Portable Hearing Instrument Fitting System







The RM500SL delivers real control and portable verification. Now you can provide Audioscan quality patient care wherever it's needed! The RM500SL is used most often by educational audiologists, outreach programs, and users with satellite offices.





Take Control.



Control is everything

You simply cannot rely on the hearing instrument itself or on patient comments to ensure you have complete control over fitting a hearing instrument properly. Neither method is sufficient for a quality outcome.

Take control — fit with facts

Objective measurement is essential for your management of hearing instrument fitting and the care of your patient. It is the key to patient satisfaction and the success of the patient's rehabilitation. With it, you control the outcome. Without it, you don't.

Audioscan gives you control

Audioscan systems for real ear measurement, instrument verification, and its Speechmap® fitting environment provide the objective measurement you need to control the outcome for your patients. It is the best foundation for basing your professional guidance, and supervision. It also is the best path to fewer returned products, better productivity, and better overall patient satisfaction — giving you peace of mind.

Verification Myths

"Hearing instruments fit themselves"

"First fit" is a shot in the dark. Multiple studies have shown wide variability and ineffectiveness of first fit results. Indeed a recent report showed that 66% of hearing instruments are fit incorrectly. As medical devices, hearing instruments should not be relied upon to fit themselves.

¹Consumer Reports, Hear well in a noisy world, July 2009

Benefits.

Speechmap® — the first, and the best.

This unique fitting environment is the scientific choice. Using Speechmap, you quickly measure the output of the hearing instrument at the tympanic membrane using the stimulus hearing instruments are designed to process — speech! This elegant process ensures accuracy and validity through solid science that has been pioneered and advanced by Audioscan since 1992.

FM verification leader

The RM500SL is *the* choice for educational audiology. School systems across the world rely on the RM500SL for FM verification on-the-go.



FM systems easily fit in the large test box



Verification Myths

"This hearing instrument is too magic to measure!"
Just remember O-E-S We measure the OUTPUT of the hearing instrument, at the EARDRUM, using SPEECH — the signal all hearing instruments are designed to process. Measuring in this way means that regardless of advanced digital processing or open/closed style, your results are correct.

Verification Myths

"It takes too long..."

Verification saves you time and money! Recent evidence has shown that verification and validation will reduce the number of visits per patient by 32%!² Further, using today's equipment you can perform all necessary tests in only a few minutes.

It goes where you go

RM500SL is designed to be portable and robust. Its cast aluminum construction and close-and-go design mean you can rely on trouble free use for years to come.

Compatible with today's hearing instruments

RM500SL can verify analog/digital, occluded/open, and even frequency shifting instruments! The RM500SL is ideal for use with every patient regardless of the hearing instrument technology employed.

Secure, stable and completely maintained

Unlike PC-based systems, Audioscan products utilize proprietary hardware and software architecture to better serve audiology functions. You'll never get a virus, and never worry about compatibility. Self-contained, our products are impervious to the rapid obsolscence of PC hardware and operating systems — and since our software updates are free you're always on the cutting edge of fitting technology.

Easy data management

Manage patient data your way.

- NOAH compatible
- Print to internal or external printer
- Store or restore sessions from a shared network folder or USB thumb drive
- Capture any RM500SL screen from any networked PC with an internet browser.
- Use the optional barcode scanner to store and retrieve audiometric data.

Comprehensive Support.

We're listening

Audioscan customers have long recognized our expertise in objective verification. They also know that when they have a question, we're ready to listen. When you purchase any Audioscan system, we offer you free telephone support that will connect you to a real expert ready to address your question.

Extensive warranty, low cost of ownership

Enjoy the peace of mind that comes with our 2-year warranty, and the knowledge that we support our equipment for the long haul. Once your RM500SL is out of warranty we provide genuine Audioscan parts at a fraction of the cost of other manufacturers.

Free software means real value

Free software updates mean you're always up-to-date with the latest in hearing instrument fitting technology at no cost to you.

Options/Consumables

NOAH® module

Our all-new module allows quick transfer of data between your Audioscan and NOAH. Comparison between current and older test results is easy when you store, view, and print your Audioscan screens inside the NOAH database. This popular option removes needless double-entry of audiograms and makes the paperless office a reality!

Probe tubes and paper

Genuine Audioscan probe tubes help to ensure the accuracy and validity of your measurements. Contact Audioscan directly for supplies including printer paper!

Barcode scanner for easy data re-entry

If you choose to print your results, you can include a unique barcode that will allow you to scan in audiometric data upon the patient's return.

Battery pills for measurement of battery drain

supplies@audioscan.com

USA 800-265-2093 — INT 001-519-268-3313

We're number one!

Take control with the number one manufacturer

The founders of Audioscan pioneered the first digital hearing instruments, so we're uniquely qualified to measure them. Audioscan has been making quality fitting systems for more than two decades, introducing speech measurements, and many other innovations along the way. With more fitting systems in use in North America than all other suppliers combined³, Audioscan's experience and expertise is unparalleled.

www.audioscan.com

Visit rm500sldemo.audioscan.com to sign up for a free demonstration.





