

MedRx®

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AVANT ARC
Audiometry & REM/LSM



Easy Patient Understanding with Visualized Results

One System to Fully Test, Fit, Verify
and Counsel Patients and 3rd Parties

MedRx®

888-392-1234

To Schedule An Online Demo



AVANT ARC

Technical Specs

Standards:

REAL EAR MEASUREMENT:

Meets or exceeds all tests required in the ANSI S3.46-1997 Methods of Measurement of Real-Ear Performance Characteristics of Hearing Aids, along with the requirements of IEC/EN 61669:2001.

Probe Microphones (L/R): Dual Electret Microphone Elements

Probe Microphone Tube: Silicone 1.0 mm Nominal Diameter

Measurement Range: 40-120 ± 3 dB SPL

Measured Frequency Range: 125-8000Hz

Test Stimuli: Broadband Noise and Synthesized Random Noise – Pink, White, Byrne LTASS and ANSI weighted; ICRA; ISTS Microphone, File, CD-ROM for Live Speech Mapping, Chirp

Test Stimulus Levels at 1m: 40-90 dB SPL in 1 dB Steps – 200Hz thru 8K Hz (depending on speaker wattage and efficiency)

Test Stimulus Accuracy: ± 3dB SPL

Equalization: Pressure Method

Analysis Mode: User Selectable 1/3, 1/6, 1/9, 1/12, 1/24, 1/48 Octave Bands

ANSI S3.46-1997 Test Available IEC/EN 61669:2001: Real Ear Unaided Response, Real Ear Unaided Gain, Real Ear Insertion Gain, Real Ear Occluded Response, Real Ear Occluded

Gain, Real Ear Aided Response, Real Ear Aided Gain

Other Tests Available: Live Speech Mapping™ with Peaks and LTAS analysis; Real Ear to Coupler Difference, Occlusion Effect, Percentile Analysis

Prescription Methods: NAL-RP, 1/3 Gain, 1/2 Gain, Berger, Pogo 1, Pogo 2, FIG6, DSL m[I/O], NAL-NL1, NAL-NL2

Probe Monitoring: Available with Operator Headset

REM EXTERNAL CONNECTIONS

Power connection: USB 2.0 input 5.0 Volt Bus

USB 2.0 input: Standard USB “B” socket

Line-Output jack (REM or Audiometry Speakers): 3.5mm Stereo Jack

Speaker Output (Internal Amplifier) (2): 3.81mm Pluggable Spring Clamp

Probe Microphones inputs (2): 8 pin Mini-DIN

Operator Headset Jack (REM or Audiometry): 3.5mm Stereo Jack

Patient Headset Jack (Client): 3.5mm Stereo Jack, Power Jack: 2.1mm X 5.5mm

HEARING LOSS SIMULATOR

AND HEARING AID SIMULATOR: Software based sound equalization with available Live Speech Mapping functionality. Frequency Range 125Hz – 8000 Hz, 13 Band Equalize

Standards:

AUDIOMETRY: Clinical Audiometer as per ANSI S3.6-2010 Type 2 AE (IEC 60645-1 & 2), Tone Audiometry, Speech Audiometry

Channels: Two channels

Outputs: IP30 Insert Earphones, EAR 3A® Insert Earphones or TDH 39 Headphones (DD45), B71 Bone Conductor, Free Field- Line Level Output or Internal Amplifier

Tone Stimuli: Pure Tone, Warble Tone, Continuous or Pulsed, Warble modulation frequency and Pulse period are user adjustable.

Masking Signals: Tone Audiometry: Narrow Band Noise (default), Speech Weighted Noise, White Noise. Speech Audiometry: Speech Weighted Noise (default), White Noise, External Recorded (opposite channel).

Frequency Range USB Power only: Air: 125Hz – 8000Hz (limited 8000Hz to 12500Hz available) Bone: 250Hz – 8000Hz

Sound Field: 125Hz – 8000Hz (Line Level)

Acoustic Distortion: < 1.0% at 500 Hz, 100dB SPL

Noise Floor: < -10dB HL from 125 Hz – 8000 Hz (12500 Hz)

Attenuation: 1dB or 5dB steps, user selectable

Minimum / Maximum Output: -10 dB to 120 dB HL at 1 KHz –

Air (¼ inch mono jacks), -10 dB to 75 dB HL at 1 KHz – Bone (¼ inch mono jack)

Free Field Output: Frequency Range 125-8,000 Hz, Dynamic Range 60-90+ dB SPL at 1 meter distance, (Using 50 watt stereo amplifier with 89 dB sensitivity speakers)

Speech Input: Microphone (3.5 mm stereo jacks)

I/O Jacks – 3.5mm: Operator Headphones (output shared with REM), Operator Talk Forward Microphone, Patient Talk Back Microphone, Free Field (Line Out shared with REM)

I/O Jacks – 1/4”: Left Air Conduction, Right Air Conduction, Bone Conduction, Patient Response Switch

POWER (FOR BOTH REM & AUDIOMETRY) USB 2.0 Input: 5.0 Volt Bus

Max Power Consumption: Less than 500 mA at 5.0 volts

Power Supply - Internal Speaker Amp: 15V DC, 2A

Optional Powered Speakers: 120V, 60 Hz or 100V – 240V, 50/60 Hz available

Dimensions: Approx 8” x 5” x 1.25” (L x W x H) Approx. 20 cm x 12 cm x 3 cm (L x W x H)

Net Weight: < 2 lbs, < 1kg

MedRx®

Good Things Come In Small Packages

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MedRx Minimum Computer Specs:

Windows® PC compatible computer, Intel™ i5 Dual Core, 2.0 GHz or better. 4 GB RAM. 20 GB free hard drive space. Available 2.0 USB port. Windows 7, 8 or 10 Professional (32 or 64-bit).

MX-ARC-DS-1

