

# Earscan<sup>®</sup>

Acoustic Impedance  
Microprocessor Audiometer  
Data Output



**Micro Audiometrics**

TM

**For Hearing Testing**

# Earscan® Acoustic Impedance MP Audiometer with Data Output

Earscan® is a sophisticated, yet easy to use, middle ear analyzer offering impedance and/or air conduction audiometry. Tympanometry features one and three second test speeds and an optional ipsilateral acoustic reflex. The audiometer may be used in either the automatic (microprocessor controlled) or manual (operator controlled) mode, and is available in two versions: as a threshold audiometer, or as a pass/fail screening audiometer.

**USER SELECTABILITY:** Earscan audiometer incorporates user selectable frequency and intensity levels to optimize test parameters for the best compromise of speed and thoroughness. All testing levels may be easily programmed prior to testing. At the time of purchase, the user may also specify levels that fulfill his testing requirements.

**RELIABLE:** Earscan is designed with 100% digital switches and calibration technology which provide long term repeatability. Mechanical signal switches and calibration pots, which are a major cause for instrument failure and calibration drift, have been eliminated.

**PORTABLE:** Light weight and compact for easy transportation. Optional carrying cases are available.

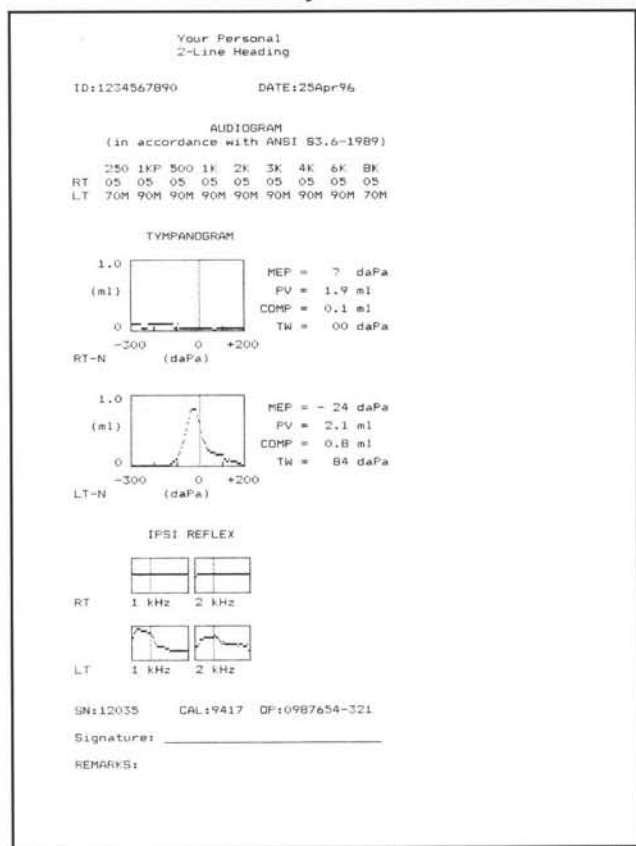
**TEST RESULTS:** LCD reports stored test data, allowing the operator to recall established thresholds and tympanograms for both ears. The serial port allows test data to be transmitted to an optional printer for single or multiple hardcopy reports, or to a computer for data management with commercially available software.

**UPGRADEABLE:** Any of the above options not included in your initial purchase can be added at any time to upgrade your instrument.

**WARRANTY (U.S. only):** Three years parts and labor on Earscan; one year on headset, patient response button, and probe.

**SERVICE (U.S. only):** First year factory calibration free. Prompt service. Factory calibrations include free revisions that keep your Earscan up-to-date.

## Report



Not shown actual size.



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## Specifications

### GENERAL

Dimensions ..... 7.5"W x 3"H x 9"D (19cm x 7.6cm x 23cm)  
Weight ..... 3 - 6 lbs. (1.4 - 2.7 kg)  
Power ..... U.S. and international voltages  
Display ..... LCD; 84 x 32 points, 14 characters x 4 lines  
Serial Port ..... For printer or computer with RS-232 port  
Standard Accessories .... User's manual, user's guide  
Optional Accessories ..... Carrying case, printers and software (call for availability)

### EARSCAN ACOUSTIC IMPEDANCE

Probe Tone ..... 226 Hz at 85 dB SPL  
Pressure Range ..... +200 to -312 daPa  
Equivalent Volume ..... 2 - 7 ml  
Ipsi. Reflex Option ..... 1000 & 2000 Hz at 105 dB SPL  
Stimulus Duration - 500 msec  
Rest time between 1K & 2K = 1.8 sec  
Graphic Data ..... Each ear: 84 point tympanogram  
42 point 1000 Hz reflex  
42 point 2000 Hz reflex

Numeric Data ..... Middle ear pressure, physical volume, compliance, and gradient  
Calibration ..... First year factory calibration free (U.S. only)  
Air Pressure Sweep ..... Normal: 150 daPa/sec, Fast: 450 daPa/sec  
Standard Accessories .... Impedance probe, eartips

### EARSCAN MICROPROCESSOR AUDIOMETER

Presentation ..... (3) 200 msec pulses or continuous tone  
Repetition Rate ..... Pseudorandom intervals  
Calibration ..... First year factory calibration free (U.S. only), ANSI Standard S3.6-1989 for Pure Tone Audiometers, ISO & IEC Standards  
Standard Accessories .... TDH-39 headset, patient response button with automatic audiometry  
Optional Accessories ..... Sound room cords, noise excluding headphone enclosure

### MANUAL AUDIOMETER

Frequencies ..... Same as for thresholds or screening version  
Hearing Levels ..... 0-90 dB HL except 250 & 8K Hz to 70 dB HL  
Attenuation ..... +5/-5 dB steps (+5/-10 dB steps optional)

### THRESHOLD VERSION (selectable)

Frequencies ..... 250\*, 1K, 500, 1K\*, 2K, 3K, 4K, 6K, 8K Hz  
Hearing Levels ..... 0-90 dB HL except 250 & 8K Hz to 70 dB HL  
Attenuation ..... +5/-10 dB steps

### SCREENING VERSION (selectable)

Frequencies ..... 250\*, 1K\*, 500, 1K, 2K, 3K, 4K, 6K\*, 8K\* Hz  
Hearing Levels ..... 25-35 dB HL (0-90 dB available)  
Attenuation ..... +5 dB steps

\*These frequencies are deleted on standard orders unless specified.  
Specifications are subject to change without notice.