

r16m_D

Diagnostic Touchscreen Tympanometer.
Everything at your fingertips.



It's beautifully made to meet your needs.

Made from high-quality materials, R16M-Diagnostic is exquisitely designed. The device combines tympanometry and reflex tests, all in a uniquely portable and wireless device with 7" touch screen display. The R16M-D also includes a useful quick test for fast and consecutive tympanometer and reflex testing.

All the tests you need at your fingertips.

Although small, R16M-D can perform middle ear analysis at both 226 Hz and 1kHz and reflex testing on Ipsi and Contra side. The device includes acoustic reflex decay with non-acoustic and ETF tests for intact and patulous eustachian tube. All accessories are designed to maximize patient comfort.

It's friendly in every sense of the word.

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

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

R16M-D's new Bluetooth® capabilities keep you connected faster than ever. PC-integration through Bluetooth technology with Management Data Suite (MDS) software for Windows® provides an easy transfer of audiometric data to the PC. MDS software features include database storage on local or Noah®, with Print Wizard and advanced reporting.

Innovative thinking
has arrived.



Exclusive U.S. Distributor:
EAR TECHNOLOGY CORPORATION
P.O. Box 1516
Johnson City, TN 37605 USA
1-800-327-8547 or email: resonance@eartech.com
resonance-eartech.com



R16M-Diagnostic Touchscreen Tympanometer

GENERAL SPECIFICATIONS

TEST TYPES

- Tympanometry, Acoustic Reflex, Quick Test with 3 editable protocols, High Frequency Tympanometry, Decay with non-acoustic monitor, ETF for intact membrane and patulous ET

DIMENSIONS AND WEIGHT

- L x W x H: 7.08" x 5.31" x .9 - 1.6"
- Net Weight: 1 lb. in the box with all the attachments weighs 6 lbs.

REPORTS

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

PC INTERFACE

- Bluetooth v. 4.0

USB PORT

- USB host type A (pen drive connection for software upgrade)
- Mini USB slave

WINDOWS® COMPATIBLE SOFTWARE

- Resonance MDS Management Data Suite

DISPLAY

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

MICROPROCESSOR

- Operating system: Microsoft® Windows® Embedded Compact
- High Performance CPU: TEGRA® 2 DUAL core @ 1Ghz processor

TYMPANOMETRY SPECS

PROBE TONE

- 226 Hz, 85dB SPL for Admittance curve
- 1000 Hz, 75dB SPL for Admittance (Y) curve with added Susceptance (B) and Conductance (G) curves.
- The probe is used in handheld mode

ADMITTANCE MEASUREMENTS

- Compliance range at 226Hz: 0.05 up to 7ml
- 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 for intact membrane and patulous ET

ACOUSTIC REFLEX TESTS

- Reflex test method: Threshold and Fixed Level
- Stimulus duration: 0.5 or 1 sec.
- Ipsilateral or Contralateral stimulation for all reflex tests
- Automated peak search functions for Quick Test
- Reflex Decay: manual
- Stimulus duration: 10 or 20 sec.

FREQUENCIES AND INTENSITY RANGES

- Ipsilateral:
 - Pure tone level range (dBHL) from 50 to 100
- Frequency: 500, 1000, 2000, 4000 Hz
- Contralateral:
 - Pure tone level range (dBHL) from 50 to 115
- Frequency: 500, 1000, 2000, 4000

POWER

POWER SUPPLY:

- Built-in 3,6V/3,1 Ah rechargeable lithium-ion battery
- External Medical power supply/charger:
Input 100-240Vac / 0.3A - 50/60Hz; Output +5Vdc / 2A

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
- Kit of assorted ear tips: screening silicone-type; 5 sizes (6 mm to 15 mm); 25 of each size
- Calibration cavity
- Insert earphones IP30 for Contra use
- Resonance® MDS Software
- Medical power supply (100Vac – 240Vac)
- Blade kit adapter
- USB pen drive (with multilingual user's handbook)
- Touch screen pen
- Charging cradle
- Carrying bag
- Bluetooth v. 4.0 adapter for PC

OPTIONAL

- Headband with DD45 for Contra
- External USB keyboard
- USB video otoscope
- Wallmount kit

COMPLIANCE/REGULATORY STANDARDS

- Certifying body: IMQ S.p.A. Istituto Italiano Del Marchio Di Qualita
- MDD 93/42/EEC and update 2007/47/CEE: 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



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