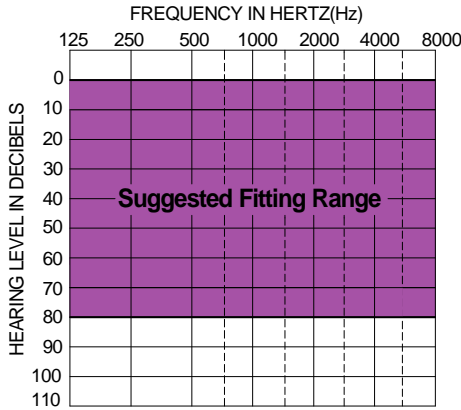


# PARAGON 2



## STANDARD FEATURES

- 100% Digital
- Programmable Multi-Microphone Directional (FRONTWAVE™) Processing
- Multi-memory(1-4) push button with Tone Indicator
- Numbered Volume Control with On/Off switch
- Programmable telephone coil
- Concealed programming socket and Rear Microphone
- Mic windshield incorporated in earhook

### Performance Data:

			Coupler 2cc IEC 118-7/94	Coupler MZ (711) IEC 118-0/94	Coupler 2cc ANSI S3.22-1996	Limits
SATURATION (OSPL 90)	Peak	dB SPL	125	130	125	+/- 3
	F Reference	dB SPL	122	124	124	+/- 3
	HF Average	dB SPL			121	+/- 3
Full-on Gain (Input: 50dB SPL)	Peak	dB	54	59	53	+/- 4
	F Reference	dB	50	57		+/- 4
	HF Average	dB			51	+/- 4
Nominal Reference Test Gain (RTG)		dB	45	51	45	
Frequency Range		Hz	200-7500			
Volume Control Range		dB	>45			
Total Harmonic Distortion at RTG:						
70 dB SPL in	500 Hz	%			5	<4
	800 Hz	%	3	3	3	<4
65 dB SPL in	1600 Hz	%			3	<4
Equivalent Input Noise Level		dB	30	30	30	<33
		dB				<33
Maximum Telecoil Sensitivity						
FOG; Input 10mA/m @ RTF		dB	103			
RTG; Input 31.6mA/m @ RTF		dB		110		
FOG; Input 31.6mA/m @ RTF		dB			106	
SPLITS @ RTF		dB			103	
HF Average		dB			105	
STS		dB			1.0	
Supply Current	input dB SPL		60	65		
at RTG	mA		1.40	1.40		<1.50
Battery Life	Type13 Zinc-Air(220mAh) hrs		154	154		
	Type13 Zinc-Air HighPower(200mAh) hrs		140	140		
AGC @ 2KHz	Attack	mS	60	60	60	+/-50%
	Release	mS	800	800	800	+/-50%
Reference Test Frequency(RTF)		Hz	1600	1600	1000	



## Description

The BTE Paragon 2 is an advanced 2 Channel Digital Wide Dynamic Range Compression system.

Highly configurable digital signal processor provides excellent versatility, with independent channel compression characteristics

Adjustable crossover frequency from 1kHz to 4kHz

Full dynamic range, low noise and 16kHz bandwidth offers true, high fidelity audio processing without compromise

Adjustable low level expansion for quieter performance

Independent active low cut and high cut filters

AGC-o compression limiting

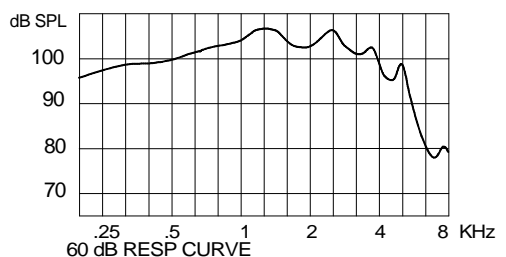
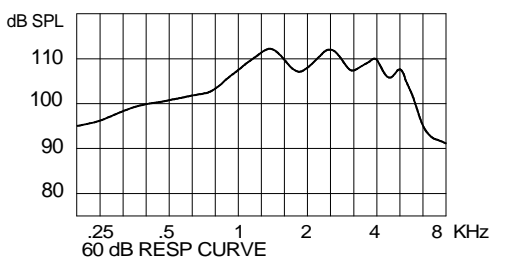
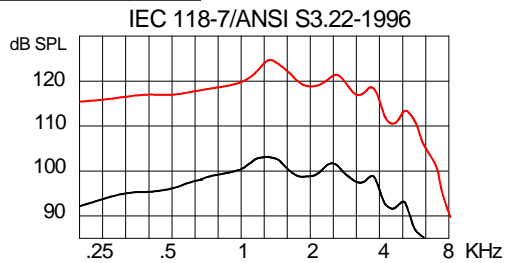
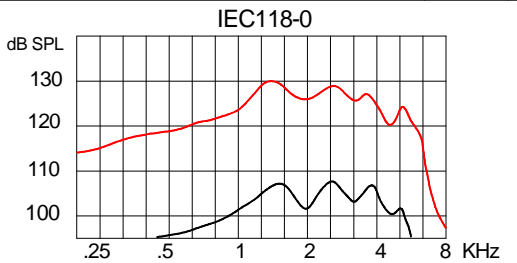
Effective dynamic range of 95dB

