



RM500SLTM

Portable Verification



**THE BEST POSSIBLE
HEARING EXPERIENCE.**



audioscan.com/rm500sl

PORTABLE VERIFICATION

Audioscan's RM500SL offers the highest quality in portable verification. The RM500SL is perfect for hearing care professionals serving multiple offices, nursing homes, schools and other satellite locations.



WHY BUY RM500SL?



Portable FM verification is popular with educational audiologists



RM500SL's powerful embedded computer avoids future operating system conflicts



NOAH for easy office integration



Print to a built-in printer or connect externally



Your RM500SL includes free software updates for up to 10 years

AUDIOSCAN IS NORTH AMERICA'S LEADING VERIFICATION MANUFACTURER



- in leading schools of audiology, pediatric hospitals and education facilities
- in Veteran's Affairs hearing clinics across the United States
- in fast-growing private clinics



YOU GET MORE FROM AUDIOSCAN

- Audioscan offers more than 20 customer training workshops annually across North America.
- Customers love our unparalleled customer service. We answer the phone live!
- We back up our equipment with a two year parts and labour warranty.
- Audioscan ONLY makes verification equipment. We have almost 30 years of expertise.
- We systematically gather customer feedback and develop free software improvements twice per year.
- We offer sales and service through the best audiology equipment distributors – E3 Diagnostics and MidWest Special Instruments in the USA and DiaTec in Canada, covering 40+ local offices.

TOP 5 REASONS TO BUY AN RM500SL

- 1** Fast set-up and pack-up with all-in-one printing and easy carrying
- 2** Full suite of standard testing capabilities
- 3** Includes Audioscan's exclusive Speechmap® environment on a built-in colour screen
- 4** Includes advanced telecoil and noise reduction test capability
- 5** Easy to use, like all Audioscan verification equipment

— DEBATING WHICH BRAND TO BUY? —

- **Verification is Audioscan's only business** – we are specialists
- **Audioscan is #1** because of our commitment to rigorous accuracy and ease of use
- **Speechmap® is Audioscan's world-first innovation** that revolutionized hearing instrument verification in the 1990s
- **Audioscan was first to develop** real-time directional testing
- **Audioscan's Speechmap® is popularly referenced** in published textbooks and industry white papers
- **Audioscan products include excellent counseling tools** that improve patient acceptance, satisfaction and referrals
- **Audioscan products are designed to give patients** the best possible hearing experience



Verification DOUBLES* the perceived value of your services!

*Amlani et al, 2016 Hearing Review, December issue

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. x 12.75 in. x 4.25 in.)
Weight 16.4kg (7.5lbs)
Display type fluorescent backlit active color
Display size 12.1 in. diagonal
Internal 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. x 3.5 in. x 1.5 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, Pogoll, 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.



audioscan®
Professional Verification

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