

DaVinci PsP™ Digital Signal Processor

Adaptive digital signal processing algorithms incorporated in a multichannel device with versatile compression and dynamic directionality to greatly enhance performance and fitting flexibility.



*DaVinci PsP
Standard BTE*



*DaVinci PsP
Open BTE*



*DaVinci PsP
Exact Fit BTE*

Feature Summary:

Precision Frequency Resolution to optimize fine-tuning of the response for the most unique hearing loss configurations.

Dynamic Precision Directional Imaging automatically activates the advanced directional microphone technology to enhance speech understanding in noisy environments.

Adaptive Noise Management reduces gain of steady-state noise only in channels where noise is detected.

Adaptive Feedback Cancellation eliminates feedback without reducing gain.

MultiChannel Expansion technology reduces microphone and low-level environmental noise.

Programmable Indicator Tones for low battery, volume control and multimemory.

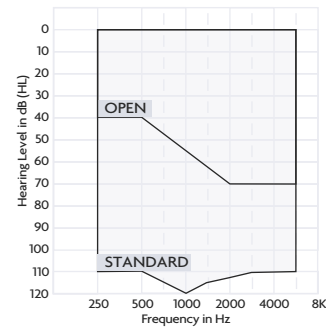
MultiMemory with up to three fully adjustable memories accessed via push button.

Programmable Telecoil accessed via push button allows for fully adjustable frequency response of telecoil within a memory. Enable M/T mode allows for combined microphone and telecoil inputs.

Volume Control with optional disable VC feature within PFS.

On/Off via the Battery Door.

Tamper Resistant Battery Door.



Size 13 Battery.

Right/Left Indicators.

Options:

Case Colors available in beige, black, light lava gray, dark brown, dark gray, ice purple, translucent, dark brown/beige, beige/dark brown, black/dark gray, dark gray/black, light lava gray/black, silver/blue.

Direct Audio Input Accessories.

Volume Control Cover.

Pediatric and Filtered Earhooks.

Open Ear Adapter.

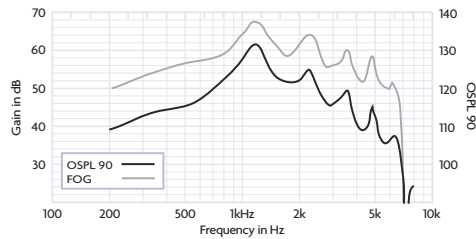
Accessories for open ear configuration.



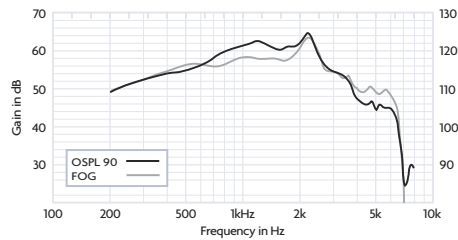
TECHNICAL SPECIFICATIONS

DaVinci PsP BTE

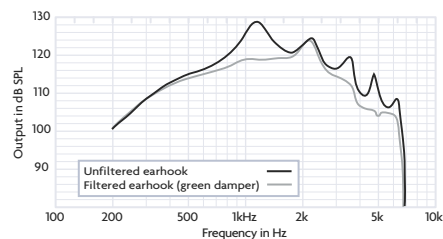
Peak OSPL 90 (dB SPL)	ANSI 132	IEC 137
HFA OSPL 90 (dB SPL)	122	N/A
RTF OSPL 90 (dB SPL)	N/A	132
Peak Gain (dB)	68	73
HFA Full On Gain (dB)	60	N/A
RTF Full On Gain (dB)	N/A	68
Frequency Range (kHz)	0.2-6.4	0.2-6.4
Reference Test Frequency (kHz)	1.0,1.6,2.5	1.6
Reference Test Gain (dB)	45	57
Total Harmonic Distortion		
500 Hz	5%	5%
800 Hz	3%	3%
1600 Hz	2%	2%
Equivalent Input Noise (dB SPL)	<25	<25
(55 - 90 ANSI) (55 - 80 IEC) - Test Mode		
Attack Time	5	5
Release time 0.1-s (ms)	150	150
Release time 2.0-s (ms)	150	150
Induction Coil Sensitivity		
HFA SPLITS (ANSI-96) (dB SPL)	104	N/A
MASL (IEC 118-1) (dB SPL)	N/A	101
Battery Current (mA)		
Idle (mA)	1.01	1.01
Estimated Battery life based on a 16 hour day	16	16



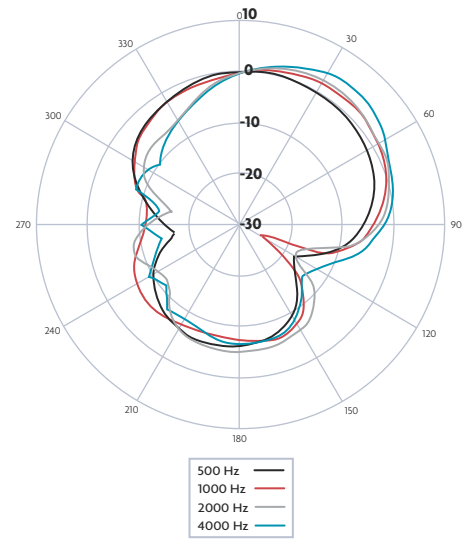
BTE UNDAMPED: OSPL90 and Full On Gain curves for unfiltered earhook.



BTE DAMPED: OSPL90 and Full On Gain curves for default filtered earhook (green damper).



TELECOIL: Induction Coil sensitivity at Full On Gain. Data obtained in RMS magnetic field strength of 31.6 mA/meter.



KEMAR POLAR PLOTS

	500 Hz	1000 Hz	2000 Hz	4000 Hz
KEMAR DI Values	5.1	3.9	4.7	1.5
Freefield DI Values	5.7	5.7	5.6	4.9

Measurement Conditions and Recommendations

The data for DaVinci PsP BTE are obtained and performance is expressed according to ANSI S3.22 (1996) and IEC 60118-0 (1983), 60118-1 (1999), and 60118-2 (1997). Electro-acoustic data are measured on a Starkey proprietary Real Time Analyzer. Where applicable, 2D polar plots and DI data are measured on a B&K PULSE 3560C in an anechoic chamber. Data may be subject to change with product refinement.

DaVinci PsP BTE hearing instruments may be set to Test Mode within PFS by reading the hearing aid and choosing Set To Full On Gain (Test Mode) from the Activity drop down menu. Test data results may vary from these specifications due to adaptive signal processing effects and available measurement equipment.

