



## Unison 3 BTE Series

### Multiband Feedback Manager 3 Channels with 6 Bands, 2 Processing Choices

#### HEARING AID FEATURES

- 3 channels and 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 WDRC<sup>3</sup>)
  - Linear with Output Compression Limiting (AGCo)
- Multiband feedback manager at time of fitting via Unifit™ software
- Multiband quiet mode expansion reduces gain for very soft inputs, yet preserves moderately soft inputs such as speech for more pure, natural sound
- Intelligent power management responds to environmental inputs more efficiently to maximize battery life
- Choice of moderate gain, power or high power versions
- Up to 3 programs allow customization for different listening environments
- Telecoil (T) mode or Microphone/Telecoil (MT) mode can be set as one of the 3 independent programs
- Wearers choose program through push button; audible beep confirms selection
- Ideal volume indicator provides beep notification when correct gain is reached on the volume control
- Manual volume control that can be disabled through Unifit™
- Off position in volume control on high power
- Low battery warning
- Direct audio input - MLx compatible
- Battery size 13; high power 675
- Unison 3 can be programmed using Noah-compatible Unifit software or standalone version of Unifit

#### OPTIONS

- Unison 3 D, Unison 3P D, Unison 3HP D with selectable dual microphone directionality for improved signal-to-noise ratio, AI-DI=5.0 dB
- WiFi Mic digital wireless CROS/BiCROS system available with moderate and power versions
- Tamper resistant battery door
- Tamper resistant volume control
- Filtered earhook
- Choice of shell colours
- Direct audio input battery door unit

**SUITABLE FOR FITTING MILD TO PROFOUND HEARING LOSSES**

**Fitting Guide**

Can fit audiogram configurations ranging from reverse to precipitously sloping

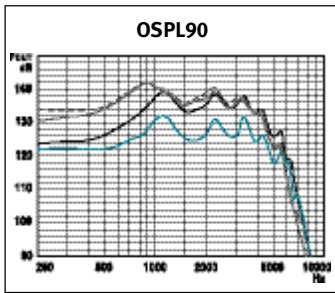
IEC 118-0 TECHNICAL DATA				
Styles	Unison 3 & 3 D	Unison 3P & 3P D	Unison 3 HP	Unison 3 HP D
Frequency Range (Hz)	100-6400	100-5800	200-5500	200-5800
Peak Gain	67 dB	76 dB	82 dB	82 dB
Peak Output	132 dB	139 dB	142 dB	142 dB
Reference Test Gain	49 dB	55 dB	61 dB	62 dB
Full on Average Gain*	60 dB	68 dB	73 dB	75 dB
Average Output*	126 dB	132 dB	138 dB	138 dB
Reference Test Frequency	1.6 kHz	1.6 kHz	1.6 kHz	1.6 kHz
Full on Gain at 1.6 kHz	61 dB	67 dB	71 dB	73 dB
Output at 1.6 kHz	125 dB	133 dB	136 dB	136 dB
Typical Battery Life (Zinc Air Premium)	265 h	210 h	430 h	430 h
Current Drain at RTG	1.1 mA	1.4 mA	1.4 mA	1.4 mA
Output with Inductive Input at 1.6kHz - Quiet Mode Expansion "off"	90 dB	98 dB	103 dB	103 dB
Equivalent Input Noise at RTG	15 dB	15 dB	15 dB	15 dB
Fast Time Constant				
Attack Time	< 40 ms	< 40 ms	< 40 ms	< 40 ms
Release Time	100 ms	100 ms	50 ms	50 ms
Slow Time Constant				
Attack Time	250 ms	250 ms	250 ms	250 ms
Release Time	300 ms	300 ms	300 ms	300 ms
Compression Ratio				
Wide Dynamic Range				
Compression	4:1 to 1:1	4:1 to 1:1	4:1 to 1:1	4:1 to 1:1
AGCo	20:1	20:1	20:1	20:1

