

ML4000 Model

Automated Diagnostic Hearing Evaluations

Accurate, efficient, affordable diagnostic audiometry designed specifically for military use.

Portable with a compact footprint and telehealth applications, the Otogram ML4000 offers a solution for connecting patients and providers for hearing related conditions across varied military environments.

The Otogram™ is a patented, automated diagnostic audiometer that utilizes sophisticated algorithms to perform a battery of audiometric tests. Tests can be administered by a trained technician with clinical oversight, making the Otogram a cost-effective tool for increasing productivity without compromising efficacy.

Automated Diagnostic Testing and Monitoring

- Programmable diagnostic test battery
- Screening and monitoring protocols
- · Administered by technicians with clinical oversight

Screening Questionnaires

- Hearing Loss
- Balance
- Optional Customized Screening Protocols (Tinnitus, Traumatic Brain Injury)

Information Management

- Track and compare results
- Centralized database
- EMR compatible

Telemedicine Enabled

- Remote testing
- Remote hearing aid fitting and follow-up



CONFIGURABLE TEST BATTERY

- Air Conduction
- Bone Conduction
- Speech Reception Threshold
- Speech Discrimination
- Tympanogram
- DP Otoacoustic Emission
- Acoustic Reflex
- Stenger

TECHNICAL SPECIFICATIONS ML4000 Model

Tympanometry Probe tone: 226 Hz +/- 2% at 85 dB

Total harmonic distortion: <5% Total range: 0.2 cm3 to 6.0 cm3

Acoustic Reflex Reflex stimuli: Pure tone

Ipsilateral and contralateral stimulation PT freq: 500 Hz, 1000 Hz, 2000 Hz, 4000 Hz

Freq accuracy: +/- 3%
Total harmonic distortion: < 3%

Level: 500 Hz-4000 Hz; 80 dB HL to 105 dB HL Air pressure sweep: Forward or backward

DP Otoacoustic Emissions 45-70 dB SL stimulus level

2 stimulus channels

1000, 1500, 2000, 3000, 4000, 5000, 6000, 8000 Hz

Audiometry Channels: 2

Channel Input: Tone, external, narrow band noise, speech noise

Channel Output: Insert phones Left/Right, headset phone Left/Right, bone

Frequency Range: 125 Hz to 8000 Hz

Testing & Instruction Languages American English, British English, Australian English, Spanish, Russian,

Portuguese, Italian, Korean, Vietnamese, Arabic, Cantonese, Simple Mandarin Chinese, Traditional Mandarin Chinese

Dimensions Closed: 12.25"W x 13.25"D x 5"H (31.1cm W x 33.7cm D x 12.7cm H)

Open: 12.25"W x 13.25"D x 14"H (31.1cm W x 33.7cm D x 35.5cm H)

Weight 15.5 lbs (7.6 kg) - Otogram

4.5 lbs (2.0 kg) - Otovest and accessories 35.5 lbs (15.9 kg) packaged shipping weight

Weights are approximate

Power Line voltage: 100-240 V AC (+/-10%)

Frequency range: 50 – 60 Hz (+/-5%)

Line voltage current audiometer: 0.2 amps at 120 V or 0.1 amps at 240 V AC,

1.25 amp maximum

Line voltage current computer: 1.4 amps at 100 V or 0.7 amps at 240 V $\,$

Power consumption: 150 watts maximum

Environment Operating: 60° F to 105° F (15° C to 40° C)

Storage: -40°F to 140°F (-40°C to 60°C)

Humidity: 5% to 90%

Calibration & Standards ANSI S3.39 – 1987 (Type 3)

IEC 60601-1-1 Medical Electrical Equipment Requirements for Safety

IEC 60601-1-2 EMC emission and immunity

