audioscan®

PC Werth AUDIOLOGY equipment

VERIFIT

Hearing Instrument Fitting System

Fit Counsel Verify

VERIFIT®

Best Science. Best Fit.™

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The Benefits of Verifit Ownership

The Best Science Means The Best Fit
And the best fit is the key to building your practice. Audioscan's easy-to-use Speechmap® fitting environment ensures the best bit by utilizing the only available properly controlled and analysed speech signal…which is also repeatable for accurate comparison. This exclusive scientific method is your best fit guarantee.

Best Practices
Best practice doesn't have to mean difficult procedures. The use of advanced hearing instrument systems has been specified as a "best practice" initiative by every audiological authority in North America and the Verifit makes it practical.

One Easy Tool For All Hearing Aids
Audioscan equipment includes free software upgrades so it continues to evolve in step with hearing aid technology. Verifit can fit, test and troubleshoot analog or digital open-fit, directional, adaptive-directional BTE, ITE, ITC, CIC, CROS, Body, or FM devices.

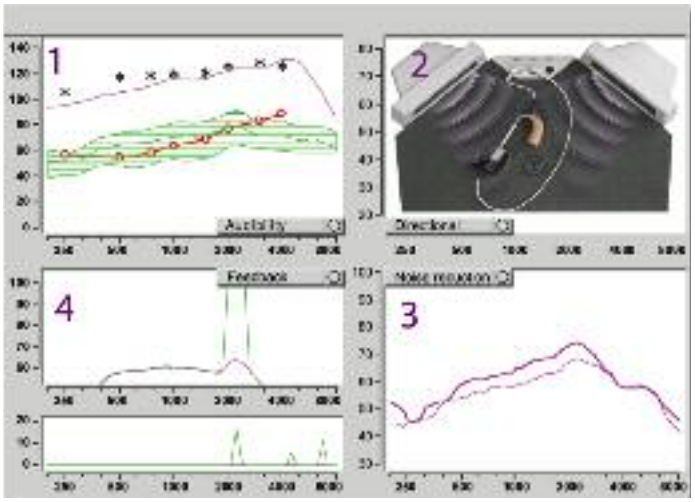
Viewport®
Your window to digital hearing aid performance
audioscan®

Completely characterize digital instrument performance on one screen in minutes!

Four Steps to Success

1 Speechmap® is our exclusive fitting environment. It is the only available fitting tool that utilizes the proper test signal that is appropriately analyzed. Audibility is your goal, Speech-map is your tool. Detailed information on Speech-map is available at: www.audioscan.com.

2 Only the Verifit can offer you a scientifically valid test for directionality with all of the digital features of the aid activated – something even a research or manufacturers' lab can't do. But with a Verifit you can!



3 Viewport also shows the noise reduction function engaging and exposes just how effecttive the aid is at removing noise. Select from a variety of everyday sounds.

4 Using real speech, our new feedback test shows exactly where feedback is occurring and reveals the feedback suppression in action. It even shows incipient feedback!

This new suite of tests makes fitting, counseling, and verification a tightly integrated four step approach.

THE UK'S LEADING SOURCE OF AUDIOLOGICAL INSTRUMENTS

P.C.Werth Limited, Audiology House, 45 Nightingale Lane, London SW12 8SP
Tel 020 8772 2700 Fax 020 8772 2701 Email info@pcwerth.co.uk www.pcwerth.co.uk

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The Most Complete Sytem

Standard features include:

- Dual probes for fast binaural fitting
- Viewport™ featuring Speechmap®, patented directional test, unique noise reduction and feedback suppression tests
- Fitting protocols (DSL®5.0a, NAL-NL1, Camfit) with new, more realistic targets for children and adults
- True two channel measurements
- Single/Dual view display options
- External monitor capability
- Sensory Loss Simulator™
- Occlusion effect test
- Battery simulator
- RECD transducer
- Probe monitor
- Telecoil test
- Manual gain, output, distortion tests
- Free software updates (adds features every year)

Optional accessories:

- Soft carry case
- NOAH module
- External speaker
- Probe mic extension cables
- Barcode scanner for quick data re-entry

The Verifit is the culmination of years of research and development and we feel that with the addition of Viewport we have succeeded in providing our customers with what they've been asking for. A quick but complete protocol for fitting and testing digital instruments with the instrument fully programmed and active.

No other piece of equipment comes close…
ask a Verifit owner!

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Specifications

STORAGE AND TRANSPORTATION

Temperature.....-20°C 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 colour
Display size.....12.1˝ diagonal
Resolution.....800x600 (SVGA)
Internal printer.....3˝ (80 mm) 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 mouse (PS2-6 pin)
.....1 QWERTY keyboard (PS2-6 pin)
.....1 external monitor (l5HD)
.....1 parallel printer (25D)
.....1 RS232 serial (9D)
.....1 ethernet (RJ45)
.....2 USB
.....2 external speaker jacks (RCA)
.....2 expansion jacks (¼˝mono)
.....2 real-ear mics (3.5mm st)
.....1 RECD transducer (3.5mm st)
.....1 monitor headset (3.5mm st)
.....1 test chamber ref mic (3.5mm st)
.....1 coupler microphone (3.5mm st)
.....1 battery substitute (3.5mm st)

TEST BOX

Working space.....11x5x1.5 in (28x12.7x3.8 cm)
Speakers.....2 2x3 in (5x7.5 cm) independent
Test box isolation @ 1kHz.....>25dB
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 direction 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 90 dB 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 pressure method (stored for open fittings)
Analysis frequencies per octave.....12
Analysis filter bandwith (noise).....1/12 octave
Measurement accuracy at 1 kHz for tones.....+/-1 dB
Measurement accuracy re 1 kHz.....+/- 1dB (200-5000 Hz)
.....+/- 2.5dB (5000-8000 Hz)
Measurement range.....30 – 140dB SPL
Harmonic distortion measurement.....2nd and 3rd or 2nd plus 3rd
Harmonic distortion range.....200 – 4000 Hz
Harmonic distortion accuracy.....+/-1%
Battery drain range.....0 - 20 mA
Battery drain accuracy.....+/-5%
Battery drain resolution.....+/-.01 mA
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. ducted ports (5x7.5cm)
Probe modules.....2 each containing probe & ref. microphones
Probe microphone tube.....Silicone 1 mm diameter x 75 mm
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
Stimulus level for tones.....40-85Db 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.....+/- 1dB
Measurement accuracy re 1 kHz.....+/- 1.5dB (200-5000Hz)
.....+/- 2.5dB (5000-8000Hz)
Measurement range.....20-135 dB SPL (200-2500Hz)
.....30-140 dB SPL(2500-8000Hz)

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 suppression 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-NLI, CAMFIT
Insertion gain with NAL-RP, NAL-NLI, Fig6, Pogoll, Berger, Libby

SENSORY LOSS SIMULATOR

Simulation types.....Linear conductive
....Non-linear outer hair cell cochlear loss
Simulation bands.....65

noah

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