



Unison 6 Custom

Adaptive Feedback Canceller

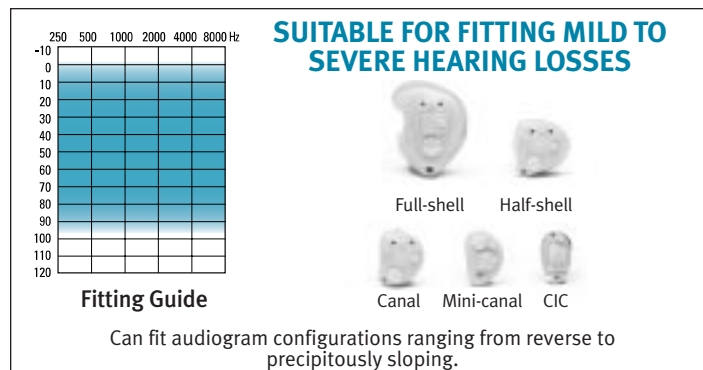
6 Channels with 6 Bands, 4 Processing Choices

HEARING AID FEATURES

- 6 channels with 6 bands provide flexibility for fitting wide range of audiometric configurations
- 4 processing choices to tailor to client needs
 - Digital Wide Dynamic Range Compression (Digital WDRC[®])
 - ASP Noise Suppression for automatic low-frequency attenuation
 - Adaptive Compression (AGCi)
 - Linear with Output Compression Limiting (AGCo)
- Adaptive feedback canceller addresses feedback in everyday situations
- Multiband feedback manager at time of fitting via Unifit™ software
- Intelligent power management responds to environmental inputs more efficiently to maximize battery life
- Multi-channel quiet mode expansion reduces gain for very soft inputs, yet preserves moderately soft inputs such as speech for more pure, natural sound
- Up to 3 programs allow customization for different listening environments
- Wearers choose program through push button; audible beep confirms selection
- Low battery warning
- Manual volume control can be disabled through Unifit
- Ideal volume indicator provides beep notification when correct gain is reached on the volume control
- Unison 6 can be programmed using Noah-compatible Unifit or standalone Unifit

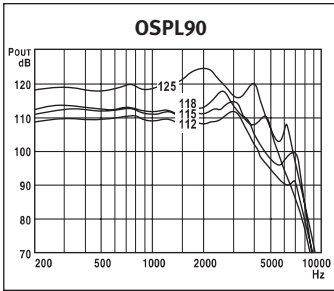
OPTIONS

- Selectable dual-microphone directionality for improved signal-to-noise ratio, AI-DI = 5.9 dB; offered with canal, half-shell, and full-shell
- Telecoil (T) mode or Microphone/Telecoil (MT) mode can be set as one of the 3 independent programs. Available with canal, half-shell, and full-shell
- Easy t-coil for automatic telecoil operation

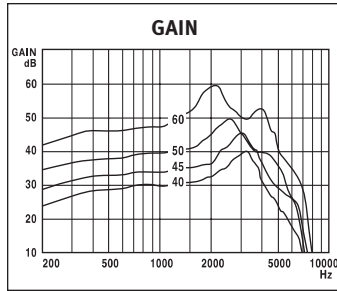


ANSI S3.22-1996 TECHNICAL DATA						
Styles	CIC	Mini-canal	Canal/ Half-shell	Full-shell	Full-shell Power	
Frequency Range (Hz)	200-7500	200-7500	200-7500	200-7000	200-7000	
Peak Gain	40 dB	45 dB	45 dB	50 dB	60 dB	
Peak Output	112 dB	112 dB	115 dB	118 dB	125 dB	
Reference Test Gain	32 dB	32 dB	35 dB	36 dB	43 dB	
HF Average Gain	32 dB	36 dB	37 dB	43 dB	52 dB	
HF Average OSPL ₉₀	109 dB	109 dB	112 dB	113 dB	120 dB	
Typical Battery Life (Zinc Air Premium)	90 h 10A	90 h 10A	150 h 312	290/150 h 13/312	240 h 13	
Current Drain at RTP	1.0 mA	1.0 mA	1.0 mA	1.0 mA	1.2 mA	
Telephone Magnetic Field Simulator						
HFA SPLITS	N/A	92 dB	93 dB	95 dB	103 dB	
STS SPLITS		0 dB	-4 dB	-1.0 dB	-1.0 dB	
Equivalent Input Noise at RTP	20 dB	19 dB	21 dB	20 dB	20 dB	
Total Harmonic Distortion at RTP						
500 Hz	typical 3%	5%	5%	5%	5%	
800 Hz	typical 1%	4%	4%	4%	4%	7%
1600 Hz	typical 1%	4%	4%	4%	4%	4%
Fast Time Constant						
Attack Time						40 ms
Release Time						100 ms
Slow Time Constant						
Attack Time						200 ms
Release Time						300 ms
Compression Ratio						
Wide Dynamic Range Compression						4:1 to 1:1
AGCi						6:1
AGCo						20:1

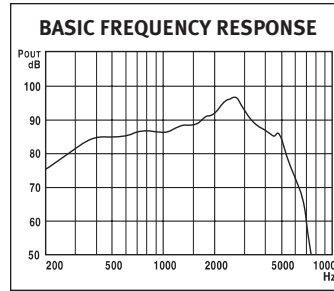
UNISON 6 CUSTOM DIGITAL ANSI S3.22 – 1996 SPECIFICATIONS



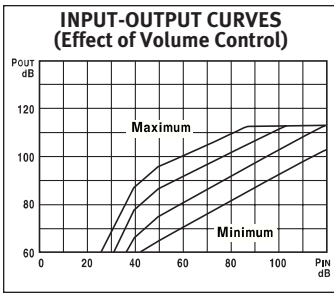
Input sound pressure level: 90 dB
Volume control: full on



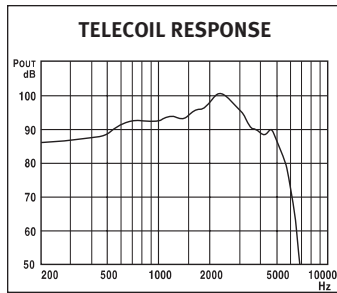
Input sound pressure level: 50 dB
Volume control: full on



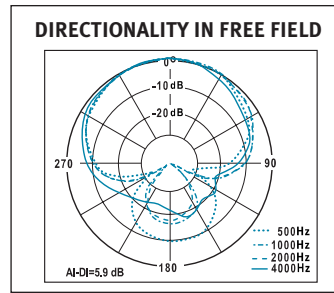
*Input sound pressure level: 50 dB
Volume control: RTP



*Input : at 2000 Hz
Volume control: as shown



*Input 31.6 mA/m
Volume control: RTP



AI-DI=5.9 dB

TEST CONDITIONS

ANSI-RTP: Reference Test Position of the Volume Control
BATTERY: 13 Zinc Air Premium
SOURCE: Voltage 1.3 V
Impedance 6 Ohms
COUPLER: HA-1
VENT: Closed at canal end
Refer to: "Summary of Test Conditions and Limits" for more details.

AID MARKING: Unison 6

COMPLIANCE

Our products are designed to meet all of the limits required when tested in accordance with the applicable standard.

REFERENCES

ASA: Acoustical Society of America, ANSI S3.22-1996
FDA: Food and Drug Administration, Part 801

Caution: Hearing aids and batteries can be harmful if swallowed or improperly used.

This product is manufactured under the protection of U.S. Patent #4349082 & #5204917.

We reserve the right to change specification data without notice as improvements are introduced.

*Note: The performance was measured based on Unison 6 full shell 118/50



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