\* Average of 500, 1000, and 2000 Hz

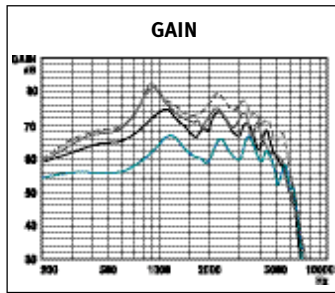
IEC 118-7 2CC COUPLER				
Peak Gain	60 dB	70 dB	76 dB	76 dB
Peak Output	127 dB	135 dB	138 dB	138 dB
Reference Test Gain	40 dB	48 dB	51 dB	50 dB
Full on Gain at 1.6 kHz	52 dB	60 dB	63 dB	65 dB
Output at 1.6 kHz	116 dB	125 dB	126 dB	128 dB
Frequency Range (Hz)	100-5800	100-5700	200-5900	200-5700

Note: Technical data generated with Quiet Mode Expansion "On"

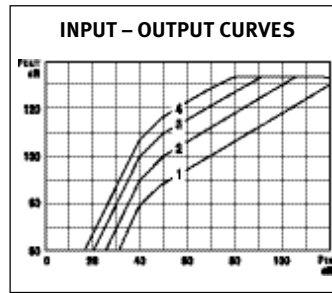
# UNISON 3 DIGITAL BTE SERIES IEC 118-0 EAR SIMULATOR SPECIFICATIONS



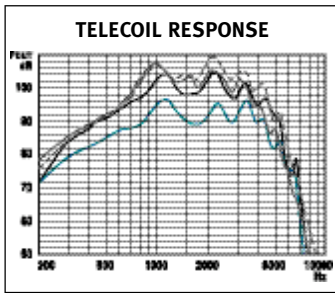
Input sound pressure level: 90 dB  
Volume control: full on



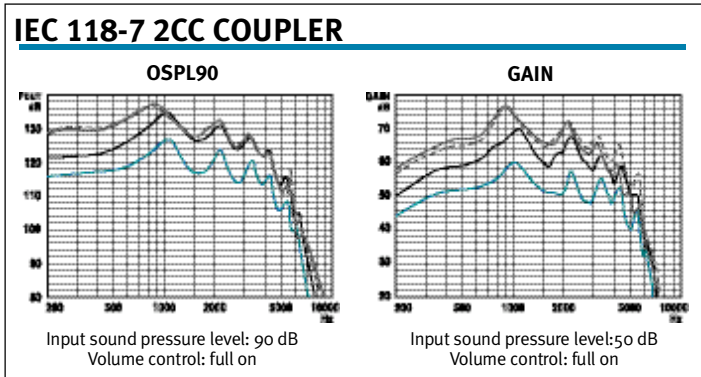
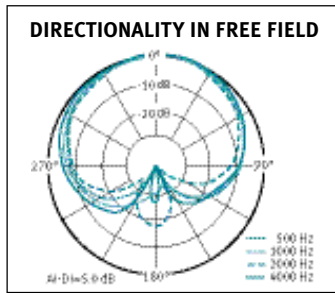
Input sound pressure level: 50 dB  
Volume control: full on



Unison 3P - Input at 1600 Hz  
Volume control: as shown



Input 1 mA/m  
Volume control: full on



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

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

- Unison 3 & 3 D
- Unison 3P & 3P D
- Unison 3HP
- - - Unison 3HP D

## TEST CONDITIONS

RTG-IEC: Reference Test Gain of the Volume Control: 2.5  
 BATTERY: 13 or 675 Zinc Air Premium  
 SOURCE: Voltage 1.3 V  
 Impedance 6 Ohms  
 EARHOOK: Unfiltered  
 TUBING: Length 25 mm,  
 Inside Diameter 1.93 mm  
 Refer to: "Summary of Test Conditions and Limits" for more details.

## AID MARKING:

Unison 3, Unison 3P  
 Unison 3HP  
 Unison 3 D, Unison 3P D  
 Unison 3HP D

## COMPLIANCE

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

## REFERENCES

IEC: International Electrotechnical Commission Publication 118-0, 118-7 (1983) European Standard EN 60118-0/A1 February, 1994  
 JIS: Japanese Industrial Standard JIS C 5512-2000

Caution: Hearing aids and batteries can be harmful if swallowed or improperly used. Sound pressure level of this hearing aid exceeds 132 dB SPL.  
 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.



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