

### STANDARD FEATURES

- On/off volume control
- Four(4) pin socket
- Variable vent system
- Windscreen
- 1 year loss or damage
- 1 year warranty

### OPTIONS

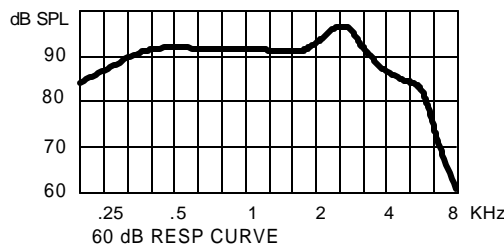
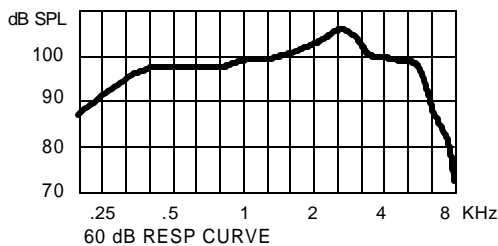
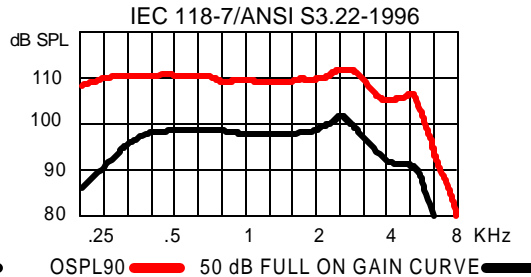
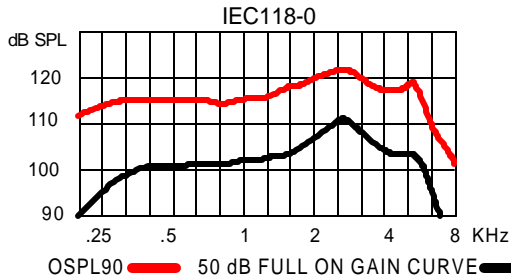
- Programmable volume control
- Two microphone directional system
- Multi-memory(2-4) with tone indicator
- Programmable telephone coil
- Program thru faceplate
- Trimmer volume control
- On/Off switch
- Foto-coat
- Flip Top wax trap
- Windscoop/windhood

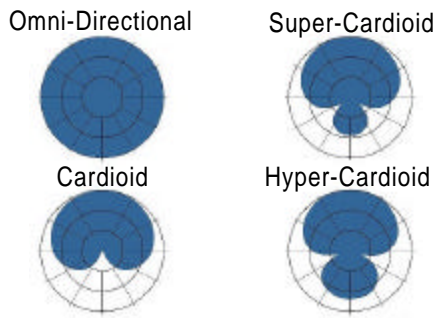
### Description

- The FSS INTUITION 4 is an advanced 4 channel Digital Wide Dynamic Range Compression system.
- Adaptive feedback cancellation for up to 20dB added stable gain.
- Layered Noise Reduction algorithm for improved comfort in noisy situations.
- Highly configurable digital signal processor provides excellent versatility, with independent channel compression 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.
- Adjustable Threshold Levels in each channel from 40 to 70dB
- AGC-o compression limiting
- Multi Memory Tone Indicator
- Programmable with HiPro or the Microconnect card and the Audina ezFit software(NOAH or stand alone).

### 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	112	122	112	+/- 3
	F Reference	dB SPL	109	119	109	+/- 3
	HF Average	dB SPL			110	+/- 3
Full-on Gain (Input: 50dB SPL)	Peak	dB	52	62	52	+/- 4
	F Reference	dB	47	56	47	+/- 4
	HF Average	dB			48	+/- 4
Nominal Reference Test Gain (RTG)		dB	34	44	33	
Frequency Range		Hz	200-7500			
Volume Control Range		dB	<40			
Total Harmonic Distortion at RTG:						
70 dB SPL in	500 Hz	%			1	<4
	800 Hz	%	1	1	1	<4
65 dB SPL in	1600 Hz	%			1	<4
Equivalent Input Noise Level		dB	30	30	30	<33
		dB			30	<33
Maximum Telecoil Sensitivity						
FOG; Input 10mA/m @ RTF		dB	96			
RTG; Input 31.6mA/m @ RTF		dB	100			
FOG; Input 31.6mA/m @ RTF		dB	99			
SPLITS @ RTF		dB	96			
HF Average		dB	98			
STS		dB	1.0			
Supply Current	input dB SPL		60	65		
at RTG	mA		1.00	1.00		<1.2
Battery Life	Type 13 Zinc-Air(240mAh)	hrs	240		240	
	Type 312 Zinc-Air(120mAh)	hrs	120		120	
AGC @ 2KHz	Attack	mS	10	10	10	+/-50%
	Release	mS	120	120	120	+/-50%
Reference Test Frequency(RTF)		Hz	1600	1600	1000	

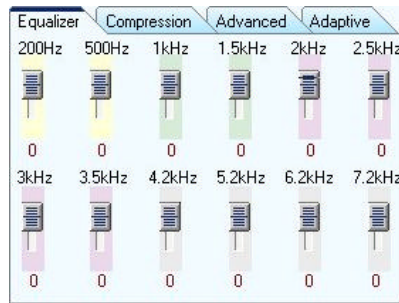




## Electronic Directional Processing

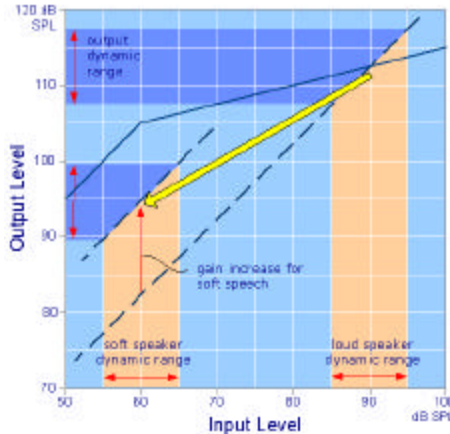
Multi-Directional patterns available

- Omni-Directional
- Super-Cardioid
- Hyper-Cardioid
- Cardioid



## Twelve (12) Band Gain Adjustment

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



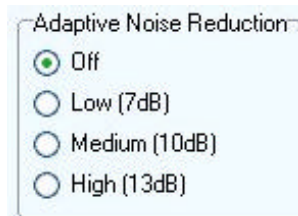
## Dynamic Contrast Detector

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

## 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.



## Layered Noise Reduction

Three level programmable selections to maximize comfort or 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

## 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*