**TECHNICAL SPECIFICATIONS**

**DIMENSIONS AND WEIGHT**

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>W x D x H (LCD raised)</td>
<td>20.1 in x 14.6 in x 13.2 in (51 cm x 37 cm x 33.5 cm)</td>
</tr>
<tr>
<td>Height (LCD lowered)</td>
<td>5.5 in (14 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>17 lb (7.7 kg)</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>27 lb (12.25 kg)</td>
</tr>
</tbody>
</table>

**CHANNELS**

- Two Independent Channels

**PURE TONE – CHANNELS 1 AND 2**

**FREQUENCY RANGE**

- **Air Conduction:** 125 Hz - 20,000 Hz*
- **Bone Conduction:** 250 Hz - 8,000 Hz
- **Sound Field:** 125 Hz - 8,000 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:**
  - Mastoid: -10 dB HL - 90 dB HL
  - Forehead: -10 dB HL - 80 dB HL
- **Sound Field:**
  - -10 dB HL - 90 dB HL (basic speakers)
  - -10 dB HL - 96 dB HL (high performance speakers)
  - -10 dB HL - 102 dB HL (high performance speakers and external booster amplifier)
- **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
  - **White Noise:** Maximum dB HL is 30 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%
- **Pulsed/PM:** Pulsed and modulated
- **Pediatric Noise**
- **Pediatric Noise Pulsed**

**SPEECH – CHANNELS 1 AND 2**

- **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 digital device

**INTENSITY RANGE**

- **Air Conduction:** -10 dB HL - 100 dB HL
- **Bone Conduction:**
  - Mastoid: -10 dB HL - 60 dB HL
  - Forehead: -10 dB HL - 50 dB HL
- **Sound Field:** -10 dB HL - 90 dB HL
- **Paired Inserts:** -10 dB HL - 95 dB HL

**MASKING INTENSITY RANGE**

- **Speech Noise:**
  - **Air Conduction:** -10 dB HL - 95 dB HL
  - **Bone Conduction:**
    - -10 dB HL - 60 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**

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

**SPECIAL TESTS (USER DEFINED)**

- **MLB**
- **Lombard test**
- **Pure Tone Stenger**
- **Speech Stenger**
- **SAL**
- **Doerfler - Stewart Test**

**COMMUNICATIONS AND MONITORING**

- **Talk Forward:** Permits the tester to speak through the examiner microphone into the selected transducer
- **Talk Back:** Allows the examiner to listen to comments from the patient in the testing booth

**STANDARD ACCESSORIES**

- Wireless Keyboard and Mouse
- Gooseneck Microphone

**POWER**

- **Power Consumption:** 90 Watts
- **Voltage & Amperage:** 100-240, 1.0 A max
- **Frequency:** 50 Hz and 60 Hz

**ENVIRONMENTAL**

- **Temperature:** +59° F (15° C) to +104° F (40° C)
- **Storage Temperature:** -4° F (-20° C) to +140° F (60° C)
- **Relative Humidity:** 5% to 90% (non-condensing)
- **Ambient Pressure Range:** 98 kPa to 104 kPa
- **Background Sound Level:** < 35 dB(A)
- **Frequency of Use:** Once a year to multiple times per day

**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, ANSI S3.43, IEC 60645-1, IEC 60645-2, ISO 389**
  - **UL 60601-1** American Standards for Medical Electrical Equipment
  - **IEC/EN 60601-1** International Standards for Medical Electrical Equipment
  - **CSA C22.2 # 601-1-M90**
  - **Medical Device Directive (MDD) to comply with 93/42/EEC**

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*Testing above 8,000 Hz requires HF transducer option*