



Unison 3 Custom

Multiband Feedback Manager

3 Channels with 6 Bands , 2 Processing Choices

HEARING AID FEATURES

- 3 channels with 6 bands provide flexibility for fitting wide range of audiometric configurations
- 2 processing choices to tailor to client needs
 - Digital Wide Dynamic Range Compression (Digital WDRC³)
 - Linear with Output Compression Limiting (AGCo)
- 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 3 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

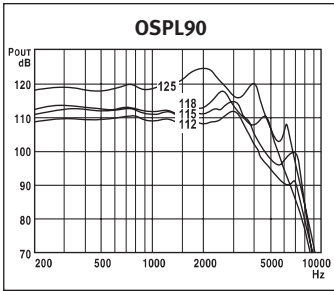
SUITABLE FOR FITTING MILD TO SEVERE HEARING LOSSES

Fitting Guide

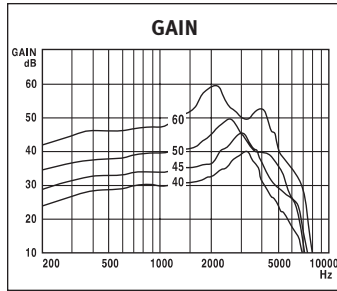
Can fit audiogram configurations ranging from reverse to precipitously sloping.

| ANSI 3.22-1996 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 |
| Compression Limiting | | | | | | 20:1 |

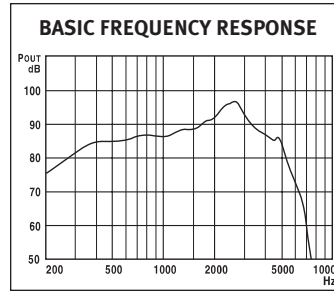
UNISON 3 CUSTOM DIGITAL ANSI S3.22 – 1996 SPECIFICATIONS



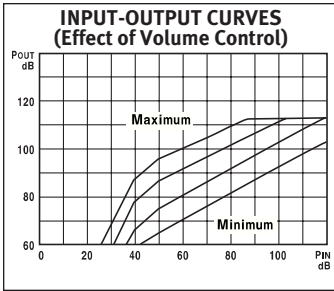
Input sound pressure level: 90 dB
Volume control: full on



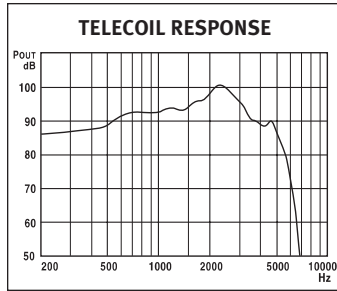
Input sound pressure level: 50 dB
Volume control: full on



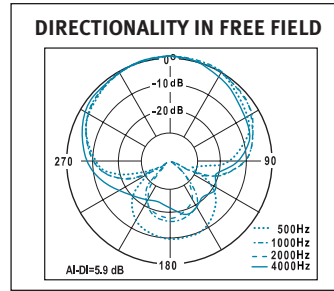
Input sound pressure level: 50 dB
Volume control: RTP



*Input : at 2000 Hz
Volume control: as shown



*Input 31.6 mA/m
Volume control: RTP



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 3

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 3 full shell 118/50



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