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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.

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Technical Specs

Standards:

REAL EAR MEASUREMENT: Meets Or Exceeds All Tests Required In The ANSI S3.46 Methods Of Measurement Of Real-Ear Performance Characteristics Of Hearing Aids, Along With The Requirements Of IEC 61669

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: 125-12500 Hz

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 Through 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 Test Available IEC 61669: 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 v5.0, NAL-NL1, NAL-NL2, NAL-NL3

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 Equalizer

Standards:

AUDIOMETRY: ANSI S3.6 Type 2 AE (IEC 60645-1 & 2), Tone Audiometry, Speech Audiometry, Stenger Test, QuickSIN™, ABLB, SISI, Tinnitus Test, ACT™ Test, Tone Decay, Hughson Westlake Automated Audiometry

Channels: Two

Outputs: Insert Earphones, Headphones, 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, 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

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

Power Supply: USB To Computer

Operating Temperature: 10°C To 35°C

Operating Humidity: 30% To 90%

Storage Temperature: -20°C To 50°C

Storage Humidity: 10% To 90%

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

Weight: < 1 kg, < 2 lbs

Standard Accessories: Sure-Probe™ Microphone System. 2 Probe Microphones With Probe Mic Hanger, Transducers: DD65v2, DD45 or IP30, Bone Conductor, Operator Mic/Monitor Headset, Speaker, Patient Response Switch, Talkback Microphone, Auditec Sound File License, QuickSIN™ License, ACT™ License, USB Cable, External Power Supply, Probe Tube Pack, Probe Microphone Storage Case, Software & Manuals, Carrying Case.

Optional Accessories: RECD Coupler.

MedRx Minimum Computer Specs:
Windows® PC compatible computer, Intel™ i5, 2.0 GHz or better. 4 GB RAM. 20 GB free hard drive space. Available 2.0 USB Port. Windows 10 or 11 Professional, Compatible with 3.0 USB.

MedRx®

Good Things Come In Small Packages

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