

# Product Specifications



**Verifit<sup>2</sup>**  
Advanced Verification

## STORAGE & TRANSPORTATION

Temperature -20 to +60°C  
Relative humidity (non-condensing) 5% to 95%  
Atmospheric pressure 800 - 1060 hPa

## GENERAL

Power source 100-240V, 47 - 63Hz, 1.35A-0.53A  
Overall dimensions *Display unit WxHxD* 36x41.7x16.5 cm (14.2x16.4x6.5 in.)  
*Test box WxHxD* 35.9x13.7x32.7 cm (14.1x5.4x12.9 in.)

Weight 7 kg (15.4 lbs)  
Display type LED backlit active color  
Display size 12.1" diagonal  
Stereo headphone monitor amplifier 250 mW into 16 ohms, L/R  
Power amplifiers 2 @ 5 watts each  
Simultaneous stimulus channels 2  
Simultaneous measurement channels 2  
Connectivity

- WiFi 802.11 B/G/N
- 1 - Ethernet (RJ45)
- 5 - USB
- 1 - HDMI
- 2 - External speakers (RCA)
- 1 - Test box cable (HDMI Style)
- 1 - Probe dock (Mini-din)
- 2 - Probe microphone (3.5mm st)
- 1 - WRECD transducer (3.5mm st)
- 1 - Binaural monitor headphone (6.3mm st)
- 2 - Test box ref. mic. (3.5mm st)
- 1 - Binaural coupler microphone (3.5mm st)
- 1 - Battery substitute (3.5 mm st)
- 1 - Power supply (4-conductor DIN)

## TEST BOX

Working space 28x7.5x12.3 cm (11x3x4.8 in.)  
Isolation @ 1kHz >25dB  
Speakers 3 - 30mm (1.25 in.) independent  
Induction coil 1 - 23.5x16.9 cm (9.2x6.7 in.) test loop per ANSI S3.22  
Battery simulator per ANSI S3.22  
Frequency range 200 - 12500 Hz  
Test stimuli tone, tone burst, pink noise, dual directional noise, user supplied, calibrated/live speech, ISTS, filtered speech for verifying freq.-lowering instruments  
Test stimulus levels 40 to 90 dB in 5 dB steps  
Test stimulus levels (inductive) 31.5mA/m per ANSI S3.22  
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  
Test stimulus accuracy at reference mic. for tones (8000-12,500 Hz) +/- 4 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)  
+/- 5dB (8000 - 12500Hz)  
Measurement range 30 - 145dB SPL  
Harmonic distortion measurement 2nd and 3rd or 2nd plus 3rd  
Harmonic distortion range 200 - 4000Hz  
Harmonic distortion accuracy +/- 1% (absolute)  
Battery drain range 0 - 20 mA  
Battery drain accuracy +/- 5%  
Battery drain resolution +/- .01 mA

## ANSI S3.22/IEC 60118 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®
- Speechmap® for fitting telecoils
- Real-time adaptive directional verification
- Freq. lowering instrument verification
- Coupler SPL vs freq
- Coupler gain vs freq
- Spectral analysis
- Noise reduction verification
- Distortion vs freq
- Manual measurement of output, gain and distortion
- Skull Simulator (optional accessory)

## ON-EAR

Speakers 2 - 5x9 cm (2x3.5 in.) 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 - 12500Hz) <45 dB SPL  
Frequency range 200 - 12500Hz  
Test Stimuli frequency-modulated tone, tone-burst, pink noise, dual directional noise, calibrated/live speech, ISTS, filtered speech for verifying freq. lowering instruments  
Frequency modulation sawtooth +/- 3% over 128ms  
Test stimulus level at reference mic. for tones 40 - 85dB SPL in 5 dB steps  
Stimulus accuracy at reference microphone for tones 200-2000Hz +/-1.5dB SPL  
2000-8000 Hz +/-2.5 dB SPL  
8000-12500 Hz +/- 4 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 range 30 - 135 dB SPL (200-2500 Hz)  
30 - 140 dB SPL (2500-12500Hz)

## ANSI S3.46/IEC 61669 TESTS AVAILABLE

- Real-Ear Unaided Response
- Real-Ear Aided Response
- Real-Ear Occluded Response
- Real-Ear Insertion Gain

## OTHER TESTS AVAILABLE

- Speechmap®
- Real-time adaptive directional verification
- Frequency lowering instrument verification
- Harmonic distortion
- Spectral analysis
- Noise reduction verification
- Feedback suppression verification
- 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, Pogo II, Berger, Libby

## SENSORY LOSS SIMULATOR

Simulation types Linear, conductive  
Sensorineural, non-linear outer hair cell cochlear loss  
Simulation bands 65

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