Software Features		Verifit.	Axiom.	RM500SL
Speechmap®	World's First			
Real Speech (Calibrated)	World's First			
Simultaneous Directional REM Test	World's Only	Optional		
Simultaneous Directional HIT Test	World's Only			
Dedicated Noise Reduction Test	World's First			
Feedback Suppression Test	World's First			
Frequency Lowering Test	World's First			
CROS/BiCROS Fitting Capability				
Speechmap® for Telecoil Programming	World's Only			
User-Supplied Sound Files				
Sensory Loss Simulator™	World's Only			
FM Fitting Protocol				
DSL®5				
NAL-NL2				
NOAH® Module	NEW!	Optional	Optional	Optional

Hardware Features

12.1" Color Integrated Display	World's Only			
Dual Probes	World's First			
Telephone Magnetic Field Simulator				
Integrated Carrying Case				
Integrated Battery Drain				Optional
Wired Network Ready				
Wireless Networking	NEW! ¹		Optional	
Test Box (Integrated)				
Barcoded Audiometric Data Entry	World's Only	Optional	Optional	Optional
RECD Transducer				
Integrated Probe Monitor				
ANSI S3.22-2003				
Multiple Display Capability				
External Speaker Capability				
Internal Printer				

¹New feature will become available 2013

Support

Knowledgeable Distributor in Every State			
Free Live Phone Support			
Comprehensive Help Files			
All System Software Updates Free	Industry Only		
2 Year Warranty	Industry First		



All-new NOAH® module available!

Storage & Transportation

Relative humidity (non-condensing)	
Atmospheric pressure	500-1060 hPa
General Overall dimensions Weight	15.5"x12.75"x4.25" 16.4 lbs (7.5kg) 100-240V, 50-60Hz, 250 VA
Fuse	2A type T, 250Vfluorescent backlit active color
Display sizeInternal printer	
Stimulus channels	2
Connectors	1-USB 1 - Ethernet (RJ45)

Test Box	
Working Space	8.8″x3.5″x1.5″
Test Box Isolation @ 1kHz:	>25 dB
Speaker	
Induction Coils1 - Telephone Magnetic Field	Simulator (TFMS ANSI S3.22 - 2003)
Battery Simulator	
Frequency Range	
Coupler microphone noise floor	(200 – 8000 Hz): <40 dB SPL
Test Stimulitone, tone burst, pinl	k noise, user supplied, calibrated or
live speech, ISTS, filtered speech for verifyin	
Test stimulus levels	
Test stimulus levels (inductive)	31.6mA/m per ANSI S3.22 - 2003
Test stimulus distortion	
Test stimulus accuracy at reference mic. for tones	
Test stimulus accuracy at reference mic. for tones	
Equalization methodreal time modified pressu	
Analysis frequencies per octave	
Analysis filter bandwidth	
Measurement accuracy at 1 kHz	+/- 1dB
Measurement accuracy re 1 kHz	
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Measurement range	
Harmonic distortion measurement	
Harmonic distortion range	
Harmonic distortion accuracy	
Battery drain range	
Battery drain accuracy	
Battery drain resolution	+/01 mA

ANSI S3.22 - 1996 and 2003 tests available

OSPL90.....Full-on Gain.....Reference Test Gain.....Frequency Response.....Frequency Range.....Maximum OSPL90.....Harmonic Distortion.....Attack & Release time.....Equivalent 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

.....-20°C to +60°C

Speakers	1 - 2"x 3"
Probe microphone tube	Silicone 1.0 mm diameter x 75 mm
Probe microphone noise floor	
Frequency Range	200 to 8000 Hz
Test Stimulitone, tone burst, p	oink noise, user supplied, calibrated or live
speech, ISTS, filtered speech for verify	
Freq. modulation	sawtooth +/- 3% over 128 ms
Test stimulus levels for tones	40 - 85 dB SPL in 5 dB steps
Test stimulus accuracy at reference mic. for tone	es (200 - 2000Hz)+/- 1.5 dB SPL
Test stimulus accuracy at reference mic. for tone	s (2000- 8000 Hz)+/- 2.5 dB SPL
Equalization Methodpr	
Frequencies per octave (swept tones)	12
Frequencies per octave (tone burst)	
Analysis bandwidth (speech, noise)	
Measurement accuracy at 1 kHz	+/- 1 dB
Measurement accuracy re 1 kHz	
	+/- 1 dB (200-5000 Hz)
	+/- 2.5 dB (5000-8000Hz)
Battery drain resolution	+/01 mA
Measurement Range	
	20-135 dB SPL (200-2500 Hz)
	30-140 dB SPL (2500-8000Hz)

ANSI S3.46 - 1997 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.....Onear 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
71	Non-linear outer hair cell cochlear loss
Simulation bands	65

Specifications subject to change without notice



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