Beltone **Legend**™

LND86-DW

Product Description

Power Behind-the-Ear (PBTE) hearing instrument model 86 supporting closed configurations.

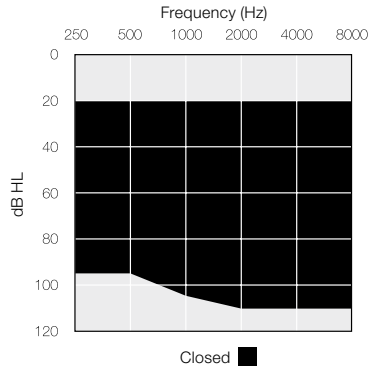
Sound processing done by Beltone's Dual Processing platform for efficient algorithm execution and outstanding sound quality.

3rd generation 2.4 GHz wireless technology features Bluetooth® 4.0 allowing the hearing instrument to connect to iPhone®, iPad® and iPod touch®, and Beltone's complete line of Direct accessories.

The 86 model features telecoil and Direct Audio Input (DAI).

The PBTE hearing instrument is HPF80 NanoBlock-coated for optimum durability.

Fitting Range



Model	LND1786-DW	LND986-DW	LND686-DW
Device Features			
Battery size		13	
Colors available		9 standard	
Functional Features			
Fully Flexible Programs	4	4	4
Synchronized Push Button	●	●	●
Synchronized Volume Control	●	●	●
Delayed Activation	●	●	●
Auto Phone	●	●	●
Asymmetric Phone Handling	●	●	●
Ear to Ear Communication	●	●	●
Direct audio streaming (Made for iPhone)	●	●	●
Beltone Direct TV Link 2, myPAL, Phone Link 2 & Remote Control 2.	●	●	●
Beltone SmartRemote (Phone Link 2 is required)	●	●	●
Beltone HearPlus	●	●	●
Audiological Features			
Curvilinear Rapid - number of channels	17	14	12
CrossLink Directionality with Personal Sound ID™	●		
Personal Sound ID™	●		
CrossLink Directionality		●	
Band-split Directionality	●	●	●
-Adjustable Mixing point Frequency	●	●	
Spatial Directionality		●	●
Synchronized Speech Spotter Pro	●	●	
Synchronized Speech Spotter Basic			●
Smart Beam Steering	●		
Fixed Beam Width	●	●	●
Adaptive Directionality™	●	◉	○
Smart Gain Pro	●		
Smart Gain		●	
Sound Cleaner	●	◉	○
Silencer	●	◉	○
Wind Noise Reduction	●	◉	○
Sound Shifter	●	●	●
Low Frequency Boost	●	●	○
Feedback Eraser with WhistleStop	●		
Feedback Eraser		◉	○
-AFX Music Mode	●	●	●
Synchronized Satisfy	●	●	●
Amplification Strategy (WDRC/Semi. linear/Linear)	●	●	●
Tinnitus Breaker Pro	●	●	●
Fitting Features			
Fitting Software SolusPro 1.8 or higher	●	●	●
Safeguard Feedback Control	●	●	●
Satisfaction Journal	●	●	●
In Situ Audiometry	●	●	●
Wireless Fitting with Airlink™	●	●	●

○ Basic Settings
◉ Advanced Settings
● Ultimate Settings

Made for iPod iPhone iPad

Beltone Legend™ is compatible with iPhone 6, iPhone 6 Plus, iPhone 5s, iPhone 5c, iPhone 5, iPad Air 2, iPad Air, iPad (4th generation), iPad mini 3, iPad mini 2, iPad mini with Retina display, iPad mini and iPod touch (5th generation) using iOS 7.X or later. Apple, the Apple logo, iPhone, iPad and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

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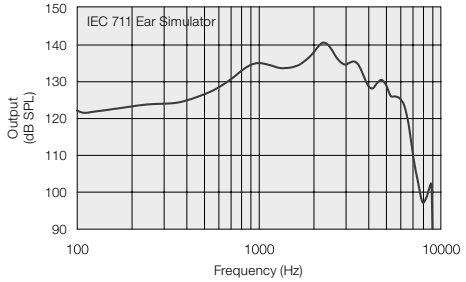
Technical Specifications

