ADAPTABLE MID-LEVEL AUDIOMETER

TECHNICAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

W x D x H (LCD Raised): 14.8 in x 10.5 in x 13.8 in (37.5 cm x 26.7 cm x 35.1 cm)

Height (LCD Lowered): 4 in (10.2 cm)

Weight: 8.2 lb (3.6 kg)

Shipping Weight: 20 lb (9.1 kg)

CHANNELS - 1.5 PURE TONE

FREQUENCY RANGE

- **Air Conduction:** 125 - 20,000 Hz
- **Bone Conduction:** 250 Hz - 8,000 Hz
- **Sound Field:** 125 - 8000 Hz
- **Paired Inserts:** 125 Hz - 8,000 Hz
- **Frequency Accuracy:** ± 1%
- **Total Harmonic Distortion:** < 2% (earphones and paired insert phones) < 5% (bone vibrator)

HEARING LEVEL RANGE

- **Air Conduction:** -10 dB HL - 120 dB HL
- **Bone Conduction (B81):**
  -10 dB HL - 90 dB HL (mastoid)
  -10 dB HL - 80 dB HL (forehead)
- **Sound Field:**
  -10 dBHL - 90 dBHL (amplified speakers)
  -10 dBHL - 102 dBHL (external amplifier and high performance speakers)
- **Paired Inserts:** -10 dB HL - 120 dB HL
- **Masking Intensity Range (Calibrated in Effective Masking) Narrow Band Noise:** Maximum dB HL is 15 dB below tone

SIGNAL FORMAT

- **Steady:** Tone continuously present
- **Pulsed:** Tone pulsed 200 msec ON, 200 msec OFF
- **FM:** Modulation Rate: 5 Hz
  Modulation Depth +/- 5%
- **Pediatric Noise (optional):** Continuously presented or pulsed

SPEECH

Microphone: For live voice testing and communications

INT/EXT A & INT/EXT B: Can be utilized for internal wave files or recorded speech material from an external device

HEARING LEVEL RANGE

- **Air Conduction:** -10 dB HL - 100 dB HL
- **Bone Conduction:**
  -10 dB HL - 60 dB HL (mastoid)
  -10 dB HL - 50 dB HL (forehead)
- **Sound Field:** -10 dB HL - 90 dB HL (amplified speakers)
- **Paired Inserts:** -10 dB HL - 95 dB HL

SPEECH NOISE

- **Air Conduction:** -10 dB HL - 95 dB HL
- **Bone Conduction:**
  -10 dB HL - 50 dB HL (mastoid)
  -10 dB HL - 40 dB HL (forehead)
- **Sound Field:** -10 dB HL - 85 dB HL

WHITE NOISE

- **Air Conduction:** -10 dB HL - 95 dB HL
- **Bone Conduction:**
  -10 dB HL - 60 dB HL (mastoid)
  -10 dB HL - 50 dB HL (forehead)
- **Sound Field:** -10 dB HL - 80 dB HL

SPECIAL TESTS (OPTIONAL)

ABLB
SISI
High Frequency Audiometry
TEN Test
QuickSIN
BKB-SIN
Tone Decay
AMTAS Pro

SPECIAL TESTS (USER DEFINED)

Lombard Test
Pure Tone Stenger
Speech Stenger
SAL

COMMUNICATION AND MONITORING

Talk Forward: Permits the tester to speak through the test microphone into the selected transducer at approximately the intensity level set by the front panel controls

Talk Back: Allows the tester to listen to comments from the patient in the testing booth

Monitor: The monitor headset can be used by the tester to listen to Channel 1, Channel 2, and/or Talk Back signals

ENVIRONMENTAL

Temperature: 59° F (15° C) to 104° F (40° C)

Relative Humidity: 10% to 95% (non-condensing)

Ambient Pressure Range: 98 kPa to 104 kPa

Background Sound Level: < 35 dB(A)

Storage Temperature: 32° F (0° C) to 122° F (50° C)

Transport Temperature: -4° F (-20° C) to 122° F (50° C)

POWER

Power Consumption: 90 Watts

Voltage & Amperage: 100 - 240 VAC, 0.5 A max

Frequency: 50 Hz and 60 Hz

QUALITY SYSTEM

Manufactured, designed, developed, and marketed under ISO 13485 certified quality systems.

COMPLIANCE

- Designed, tested, and manufactured to meet the following domestic (USA), Canadian, European, and International Standards:
- **ANSI S3.6, IEC 60645-1, IEC 60645-2, ISO 389**
- **ANSI/AAMIES 60601-1** Medical Electrical Equipment: General Requirement for Safety
- **IEC/EN 60601-1** International Standards for Medical Electrical Equipment: General Requirement for Safety
- **CSA C22.2 # 601-1-M90**
- **Medical Device Directive (MDD)** to comply with EC Directive 93/42/EEC