



Handy, lightweight  
and easy to use

## MedRx Otowave Tymp 102/202

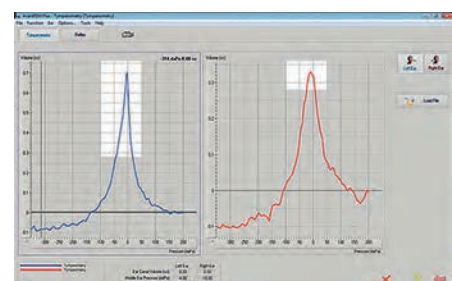
With Otowave Tymp  
tests can be completed  
with confidence and  
accuracy.

## Wireless handheld Tympanometers

The MedRx 102 and 202 Otowave Tympanometers form  
a comprehensive range of screening and diagnostic  
Tympanometers

### MedRx Otowave Tymp

- Fast and accurate middle ear measurement
- Programmable 4-frequency reflex tests
- PC-Interface
- Large, high resolution display
- Lightweight and portable
- Ergonomic design
- NOAH™ compatible
- MedRx AVANT™ compatible



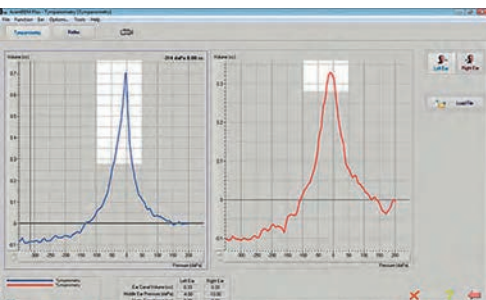
The results will be displayed graphically  
in high resolution on a large easy to read  
graphic screen and can be internally stored  
or transferred to a PC where the results can  
be stored in the AVANT impedance module.

# Otowave Tymp

# MedRx Tympanometry Otowave 102

## Specs

## MedRx Otowave Tymp 102



Screenshot of how the results will be displayed in the MedRx Tymp software

## MedRx Otowave Tymp 102-4

### HANDHELD SCREENING TYMPANOMETRY

This wireless handheld Tympanometer with large screen provides 226 Hz probe tone impedance measurement including 4 acoustic reflex frequencies.

Results are stored internally (up to 20 records).

All data can be transferred to PC via MedRx software module and IR dongle. The software is NOAH™ compatible.

### FEATURES

- Fast and accurate IPSI-lateral middle ear measurement
- Lightweight and portable, ergonomic design
- PC-Interface (IR dongle)
- Large, high resolution screen
- Programmable 4-frequency reflex tests; 500, 1000, 2000 and 4000 Hz
- Supplied in a convenient carrying case
- NOAH™ compatible

### STANDARD ACCESSORIES 102-4

- IR-Dongle
- Test Cavities
- 4 x 1,5 V Alkaline „AA“ batteries
- Set of disposable ear-tips
- Carrying Case, Operating manual



# MedRx Tympanometry Otowave 202

## MedRx Otowave Tymp 202 / 202-H

### FUNCTIONALITY

There are two versions of the Otowave 202 available:

The standard Otowave 202 provides 226 Hz probe tone impedance measurements together with a user programmable range of both ipsi and contra lateral reflex test measurements at 500 Hz, 1 kHz, 2 kHz and 4 kHz.

The Otowave 202-H option features a comprehensive range of test functions including user defined 226 Hz and 1000 Hz probe tone impedance measurements and a user programmable range of both ipsi and contra lateral reflex test measurements at 500 Hz, 1 kHz, 2 kHz and 4 kHz.

### ADVANCED TYMPANOMETRY

The Otowave 202 provides fast, objective middle ear measurements to assist with the identification of middle ear disorders in neonates, children and adults. When using the Otowave 202 in 226 Hz probe tone mode, the compliance peak, compliance peak pressure, gradient and ear canal volume can be measured within seconds.

When using the Otowave 202-H option in 1000 Hz probe tone mode, users can easily select a preferred display by simply pressing the probe function key to switch between:

- Scalar mode: a traditional admittance tympanogram, as above (Y only compensation)
- Vector mode: a tympanogram displaying B-G compensation
- Component mode: the separate admittance (Y), susceptance (B) and conductance (G) measurements are displayed for clinical review. The ear canal volume is displayed whichever 1000Hz mode is selected.

