

Beltone Trust™



TST86-DW

Product Description

Model 86 Power Behind-the-Ear (PBTE) hearing aids support closed configurations.

Sound processing done by Beltone's Dual Processing platform delivers outstanding sound quality.

The 5th generation 2.4 GHz wireless functionality allows cloud connectivity with Beltone Remote Care™ and features Bluetooth® 4.0, allowing the hearing aids to communicate with each other and to connect to iPhone®, iPad®, iPod touch®, and select Android™ models*.

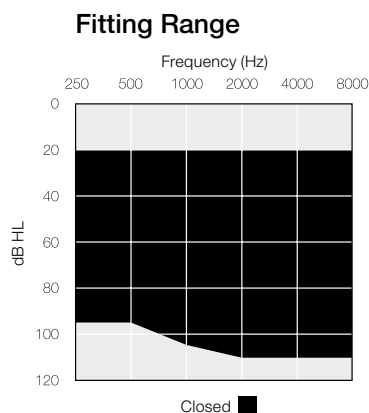
With Beltone Remote Care™, Beltone Trust™ brings an entirely new level of connectivity to the relationship between the end user and the hearing care practitioner.

Beltone Trust also supports Beltone's full line of Direct Line™ wireless accessories.

The 86 models come standard with Push Button, Volume Control, Telecoil, and Direct Audio Input (DAI).

Beltone Trust PBTE hearing aids are HPF³⁰ NanoBlock coated for optimum durability and meet the IP58 classification for ingress protection.

*Android connection through Beltone HearMax app.



Model	TST1786-DW	TST986-DW	TST686-DW
Device Configurations			
Battery size	13		
Audiological Features			
Curvilinear Rapid (WDRC) - number of channels	17	14	12
CrossLink Directionality 2™	●	-	-
Personal Sound ID™	●	-	-
CrossLink Directionality	-	●	-
Spatial Directionality	●	●	●
Band-split Directionality	●	●	●
-Adjustable Mixing point Frequency	●	●	-
Synchronized Speech Spotter Pro	●	●	-
Synchronized Speech Spotter Basic	-	-	●
Smart Beam Steering	●	●	-
Adaptive Directionality™	●	⊙	○
Smart Gain Pro	●	-	-
Smart Gain	-	●	-
Sound Cleaner Pro	●	⊙	-
Sound Cleaner	-	-	●
Silencer	●	●	●
Wind Noise Reduction	●	⊙	○
Sound Shifter	●	●	●
Feedback Eraser with WhistleStop	●	-	-
Feedback Eraser	-	⊙	○
AFX Music Mode	●	●	●
Synchronized Satisfy	●	●	●
Low Frequency Boost	●	●	○
Amplification Strategy (WDRC/Semi-linear/Linear)	●	●	⊙
Tinnitus Breaker Pro	●	●	●
Functional Features			
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 Pro and Micro, Phone Link 2 & Remote Control 2	●	●	●
Beltone SmartRemote app (Phone Link 2 is required)	●	●	●
Beltone HearMax app	●	●	●
Beltone Remote Care™			
Remote Fine-Tuning	●	●	●
Remote Firmware Updates	●	●	●
Fitting Features			
Beltone Solus Max 1.0 or higher	●	●	●
Fully Flexible Programs	4	4	4
Safeguard Feedback Control	●	●	●
Satisfaction Journal	●	●	●
Wireless Fitting with Airlink2™ / Noahlink Wireless	●	●	●

○ Basic Settings
⊙ Advanced Settings
● Ultimate Settings



Beltone Trust™ is compatible with iPhone 7 Plus, iPhone 7, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone SE, iPhone 5s, iPhone 5c, iPhone 5, iPad Pro (12.9-inch), iPad Pro (9.7-inch), iPad Air 2, iPad Air, iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, iPad (4th generation), iPod touch (6th generation) and iPod touch (5th generation) using iOS 8.X or later. Apple, the Apple logo, iPhone, iPad Pro, iPad Air, iPad mini, iPad and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Android is a trademark of Google Inc.



