

**AD229b**

*Diagnostic Audiometer*



*Save time on routine  
Focus on results*



**Interacoustics<sup>®</sup>**

leading diagnostic solutions

# AD229b

## Diagnostic Audiometer

### Save time on routine

The high quality of the AD229b makes it well suited for any stationary or portable application where diagnostic testing of air, bone and speech is performed. The time saving automatic threshold test combined with the computer interface makes the AD229b ideal for modern healthcare environments. The Talk Forward and Talk Back functions make it easy to work with the AD229b, especially with sound booth installations. Full NOAH compatibility completes the picture.

#### Auto threshold

The AD229b incorporates a facility for performing threshold determination automatically. The test procedure is based on the Hughson-Westlake method (up 5dB, down 10dB) and conforms to ISO 8253-1. Desired test frequencies may be selected freely by the user. After testing the test results can be recalled from the memory of the AD229b or transferred to a PC for database storage or printing.

#### ABLB / Stenger

As well as the pre-programmed ABLB test the AD229b can perform the Stenger Test with pure tones for evaluating malingering, or as a binaural speech test with a monophonic speech signal.

#### Printing

PC connectivity provides options for data storage and full page reports via NOAH or the Interacoustics database software OtoAccess™.

#### Data storage with Windows® based software

Transferring data to a PC is possible by two different applications. The Interacoustics database OtoAccess™ enables data collection from multiple instrument sources into one patient file. Hearing aid information may also be included. NOAH hearing aid fitting software will also integrate the test data when used with the Interacoustics NOAH audiometry module software.

#### Free field capability

Speech and pure tone may be presented under free field conditions. The available system ranges from 90dB SPL to 115dB SPL, and is medically approved. A set of connection panels, AFC8, is available for connection to a sound booth. Ask your local distributor for details.

#### Speech testing and communication

Live Voice speech testing is easy to perform using the built-in goose neck microphone.

CD or tape players may be connected.

Talk back is provided for sound field installations.

Talk forward is available using the built-in microphone. The intensity is easily adjusted on the front panel.

Monitoring is possible either through the operator's headset or through the built-in monitor loudspeaker.

#### Other features

- Sound field installation
- Synchronous masking



Hard shell carrying case



#### **Tests**

- *Hughson-Westlake automated threshold test (ISO 8253-1 or OHSA)*
- *ABLB*
- *Stenger pure tone and speech*

#### **AD229b**

- *Versatile deployment of instrument*
- *PC integration for printing, storage, sharing and hearing aid fitting*
- *Cost-effective solution for clinicians needing a well-featured audiometer*



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# Technical Specifications

|  |  |
|--|--|
| <b>Intensity :</b>                               | AC: -10 to 120 dB HL in 1 or 5dB steps. BC: -10 to 80 dB in 1 or 5 dB steps  |
| <b>Frequency range:</b>                          | 125-8000 Hz  |
| <b>Input:</b>                                    | Tone, Warble Tone $\pm 5\%$ , 5Hz (true sine wave frequency modulation), tape/CD, mic.   |
| <b>Masking stimulus:</b>                         | Automatic selection of narrow band noise (or white noise) for tone presentation and speech noise for speech presentation.  |
| <b>Outputs:</b>                                  | Left, Right, Bone L+R, Insert Phones, Insert Masking, FF1, FF2.  |
| <b>Talk forward:</b>                             | Built-in talk forward microphone. 0-110dB SPL continuously adjustable on operation panel.  |
| <b>Monitor:</b>                                  | Output of tape or CD through built-in speaker or through external earphone or speaker.   |
| <b>Tone presentation:</b>                        | Manual or Reverse. Single pulse. Multiple pulses 250-5000 msec. on/off.  |
| <b>Frequency selection:</b>                      | 125Hz, 250Hz, 750Hz, 1500Hz or 8kHz may freely be deselected   |
| <b>Special tests/test battery:</b>               | ABLB. Stenger. Stenger Speech. Auto threshold.   |
| <b>Display:</b>                                  | Alpha-Numeric Display.   |
| <b>Examples of compatible Windows® software:</b> | Interacoustics OtoAccess™ database program and diagnostic modules software.<br>NOAH hearing aid fitting software.  |
| <b>Power supply:</b>                             | External UPS400 (included). 100-240 V  |
| <b>Consumption:</b>                              | 60 VA  |
| <b>Dimensions and weight:</b>                    | (LxWxH): 36x26x10 cm / 14x10x4 inches.<br>Weight: 1.8kg/4.0 lbs. (external power supply UPS400 + 0.8kg/1.8 lbs.)   |
| <b>Standards:</b>                                | IEC 60645 -1, ANSI S3.6, Type 2. Speech: IEC 60645-2/ANSI S3.6 type B or B-E.<br>Safety: IEC 60601-1, Class 1, Type B.<br>ECM: IEC 60601-1-2   |
| <b>Medical CE-mark:</b>                          | Yes  |
| <b>Included parts:</b>                           | TDH39 Audiometric headset<br>B71 Bone conductor<br>APS3 Patient response button<br>UPS400 External power Supply<br>200 AF12 Audiogram charts, 3 Pens<br>Power cable<br>Dust cover<br>Operation manual CD<br>Multilingual CE instructions for use   |
| <b>Optional parts:</b>                           | 21925 Amplivox audiocups, noise reducing headset<br>50250 Peltor noise reducing headset (may be supplied at no extra cost)<br>ACC25 Carrying case<br>EARTone5A Audiometric insert phones<br>HDA200 Audiometric headset<br>CIR22 Insert earphone set for masking or monitoring<br>UCA40 USB computer cable<br>IFC69 (9 pins) serial computer cable<br>EM400 Talk back microphone<br>MTH400 Monitor headset<br>MTH400M Monitor headset with boom mic.<br>Push buttons instead of rotary switches<br>Interacoustics database OtoAccess™ and diagnostic modules software<br>IA-NOAH-Aud Software |

## Other audiometers:

- PA5 Pediatric Audiometer
- AS608 Screening Audiometer
- AS216 Screening Audiometer
- AD226 Diagnostic Audiometer
- AD229e Diagnostic Audiometer
- AC33 Clinical Audiometer
- AC40 Clinical Audiometer
- Equinox Clinical Audiometer

## Audiometry and Middle Ear Analyzer in one:

- AA220 Audio Traveller
- AA222 Audio Traveller



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## Sales and service in your area:



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Read more here:  
[www.interacoustics.com/com/AD229b](http://www.interacoustics.com/com/AD229b)

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