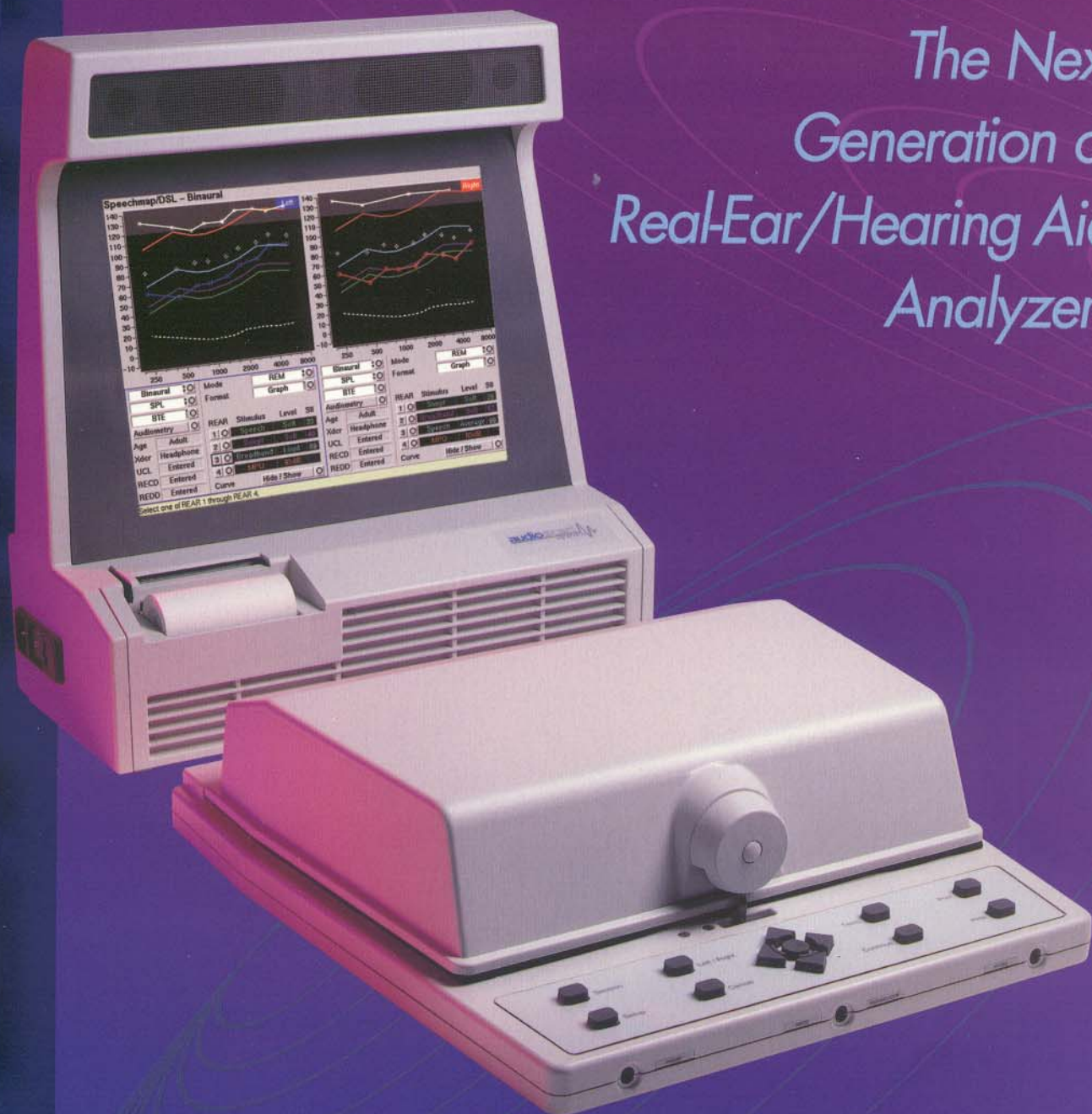


T H E V E R I F I T S Y S T E M

*The Next
Generation of
Real-Ear/Hearing Aid
Analyzers*



audioscan®

State-of-the-art technology that is affordable and very easy to use...

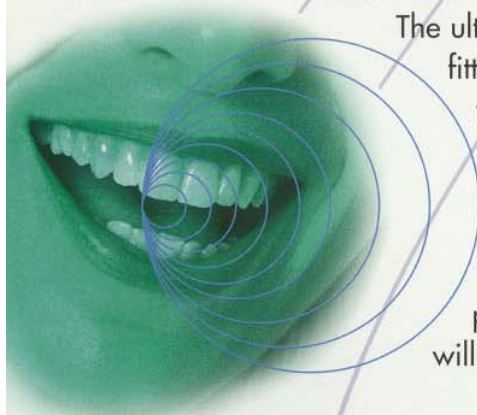
Meet the future of real-ear/hearing aid analyzers. The Verifit™ system provides advanced coupler and real-ear tests PLUS the benefits of shared data without:

- rearranging the office
- replacing existing equipment
- changing the way clinicians like to work

Quickly and accurately evaluate the processing and directional response of all types of hearing instruments.