Technical Specifications

TST86-DW

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

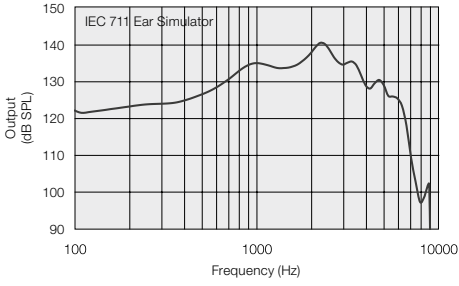
Data in accordance with IEC60118-0 Edition 3.0 2015-06, IEC60118-7 and ANSI S3.22-2009, supply Voltage 1.3V

Patents pending

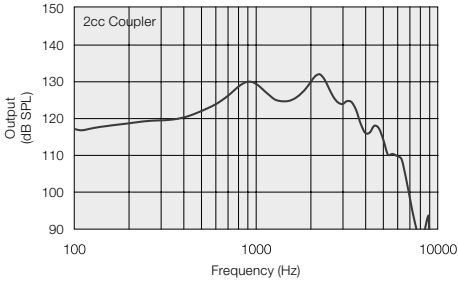
All specifications are subject to change without notice

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Maximum Output (OSPL 90)



Maximum Output (OSPL 90)

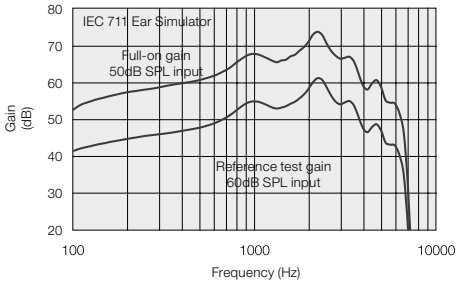


Notes:
 O.E.S. = Occluded Ear Simulator
 2cc = 2 cm³ coupler
 Pi = Acoustic input signal

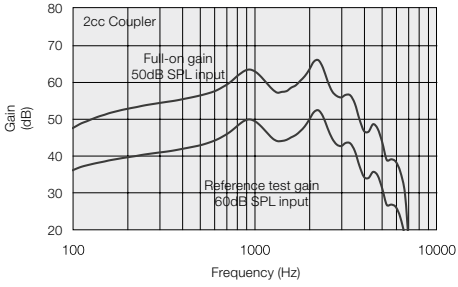
Basic settings:
 Full-on Gain, Reference Test Gain
 MPO = Maximum Power Output
 Maximum Band Width

Measured according to IEC60118-0 Edition 3.0 2015-06 at 1.3 V, impedance 6.2 ohms and 23°C on 2cc coupler. Resp. on 2cc according to IEC60118-7 Second edition 2005-10 and ANSI/ASA S3.22-2009 (HFA average calculated at 1000 Hz, 1600 Hz and 2500 Hz; 0 dB SPL sound pressure equals 20µPa). All measurements without DSP features activated unless indicated otherwise. Measurement on O.E.S according to IEC711 1981. According to IEC60118-0 Edition 2 1983 and amendment 1 1994

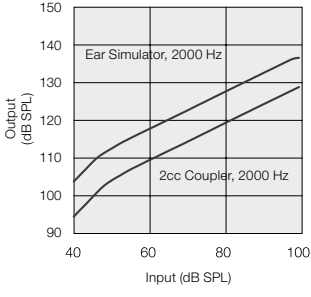
Full-On and Reference Test Gain



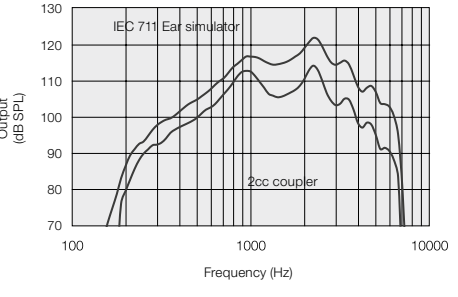
Full-On and Reference Test Gain



Input/Output Response



Full-On Telecoil Response



Manufacturer according to FDA:

Beltone
 8001 E. Bloomington Freeway
 Bloomington, MN 55420 - 1036
 1-800-BELTONE

Manufacturer according to Health Canada:

Beltone Canada
 301 Supertest Road
 Toronto, Ontario, M3J 2M4
 1-800-387-3744

