

SCREENING PORTABLE TOUCH SCREEN AUDIOMETER

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

DIMENSIONS AND WEIGHT

- L x W x H: 180 x 135 x 41 mm
- Net weight: 450 g.
- Body material: self-extinguishing ABS

TEST TYPES

Pure Tone test, Speech Test (performed with on-board recorded speech material), Autothreshold, Resonance Play Audiometry (optional)

DISPLAY

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

USER INTERFACE

Intuitive icon system

REPORTS

Data transfer to PC with Resonance Management Data Suite installed

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
- (for patient response connection)

WINDOWS® COMPATIBLE SOFTWARE

Resonance MDS Management Data Suite

MAIN SYSTEM COMPONENTS

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

POWER

POWER SUPPLY

- Built-in 3.6 V/3.1 Ah rechargeable lithium-ion battery
 External Medical power supply/charger:
- External Medical power supply/charger: Input 100 - 240 Vac / 0.3 A - 50/60 Hz; Output +5 Vdc / 2 A

CONSUMPTION (WITH RECHARGEABLE BATTERY)

- Up to 3 hours of testing working on speech test modality.
- 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 700 hPa up to 1060 hPa
- Ambient pressure. Norm 700 Hr a up to 1000 Hr a

AUDIOMETRY OPERATING SPECIFICATIONS

RANGE

- Frequency range (AC):
- 125 8000 Hz
- Frequency range (BC):
- 250 6000 Hz
- Range stimuli level -10 up to 110 dB HL • Range stimuli level BC: -10 up to 70 dB HL
- ACCURACY • Frequency < 0.5%
- Distortion < 1%
- Crosstalk >70 dB
- 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
- 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
- White noise
- Speech material recorded on internal SD-card • On/Off rise – fall time: 40msec

OUTPUT TRANSDUCERS

- ACR, ACL: 10 ohm DD45 matched pair earphone. IP30 (optional)
- BC: B71W

STIMULUS PRESENTATION MODALITY • Presentation: Normal

- Modality: Steady, Pulsed (rate 2 Hz)
- dB step variation: 1 dB, 2 dB, 5 dB.

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 II Type BF
- EMC: IEC 60601-1-2
- Audiometer:
- IEC 60645-1and ANSI S3.6: Type 3

IEC 60645-2 (only for the functions regarding the speech test; the device is not an A or B model) • RoHS II compliant

STANDARD ACCESSORIES

- DD45 headphones
- B71W bone conductor
- Built in talk over microphone for patient communication
- Patient response push button
- Multilingual Quick user's handbook
- Resonance[®] MDS software
- Medical Power supply (100 Vac 240 Vac)
- Carrying bag
- Charging Cradle
- Pen Drive (with Multilingual Quick user's handbook)
- Touch screen pen

OPTIONALS

- External USB Keyboard
- IP30 Insert headphones
- Pediatric Headset (AC or BC)
- Resonance Play Audiometry for children
- VTMR Audiometry test for adults
- Wi-Fi thermal printer



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

The information, pictures and specifications found in this datasheet are intended as a general guideline for customers seeking information about supplies for Resonance equipment. 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.

