

AC40

Feature Overview

Two Independent Channels

The true independent channels of the AC40 make it stand above other audiometers. The AC40 lets you simultaneously present different frequencies to opposite ears. This flexibility allows for tests like the MLB but more importantly for complex signal mixing situations like speech in noise simulations.

Multi-Frequency

Test frequencies can be set in 1/24 octave increments up to 20 kHz. This makes the AC40 ideal for tinnitus measurements and ototoxicity monitoring.

High Frequency Audiometry

A high frequency headset is standard on the AC40. High frequencies can be displayed alone or combined with the multi-frequency function. Thresholds can be plotted in dB HL or dB SPL.

Speech Test

A tabular display for speech testing allows for quick data entry of SRT, multiple word recognition test scores with a variety of transducer selections. Two buttons on the front panel enable you to quickly score the tests and enter them into the display. All masking information is provided automatically. An alternate speech audiogram display is available for calculation of the PBI.

Live Voice

A built-in goose neck microphone is standard. An optional operator headset with boom microphone is available. Calibration of the output to the patient is controlled via adjustable potentiometers on the front panel with easy to view LCD VU meters. The talk-forward function is also adjustable for volume.

CD / Tape Inputs

The AC40 provides connections for commercially available CD and Tape players. Functionality of the AC40 allows for all recorded speech materials including CAPD recorded materials.

Talk Back Microphone

A lapel microphone is standard on the AC40. An optional EMS400 microphone stand is available and can be placed on a table or mounted on a sound chamber wall.

Monitoring

Test signals, masking and talk-back are audible via the built-in speaker and both channels have independent volume controls. An optional monitor headset with or without a boom microphone is available for operator convenience.

Patient Assistant Monitor

The AC40 comes standard with a patient assistant monitor headset with independent volume control. This is an extremely useful function which allows the operator to communicate with an assistant when testing infants, children and difficult to test patients. An assistant can monitor the test signal presentations to help during play audiometry and conditioning.

Optional Sound Field

The AC40 can be supplied with built-in free field amplifiers. When connected to high efficiency

speakers, free field output levels of 90dB SPL for speech are typical. External amplifiers may be connected to increase output levels as high as 105dB SPL with warble tone and NB noise signals.

Pre-Programmed Tests

Loudness Scaling for evaluating subjective loudness growth includes direct comparisons with standard curves for normal perceived loudness.

Auto Threshold test follows the Hughson Westlake procedure according to ISO 8253.

The Békésy test features continuous or pulsed tone presentations and can be performed using fixed or sweep frequencies up to 16kHz.

Threshold Tone Decay works automatically in a time window of up to 420 seconds. The test results are automatically calculated.

SISI test includes a familiarization feature and automatic score calculation.

Masking Level Difference (MLD) test offers a mixture of phase controlled tone and noise stimuli for testing retrocochlear function and CAPD.

ABLB has its own dedicated screen where any recruitment can be shown in a clear, graphical manner.

Monaural Loudness Balancing (MLB) is included for evaluating recruitment in binaural hearing losses.

Remote Control

The AC40 has a unique ability to allow the operator to present test signals to the left or right ear by pressing the patient response switch. This is valuable when testing infants, children or difficult to test patients when conditioning is necessary and no assistant is available. This will reduce the need to refer some patients to other clinics thereby saving time and money for your clinic.

NOAH

The AC40 is ideally suited for hearing aid fitting applications as it will communicate directly with NOAH. Unlike many audiometers, the AC40 can transmit all test data to the NOAH audiometry module eliminating the need for time consuming manual data entry.

OtoAccess™

Interacoustics® also offers OtoAccess™. This is an independent database program that can store and retrieve patient data, including audiometry. In addition, OtoAccess™ communicates with other Interacoustics® products, allowing impedance, ABR, VNG and OAE data to be stored conveniently in the same patient file as the audiometry. Networking the software allows users secure access to patient data from other office computers at any time.

Optional Insert Phones

The AC40 allows for direct connection of insert earphones as well as the standard TDH39 phones. Independent calibration is maintained within the AC40 software. The flexible setup menu allows the user to initiate the AC40 with the user's preference of transducers. Alternating between transducers is accomplished with the press of a button.