

r16m

Screening Portable Middle Ear Analyzer.
Your best ally.



It's beautifully made. To meet your needs.

Made from high-quality materials, R16M is exquisitely designed. The R16M combines tympanometry and reflexes tests, all in a uniquely portable and wireless device with 7" touch screen display. The R16M includes a useful Quick test for fast and consecutive Tymp and Reflexes testing.

All the tests you need at your fingertips.

Although R16M small dimensions, it offers the same range of testing capabilities as a diagnostic device. R16M can perform Middle Ear Analysis at both 226 Hz and 1 kHz and Reflexes on Ipsi and Contra side. R16M-D includes Decay with non acoustic and ETF tests for intact and patulous eustachian tube. All the accessories are conceived to maximize patient comfort.



It's friendly. In every sense of the word.

All the fundamental elements of R16M - display, chipset, wireless connection, and user interface design - work together to create the best possible experience. Nothing comes between you and R16M large, touch screen, brilliant display that makes R16M capable of so much more in every test you perform.

Data? No problem. A new way to get connected.

R16M new Bluetooth capabilities keep you connected faster than ever. PC-integration through Bluetooth technology with MDS software for Windows* for an easy transfer of audiometric data to the PC. MDS software features include data storage, locally or in Noah, advanced report page and appointment scheduler.



Innovative thinking
has arrived



www.resonance-audiology.com



GENERAL SPECIFICATIONS

TEST TYPES

- Tympanometry, Reflexes, nr.1 Quick Test with editable protocols, High Frequency Tympanometry, Decay* with non-acoustic monitor, ETF* for intact membrane and patulous ET

REPORTS

- Data transfer to PC with Resonance Management Data Suite installed
- Dedicated report template

DATA TRANSFER TO PC

- Bluetooth 2.1

USB PORT

- Nr.1 USB host type A (pen drive connection for software upgrade)
- Nr.1 mini USB slave

WINDOWS® COMPATIBLE SOFTWARE

- Resonance MDS Management Data Suite

DISPLAY

- 7" TFT Resistive touch screen display
- 800 by 480 resolution at 133 ppi 262K colors

MAIN SYSTEM COMPONENTS

- Operative system: Microsoft® Windows® Embedded Compact
- CPU: TEGRA® 2 dual core @ 1Ghz

TYMPANOMETRY SPECS

PROBE TONE

- 226 Hz for Admittance (Y) curve tympanometry
- 1000 Hz for Admittance (Y) curve tympanometry with added Susceptance (B) and Conductance (G) curves
- The probe is supplied in handheld mode

ADMITTANCE MEASUREMENTS

- Compliance range at 226 Hz: 0.05 up to 7 ml
- 1000 Hz: 0 to +25 mmho

AIR PRESSURE

- Range: +100/-200 or +200/-400 daPa
- Pressure accuracy: ± 10 daPa or $\pm 10\%$
- Sweep rate: automatic or fast (200 daPa/sec)
- Safety limitations: -750 up to +550 daPa

EUSTACHIAN TUBE FUNCTION*

- ETF test for use with intact eardrums and patulous ET

ACOUSTIC REFLEX TESTS

- Reflex test method: Threshold and Fixed level
- Stimulus duration: 0.5 or 1 sec.
- User selectable protocols for all test methods
- Ipsilateral or Contralateral stimulation for all reflex test
- Automated peak search functions available for Quick Test
- Reflex Decay*: Manual
- Stimulus duration: 10 or 20 sec.

FREQUENCIES AND INTENSITY RANGES

Ipsilateral:

- Pure tone level range (dB HL) from 50 to 100
- Frequency: 500, 1000, 2000, 4000 Hz

Contralateral:

- Pure tone level range (dB HL) from 50 to 110
- Frequency: 500, 1000, 2000, 4000 Hz

POWER

POWER SUPPLY:

- Built-in 3.6 V/3.1 Ah rechargeable lithium-ion battery
- External Medical power supply/charger: Input 100 - 240 Vac / 0.3 A - 50/60 Hz; Output +5 Vdc / 2 A

CONSUMPTION (WITH RECHARGEABLE BATTERY):

- Up to 2 hours of continuous testing.
- Charge time with external medical power supply: up to 80% in 2 hours

STANDARD ACCESSORIES

- Probe HF
- Probe cleaning tool kit
- Insert for Contra** or IP30 insert phones for Contra*
- Kit of assorted ear tips; size from 6 mm up to 15 mm
- Calibration cavity
- Resonance® MDS Software
- Medical Power supply (100 Vac - 240 Vac)
- Carrying bag
- Charging Cradle
- Pen Drive (with Multilingual Quick user's handbook)
- Touch screen pen

OPTIONALS

- Headband with DD45 for Contra
- IP30 Insert phones for Contra**
- External USB Keyboard
- USB Videotoscope
- Wi-Fi thermal printer

COMPLIANCE/REGULATORY STANDARDS

Designed, tested and manufactured to meet the European and International Standards:

- MDD 93/42/EEC and its revised versions: Class IIa (as referred to in Annex IX, rule 10 of said MDD 93/42 EEC)
- Safety: IEC 60601-1, 3rd edition, Class II Type BF
- EMC: IEC 60601-1-2
- Impedance: IEC 60645-5 and ANSI S 3.39 Type 2

*R16M-D only **R16M only



Height: 135 mm
Width: 180 mm
Depth: 23-41 mm
Weight: 570 g

Resonance recommend:

ORIGINAL
PARTS & ACCESSORIES



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