

### STANDARD FEATURES

- 100% Digital
- Concealed programming socket
- Multi-memory(1-4) push button with Tone Indicator
- Direct Audio Input(DAI) capability
- Numbered Volume Control

### OPTIONS

- On/Off Switch built into Battery Door
- Programmable telephone coil
- Push On replaceable earhook
- Housings available in Beige, Gray and Brown
- Battery Door Lock
- Volume Control Cover

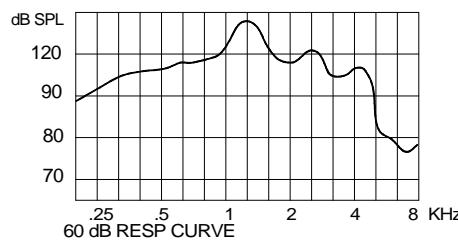
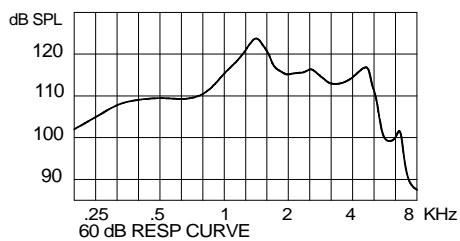
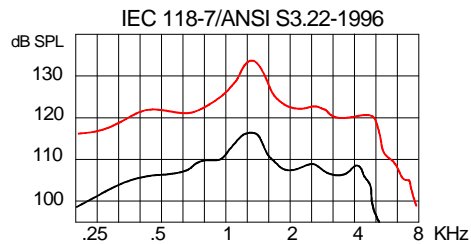
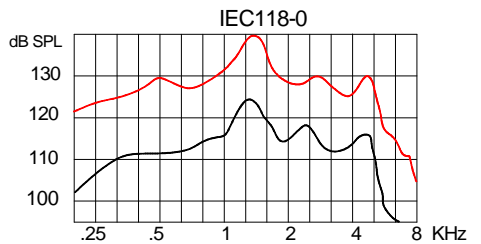


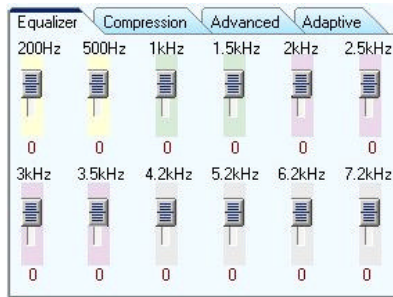
### Performance Data:

			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	134	140	134	+/- 3
	F Reference	dB SPL	127	135		+/- 3
	HF Average	dB SPL			126	+/- 3
Full-on Gain (Input: 50dB SPL)	Peak	dB	66	75	66	+/- 4
	F Reference	dB	60	70		+/- 4
	HF Average	dB			59	+/- 4
Nominal Reference Test Gain (RTG)		dB	60	60	47	
Frequency Range		Hz	200-5400			
Volume Control Range		dB	>45			
Total Harmonic Distortion at RTG:						
70 dB SPL in	500 Hz	%	7	7	4	<7
	800 Hz	%				
65 dB SPL in	1600 Hz	%				
Equivalent Input Noise Level		dB	30			<33
		dB			30	<33
Maximum Telecoil Sensitivity						
FOG; Input 10mA/m @ RTF		dB	100			
RTG; Input 31.6mA/m @ RTF		dB				
FOG; Input 31.6mA/m @ RTF		dB			110	
SPLITS @ RTF		dB			103	
	HF Average	dB			105	
STS		dB			1.0	
Supply Current at RTG	input dB SPL		60		65	
		mA	1.00		1.00	<1.30
Battery Life Type13 Zinc-Air(220mAh) hrs			215		215	
Type13 Zinc-Air HighPower(200mAh) hrs			195		195	
AGC @ 2KHz	Attack	mS	10		10	+/-50%
	Release	mS	210		210	+/-50%
Reference Test Frequency(RTF)		Hz	1600	1600	1000	

### Description

The Intuition 4 BTE is an advanced 4 channel Digital Wide Dynamic Range Compression system. Ten bands of Layered Noise Reduction responds to noise of all intensities. Intuitive Feedback Reduction automatically reduces feedback without reducing gain. Spectral information is maintained. Highly configurable digital signal processor provides excellent versatility, with independent channel compressor characteristics including four(4) parameter I/O adjustment. Twelve-Band Gain Adjustment for precise target matching. Unique Dynamic Contrast Detector "Reaches Down" to amplify quiet speech more. Look-Ahead Detection monitors signal path for loud transients and reduces gain in advance of oncoming transients, nearly eliminates signal clipping due to loud transients. Adj. Threshold Levels in each channel from 40 to 70dB. AGC-o compression limiting. Battery Type: Zinc-Air Size 13. Adjustable Low Battery Indicator and Memory Tone. Programmable with HiPro or the Micro-connect card.



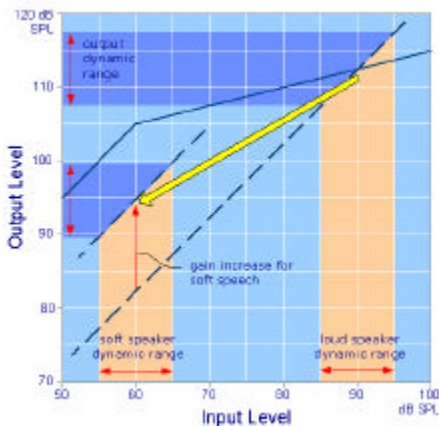


## Twelve-Band Gain Adjustment

- Precise Target Matching
- Low Frequency Shaping
- High frequency Shaping
- Resonance Smoothing
- Feedback Notches
- Peak Shifting



Multiple Colors Available



## Dynamic Contrast Detector

When two detectors are not enough, the Dynamic Contrast Detector recognizes the presence of the soft speaker and "Reaches Down" to amplify the quiet speech more.

- BASIC mode allows *very* long time constants for speech in noise
- FAST mode detects loud transients and releases quickly
- REACH mode recognizes alternating loud and soft sounds



Concealed Programming Socket

## Look- Ahead Detection

Monitors signal path for loud transients and reduces gain *in advance* of the oncoming transient- nearly eliminates signal clipping due to loud transients.

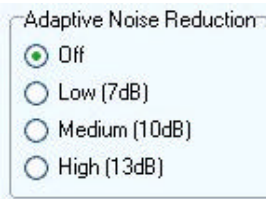


Multi-Memory(P1-P4) Push Button

## Layered Noise Reduction

Three level programmable selections to maximize comfort or maximize speech quality

- Syllabic layer reduces noise that is embedded in speech
- Environment layer slowly reduces noise when no speech is present
- Quick- Recovery layer gives noise reduction with fast recovery for speech onset
- All layers respond to noise of all intensities- replaces low-level expansion



DAI Input capability

## Adaptive Feedback Reduction

- Continuously monitors amplifier system for instability
- Uses adaptive LMS-type FIR filtering. Reduces feedback without lowering gain - spectral information is maintained
- Improved stability allows:
  - Higher gain fittings*
  - Looser earmold fitting*
  - Larger venting*



Battery Door Lock available