

# CANTA<sup>7</sup>

## PRODUCT INFORMATION

### Canta7 Power BTE

### Model 780-D

#### Product Description

The Canta7 Series model 780-D is a fully digital, dual-microphone power behind-the-ear (BTE) hearing instrument based on the exclusive GN ReSound software-based DSP platform.

The instrument features adaptive directionality with active microphone matching technology to ensure optimal directional performance over the life of the product. Canta7's "LASER" system (64-band spectral enhancement and fast-syllabic noise reduction), combined with cochlea dynamics sound processing, provides the clearest and most comfortable hearing experience. In addition, the instrument features digital feedback suppression (DFS) for avoiding feedback problems, without reducing gain.



#### Key Features:

- Volume control
- Direct audio input
- Adaptive directionality
- Active microphone matching
- 14-band fast-syllabic noise reduction
- 64-band spectral enhancement
- 14-band cochlea dynamics compression
- Adaptive digital feedback suppression (DFS)
- *In-situ* loudness scaling
- Up to 3 environmental programs, easily accessed by multi-function switch
- Ergonomic and modern design

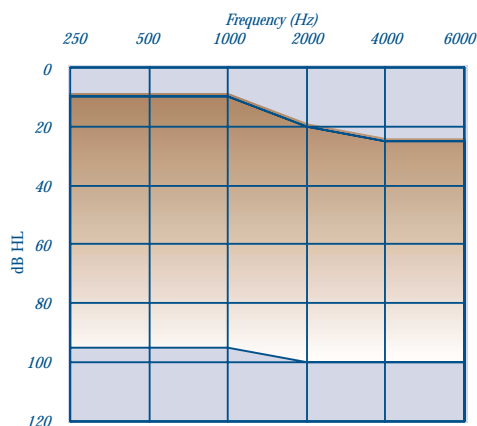
#### Standard Configuration

- Programmable telecoil with T and MT modes
- Programmable volume control
- Programmable direct auditory input (DAI)
- Acoustic indicator for program selection
- Size 13 battery

#### Options

- 7 different opaque and 5 different translucent case colors

#### Fitting Range



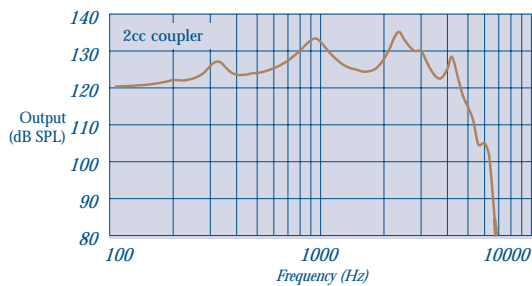
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## Model 780-D

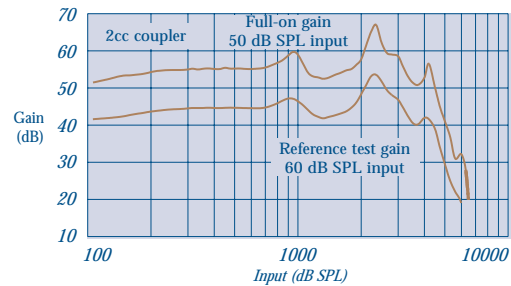
Technical Specifications*		2cc coupler
<b>Full-on gain</b> (50 dB SPL input)	Max	67 dB
	1600 Hz	54 dB
	HFA	58 dB
<b>Reference test gain</b> (60 dB SPL input)	1600 Hz	47 dB
	HFA	51 dB
<b>OSPL90</b> (90 dB SPL input)	Max	135 dB SPL
	1600 Hz	124 dB SPL
	HFA	130 dB SPL
<b>Total harmonic distortion</b>	500 Hz	1.8 %
	800 Hz	0.6 %
	1600 Hz	0.7 %
<b>Equivalent input noise</b> (without noise reduction)		27.9 dB SPL
<b>Full-on telecoil</b> (10 mA/m)	Max	116 dB SPL
<b>Frequency range</b>		100–5500 Hz
<b>Current drain</b> (65 db SPL at 1000 Hz) (1.3 V)		1.8 mA
<b>Typical battery life</b>	Type 13A	144 hrs

\* In reference to  
ANSI S3.22-1996

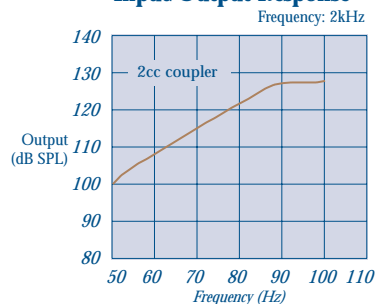
**Maximum Output (OSPL 90)**



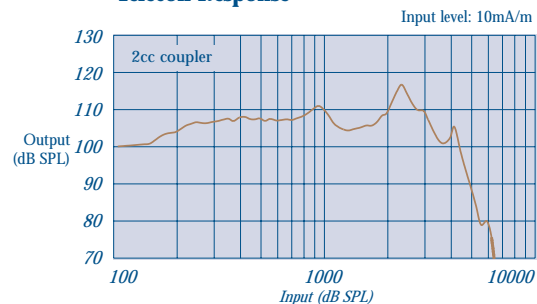
**Full-on and Reference Test Gain**



**Input/Output Response**



**Telecoil Response**



Full-on gain parameter settings

<b>G[80]</b>	46	46	46	46	39	39
<b>G[50]</b>	56	56	56	56	49	49

Reference test gain parameter settings

<b>G[80]</b>	39	39	39	39	32	32
<b>G[50]</b>	49	49	49	49	42	42

Settings in Aventa fitting software using “Kemar IG” and “Pure Tone Stimuli” view modes

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14-Band Compression System	
<b>Syllabic compression</b>	
Threshold	≤45 dB SPL in each band
Compression ratio	1.0 to 3.0 (program dependent in each handle)
Attack time	5 ms
Release time	70 ms (120 ms at 250 Hz)
<b>Input limiting</b>	
Threshold	75 to 100 dB SPL (program dependent in each handle)
Compression ratio	>15.0
Attack time	5 ms
Release time	70 ms

Feature Options	
<b>14-band fast-syllabic noise reduction</b>	Mild, Moderate, Strong, Off
<b>64-band spectral enhancement</b>	On, Off
<b>Digital feedback suppression</b>	Normal, Slow, Off
<b>Digital Dynamic Directionality</b>	
Active microphone matching	Always on
Directionality	Adaptive, Hypercardioid, Cardioid, Bi-directional, Off
Low frequency equalization	No boost, Normal boost, Max boost

All specifications subject to change without notice.

Data in accordance with ANSI S3.22-1996. Supply voltage 1.3 V. Unless otherwise stated, all measurements made without directionality, noise reduction, spectral enhancement or DFS active.