



RM500SLTM

Specifications

All-new NOAH[®] module available!



Storage & Transportation

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

General

Overall dimensions.....15.5"x12.75"x4.25"
Weight.....16.4 lbs (7.5kg)
Power source.....100-240V, 50-60Hz, 250 VA
Fuse.....2A type T, 250V
Display type.....fluorescent backlit active color
Display size.....12.1" diagonal
Internal printer.....3" (80mm) Thermal line printer, 200 dots/inch
Power amplifiers.....2
Stimulus channels.....2
Measurement channels.....1
Connectors.....1-USB
.....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.....8.8"x3.5"x1.5"
Test Box Isolation @ 1kHz:>25 dB
Speaker.....1 - 2"x3"
Induction Coils.....1 - Telephone Magnetic Field Simulator (TFMS ANSI S3.22 - 2003)
Battery Simulator.....per ANSI S3.22 2003
Frequency Range.....200 - 8000 Hz
Coupler microphone noise floor(200 - 8000 Hz): <40 dB 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 SPL 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 70 dB SPL
Test stimulus accuracy at reference mic. for tones (200-2000 Hz).....+/- 1.5 dB 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.....1/12 octave
Measurement accuracy at 1 kHz.....+/- 1dB
Measurement accuracy re 1 kHz
.....+/- 1 dB (200-5000 Hz)
.....+/- 2.5 dB (5000-8000 Hz)
Measurement range.....30 - 140 dB SPL
Harmonic distortion measurement.....2nd and 3rd or 2nd plus 3rd
Harmonic distortion range.....200 to 4000 Hz
Harmonic distortion accuracy.....+/- 1%
Battery drain range.....0 - 20mA
Battery drain accuracy.....+/- 5%
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

Speakers.....1 - 2"x 3"
Probe microphone tube.....Silicone 1.0 mm diameter x 75 mm
Probe microphone noise floor.....(200 - 8000 Hz): <45 dB SPL
Frequency Range.....200 to 8000 Hz
Test Stimuli.....tone, tone burst, pink noise, user supplied, calibrated or live speech, ISTS, filtered speech for verifying frequency-lowering instruments
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 tones (200 - 2000Hz).....+/- 1.5 dB SPL
Test stimulus accuracy at reference mic. for tones (2000- 8000 Hz).....+/- 2.5 dB 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 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.....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

Specifications subject to change without notice



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