



Beautiful from  
any angle

the new otowave 102

amplivox



# TECHNICAL DATA



## TYMPANOMETRY

**Probe tone:** 226Hz  $\pm$ 2%; 85dB SPL  $\pm$ 2dB  
**Pressure:** +200daPa to -400daPa  $\pm$ 10daPa or  $\pm$  0%  
**Volume range:** 0.2ml to 5ml  $\pm$  0.1ml or  $\pm$  5%  
**Sweep speed:** 200-300daPa/sec; dependent on ear/cavity volume  
**Pressure limits (safety cutout) :** +600 to -800 daPa  
**Reflex analysis:** Pass/fail



## ACOUSTIC REFLEX

**Measurement mode:** Ipsilateral  
**Levels:** 0.5, 1, 2, 4kHz ( $\pm$ 2%) configurable over range 70dB to 100dBHL  $\pm$ 3dB (4kHz restricted to 95dBHL)  
**No. of reflex levels:** 100dB with 5dB or 10 dB steps; 95dB, 90dB or 85dB with 5 dB steps  
**Reflex analysis:** Pass/fail at each level tested  
**Pressure used for reflex test:** Pressure at tympanogram peak or at 0daPa (if no peak found)  
**Reflex stimulus control:** Stimulus presented at all levels or stimulus increases when a reflex is found  
**Reflex detection:** 0.01ml to 0.5ml  $\pm$  0.01ml (step size: 0.01ml)  
**Reflex tone duration** 0.6 s



## GENERAL

**Real Time Clock:** Time and date stamp applied to all recordings, and to last calibration date  
**Memory Patient Database:** 30  
**Power supply:** 4 AA cells; either Alkaline (1.5V nominal) or NiMH > 30 days without main batteries fitted  
Number of recordings from one set of cells  
Approx. 200 (Alkaline) or 100 (NiMH)  
**Languages:** English, German, French, Spanish, Portuguese, Italian  
**Printing:** Martel MCP8830 or Sanibel MPT-II (Infra-red)  
**Warm-up period:** None at room temperature  
**Physical:** Display: 128 x 64 pixels  
**Dimensions:** 190mm long x 80mm wide x 40mm high  
**Weight:** 285 g (without batteries), 380 g (with batteries)

**Operating temperature:** +15°C to +35°C  
**Operating humidity:** 30% to 90% RH, non-condensing  
**Operating atmospheric pressure:** 980 to 1040 mb  
**Transport and storage temperature:** -20°C to +70°C  
**Transport and storage humidity:** 10% to 90% RH, non-condensing  
**Transport and storage atmospheric pressure:** 900 to 1100 mb



## STANDARDS

**Safety:** IEC 60601-1 (plus UL, CSA & EN deviations)  
**EMC:** IEC 60601-1-2  
**Performance:** IEC 60645-5, Type 2 Tympanometer  
**CE mark:** To the EU Medical Device Directive

LET'S GET STARTED

# TYMPANOMETRY

LIVE TYMPANOMETRY

PASS REFER AUTO-EVALUATION

OPTIMIZED MANUAL EVALUATION



Follow the test on  
screen.

WHAT'S NEW

# TYMPANOMETRY

LIVE TYMPANOMETRY

PASS REFER AUTO-EVALUATION

OPTIMIZED MANUAL EVALUATION



Evaluation based on  
BSA  
recommendation.

WHAT'S NEW

# TYMPANOMETRY

LIVE TYMPANOMETRY

PASS REFER AUTO-EVALUATION

OPTIMIZED MANUAL EVALUATION



Manually define the curve peak and thereby Pass/Refer.

WHAT'S NEW

## ACOUSTIC REFLEX

REFLEX POLARITY OPTION

2 REFLEX MODE  
(QUICK AND MULTI LEVEL)



Graph being plotted  
upwards or upwards.

