

# Otowave 302 & 302+

## Desktop tympanometry

The **Amplivox Otowave 302** and **302+** are desktop solutions for reliable and objective middle ear measurements.

### Choice and functionality

The two versions of the Otowave 302 are each designed to satisfy exacting clinical and screening measurement requirements.

The Otowave 302+ features a comprehensive specification including user defined:

- Probe tone impedance measurements at 226Hz and 1000Hz (scalar, vector and component measurements; admittance (Y), susceptance (B), conductance (G))
- Range of ipsilateral and contralateral reflex test measurements at 500Hz, 1kHz, 2kHz and 4kHz
- Six user configurable test profiles designed to standardise test sessions and reduce test times. This includes three profiles for adult, child and neonate, plus three customisable profiles based upon your needs.

The Otowave 302 provides 226Hz probe tone impedance measurements (scalar) together with a user programmable range of ipsilateral and contralateral reflex test measurements at 500Hz, 1 kHz, 2 kHz and 4 kHz.

### Recording results

The Otowave 302 & 302+ are very intuitive to use with clear on-screen information, which can be easily seen from a wide range of viewing positions. Results can be:

- Saved within internal memory with a patient identifier
- Printed via the optional portable thermal printer
- Transferred to a PC using the supplied ampliSuite application for paper print and electronic document requirements
- Imported into a NOAH database using the supplied Amplivox NOAH module. Results can also be viewed in a number of EMR audiology applications including Auditbase™ and Practice Navigator™

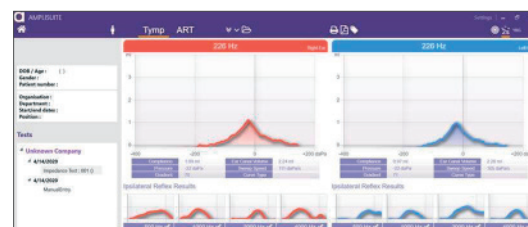
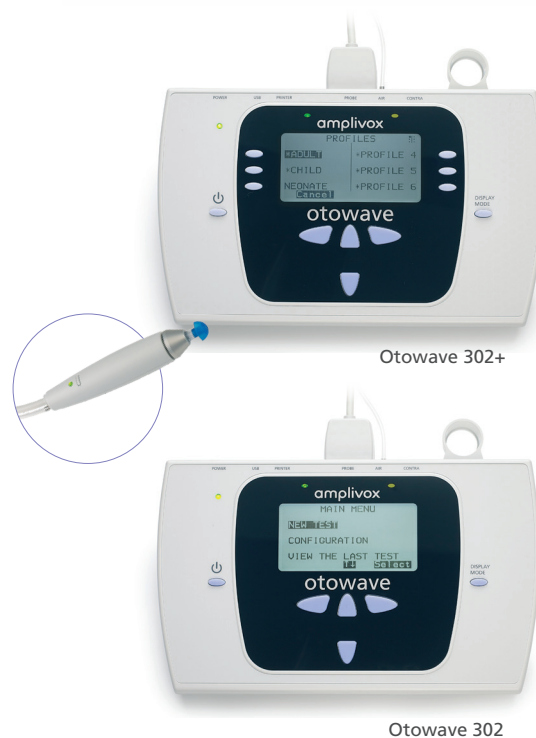
### Usage and portability

The Otowave 302 & 302+ can easily be used in a static clinical setting, where its small size is of great benefit when clinic space is at a premium.

The Otowave 302 & 302+ are also supplied with a custom designed carry case for any potential mobile requirements.

### KEY FEATURES

- **Fast, accurate impedance measurements**
- **Intuitive use**
- **226Hz or 1000Hz tympanometry (302+)**
- **Optimised, user selectable measurement speeds**
- **Ipsilateral and contralateral reflex tests**
- **Six user configured test protocols (302+)**
- **Easy to read graphics display**
- **Portable**
- **Internal memory, PC connectivity and optional portable printer**



specialists in healthcare products

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## Desktop tympanometry



### Technical Specifications

#### User selected languages

- English
- Italian
- French
- Portuguese
- German
- Spanish

#### Tympanometry measurements

Probe tone level & accuracy:	226Hz +/-2%; 85dB SPL +/-2dB 1000Hz +/- 2%; 79dB SPL +/-2dB (302+) over ear canal volume range
Pressure range & accuracy:	+200daPa to -400daPa +/- 10daPa or +/-10% (whichever is larger) over range 0.1ml to 5ml
Direction of sweep:	Positive to negative pressure
Volumetric range & accuracy:	226Hz: 0.2ml to 5ml 1000Hz: 0.1ml to 5ml +/-0.1ml or +/-5% (whichever is larger)
Analysis performed:	Admittance peak level in ml (226Hz) or m $\bar{O}$ (1000Hz) & pressure at peak; Gradient in daPa (for 226Hz); Ear canal volume (ECV)
Measurement sweep speeds:	Selectable: 100, 200 or 300 daPa/sec

#### Reflex measurements

Reflex type:	Ipsilateral, contralateral or both
Reflex frequencies:	Ipsilateral and contralateral: User-configurable. Selectable from: 500Hz, 1kHz, 2kHz & 4kHz (+/-2%)
Reflex levels (max levels):	Ipsilateral: 70dBHL to 100dBHL (+/-3dB) Contralateral: 70dBHL to 110dBHL (+/-3dB) 95 / 90 / 85dBHL max, with 5dB steps (Otowave 302+)
Reflex detection threshold:	0.01ml to 0.5ml +/-0.01ml (configurable in 0.01ml steps)
Analysis performed:	Reflex maximum amplitude and pass/ fail at each test level
EMC:	IEC 60601-1-2
Impedance:	IEC 60645-5 Type 2 tympanometer ANSI S3.39 Type 2 tympanometer
CE Mark:	Complies to EU Medical Device Directive

#### Data management

Internal database:	36 patient records with patient record identifier
Printing direct to printer:	Optional designated high speed portable thermal printer
PC database management	The NOAH Impedance module is supplied as standard for data transfer to the NOAH database using a USB connection
Viewing & printing from PC:	The ampliSuite application is supplied as standard to transfer data to a PC using a USB connection for review and print

#### Physical data

Power:	Mains: 100-240Vac; 50/60Hz via Amplivox mains adapter (approved to medical safety standards)
Dimensions (mm):	270 wide x 175 deep x 70 high (excluding connections) Probe: 130 long x 25 (max) diameter
Weight:	Base unit: 760g Probe: 115g (incl. connecting cable)

#### Equipment

##### Standard equipment

- Test cavities
- Starter pack of disposable  
ear tips
- Contralateral transducer
- Mains adapter
- USB cable
- USB containing  
operational manual,  
ampliSuite 1.2 PC  
software and NOAH
- Carry case

##### Optional equipment

- Portable thermal printer
- Rolls of thermal printer  
paper
- Additional quantities of  
disposable ear tips
- Additional probe tips
- ampliSuite Pro PC  
software

Product specification may vary by country

**amplivox**

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