

INTRODUCING

The

AVANT™

A²D

2-Channel Diagnostic Audiometer



Actual Size
4" x 4" x 1"

The AVANT™ A²D Audiometer

The AVANT™ A²D diagnostic audiometer is a remarkable breakthrough in design and function. This advanced computerized diagnostic audiometer measures only 4" x 4" x 1" in size yet offers the full 2-channel testing capability of large console devices. The system comes with either 3A® Insert Earphones or TDH-39 headphones, Bone Conductor, and Free Field testing when connected to amplified speakers.

The AVANT™ A²D diagnostic audiometer provides:

- Pure tone, pulsed tone and warble tone stimuli
- Masking signals - White Noise, NBN or external device (CD/Tape)
- 1dB and 5dB attenuation steps
- Maximum output 120dB HL for air - mid range frequencies; 70dB HL for bone
- Simple USB connection to computer
- Weight: .4lbs
- NOAH™ & TIMS® compatible
- Operator microphone and Talk Back capability
- Lighted indicators identify the ear under test

This computerized device, when coupled with the optional AVANT™ REM Speech system, allows for a completely portable testing and fitting system when combined with today's powerful laptop computers, or it can be configured for sound booth installations.



MedRx INC™

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The AVANT A²D diagnostic audiometer is a compact PC-based dual channel audiometer providing air, bone and speech testing capability. This advanced system connects to computer via a simple USB cable connection. Measuring only 4" square, this instrument, when combined with a laptop computer can be portable and conveniently configured for any office layout.

Technical Specifications

Channels:

2 channels

Outputs:

EarTone 3A[®] Inserts or TDH-39 headphones; Bone; Free-Field via optional external amplifier and speakers

Pure Tone Frequency Range:

Air Conduction: 125 Hz to 8000 Hz
 Bone Conduction: 250 Hz to 8000 Hz
 Sound Field: 125 Hz to 8000 Hz
 Frequency Accuracy: ± 0.5%

Attenuation:

1 dB step or 5 dB step, user selectable

Distortion:

EarTone 3A: ≤ 3% @ 500 Hz, 118.5 dB SPL
 TDH-39: ≤ 2% @ 500 Hz, 118.5 dB SPL
 B-71: ≤ 5% @ 1 KHz, 70 dB SPL

Maximum Output:

Air Conduction: 120 dB HL for mid range frequencies
 Bone Conduction: 70 dB HL
 Sound Field: 95 dB HL (depends on speakers)

Signal Format:

Steady: Tone, Continuous
 Warble: Tone Modulated 5 ±10 % off center frequency with 5 Hz wave
 Pulsed: Tone Pulsed with user selectable time, either Continuous or Warble

Speech Input:

Microphone, MP3/WAV Files, CD, External player

Masking Signals:

Narrow Band Noise in Tone Audiometry
 White Noise or Opposite playback channel (for CD/File/AUX) in Speech Audiometry

Communication Port:

USB

Dimensions:

4" x 4" x 1" (L x W x H)

Net Weight:

< .4 lb



Cert #507707

Design and specifications are subject to change without notice.

Features & Benefits

- Small Footprint.....Only 4" x 4" x 1". Reduces equipment clutter. Allows for portability. Lightweight.
- PC Interface.....User interface is intuitive and friendly. Easy keyboard operation. Easy software update capability
- Standard Transducer OutputsUse either insert phones or TDH 39 headset
- Dual ChannelMultiple signal routing. Complete air, bone, speech system.
- Patient Communication SystemOperator microphone and Talk Back microphone allow sound booth set up if desired
- Patient Response SwitchSimple one button operation
- Speaker ConnectionStandard 1/8" stereo jack allows sound field testing when connected to an external amplifier and speakers
- USB Connection.....One cable connection to computer
- NOAH[™] & TIMS[®] Compatible.....Universal data collection and archiving

Computer Requirements

- IBM[®]-PC compatible computer
- Intel[™] Pentium III, 1 GHz or similar
- 256 MB RAM
- 256 MB free hard drive space
- Windows[®] XP Professional
- Available 2.0 USB port (2)
- CD-ROM or DVD-ROM drive
- Serial COM port (HI-PRO connection)*
- Video Capture Card or Frame Grabber

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* USB to serial port adapter can be used, but may be unreliable.