



## **Diagnostic Audiometer AD100 (With built-in Lithium battery)**

- ★ Ideal for hearing screening work in schools, medical centers, hospitals or enterprises.
- ★ Stylish appearance design, compact and lightweight, portable and convenient, built-in battery.
- ★ Test function: air conduction (AC), bone conduction (BC).
- ★ With built-in microphone or external goose neck microphone (optional), easy to communicate with the tester.
- ★ With standard USB 2.0 data interface, the audiometry data can be saved after connecting to the workstation. According to the National Occupational Health Standard of the People's Republic of China, it can analyze and generate a professional noise diagnosis report.
- ★ Custom report Logo and name can be set through the workstation, and A4 or B5 format report can also be generated.

## **Technical Specification**

1. **Channels:** Two independent output channels
2. **Air conduction:**
  - (1) Frequency: 125Hz~8000Hz;
  - (2) Hearing level: -10~110Db.
3. **Bone Conduction:**
  - (1) Frequency: 250Hz~6000Hz.
  - (2) Hearing level: -10~60dB
4. **Minimum hearing level:** The minimum hearing level should be -10dB for pure-tone audiometer of Class 1 and Class 3.

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5. **Frequency accuracy:** The allowable error of frequency for this audiometer is  $\pm 2\%$ .
6. **The accuracy of audiometer controller:** Step of the audiometer controller should be  $\leq 5\text{dB}$ ; the deviation of the indication difference between two adjacent hearing levels should be  $\leq 3/10$  or 1 dB of the step. Adopt the smaller value.
7. **Masking Noise Level Range:** The masking noise of the audiometer should be able to mask pure tone of at least 60dB at 250Hz, 75dB at 500 Hz, 80dB at 1000Hz~4000Hz. The masking noise level should be adjustable within the range from 0dB to the above level.
8. **The accuracy of masking noise level :** The allowable error of the masking noise level should be  $-3\text{dB} \sim +5\text{dB}$ .
9. **The accuracy of masking noise level controller:** The step of the masking noise level controller should be  $\leq 5\text{dB}$ . The deviation of the indication difference between two adjacent hearing levels should be  $\leq 3/10$  or 1 dB of the step. Adopt the smaller value.
10. When the unwanted sound radiated by pure tone audiometer is  $>50\text{dB HL}$ , people with normal hearing should not hear any unwanted sound radiated by the pure tone audiometer.
11. **Protection Function:** Protect the tester's hearing from damage as much as possible
12. **Computer interface:** USB 2.0 data transmission interface, can be connected to the workstation for printing test report
13. **Online Diagnosis:** self-analysis and generation of occupational noise-induced hearing loss diagnosis report according to the "National Occupational Health Standards of the People's Republic of China"
14. **Operating environment:** Temperature  $10\text{ }^{\circ}\text{C} \sim 40\text{ }^{\circ}\text{C}$ ,  
Relative humidity 30%~ 90%, Pressure 86 kPa ~ 106 kPa
15. **Warm-up time:** 5 to 10 minutes
16. Mean time between failures  $\geq 1000\text{h}$
17. **Host size:** 325mm\*195mm\*27mm
18. **Portable, lightweight:** weight: the host is about 910G, the gross weight is about 4.6KG
19. **Power adapter:** Input 100V-240V ~ 50/60Hz 1.5A; Output DC 12V/4A
20. **Built-in battery:** nominal voltage 7.4V/5000mAh; continuous operation  $\geq 8$  hours, standby operation mode  $\geq 1$  week
21. **Output:** TDH 39 Air Conduction Earphone, B71 Bone Conduction Earphone.
22. **Safety standard:** GB 9706.1-2007 GB/T 14710-2009
23. **Audiometer reference standard:** GB/T 7341.1-2010 JJG 388-2012
24. **Production license number:** Guangdong Food and Drug Administration Production No.20091764
25. **Standard configuration:** TDH39 Air Conduction Headset, B71 Bone Conduction Headset, Transponder, Power Cable, USB Data Cable, Software, Audiometer Aluminum Box.