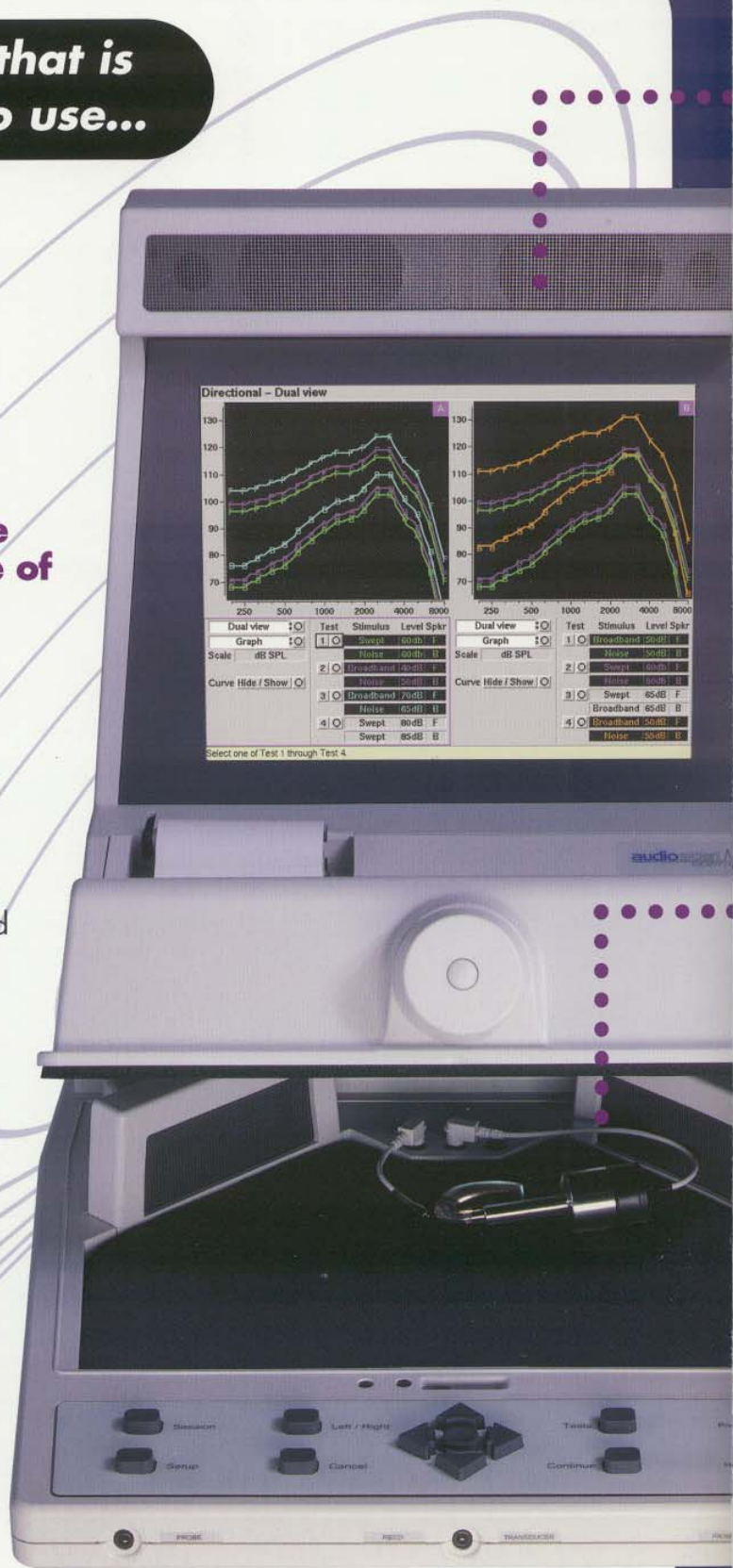
REAL SPEECH AND DSP MEASUREMENTS

The ultimate "real life" fitting and verification tool. Verifit's speech and speech-like test signals are designed to activate all types of hearing aid processing as they will be in real life.



DATA CONNECTIVITY

Designed for the office of the future, Verifit makes it easy to share data with office management systems and audiological equipment.



REAL-EAR Features Include...

DUAL Probe Modules

Evaluate binaural fittings quickly and easily.
Compare ears.
Balance performance.



Dual Probes

DEDICATED Real-Ear Speakers

Conduct real-ear measures efficiently without needing to adjust or maneuver test box speakers.



