Product Specifications

RM500SL™
Portable Verification

STORAGE & TRANSPORTATION

Temperature -20 to +60˚C
Relative humidity (non-condensing) 5% to 95%
Atmospheric pressure 500 - 1060 hPA

GENERAL

Power source 100-240V, 50-60Hz, 250 VA
Fuse 2A type T, 250V
Overall dimensions 39.40 cm x 32.40 cm x 10.8 cm (15.5 in. x12.75 in. x4.25 in.)
Weight 16.4kg (7.5lbs)
Display type fluorescent backlit active color
Display size 12.1 in. diagonal
Inernal Printer type 80mm (3 in.) Thermal line printer, 200 dots/inch
Power amplifiers 2
Stimulus channels 2
Measurement channels 1

Connectivity

- 1 - Ethernet (RJ45)
- 1 - RS232 serial (9D)
- 2 - auxiliary audio outputs (1/4"mono)
- 1- RECD transducer(3.5mm st)
- 1 - test chamber ref. mic.(3.5mm st)
- 1 - coupler microphone(3.5mm st)
- 1 - battery substitute(3.5mm st)
- 1 - real-ear mic.(3.5mm st)

TEST BOX

Working space 22.35 cm x 8.90 cm x 3.8 cm (8.8 in. x3.5 in. x1.5 in.)
Test Box Isolation @ 1kHz >25dB
Speaker 1 - 5.1 cm x 7.6 cm (2 in. x 3 in.)
Induction Coils 1 - Telephone Magnetic Field Simulator (TFMS ANSI S3.22 - 2003)
Battery Simulator per ANSI S3.22 2003
Frequency range 200 - 8000Hz
Coupler microphone noise floor (200 - 8000 Hz): <40dB SPL
Test stimuli tone, tone burst, pink noise, user supplied, calibrated or live speech, ISTS, filtered speech for verifying frequency-lowering instruments
Test stimulus levels 40 to 90 dB in 5 dB steps
Test stimulus levels (inductive) 31.6mA/m per ANSI S3.22 - 2003
Test stimulus distortion <2% at 90dB SPL
<0.5% at 70dB SPL
Test stimulus accuracy at reference mic. for tones (200-2000 Hz) +/- 1.5dB SPL
Test stimulus accuracy at reference mic. for tones (2000-8000 Hz) +/- 2.5 dB SPL
Equalization method real time modified pressure method (stored for open fittings)
Analysis frequencies per octave 12
Analysis filter bandwidth (noise) 1/12 octave
Measurement accuracy at 1 kHz +/- 1 dB
Measurement accuracy re 1 kHz +/- 1dB (200 - 5000 Hz)
+/- 2.5dB (5000 - 8000Hz)
Measurement range 30 - 140dB SPL
Harmonic distortion measurement 2nd and 3rd or 2nd plus 3rd
Harmonic distortion range 200 - 4000Hz
Harmonic distortion accuracy +/- 1%
Battery drain range 0 - 20mA
Battery drain accuracy +/- 5%
Battery drain resolution +/- .01 mA

ANSI S3.22/IEC 60118 TESTS AVAILABLE

- OSPL90
- Full-on Gain
- Reference Test Gain
- Frequency Response
- Frequency Range
- Maximum OSPL90
- Harmonic Distortion
- Attack & Release Time
- Equiv. Input Noise
- Input/Output Curves
- Coupler SPL - Telephone Simulator
- Simulated Telecoil Sensitivity
- Battery Drain

OTHER TESTS AVAILABLE

- Speechmap®
- Coupler SPL vs freq
- Coupler gain vs freq
- Spectral analysis
- Distortion vs freq
- Manual measurement of output, gain and distortion

ON-EAR

Speakers 1 - 5.1 cm x 7.6 cm (2 in. x 3 in.)
Probe microphone tube Silicone 1.0 mm diameter x 75 mm
Probe microphone noise floor (200 - 8000 Hz): <45 dB SPL
Frequency range 200 - 8000Hz
Test Stimuli tone, tone burst, pink noise, user supplied, calibrated or live speech, ISTS, filtered speech for verifying frequency-lowering instruments
Frequency modulation sawtooth +/- 3% over 128ms
Test stimulus levels for tones 40 - 85 dB SPL in 5 dB steps
Test stimulus accuracy at reference mic. for tones (200-2000Hz) +/- 1.5dB SPL
Test stimulus accuracy at reference mic. for tones (200-2000Hz) +/- 2.5dB SPL
Equalization method pressure method (stored for open fittings)
Frequencies per octave (swept tones) 12
Frequencies per octave (tone burst) 3
Analysis bandwidth (speech, noise) 1/3 octave
Measurement accuracy at 1kHz +/- 1 dB
Measurement accuracy re 1kHz +/-1dB (200 - 5000Hz)
+/- 2.5dB (5000 - 8000Hz)
Measurement range 30 - 135 dB SPL (200 - 2500Hz)
30 - 140 dB SPL (2500 - 8000Hz)

ANSI S3.46/IEC 61669 TESTS AVAILABLE

- Real-Ear Unaided Response
- Real-Ear Aided Response
- Real-Ear Occluded Response
- Real-Ear Insertion Gain

OTHER TESTS AVAILABLE

- Speechmap® real-speech audibility measures
- On-ear harmonic distortion
- On-ear spectral analysis
- Manual measurement of output, gain, and distortion

FITTING METHODS AVAILABLE

Speechmap® with DSL 5.0a, NAL-NL1, NAL-NL2, CAMFIT
Insertion gain with NAL-RP, NAL-NL1, Fig6, PogoII, Berger, Libby

SENSORY LOSS SIMULATOR

Simulation types Linear, conductive
non-linear outer hair cell cochlear loss
Simulation bands 65

Contact us today for a free demo at audioscan.com/professional.

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Professional Verification

CE 0086 ISO 13485

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