### FEATURES

- Ipsi and contra lateral middle ear measurement
- Lightweight and portable
- External probe, 226 Hz and 1000 Hz (202-H) probe tone
- Large, high resolution screen
- Data transfer to PC via USB cable
- Programmable 4-frequency reflex tests; 500, 1000, 2000 and 4000 Hz
- Scalar mode: a traditional admittance tympanogram, (Y only compensation)
- Vector mode: a tympanogram displaying B-G compensation
- Separate admittance (Y), susceptance (B) and conductance (G) measurements are displayed for clinical review
- Supplied in a convenient carrying case
- NOAH™ compatible

### Specs

## MedRx Otowave Tymp 202

### STANDARD ACCESSORIES

#### 202 / 202-H

- Test Cavities
- 4 x 1,5 V Alkaline „AA“ batteries
- Contralateral transducer
- Set of disposable ear-tips
- Carrying Case
- MedRx impedance module NOAH™
- USB cable, Mains adapter, Operating manual



# Welcome to the New Generation.

## Specs

# MedRx Otowave Tymp 102/202

## About MedRx

MedRx, Inc. is a U.S. based global manufacturer and developer of advanced computerized diagnostic and hearing instrument fitting technologies, specifically designed for the hearing care professional.

MedRx has created a remarkable New Generation of discreet, yet powerful PC-based instrumentation for Audiometry, Real Ear Measurement, Live Speech Mapping, Hearing Instrument Testing & Evaluation and Video Otoscopy.

### Technical Specifications

### Otowave Tymp 102-4

### Otowave Tymp 202/-H

TYMPANOMETRY MEASUREMENTS	Probe Tone Levels: 226 Hz $\pm$ 2%, 85 dB SPL $\pm$ 2 dB, over range 0.2 ml to 5 ml	Probe Tone Levels: 226 Hz $\pm$ 2%, 85 dB SPL $\pm$ 2 dB 1000 Hz $\pm$ 2%; 79 dB SPL $\pm$ 2 dB (202-H only) over ear canal volume range
PRESSURE RANGE	+200 daPa to -400 daPa $\pm$ 10 daPa	+200 daPa to -400 daPa $\pm$ 10 daPa or $\pm$ 10% (whichever is larger) over range 0.1ml to 5ml
EAR VOLUME MEASUREMENT RANGE	0.2 ml to 5 ml $\pm$ 0.01 ml or 10 % (whichever is larger) over entire range	226 Hz: 0.2 ml to 5 ml ; 1000 Hz: 0.1 ml to 5ml $\pm$ 0.1ml or $\pm$ 5% (whichever is larger)
REFLEX MEASUREMENTS REFLEX DB RANGE	500 Hz, 1 kHz, 2 kHz, 4 kHz Frequency $\pm$ 0.1 % 85 to 100 dBHL (programmable in 5 or 10 dB steps)	Ipsilateral and contralateral or both User-selectable from: 500 Hz, 1 kHz, 2 kHz and 4 kHz ( $\pm$ 2 %) Reflex levels: Ipsilateral: 70 dBHL to 110 dBHL ( $\pm$ 3dB) Contralateral: 70 dBHL to 110 dBHL ( $\pm$ 3dB)
REFLEX MEASUREMENT RANGE:	0.01 ml to 0.5 ml $\pm$ 0.01 ml configurable in 0.01 ml steps	0.01ml to 0.5ml $\pm$ 0.01ml configurable in 0.01ml steps
STANDARDS	Safety IEC 60601-1; EMC IEC 60601-1-2 Impedance IEC 60645-5 Type 2 Tympanometer ANSI S3.39 CE Mark Complies to EU Medical Device Directive	Safety IEC 60601-1; EMC IEC 60601-1-2 Impedance IEC 60645-5 Type 2 Tympanometer ANSI S3.39 CE Mark Complies to EU Medical Device Directive
POWER	Battery 4 x Alkaline AA cells or 4 x NiMH ( $\leq$ 2.3Ah) rechargeable	Mains: 100-240 VAC; 50/60 Hz via mains adapter (approved in medical safety standards); Batteries: 4 x AA (either Alkaline or NiMH, the latter recharged external to the instrument)
DIMENSIONS	Approx. 21 x 8 x 4 cm	Base unit: 19 x 8.5 x 4 cm (excluding connections) Probe: 13 x 2.5 cm (max.) diameter
WEIGHT	380 Gram	Base unit: 330 g (without batteries, using mains power), 430 g (with batteries), Probe: 110 g (incl. connecting cable)