Real-Ear Speakers

MONAURAL/BINAURAL View Display Options

GRAPHIC/TABULAR Data Formats
Freedom to conduct tests and view results in the format you choose.



TEST BOX Features Include...

LARGE, highly absorbent Test Chamber

Evaluate all types of amplification, including FM systems, with room to maneuver.



Test Chamber

DUAL Source Speakers

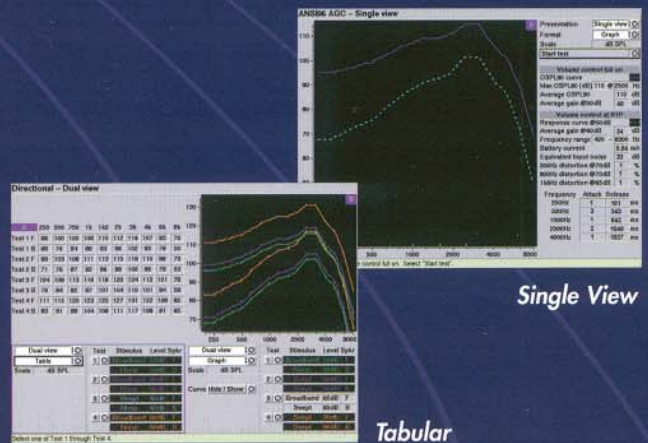
Quickly and easily verify the functioning of directional instruments.



Dual Source Speakers

SINGLE/DUAL View Display Options

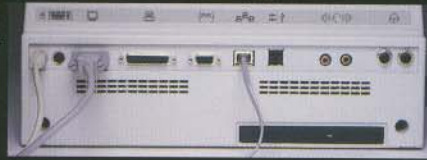
GRAPHIC/TABULAR Data Formats
Freedom to conduct tests and view results in the format you choose.



OTHER Features include...

Serial, Parallel, Ethernet and USB Ports

Provides maximum flexibility for data connectivity.



USER Support System

On-screen help and user's guide always at your fingertips.



EASY Updates

Software and user documentation provided on built-in CD-ROM.

DAZZLING 12.1" wide-angle, flat panel LCD color display

BUILT-IN, High Speed Thermal Printer

Or connect to an external printer via the parallel port.



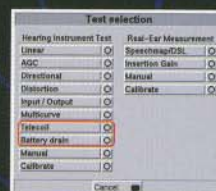
MULTIPLE User Interfaces

Operate the Verifit via the built-in keypad, QWERTY keyboard or computer mouse. Flexibility to work your way.



INTEGRATED Devices

- Telephone Magnetic Field Simulator and Test Loop per ANSI S3.22-1996
- Battery Simulator and Battery Drain Meter
- Monitor Amplifier
- RECD Measurement Transducer included



Verifit Model VF-1 Specifications

GENERAL

Overall dimensions	
Rear main unit	14.5" x 16" x 6.5"
Test chamber	14" x 14.4" x 4"
Weight	16 lbs
Display type	fluorescent backlit active color
Display size	12.1" diagonal
Display pixels (resolution)	800 x 600 (SVGA)
Printer type	thermal line printer
Printer resolution	200 dots per inch
Paper width	3" (80 mm)
Headphone monitor amplifier	1 watt into 16 ohms
Power amplifiers	2 - 5 watts each
Stimulus channels	2

Measurement channels	2
Connectors	1 - mouse (PS2-6 pin)
	1 - QWERTY keyboard (PS2-6pin)
	1 - external monitor (15HD)
	1 - parallel printer (25D)
	1 - RS232 serial (9D)
	1 - ethernet (RJ45)
	2 - USB
	2 - external speakers (RCA)
	2 - external speakers (1/4" mono)
	2 - real-ear mics. (3.5 mm st)
	1 - RECD transducer (3.5 mm st)
	1 - monitor headset (3.5 mm st)
	1 - test chamber ref. mic. (3.5 mm st)
	1 - coupler microphone (3.5 mm st)
	1 - battery substitute (3.5 mm st)

HEARING AID TEST CHAMBER

Working space	8" x 5" x 1.5" (approx.)
Speakers	2 - 2" x 3" independent
Induction coils	1 - Telephone Magnetic Field Simulator (TMFS ANSI S3.22 - 1996)
	1 - 20 cm diameter test loop
Battery simulator	per ANSI S3.22 - 1996
Frequency range	200 to 8000 Hz
Test stimuli	tone, broad-band noise, recorded speech
Test stimulus levels	40 to 90 dB SPL in 5 dB steps
Test stimulus levels (inductive)	31.6 mA/m per ANSI S3.22 - 1996
Test stimulus distortion	<2% at 90 dB SPL
	<0.5% at 70 dB SPL
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	pressure method
Analysis frequencies per octave	12
Analysis filter bandwidth	1/12 octave
Measurement accuracy at 1 kHz	± 1 dB
	± 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 - 20 mA
Battery drain accuracy	± .01 mA