WHAT'S NEW



## ACOUSTIC REFLEX

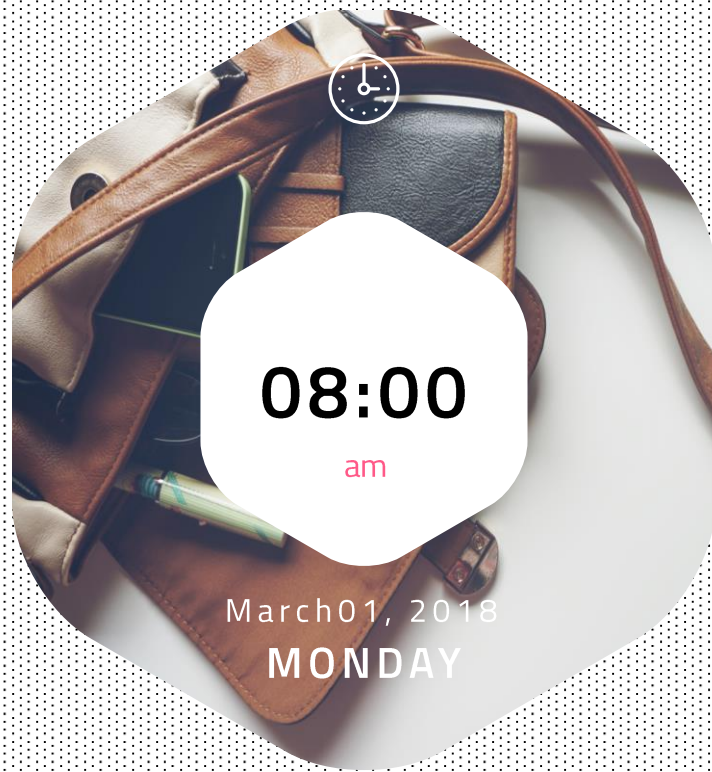
REFLEX POLARITY OPTION

2 REFLEX MODE  
(QUICK AND MULTI LEVEL)



Measure your entire threshold or only 1 level at the desired test frequency.

WHAT'S NEW



WHAT IS IN THE BAG?



CARRYING CASE

SET OF DISPOSABLE EAR-TIPS

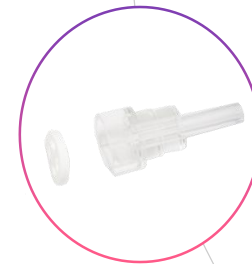


## STANDARD ACCESSORIES



4 IN 1 TEST CAVITY

ADDITIONAL PROBE TIP WITH GASKET



4 x 1.5V 'AA' BATTERIES

PC MODULE AMPLISUITE AND NOAH MODULE



## OPTIONAL ACCESSORIES

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ADDITIONAL EAR-TIPS



INFRA-RED USB ADAPTER (PC)



ADDITIONAL PROBE TIP  
WITH GASKET



PORTABLE SANIBEL MPT-II THERMAL PRINTER  
THERMAL PRINTER PAPER  
(included as standard item in US sales config.)



WHAT CAN I DO  
FOR YOU?



USPs



# LIGHTWEIGHT AND SMALL



Extremely portable to bring with you to your patient. No unnecessary weight to stress your back with.

# LONG-LASTING BATTERY LIFE



Wherever you go, otowave is with you & you can trust in its perseverance.

# LIVE TYMP & GRAPHS ON-SCREEN



Review test results while the measurement is ongoing. Big graphs on-display great overview.



## **AUTO AND MANUAL EVALUATION**



The otowave automatically evaluates test results and you pass and refer or gives you control to adjust the outcome.

# MULTI REFLEX MODE



Quick level: Run a test at a single level you choose for 1, 2, 3 or 4 frequencies

Threshold test: Measure the entire threshold for a level span defined by you for 1, 2, 3 or 4 frequencies

# INTERNAL DATABASE & SHORT-TERM MEMORY



Every last conducted test is placed in the short-term memory and can be reviewed at any time.

Store results to an individual patient for later data processing.

# STANDARD AND EXTENDED EAR SEAL CHECK



Standard ear seal check in regular ear canal volumes.

Extended ear seal check for smaller ear canals, testing low and high pressure to identify seal.

# TARGET GROUP



# 1

## PRIMARY CARE

Easy and fast assessment of the ear drum and middle ear status, supported by Jerger classification of tympanogram curves and automatic evaluation of ipsilateral reflex results, to align with tone and speech audiogram.



# 2 HEARING AID DISPENSORS

226 Hz Tympanometry can identify holes in the ear drum before taking an impression. It allows also to differentiate a conductive hearing loss from other middle ear pathologies.



# 3 PRESCHOOL SCREENING

Middle ear pathologies are the most common in young children and can quickly be identified running a tympanogram.

The tympanometer size and battery operation allows testing in any environment.





EXTRANET  
& SOCIAL MEDIA

YOUTUBE  
VIDEOS

USER SUPPORT  
& SERVICE

NEW MATERIALS  
ARE AVAILABLE

**Everything is online for you, so you can access everything, anywhere.**

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**For every product there  
is a video to show  
how to set-up and  
use the product.**

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# ALL YOU NEED IS A PHONE

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Thank you



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