

# r17a

Portable Touch Screen Audiometer.  
Designed for Screening Projects.



## All tests are under your fingers.

Resonance R17A interactive featured audiometer, handheld, color touch screen and it has wonderful design with modular structure. R17A is conceived with modular structure both for adults and children testing capabilities. Specific interactive RE-Play audiometry is designed for children screening project.

## So easy to evaluate the tests.

With R17A calibration warning, automatic controls and training part test reliability can be checked. R17A has methods for evaluating test results fastly and safely according to hearing loss, audiogram and speech banana screen. Also interactive RE-Play audiometry test results can be seen on the screen as audiogram.



## Completely Turkish.

R17A has easy using with its completely Turkish interface. Also R17A has internal Turkish Q keyboard. So patients name, surname, ID number, birth date, birth place, test place and test results can be saved. Also device can made speech audiometer test in Turkish with included Turkish word list. Also with the Turkish questionnaire hearing evaluation can be made.

## Data recording and Transmission.

More than 500 patients tests and information can be stored in the R17A memory. Tests can be transferred fastly via Bluetooth, USB port with cable, Tele-Monitoring and Web Service. Also the provided software has features like Noah or local database recording, print wizard and advanced report page.



Innovative thinking  
has arrived



[www.resonance-audiology.com](http://www.resonance-audiology.com)



# GENERAL SPECIFICATIONS

## TEST TYPES

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

## REPORTS

- Data transfer to PC with Resonance Management Data Suite installed

## DATA TRANSFER TO PC

- Bluetooth • USB port with cable
- Tele monitoring • Web service

## 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

## DISPLAY

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

## MAIN SYSTEM COMPONENTS

- Operative system: Microsoft® Windows® Embedded Compact • CPU ARM® core @ 312Mhz Low power (0,8W typ.)

## MEMORY

- 500 Test

# AUDIOMETRY SPECS

## RANGE

- Frequency range (AC): 125 - 8000 Hz ; 125 - 12500 Hz (R17A-HDA)
- Frequency range (BC): 250 - 6000 Hz (R17A B71)
- Intensity Range 5, 7 dB

## ACCURACY

- Frequency < 0,5% • Distortion < 1% • Crosstalk: > 70 dB
- Range stimuli level AC: -10 up to 105 dB HL
- 10 up to 110 dB HL (R17A HDA)

## TYPE OF SIGNALS

- Pure tone: sine wave 125 to 8Khz signal (to 12,5 for R17A-HDA)
- Warble: +/- 5% frequency sine wave modulated
- Narrow band noise: 24dB/oct filtered noise
- Speech noise: 1khz 12db/oct filtered noise
- White noise
- Speech material recorded on SD card

## OUTPUT TRANSDUCERS

- ACR, ACL: DD 45 matched pair earphone, (alternatively HDA280 Sennheiser, Insert Earphones)
- BC: B71W Radioear

# POWER

## POWER SUPPLY

- Built-in 3,6V/3,1 Ah rechargeable lithium-ion battery
- External Medical power supply/charger: Input 100-240Vac / 0,3A - 50/60Hz; Output +5Vdc / 2A

## CONSUMPTION

- More than 3 hours of testing on speech test modality

# STANDARD ACCESSORIES

- DD45 headset
- B71W bone conductor
- Multilingual speech material
- Cradle with battery charger included
- Patient response pushbutton
- Multilingual Quick User's Handbook
- Resonance® MDS Software
- Carrying bag
- Touch Screen Pen
- USB Pen Drive
- Mini USB datatransfer cable

# OPTIONALS

- Insert Phones
- USB external keyboard
- Re-Play Play Audiometry for Children
- Wallmount kit
- USB camera

# 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)
- Safety: IEC 60601-1, 3rd edition, Class II Type BF
- Audiometer: to IEC 60645-1; Type 4 (R17A AC), Type 3 (R17A HDA, R17A BC)
- CE marks
- RoHS II compliant

# AVAILABLE CONFIGURATIONS

				
AC	DD 45		✓	
BC	DD 45	✓	✓	✓
HDA	HDA280	✓	✓	✓



## DIMENSIONS AND WEIGHT

- Height: 135 mm
- Width: 180 mm
- Depth: 23-41 mm
- Weight: 450 g

## CONNECTION SOCKETS

- Audiometric headset socket
- Bone conduction headset socket
- Patient response button socket
- PC connection socket
- Medical power supply socket



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