

r16m SCREENING PORTABLE MIDDLE EAR ANALYZER

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

- L x W x H: 180x135x41 mm
- Net weight: 570 g.
- Body material: self-extinguishing ABS UL 94 V0

TEST TYPES R16M

• Tympanometry, Reflexes, nr.1 Quick Test with editable protocols, High Frequency Tympanometry

DISPLAY

• 7" TFT Resistive touch screen display • 800 by 480 resolution at 133 pixels per inch (ppi) 262K colors

USER INTERFACE

- Intuitive icon system
- Internal patient database

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

MAIN SYSTEM COMPONENTS

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

POWFR

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

Please contact Resonance should you have any questions: support@resonance-audiology.com

CONSUMPTION (with rechargeable battery)

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

ENVIRONMENTAL

OPERATING ENVIRONMENT

- Storage: -20° C up to +50° C
- Operating: +15° C up to +35° C
- Humidity: up to 90%, (non condensing) Ambient pressure: from 700hPa up to 1060hPa

TYMPANOMETRY OPERATING SPECIFICATIONS

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

INTENSITY

- 226 Hz: 85dB SPL ± 2dB
- 1000 Hz: 75dB SPL ± 2dB
- Frequency Accuracy: ± 0,5%
- Harmonic Distortion (THD): Less then 1%

ADMITTANCE MEASUREMENTS

- Compliance range at 226Hz: 0,05 up to 7ml · Sensitivity scale: Auto Scales to appropriate range,
- available scale at 226Hz 1, 2, 5 and 7ml • 1000 Hz: 0 to +25 mmho
- · Sensitivity scale: Auto Scales to appropriate range, available scales 5, 10, 15, 20, 25 mmho

AIR PRESSURE

- Control: Automatic
- Range: two selections available: +100/-200 daPa or +200/-400 daPa
- Pressure accuracy: ±10 daPa or ±10%
- Sweep rate: automatic adaptive speed control or fast (200 daPa/sec)
- Indicator: Measured value is displayed
- Safety limitations: -750 up to +550 daPa

ACOUSTIC REFLEX TESTS

- Reflex test method: Threshold and Fixed level
- Stimulus duration: 0,5 or 1 sec.
- User selectable protocols for all test methods Ipsi or Contralateral stimulation for all reflex test
- · Automated peak search functions available for **Ouick Test**

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FREQUENCIES AND INTENSITY RANGES

- Ipsilateral:
- Pure tone level range (dBHL) from 50 to 100 • Frequency: 500, 1000, 2000, 4000 Hz
- Accuracy: ±1%
- Harmonic distortion (THD): less than 3%
- Contralateral:
- Pure tone level range (dBHL) from 50 to 115
- Frequency: 500, 1000, 2000, 4000
- Accuracy: ±1%
- Calibration accuracy ±3 dB
- Level steps: 5 or 10 dB
- On/Off ratio: 70 dB minimum

OUALITY SYSTEM

Manufactured, designed, developed and marketed under an ISO 13485, ISO 9001 certified quality system. Medical CE marks.

COMPLIANCE/REGULATORY **STANDARDS**

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

- 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

STANDARD ACCESSORIES

- Probe HF
- Insert for Contra • Kit of assorted ear tips; size from 6 mm up to 15 mm
- Calibration cavity
- Resonance[®] MDS Software
- Medical Power supply (100Vac 240Vac)
- Carrying bag
- Charging Cradle
- Pen Drive
- (with Multilingual Quick user's handbook)

RoHS

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• Touch screen pen

OPTIONAI S

- Headband with DD45 for Contra
- Insert phones for Contra
- External USB Keyboard USB Videotoscope

Wallmount kit