



Unison 3 BTE Series

Adaptive Feedback Cancellor
Open Fitting Option, 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 WDRC³)
 - Linear with Output Compression Limiting (AGCo)
- Adaptive feedback canceller addresses feedback in everyday listening situations
- Multiband feedback manager at time of fitting via Unifit™ software
- Multi-channel 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 can be disabled through Unifit™
- Off position in volume control on high power
- Start up mute
- 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 Unifit

OPTIONS

- Unison 3 DM, 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
- Slim tube coupling for instant open fitting with Unison 3 DM
- WiFi Mic digital wireless CROS/BiCROS system available with moderate and power versions
- Tamper resistant battery door and volume control
- Filtered earhook
- Choice of shell colours
- Direct audio input battery door unit



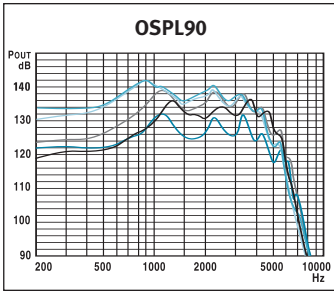
IEC 118-0 TECHNICAL DATA						
Styles	Unison 3DM (no vc) slim tube (optional)	Unison 3DM (no vc) unfiltered	Unison 3 & 3 D	Unison 3P & 3P D	Unison 3 HP	Unison 3 HP D
Frequency Range (Hz)	1200-6000	100-6100	100-6400	100-5800	200-5500	200-5800
Peak Gain	50 dB	61 dB	67 dB	76 dB	82 dB	82 dB
Peak Output	123 dB	136 dB	132 dB	139 dB	142 dB	142 dB
Reference Test Gain	38 dB	47 dB	49 dB	55 dB	61 dB	62 dB
Full on Average Gain*	12 dB	54 dB	60 dB	68 dB	73 dB	75 dB
Average Output*	93 dB	127 dB	126 dB	132 dB	138 dB	138 dB
Reference Test Frequency	2.5 kHz	1.6 kHz	1.6 kHz	1.6 kHz	1.6 kHz	1.6 kHz
Full on Gain at RTF	48 dB	57 dB	61 dB	67 dB	71 dB	73 dB
Output at RTF	120 dB	131 dB	125 dB	133 dB	136 dB	136 dB
Typical Battery Life (Zinc Air Premium)	240 h	240 h	265 h	210 h	430 h	430 h
Current Drain at RTG	1.2 mA	1.2 mA	1.1 mA	1.4 mA	1.4 mA	1.4 mA
Output with Inductive Input at RTF	78 dB	87 dB	90 dB	98 dB	103 dB	103 dB
Quiet Mode Expansion "off"						
Equivalent Input Noise at RTG	15 dB	15 dB	15 dB	15 dB	15 dB	15 dB
Fast Time Constant						
Attack Time	< 40 ms	< 40 ms	< 40 ms	< 40 ms	< 40 ms	< 40 ms
Release Time	100 ms	100 ms	100 ms	100 ms	100 ms	100 ms
Slow Time Constant						
Attack Time	250 ms	250 ms	250 ms	250 ms	250 ms	250 ms
Release Time	300 ms	300 ms	300 ms	300 ms	300 ms	300 ms
Compression Ratio						
Wide Dynamic Range Compression	4:1 - 1:1	4:1 - 1:1	4:1 - 1:1	4:1 - 1:1	4:1 - 1:1	4:1 - 1:1
AGCo	20:1	20:1	20:1	20:1	20:1	20:1

*Average of 500, 1000, and 2000 Hz

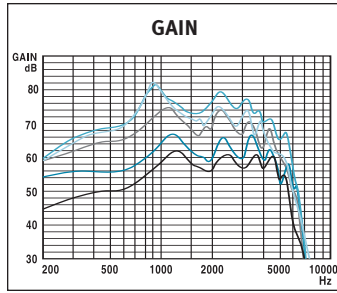
IEC 118-7 2CC COUPLER						
Peak Gain	38 dB	55 dB	60 dB	70 dB	76 dB	76 dB
Peak Output	112 dB	130 dB	127 dB	135 dB	138 dB	138 dB
Reference Test Gain	27 dB	37 dB	40 dB	48 dB	51 dB	50 dB
Full on Gain at RTF	38 dB	47 dB	52 dB	60 dB	63 dB	65 dB
Output at RTF	109 dB	122 dB	116 dB	125 dB	126 dB	128 dB
Frequency Range (Hz)	1200-5800	100-5900	100-5800	100-5700	200-5900	200-5700

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

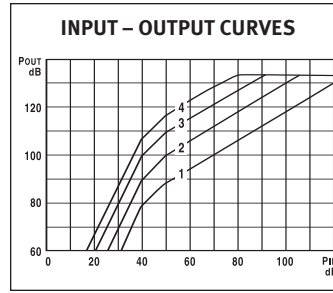
UNISON 3 DIGITAL BTE SERIES IEC 118-0 EAR SIMULATOR SPECIFICATIONS



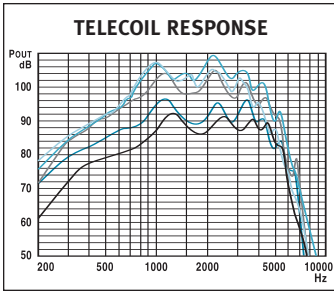
Input sound pressure level: 90 dB
Volume control: full on



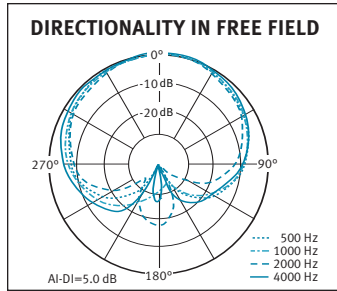
Input sound pressure level: 50 dB
Volume control: full on



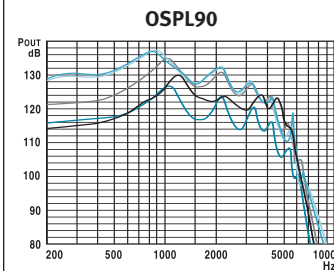
Unison 3P - Input at 1600 Hz
Volume control: as shown



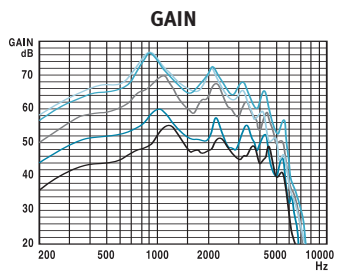
Input 1 mA/m
Volume control: full on



IEC 118-7 2CC COUPLER



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

TEST CONDITIONS

RTG-IEC: Reference Test Gain of the Volume Control: RTG
 BATTERY: 13 / 675 Zinc Air Premium
 SOURCE: Voltage 1.3 V
 Impedance 6 / 3.5 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 3 P
 Unison 3 HP, Unison 3 DM
 Unison 3 D, Unison 3 DP
 Unison 3 HPD

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.

