

# Simplicity Smart Touch™



Digital  
Amplification  
**OTE**

## DEVICE FEATURES

- Micro case
- #10 battery
- 4 memories
- Soft, free-field dome
- Sm, Med, or Lg tube size

## CONSUMER APPEAL

- Cosmetic appeal
- 1 yr. warranty
- Micro-poly tube
- Economical price
- No ear impression
- Fits men and women

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

The Simplicity Smart Touch is a micro OTE device that provides amplification of unrivaled fidelity. The Simplicity is specifically designed for people with vigorous, active lifestyles who have difficulty understanding speech in the presence of background noise. Typically, users complain that they can no longer hear the full bass to treble range of music. They also need help in making speech more clear and easier to understand.

The Simplicity Smart Touch features a micro-poly tube free-field ear tip that allows the user to hear low frequency sounds naturally.

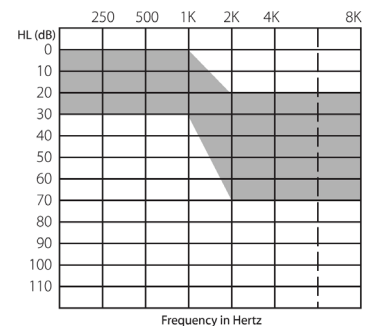
The result is clean, stable high frequency amplification without any feeling of being “plugged up”.

The Simplicity is preprogrammed with 4 amplification levels - just press the button to increase or decrease the volume.



Simplicity mini OTE,  
only 3/4" in height!

## TYPICAL FITTING RANGE



## BATTERY SPECIFICATIONS

Battery Drain .....0.55mA  
Battery Life (10A) .....141 Hrs.

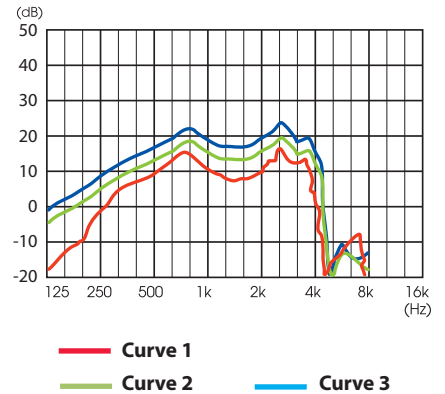


### Simplicity Smart Touch Features:

- Adaptive Feedback Control that counteracts feedback without gain reduction or signal distortion
- Dynamic Contrast Detection Compression to optimize performance
- Low-Level Expansion
- Low Battery warning
- 12 band Gain Adjustment
- Programmable Power-On Delay

### Simplicity Performance Data

The multi-curve analysis shown on the right reflects typical Smart Touch 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.....12.0 dB  
Peak Frequency.....2,700 Hz  
RMS Out .....69.9 dB  
Noise Reduction .....0.0 dB

#### Curve 1 (memory 2)

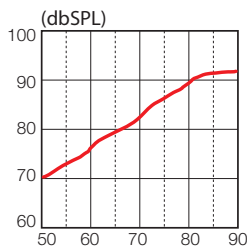
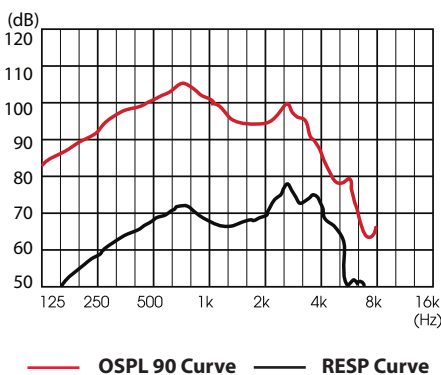
Source.....65 dB  
Peak.....16.4 dB  
Peak Frequency.....2,700 Hz  
RMS Out .....73.7 dB  
Noise Reduction .....0.0 dB

#### Curve 2 (memory 3)

Source.....65 dB  
Peak.....19.9 dB  
Peak Frequency.....2,700 Hz  
RMS Out .....77.4 dB  
Noise Reduction .....0.0 dB

#### Curve 3 (memory 4)

Source.....65.0 dB  
Peak.....23.9 dB  
Peak Frequency.....2,800 Hz  
RMS Out .....81.5 dB  
Noise Reduction .....0.0 dB



THD	FREQ	SRC
0.3%	500 Hz.	70 dB
0.4%	800 Hz	70 dB
0.3%	1,600 Hz	65 dB

#### MAX OSPL90 : 106.3 dB

AT.....800 Hz.  
HF AVG .....97.5 dB  
HF AVF F.O.G. ....22.3 dB

#### Reference Test Gain

Target: .....20.5 dB  
Measured: .....20.4 dB

#### Response Limit: 49.1dB

F1 = .....200 Hz  
F2 = .....8,000 Hz

#### Averaging Frequencies

1000 Hz  
1,600 Hz  
2,500 Hz

Freq.....2000 Hz  
Attack.....27 mS  
Release .....1,998 mS

Eq. Input Noise 27.7 dB  
Battery (1.3V).....0.55 mA