The Amplivox Otowave is shaped for success in accurate middle ear measurements.

**Ergonomics**
Elegantly shaped to follow the contours of a hand and with a perfect weight distribution, tests can be completed with confidence and accuracy.

**Ease of use**
The Otowave is very intuitive to use with on-screen information displayed before, during and after the test. The compliance peak, compliance peak pressure, gradient, ear canal volume and an ipsilateral reflex test will be measured within seconds. The programmable reflex test can be configured for one frequency (1kHz) for the Otowave 102-1 and four (500, 1kHz, 2kHz and 4kHz) for the Otowave 102-4.

**Recording results**
Results are displayed for review on a large high-resolution graphics display. Results can be:

- saved within internal memory with a patient identifier
- printed via an infra-red connection to the optional portable printer
- transferred to a PC with an IrDA port, NOAH3 database with the optional Amplivox impedance module

**Portability**
Lightweight and weighing just 380g, the Otowave is designed to be a totally portable ‘go anywhere’ instrument which is reliable, accurate and easy to use. The Otowave requires no external power or data cables.
Technical specifications

**Tympanometry measurements**
- **Probe tone:** 226Hz +/-0.1%, 85dB +/-2dB
- **Pressure range:** +200daPa to -400daPa +/-10daPa
- **Direction of sweep:** Positive to negative
- **Volumetric range:** 0.2 to 5ml +/- 0.01ml or 10% over range whichever is greater
- **Analysis performed:** Compliance peak level, compliance peak pressure level, gradient and equivalent ear canal volume

**Reflex measurements**
- **Otowave 102-1:** 1kHz +/-0.1%
- **Otowave 102-4:** 500Hz, 1kHz, 2kHz & 4kHz +/-0.1%
- **Reflex dB range:** 85 to 100 dBHL (programmable in 5 or 10 dB steps)
- **Reflex measurement range:** 0.01ml to 0.5ml +/-0.01ml
- **Analysis performed:** Reflex maximum amplitude and pass/fail at each test level

**Data management**
- **Internal database:** 30 patient records
- **Patient record identification**
- **Data transfer to designated printer or PC application**
- **Electronic data storage (database PC requirements):**
  - **NOAH aud module**
  - **Amplivox impedance module**
  - **Infra-red PC port**
- **Printing**
  - **Designated printer:** high speed portable thermal printer
  - **Data transfer:** Infra-red IrDA 9600 Baud
  - **Printing may also be completed via a PC with the relevant applications**

**Physical data**
- **Power (battery):**
  - 4x Alkaline AA
  - 4x NiMH (>=2.3Ah) rechargeable
- **Dimensions (mm):** 210 long x 80 wide x 40 high envelope
- **Weight:** 380 grams (including batteries)

**Standards**
- The Otowave conforms to the relevant clauses of the following standards.
  - **Safety:** EN60601-1
  - **EMC:** EN 60601-1-2
  - **Impedance:** EN60645-5 Type 2 tympanometer
  - **CE Mark:** Complies to EU Medical Device Directive

**Equipment**

**Standard equipment**
- Test cavities
- Operating manual
- Set of disposable ear-tips
- Carrying case
- 4 x 1.5V alkaline ‘AA’ batteries (UK only)

**Optional equipment**
- Amplivox NOAH impedance module
- Additional sets of disposable ear-tips
- High speed portable thermal printer

**Measurements**

**Tympanometry:** when testing children, very fast, accurate middle ear measurements are essential. The advanced technology within the Otowave makes this possible.

**Acoustic reflex:** the Amplivox Otowave provides a comprehensive user-defined reflex measurement facility. This programmable function includes reflex selection, levels and sensitivity. The large display area facilitates a graphical display of the reflex response and a pass/fail result.

Amplivox Ltd, 6 Oasis Park, Eynsham, Oxfordshire OX29 4TP United Kingdom
Tel: +44 (0) 1865 880846 • Fax: +44 (0) 1865 880426
E-mail: sales@amplivox.ltd.uk
www.amplivox.ltd.uk

The Amplivox policy is one of continuous development and consequently the equipment may vary in detail from the description and specification in this publication.