Bluetooth Menu



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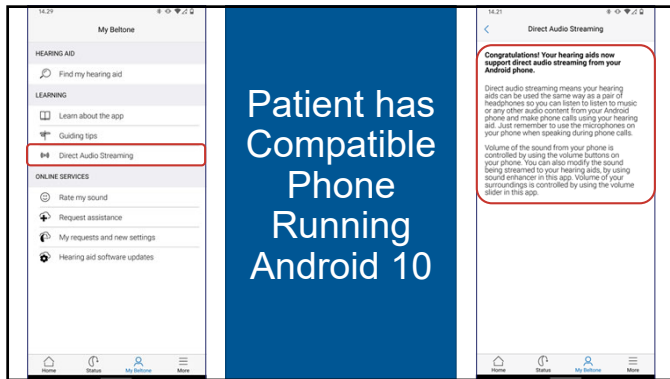
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## Summary

- The Beltone Amaze family is now complete!
  - 3 BTE styles
  - 3 RIE styles
  - 4 custom styles
- Beltone Boost Ultra is the complete hearing care solution for those with severe-to-profound hearing loss
  - 2 styles
  - 3 technology levels
- Solus Max 1.6
  - Need this version to see the new products.
- HearMax app version 1.7
  - In app notifications about AHSA compatibility.

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