ANSI S3.22-1996 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
- Coupler SPL - Vertical Magnetic Field
- Simulated Telecoil Sensitivity
- Test Loop Sensitivity
- Battery drain

Other tests available

- coupler SPL vs frequency
- coupler gain vs frequency
- spectral analysis
- distortion vs frequency
- manual measurement of output, gain and distortion

REAL-EAR MEASUREMENT

Speakers	2 - 2" x 3" ducted ports
Probe microphone tube	Silicone 1.0mm diameter x 75 mm
Frequency range	200 to 8000 Hz
Test stimuli	frequency-modulated tone, tone burst, broad-band noise, recorded speech
Frequency modulation	triangular ±5% at 36 Hz
Test stimulus levels at reference microphone for tones at 1 m	40 to 90 dB 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	pressure method
Analysis frequencies per octave	12
Analysis filter bandwidth	1/12 octave
Measurement accuracy at 1 kHz	± 1 dB

Measurement accuracy re 1 kHz	± 1 dB (200 - 5000 Hz)
	± 2.5 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

- Real-ear harmonic distortion
- Real-ear spectral analysis
- Manual measurement of output, gain and distortion

Prescriptive fitting methods available

- National Acoustics Labs Revised
- Pogo II
- Berger
- Libby
- Desired Sensation Level

REAL-EAR System

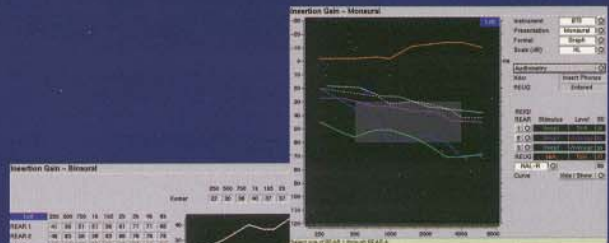
- Curves and targets in SPL and HL
- Monaural/binaural display options
- Graphic/tabular presentation formats
- Dual-channel spectrum analyzer



SPEECHMAP/DSL: BINAURAL SPL

SPEECHMAP/DSL: MONAURAL SPL

SPEECHMAP/DSL: TABLE/2CC TARGET



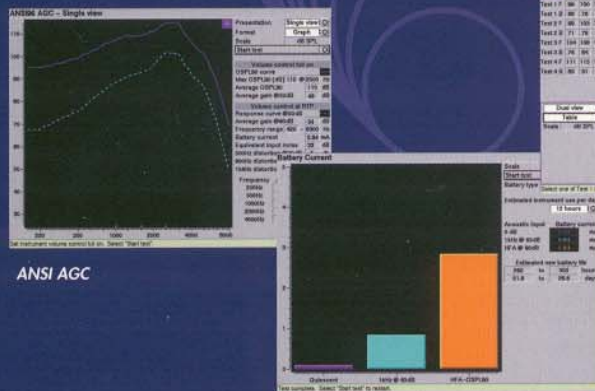
INSERTION GAIN: MONAURAL HL

INSERTION GAIN: TABLE/2CC TARGET

- Real-time display
- Various prescriptive/fitting methods including DSL[®] i/o
- Real speech and speech-like signals for fitting all types of hearing aids, including digitals

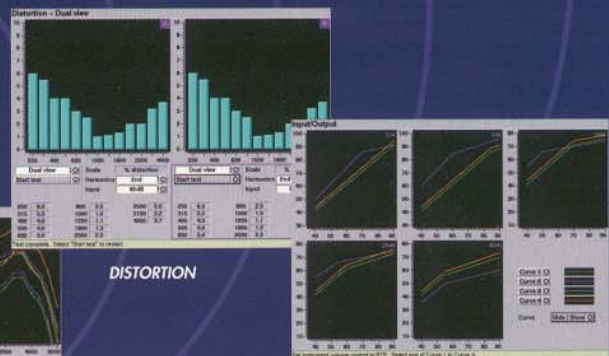
HEARING AID Analyzer

- ANSI (linear/AGC) hearing aid tests
- Single/dual view display options
- Graphic/tabular presentation formats
- True two channel measurements



ANSI AGC

BATTERY CURRENT



DISTORTION

DIRECTIONAL

INPUT/OUTPUT

- Automatic input level selection
- Integrated telecoil and battery drain tests
- Manual gain, output, distortion
- Dual channel spectrum analyzer

Network and NOAH capabilities available in future software release

noah

audioscan[®]
...the Real-Ear Experts

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Visit our Website: www.audioscan.com

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