PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

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

TEST TYPES
- Pure Tone test, Autothreshold, ABLB, Speech Test, Stenger, DLL, SISI, Bekesy, Tone Decay, MLB, Multifrequency, GAP, DLF (Difference Limen for Frequency)

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
- .pdf report created directly from the device and stored in SD card

DATA TRANSFER TO PC
- Data transfer to PC using Resonance Management Data Suite
- Data transfer to PC using Resonance Management and tests comments via the USB Keyboard (optional)

DATA TRANSFER TO PC
- Via cable through USB port

COMUNICATION 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

AUDIOMETRY OPERATING SPECIFICATIONS

RANGE
- Frequency range: 125 - 8000 Hz (with DD45)
- 125 - 12500 Hz (with HDA280)
- 250 - 8000 Hz (with B71W)
- Range stimuli level -10 up to 120 dB HL

ACCURACY
- Frequency: ±0.5%
- Distortion: < 1%
- Attenuator linearity 1 dB per 5 dB step, max 3 dB whole range

TYPE OF SIGNALS
- Pure tone: sine wave 125 to 8 KHz signal (to 12.5 KHz for HDA280 phones)
- Warble: ± 5% frequency sine wave modulated, modulation: sine wave 5 Hz
- Narrow band noise: 24 dB/oct filtered noise
- Speech noise: 1 KHz 12 dB/oct filtered noise
- White noise
- External signal
- External mike
- Speech material recorded on SD card
- Master Hearing Aid: 1 KHz 6, 12, 18 , 24 dB High pass filters
- Off/On rise – fall time: 40msec

OUTPUT TRANSODUCERS
- ACR, ACL: 10 ohm DD45 matched pair earphone, alternatively HDA280 Sennheiser.
- IP30 Insert earphones (optional)
- BC: B71W Radioear; B81 (optional)
- INSERT: Insert transducer
- Free field output: 600 ohm impedance

STIMULUS PRESENTATION MODALITY
- Presentation: Normal, Reverse, Extended (present tone for 1 second from 20 dB below the maximum level)
- Modality: Continuous, Pulsed (rate 0.5, 1 and 2 Hz), Alternated (ABL and MLB 0.5, 1 and 2 Hz)
- DLI increment levels: 0.1 in steps of 0.1dB up to 1.0 dB; 1.5, 2, 3, 4, 5 dB
- DLI increment recurrence rates: 0.5 Hz, 1 Hz, 2 Hz
- SISI increment recurrence rates: 0.2Hz, 0.5Hz, random. Time on 300 ms
- SISI increment level: 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 5 dB
- Bekesy: mode sweep and fixed; Continuous, Pulsed and LOT; exam duration 30 sec and 60 sec.

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 Ila (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
- Audioiometer: to IEC 60645-1; IEC 60645-2 and ANSI S3.6 Type 1A

STANDARD ACCESSORIES
- DD45, ADC or HDA280 headset for audiometry testing
- B71W bone conductor
- Insert-Transducer (for bone conductor masking)
- Operator headset with microphone and speaker (talk over and monitor)
- Patient microphone (talk back)
- Internal speaker as monitor use
- Patient response pushbutton
- Built-in fast thermal printer
- 1 roll of thermal paper
- Power supply cable (110 – 220 V)
- Device dust cover
- Multilingual Quick User’s Handbook
- Pen-drive
- SD-card with Multilanguage speech material
- Resonance® MDS software with NoAH® module included (demo version)
- Spare fuse

OPTIONALS
- USB external keyboard
- Goose-neck microphone
- Carrying bag
- TDH39 headset
- Pediatric Headset (AC or BC)
- ADC Audiocups Noise reducing headset enclosures
- IP30 insert earphones
- B81 High Output Bone Conductor
- MDS software license
- Quick-SIN test license
- Silent cabin cables
- Free field loudspeaker
- Additional patient response pushbutton

Resonance makes no warranty, nor assumes any legal liability or responsibility for the accuracy, typing errors or mistakes, correctness or completeness of any information in this datasheet. The information in this datasheet was correct to the best of our knowledge at the time of printing. Please contact Resonance should you have any questions: support@resonance-audiology.com

Datasheet: REV OCTOBER 2017