



## Unison 6 BTE Series

### Adaptive Feedback Cancellor 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 listening situations
- Multiband feedback manager at time of fitting via Unifit™ software
- Selectable dual microphone directionality for improved signal-to-noise, AI-DI=5.0 dB
- 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 6 can be programmed using Noah-compatible Unifit software or standalone version of Unifit

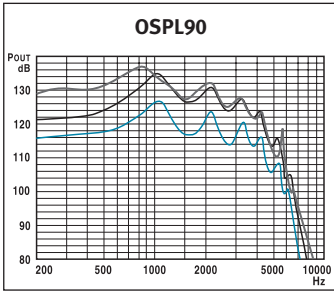
#### OPTIONS

- 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

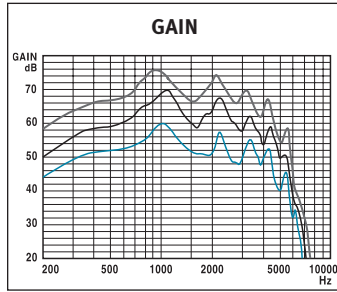


ANSI 3.22 - 1996 TECHNICAL DATA			
Styles	Unison 6	Unison 6P	Unison 6 HP
Frequency Range (Hz)	200-5800	200-6000	200-5800
Peak Gain	60 dB	70 dB	76 dB
Peak Output	127 dB	135 dB	138 dB
Reference Test Gain	40 dB	48 dB	53 dB
HF-Average Gain	54 dB	63 dB	70 dB
HF-Average OSPL90	117 dB	125 dB	130 dB
Typical Battery Life (Zinc Air Premium)	260 h	240 h	500 h
Current Drain at RTP	1.1 mA	1.2 mA	1.2 mA
Telephone Magnetic Field Simulator			
HFA SPLITS	97 dB	106 dB	112 dB
STS SPLITS	-3.0 dB	-2.0 dB	-1.0 dB
Equivalent Input Noise at RTP	15 dB	15 dB	15 dB
Total Harmonic Distortion at RTP			
500 Hz typical 3%	< 5%	< 7%	< 5%
800 Hz typical 1%	< 5%	< 5%	< 5%
1600 Hz typical 1%	< 5%	< 5%	< 5%
Fast Time Constant			
Attack Time	< 40 ms	< 40 ms	< 40 ms
Release Time	50 ms	50 ms	50 ms
Slow Time Constant			
Attack Time	250 ms	250 ms	250 ms
Release Time	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
AGCi	6:1	6:1	6:1
AGCo	20:1	20:1	20:1

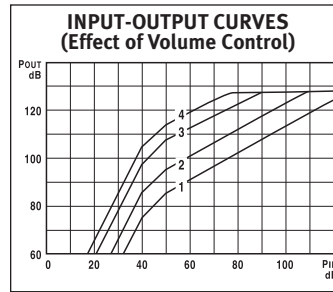
# UNISON 6 DIGITAL BTE SERIES ANSI S3.22 – 1996 SPECIFICATIONS



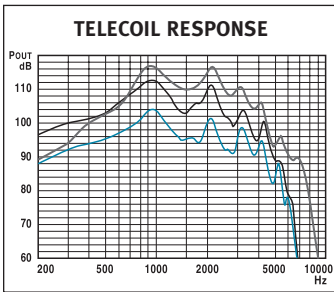
Input sound pressure level: 90 dB  
Volume control: full on



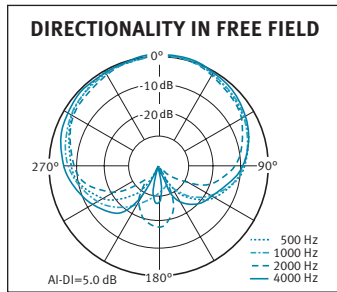
Input sound pressure level: 50 dB  
Volume control: full on



Unison 3P Input at 2000 Hz  
Volume control: as shown



Input 31.6 mA/m  
Volume control: RTP



- Unison 6
- Unison 6P
- Unison 6HP

## TEST CONDITIONS

ANSI-RTP: Reference Test Position of the Volume Control: 3.1  
 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 6  
 Unison 6P  
 Unison 6HP

## 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 & Drug Administration,  
 Part 801

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

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

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

Sound pressure level of this hearing aid exceeds 132 dB SPL.



**CORPORATE OFFICE**  
 Kitchener, Ontario, Canada  
 1 877 492 6244; 1 519 895 0100

**CANADA**  
 Cambridge, Ontario  
 1 800 265 8255; 1 519 650 9111

**CHINA**  
 Suzhou, China  
 86 512 6258 2258

**EUROPE**  
 Oeffingen, Germany  
 49 711 658538 0

**FRANCE**  
 Bron, France  
 04 26 23 22 00

**INTERNATIONAL**  
 Kitchener, Ontario, Canada  
 1 519 895 0100

**NETHERLANDS**  
 Nieuwegein, The Netherlands  
 +31 (0) 30 604 9325

**UK**  
 Warrington, Cheshire, England  
 01925 247810

**U.S.A.**  
 Plymouth, Minnesota  
 1 800 888 8882; 1 763 744 3300

www.unitronhearing.com