Variable notch filter with dynamic depth to help reduce acoustic feedback

Battery Type: Zinc-Air Size 13 (high power recommended)

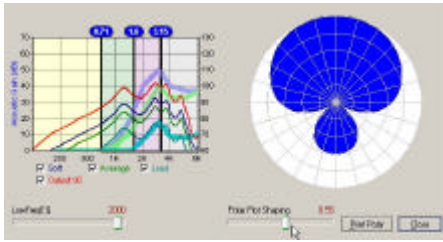
Adjustable Low Battery indicator and Memory Tone

Programmable with HiPro or the Micro-connect card



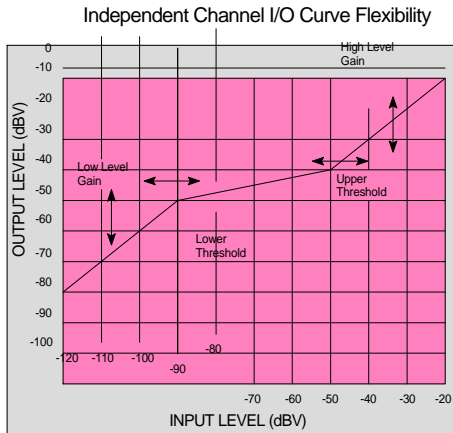
**Overall Dimensions**  
 Height: 1.20" (30mm)  
 Width: 0.45" (11.40mm)  
 Thickness: 0.35" (9.00mm)





### Electronic Directional Processing

Fully adjustable Directional pattern allows any combination to enhance every listening environment



### Channel Processing

This figure represents the I/O characteristics of independent AGC channel processing. The I/O curve can be divided into three(3) main regions:

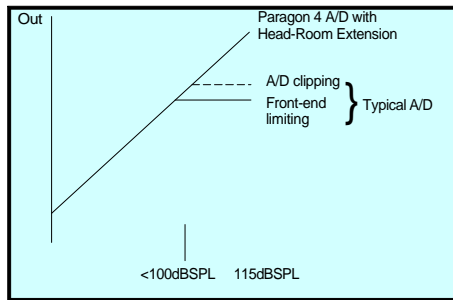
- \*Low input level linear region
- \*Compression region
- \*High input level linear region (return to linear)

The I/O characteristics can be adjusted in three(3) ways:

- \*Soft threshold(TK)
- \*Soft gain
- \*Compression ratio



Concealed Programming Socket and Rear Directional Microphone

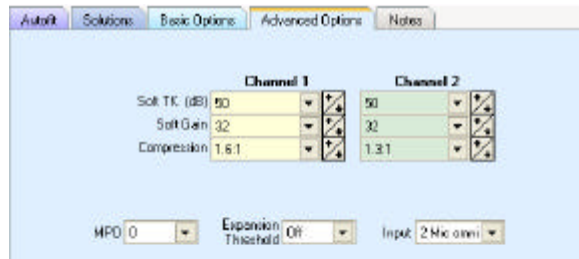


### High Fidelity Digital System

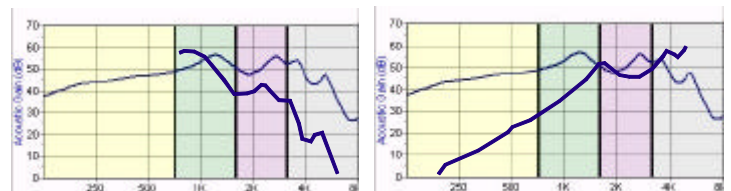
Dual A/D converters are combined with the Head-Room Extension Algorithm to yield a 16kHz bandwidth and a 95dB of full dynamic range hearing instrument.

### The Audina ezFIT Software

The software provides very intuitive, user-friendly programming screens with terminology that is easy to understand. The fine tuning guide is designed for quick fixes, while maintaining access to all the programmable parameters of the hearing aid for manual fine-tuning, as well.



ADVANCED OPTIONS SCREEN



BASIC OPTIONS SCREEN

