



r26m_{ME}

DIAGNOSTIC MIDDLE EAR ANALYZER

PRODUCT SPECIFICATIONS

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

GENERAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

- L x W x H: 370 x 290 x 180 mm
- Net weight: 3.5 kg

TEST TYPES

Tympanometry, Acoustic Reflex, Reflex Decay, Quick Check, Quick Screening

DISPLAY

- 7" TFT Color display

USER INTERFACE

- Multilingual

PRINTER

- Built-in fast thermal printer with paper width: 112 mm supplied as standard part

REPORTS

- Printed on thermal printer
- .pdf report created directly from the device and stored on USB Pen drive with possibility to add patient data and tests comments via the USB Keyboard (optional)
- Data transfer to PC using Resonance Management Data Suite

"CHILDREN" FEATURE

- To help keep the child distracted while running screening "Quick Check" a series of animated images appears on the color display

DATA TRANSFER TO PC

- Via cable through USB port

COMMUNICATION PORT

- Nr.1 USB host type A
- Nr.1 USB slave type B

WINDOWS® COMPATIBLE SOFTWARE

- Resonance MDS Management Data Suite

POWER

POWER SUPPLY

- 110 - 240 V AC 50/60 Hz 40 VA
- Fuses: 2 x T 1 A L 250 V

CONSUMPTION

- Max current: 0.15 A
- Power consumption: 40 VA

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 700 hPa up to 1060 hPa

TYMPANOMETRY OPERATING SPECIFICATIONS

PROBE TONE

- 226 Hz for tympanometry

INTENSITY

- 226 Hz: 85 dB SPL \pm 2 dB
- Frequency Accuracy: \pm 0.5%
- Harmonic distortion: Less than 1%

ADMITTANCE MEASUREMENTS

- Compliance range at 226 Hz: 0.05 up to 7 ml
- Sensitivity scale: Auto Scales to appropriate range, available scale at 226 Hz 1.5, 2, 5 and 7 ml

AIR PRESSURE

- Control: Automatic
- Range: from +200 up to -400 daPa adjustable in 50 daPa steps
- Pressure accuracy: \pm 10 daPa or \pm 10%
- Sweep rate: 50, 100, 200, 300 daPa/sec and automatic
- Indicator: Measured value is displayed
- Safety limitations: -800 up to +600 daPa

ACOUSTIC REFLEX TESTS

- Reflex test method: Threshold, Automatic, Manual
- Stimulus duration: 0.5, 1 or 2 sec.
- User selectable protocols for all test methods
- Ipsi stimulation for all reflexes test
- Automated peak search functions available for all test methods
- Manual Reflex: Pump manual control of all stimuli
- Reflex Decay: Threshold, Automatic, Manual
- Stimulus duration: 10 or 20 sec.

FREQUENCIES AND INTENSITY RANGES

- Ipsilateral:
 - Pure tone level range (dB HL) from 50 to 110
 - Noise level range (dB SPL) from 50 to 100
 - Frequency: 500, 1000, 2000, 3000, 4000 Hz
 - Noise: BBN, HP or LP
 - Accuracy: \pm 1%
 - Harmonic distortion (THD): less than 3%
 - Calibration accuracy \pm 3 dB
 - Level steps: 1, 2, 5 or 10 dB
 - On/Off ratio: 70 dB minimum

QUALITY SYSTEM

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

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 1 Type B
- EMC: IEC 60601-1-2
- Impedance: IEC 60645-5/ANSI S.3.39 Type 2

STANDARD ACCESSORIES

- Probe 226 Hz
- Probe handle
- Probe cleaning tool kit
- Kit of assorted ear tips; size from 6 mm up to 15 mm
- Calibration cavity with probe holder
- Built-in fast thermal printer
- Thermal paper roll
- Device dust cover
- Multilingual Quick user's handbook
- Pen Drive
- Resonance® MDS software with NOAH® module included (demo version)
- Power supply cable (110 - 220 V)
- Spare fuse

OPTIONALS

- Kit of assorted silicone ear tips "MS" shape size from 8 mm up to 16 mm
- External USB Keyboard
- Carrying bag
- MDS software license

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