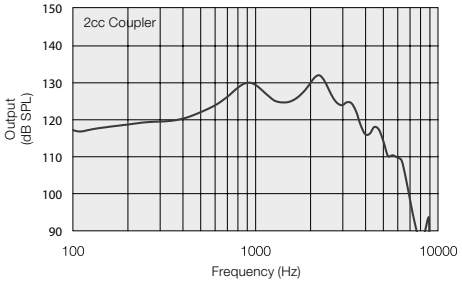
		LND86-DW		
		IEC 60118-0 IEC 711 Ear simulator	IEC 60118-7 ANSI S3.22 2cc coupler	
Reference test gain (60 dB SPL input)	1600 Hz/HFA	54	51	dB
Full-on gain (50 dB SPL input)	Max. 1600 Hz/HFA	74 67	67 63	dB
Maximum output (90 dB SPL input)	Max. 1600 Hz/HFA	140 134	132 128	dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.5 1.1 0.4	0.5 0.5 0.3	%
Telecoil sensitivity (1 mA/m input) HFA - SPLIV @ 31.6 mA/m (ANSI) Full-on telecoil sensitivity @ 1mA/m	Max. HFA 1600 Hz/HFA	102 95	 111 91	dB SPL
Equivalent input noise		23	22	dB SPL
Frequency range (DIN 45605/ANSI)		100-6652	100-6020	Hz
Current drain		1.2	1.4	mA

Data in accordance with IEC 60118-0, IEC 60118-7 and ANSI S3.22–2009; supply voltage 1.3 V.

Maximum Output (OSPL 90)



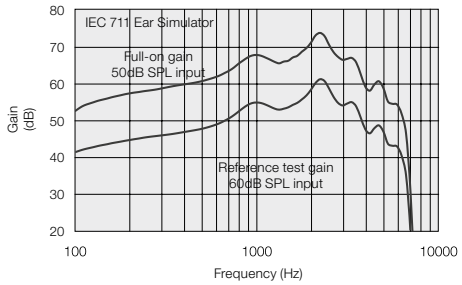
Maximum Output (OSPL 90)



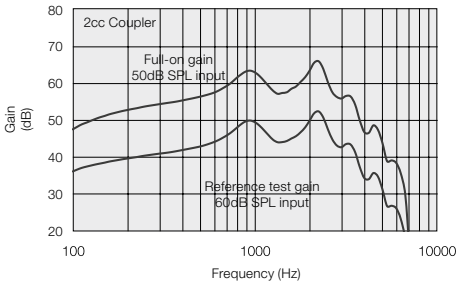
Notes:
O.E.S. = Occluded Ear Simulator
2cc = 2 cm^3 coupler
Pi = Acoustic input signal

Basic settings:
Full-on Gain, Reference Test Gain
MPO = Maximum Power Output
Maximum Band Width

Full-On and Reference Test Gain

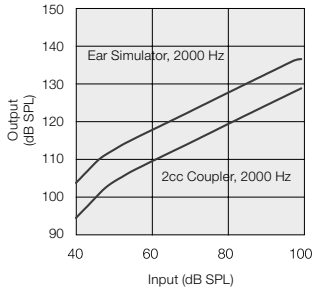


Full-On and Reference Test Gain

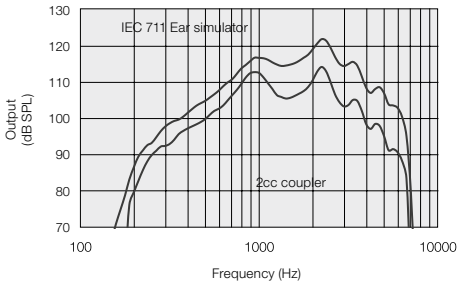


Measured according to IEC 60 118-0 1983, amendment 1994; at 1.3 V, impedance 6.2 ohms and 23°C on O.E.S. according to IEC711 1981, resp on 2cc according to IEC60118-7 2nd edition 2005 and ANSI S3.22–2009 (HFA average calculated at 1000 Hz, 1600 Hz and 2500 Hz; 0 dBSPL sound pressure equals 20µPa). All measurements without DSP features activated unless indicated otherwise.

Input/Output Response



Full-On Telecoil Response
Input level 10 mA/m



Patents pending

All specifications are subject to change without notice

400357000-GB-15.01-Rev.B

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