

Discovery ADSP 2



Digital
Amplification
OTE

DEVICE FEATURES

- Micro Case
- #10 battery
- 2 channel, 4 Memories
- Soft, Free-field Dome
- Sm, Med, or Lg tube size

CONSUMER APPEAL

- Cosmetic Appeal
- 1 yr. Warranty
- Micro-Ploy Tube
- Economical Price
- No Ear Impression
- Same Day Fitting

Discovery ADSP provides crisp, clean digital amplification in micro-poly tube case design at an affordable price.

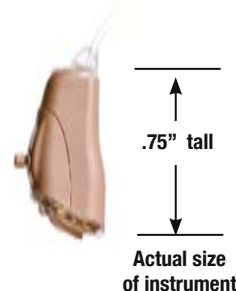
The Discovery Advanced Digital Signal Processing (ADSP) is a micro OTE device that provides amplification of unrivaled fidelity within a same-day fitting scenario. The Discovery is specifically designed for people with vigorous, active lifestyles who have difficulty understanding speech in the presence of background noise. In addition, this target group typically can no longer hear the full bass to treble range of music. Rather than experiencing undue loudness, the wearer will find speech clearer and easier to understand, and music once again full and rich.

The Discovery ADSP features a micro-poly tube free-field ear tip resulting in transparent ear canal resonance. The result is clean, stable high frequency amplification with a total absence of occlusion.

The Discovery DSP can provide up to four memories that are designed to optimize understanding speech in different listening situations.

DATA SPECIFICATIONS

Battery Drain0.85 mA
Battery Life (10A) 94 Hrs.



General Hearing
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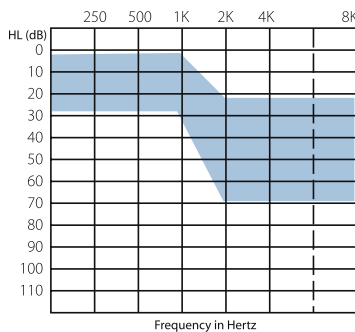
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Advanced Digital Signal Processing with feedback management

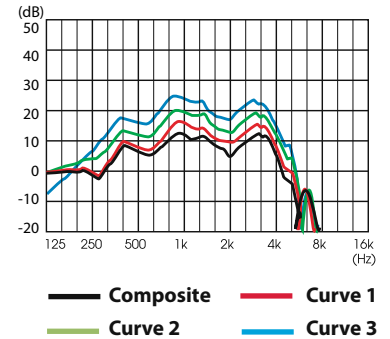
- Adaptive Feedback Control that counteracts feedback without gain reduction or signal distortion
- Layered Noise Reduction with Syllabic, Environmental and Quick recovery noise management
- Dynamic Contrast Detection Compression to optimize performance
- Low-Level Expansion
- Low Battery warning
- 12 band Gain Adjustment
- Programmable Power-On Delay

TYPICAL FITTING RANGE



OTE Performance Data

The multi-curve analysis shown on the right reflects typical ADSP 2 performance at each of the four memories. The data were gathered using a standard 2cc coupler. Note that the curves were obtained with an input signal of composite noise with an intensity of 65 dB-SPL. The curve with the least amount of overall gain (Composite Curve) represents Memory 1. Curve 3, with the most amount of overall gain, represents Memory 4. The overall frequency response remains constant across memories, and that gain is the only variable.



Composite (memory 1)

Source.....65.0 dB
Peak.....12.9 dB
Peak Frequency.....3,100 Hz
RMS Out72.5 dB
Noise Reduction0.0 dB

Curve 1 (memory 2)

Source.....65.0 dB
Peak.....16.7 dB
Peak Frequency.....1,000 Hz
RMS Out75.7 dB
Noise Reduction0.0 dB

Curve 2 (memory 3)

Source.....65.0 dB
Peak.....20.6 dB
Peak Frequency...3,100.0 Hz
RMS Out79.8 dB
Noise Reduction0.0 dB

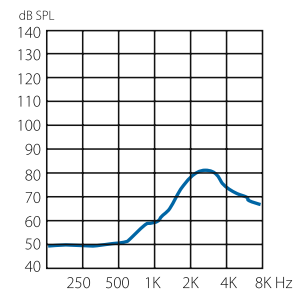
Curve 3 (memory 4)

Source.....65.0 dB
Peak.....24.8 dB
Peak Frequency...3,100.0 Hz
RMS Out83.8 dB
Noise Reduction0.0 dB

REAL-EAR DATA

These data display typical real-ear performance with the instrument programmed for free-field fitting and set in Memory 4 (highest gain).

The effects of the free-field venting can be seen with the roll-off at frequencies below 2000 Hz. (which contains most of the noise energy). There is transparent open ear canal resonance, resulting in efficient high frequency gain from 2000 Hz. to beyond 4000 Hz.



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