

HiResolution[®] Bionic Ear System

Technical Specifications



Platinum Series[™] Processor

Mechanical properties	
Processor Module	Platinum Series Processor (PSP)
Weight:	0.25 lb
Size:	2.69" w, 2.19" h, 0.81" d
Headpiece	HiRes 90K [®] concave Platinum Headpiece (PHP)
Microphone Frequency Range:	150 Hz–8000 Hz, ~25 dB SPL (A weighted) noise floor
Magnets:	Adjustable, up to 5
Headpiece Cable	
Lengths:	18, 24, 32, 42, and 48 inches
Colors:	Beige/brown
Auxiliary Input/Output Port	3.5 mm phono, mono jack with microphone bias and mic test output
Five-position Program Switch	Off, 3 program slots, 1 microphone test slot
Status LED	2 color, 6 status indicator
Volume Dial	Programmable +/-100% electrical dynamic range
Sensitivity Dial	+/-10 dB
Moisture Resistance	Normal operation at 95% relative humidity (non-condensing)
Operating Temperature Range	0°–45°C/32°–113°F (non-condensing)
Storage Temperature Range	-20°–50°C/-4°–122°F

Power	
Batteries	Li-ion Rechargeable battery 3-4.2 V at 4,500 mW-hrs
AA Battery Compartment	3 AA 3–4.5 V at 8000 mW-hrs

Processing	
Audio Sound Capture	12 bit oversampled 4x for effective 13 bit
Input Dynamic Range (instantaneous)	84 dB
Effective Audio Sampling Rate	17.4 kHz
Automatic Gain Control (AGC) (Enabled, default)	Cambridge dual loop AGC (AGC II)
Automatic Gain Control (Disabled)	Functions as linear peak clipping for signal above the maximum specified system limit
Volume Control	+/-100% electrical dynamic range, default setting +/-50%
Stimulation Rate	136 pps–83,000 pps
Spectral Bands	1–120 bands
Supported Strategies	HiRes [®] -S, HiRes-P, HiRes-S with Fidelity 120 [®] , HiRes-P with Fidelity 120, CIS and MPS
Telemetry	1.0 Mbps bandwidth Continuous bi-directional

Warranty	3-year manufacturer warranty
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