

Salient Characteristics

Audioscan Verifit 2 Hearing Aid Analyzer (Brand Name or Equal)

General

The hearing aid analyzer is diagnostic equipment used for testing and fitting patients in need of a hearing aid. This instrument is fully binaural (meaning sound is recorded using two microphones and usually transmitted separately to the two ears of the listener). It is designed with an acoustically uniform test box where two instruments are mounted vertically, facing the main speaker -- this allows simultaneous binaural test box measurements.

Warranty Requirements

Manufacturer must offer a 2 year warranty that product is free from defects in materials and workmanship. All defects will be replaced or repaired by the manufacturer at no cost to the buyer.

Software Features

- a. Speech mapping interface
- b. Audibar SII graph
- c. Fully wideband 16kHz verification system (high frequency threshold is 8 to 16kHz)
- d. Simultaneous test box directional test
- e. Sensory Loss Simulator
- f. Dedicated noise reduction test
- g. Frequency lowering test
- h. EMR compatible (print to PDF)
- i. Accepts NOAH modules

Hardware Features

- a. Stand-alone (no PC required)
- b. Dual probes
- c. Binaural test box (3 speakers minimum)
- d. Binaural monitor headphones (provides ability to listen in on an active test)
- e. Telephone magnetic field simulator
- f. Multiple display capability
- g. External speaker capability

Test Box Specification

- a. Test stimulus: tone, tone burst, pink noise, dual directional noise, calibrated live speech, ISTS, filtered speech for verifying frequency-lowering instruments.
- b. Test stimulus levels: 40 to 90dB in 5dB steps
- c. Test stimulus distortion: <2% at 90dB SPL, <0.5% at 70dB SPL
- d. Test stimulus accuracy at reference mic for tones (200-2000 Hz): +/- 1.5 dB SPL
- e. Test stimulus accuracy at reference mic for tones (2000-8000 Hz): +/- 2.5 dB SPL
- f. Test stimulus accuracy at reference mic for tones (8000-12,500 Hz): +/- 4 dB SPL
- g. Analysis frequencies per octave: 12
- h. Analysis filter bandwidth (noise): 1/12 octave:
- i. Measurement accuracy at 1 kHz for tones: +/- 1 dB
- j. Measurement accuracy re 1 kHz for tones: +/- 1 dB (200-5000 Hz), +/- 3 dB (5000-12500 Hz)
- k. Measurement range: 30-145 dB SPL
- l. Harmonic distortion measurement: 2nd and 3rd or 2nd plus 3rd
- m. Harmonic distortion range: 200-4000 Hz
- n. Harmonic distortion accuracy: +/- 1% (absolute)