

# r17a

Screening portable audiometer.  
Everything at your fingertips.



## It's beautifully made. To meet your needs.

Made from high-quality materials, R17A is exquisitely designed. The R17A combines air and bone conduction and speech testing, all in a uniquely portable and wireless device with 7" touch screen display. The R17A includes the Automatic Pure Tone test.

## All the tests you need at your fingertips.

Although R17A small dimensions, it offers the same range of testing opportunities as a diagnostic device. Frequency levels range from 125 Hz to 12500 Hz, and signal levels run from -10 dB HL to 110 dB HL. R17A can be used with a variety of transducers, including DD45, EAR 3A inserts, and HDA 280. All the accessories are conceived to maximize patient comfort.



## It's friendly. In every sense of the word.

All the fundamental elements of R17A - the display, the chip, the wireless connection, and the user's interface design - work together to create the best possible experience. Nothing comes between you and R17A large, touch screen, brilliant display that makes R17A capable of so much more in every test you perform.

## Data? No problem. A new way to get connected.

R17A new Bluetooth capabilities keep you connected faster than ever. PC-integration through Bluetooth technology with MDS software for Windows® for an easy transfer of audiometric data to the PC. MDS software features include Database storage in local or Noah ambient, Print Wizard and Advanced report page.



Innovative thinking  
has arrived

resonance 

[www.mrselectronics.it](http://www.mrselectronics.it)



## GENERAL SPECIFICATIONS

### TEST TYPES:

- Pure Tone test, Speech Test, Autotreshold
- SUN Test, Re-Play audiometry available as optionals

### REPORTS:

- Data transfer to PC using Resonance MDS

### DATA TRANSFER TO PC:

- Bluetooth

### COMMUNICATION PORT:

- Nr.1 USB host to be used for software upgrade only
- Nr.1 MINI USB slave for patient pushbutton connection only

### WINDOWS® COMPATIBLE SOFTWARE:

- Resonance MDS Management Data Suite

### DISPLAY:

- 7.0 inch (diagonal) TFT Touch screen technology
- 800 by 480 resolution at 133 pixels per inch (ppi)
- 262K colors, Fingerprint-resistant

### CHIP:

- Operative system: Microsoft® Windows® Embedded Compact High Performance: CPU ARM® core @ 312Mhz
- Low power: 0,8W typ. Fast boot: < 6 sec.

## AUDIOMETRY SPECS

### RANGE

- Frequency range (AC): 125 - 8000 Hz (R17A AC, R17A BC)
- 125 - 12500 Hz (R17A HDA)
- Frequency range (BC): 125 - 6000 Hz (R17A HDA, R17A BC)

### ACCURACY

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

### TYPE OF SIGNALS

- Pure tone: sine wave 125 to 8Khz signal (to 12,5 for HDA280 phones); steady and pulsed
- 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, EAR-3A Etymotics)
- BC: B71W Radioear

## POWER

### POWER SUPPLY:

- Built-in 3,1 Ah rechargeable lithium-ion battery
- Medical battery charger included on a cradle

### CONSUMPTION:

- Up to 3 hours of testing on speech test modality

## STANDARD ACCESSORIES

- HDA280/DD45 headset for audiometry testing\*
- B71W bone conductor\*
- Multilingual speech material
- Docking station with battery charger included
- Patient response pushbutton\*
- Multilingual Quick User's Handbook
- Resonance® MDS Software
- Carrying bag
- Touch Screen Pen
- USB Pen Drive

\*configuration dependent

## OPTIONALS

- EAR 3-A insert phones
- USB external keyboard
- Re-Play Play Audiometry for Children
- Wallmount kit
- Patient response pushbutton (for AC only)

## 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 edition, Class II Type BF
- Audiometer: to EN 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	✓	✓	✓



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

Resonance recommend:  
**ORIGINAL**  
RCTVU / CE E QUQTICU

Australian Distributor

**SONIC**  
EQUIPMENT

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