



r17a^{HDA}

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

AVAILABLE TEST

Pure Tone test, Speech test (performed with on-board recorded speech material), Auto-threshold test (OSHA complaint with BAS and Integrity check), Weber test, 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 cable

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

POWER

POWER SUPPLY

- Built-in 3.6 V/3.1 Ah rechargeable lithium-ion battery
- 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

AUDIOMETRY OPERATING SPECIFICATIONS

RANGE

- Frequency range (AC):
125 - 16000 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 > 70dB
- Attenuator linearity 1 dB per 5 dB step, max 3 dB whole range

TYPE OF SIGNALS

- Pure tone: sine wave from 125 to 16.0 KHz
- Warble: +/- 5% frequency sine wave modulated, modulation: sine wave 5 Hz
- Pulsed
- Narrow band noise: 24 dB/oct filtered noise
- Speech noise: (available only on Speech test)
- White noise (available only on Speech test)
- Speech material recorded on internal SD-card
- On/Off rise - fall time: 40msec

OUTPUT TRANSDUCERS

- ACR, ACL: DD450 circumaural headphones.
Insert phones (optional)
- BC: B71W

STIMULUS PRESENTATION MODALITY

- Presentation: Normal or Reverse
- Modality: Steady, Pulsed (rate 2 Hz)
- dB step variation: 1, 2, 5 dBHL

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 60645-1 and 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

- DD450 circumaural 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
- Insert phones
- Pediatric headset (AC or BC)
- Re-Play Audiometry for children
- RE-VO² USB Videotoscope
- Wi-Fi thermal printer
- Wall mount kit
- Free field speakers with amplifier

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