



# r26m

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: 370x290x180 mm
- Net weight: 3.5 kg
- Body material: Bayblend® self-extinguishing

#### TEST TYPES

Tympanometry, Acoustic Reflex, Reflex Decay, Quick Test, 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 create 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 trough 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

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

#### CONSUMPTION

- Max current: 0,15A
- Power consumption: 40VA

### 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 traditional Y-curve tympanometry

#### INTENSITY

- 226 Hz: 85dB SPL  $\pm$  2dB
- Frequency Accuracy:  $\pm$  0,5%
- Harmonic distortion: 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 1.5, 2, 5 and 7ml

#### 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 on the graphical display
- 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
- Ipsilateral or Contralateral stimulation for all reflex 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 (dBHL) from 50 to 110
  - Noise level range (dB SPL) from 50 to 100
  - Frequency: 500, 1000, 2000, 3000, 4000 Hz, BBN,HP or LP noise
  - Accuracy:  $\pm$ 1%
  - Harmonic distortion (THD): less than 3%
- Contralateral:
  - Pure tone level range (dBHL) from 50 to 120
  - Noise level range (dB SPL) from 50 to 115
  - Frequency: 250, 500, 1000, 2000, 3000, 4000, 6000, 8000 Hz, BBN,HP or LP noise
  - Accuracy:  $\pm$ 1%
  - 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 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 and 2nd edition, Class 1 Type B
- EMC: IEC 60601-1-2
- Impedance: IEC 60645-5/ANSI S.3.39 Type 2

### STANDARD ACCESSORIES

- Headband Probe 226 Hz
- Probe cleaning tool kit
- DD45 for Contra
- 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 – 220V)
- Spare fuse

### OPTIONALS

- Kit of assorted silicone ear tips "MS" shape size from 8 mm up to 16 mm
- External USB Keyboard
- Carrying bag
- Foot switch
- Insert for Contra
- TDH39 for Contra
- MDS software licence

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