

VERIFIT

Specifications

STORAGE AND 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	
Rear main unit.....	14.5x16x6.5 in. (36.8x40.6x16.5 cm)
Test chamber.....	14x14.4x4 in. (35.6x36.6x10.2 cm)
Weight.....	17.6 lbs (8 kg)
Display type.....	fluorescent backlit active color
Display size.....	12.1" diagonal
Resolution.....	800x600 (SVGA)
Internal printer.....	3" (80mm) Thermal line printer, 200 dots/inch
Headphone monitor amplifier.....	1 watt into 16 ohms
Power Amplifiers.....	2 @ 5 watts each
Stimulus Channels.....	2
Measurement channels.....	2
Connectors.....	1 - ethernet (RJ45)
.....	4 - USB
.....	1 - HDMI
.....	2 - external speakers (RCA)
.....	2 - expansion jacks (1/4" mono)
.....	2 - real-ear mics. (3.5mm st)
.....	1 - RECD transducer (3.5mm st)
.....	1 - monitor headset (3.5 mm st)
.....	1 - test chamber ref. mic. (3.5m st)
.....	1 - coupler microphone (3.5mm st)
.....	1 - battery substitute (3.5 mm st)

TEST BOX

Working space.....	11x 5x1.5 in. (28x12.7x3.8 cm)
Speakers.....	2 - 2x3 in. (5x7.5 cm) independent
Test box isolation @ 1kHz.....	>25 dB
Induction coils per ANSI S3.22-2003	
.....	1 - Telephone Mag. Field Sim. (TMFS)
.....	1 - 23 cm diameter test loop
Battery simulator.....	per ANSI S3.22 - 2003
Frequency range.....	200 - 8000 Hz
Test stimuli.....	tone, tone burst, pink noise, dual directional noise, calibrated or live speech
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 for tones.....	+/- 1 dB
Measurement accuracy re 1 kHz for tones.....	+/- 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 - 20 mA
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.....Equiv. Input Noise.....Input/Output Curves.....Coupler SPL -
Telephone Simulator.....Simulated Telecoil Sensitivity.....Battery Drain

Other tests available:

Speechmap® real-speech audibility measures.....Real-time adaptive
directional verification.....Coupler SPL vs frequency.....Coupler gain vs
frequency.....Spectral analysis.....Noise reduction verification.....Distortion vs
frequency.....Manual measurement of output, gain and
distortion.....VIEWPORT™ audibility, directional, noise reduction and
feedback suppression verification

ON-EAR MEASURES

Speakers.....2 - 2x3 in. (5x7.5 cm) ducted ports
Probe microphone tube.....Silicone 1 mm diameter x 75 mm
Probe modules.....2 - each containing probe and ref. microphones
Probe microphone noise floor (200 - 8000 Hz).....<45 dB SPL
Frequency range.....200 - 8000Hz
Test Stimuli.....frequency-modulated tone, tone-burst, pink noise,
dual directional noise, calibrated speech, live speech
Frequency modulation.....sawtooth +/- 3% over 128ms
Test stimulus levels at reference microphone for tones at 1 m
.....40-90dB SPL in 5 dB steps
Test stimulus accuracy at reference microphone for tones (200 - 2000 Hz)
.....+/- 1.5 dB SPL
Test stimulus accuracy at reference microphone 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
Frequencies per octave (tone burst).....3
Analysis filter bandwidth (speech, noise).....1/3 octave
Measurement accuracy at 1 kHz for tones.....+/- 1 dB
Measurement accuracy re 1 kHz for tones.....+/- 1dB (200-5000Hz)
.....+/- dB (5000-8000 Hz)
Measurement range.....20-135 dB SPL (200-2500 Hz)
.....30-140 dB SPL (2500-8000 Hz)

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.....Real-time adaptive
directional verification.....On-ear harmonic distortion.....On-ear spectral
analysis.....On-ear noise reduction verification.....On-ear feedback suppres-
sion verification.....Manual measurement of output, gain and
distortion.....VIEWPORT™ audibility, directional, noise reduction and
feedback suppression verification

Fitting methods available

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

audioscan
Best science. Best fit.

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