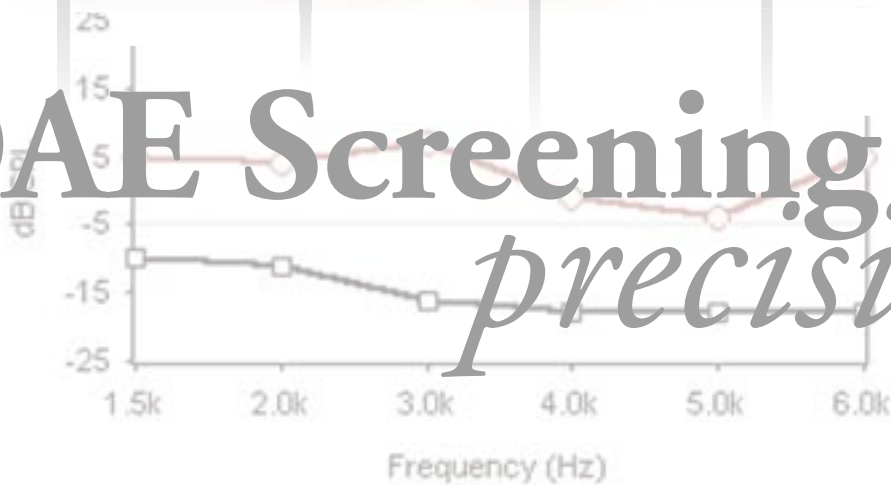




OAE Screening.

precision



The OtoRead is a fast, automatic handheld OAE instrument for testing newborn babies, children and adults.

Several test protocols are available using either TE or DP. Actual test results along with a Pass or Refer indication are available on the display as well as in print from a thermal printer. The user has a choice of three different lengths of cable from the unit to the probe, providing great flexibility to accommodate a variety of testing situations. Tests may even be performed with the unit resting in its cradle.



OtoRead

- Efficient Baby Screening and diagnostic testing

Applications

The OtoRead is ideal for newborn hearing programs. Because the OtoRead is so flexible, the newborn program manager can establish a defined protocol that can be followed by any trained individual. All that is required is a proper seal at the ear canal and pressing a single button to initiate the test. The printed results reveal a Pass or Refer and the actual data can be reviewed by the program administrator. The OtoRead is also suitable for an ENT or audiology clinical setting. Expanded protocols allow up to 6 frequency evaluations extending out to 6kHz with the Distortion Product model. A transient test signal with standard or custom pass/refer criteria is also available. With this flexibility the OtoRead can be used as a full diagnostic instrument to evaluate ototoxicity, difficult to test patients, occupational hearing loss onset and functional hearing loss cases.

The instrument

The OtoRead has a sleek, ergonomic design which makes it easy to hold and administer a test. Reliable test results are a must for any situation. The OtoRead utilizes a superior noise rejection algorithm and a quick, accurate ear canal calibration to maximize the quality of your test results. A simple four arrow keypad in conjunction with a display screen lets the user easily move through the tests, review data, setup various test protocols and change basic settings. It even has memory for storing up to

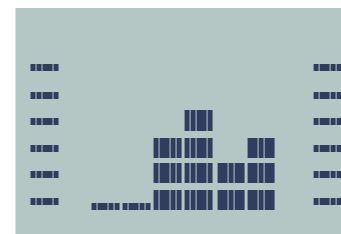
50 ears which can be recalled for review. The OtoRead has the capability to transfer data to a PC. The handy OtoRead cradle is used to store the instrument and to transfer data to a PC or printer. Tests can even be run while it rests in the cradle. The OtoRead is powered by standard alkaline batteries so you can have unrestricted movement at the patients ear, or simply go from room to room as you see different patients.

The probe

The OtoRead has a small and lightweight probe insert with a removable cone. This allows for quick cleaning or replacement should it become clogged with debris from the ear canal. The probe is also detachable, allowing various lengths of cable to be connected so the instrument can be set up for the convenience of the user.



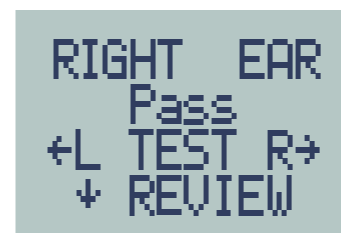
The OtoRead allows the use of extension cables and can thus be used handheld or can lay beside the patient.



Testing ongoing



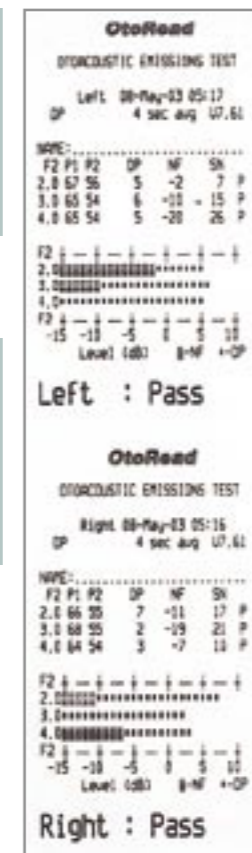
Noisy test environment



Pass recommendation



Refer recommendation



Printout DPOAE



Printout TEOAE

The printer

A fast and quiet thermal printer is standard issue with the OtoRead. A simple interface from the cradle to the printer will transfer all of the test data within seconds. The test data is easy to read and will give a Pass or Refer indication for each ear.

The OtoRead is also suitable for adult testing



General Technical Specifications

Standards:

Safety: EN60601-1
EMC: EN60601-1-2

Medical CE-mark:

The CE-mark indicates that Interacoustics A/S meets the requirements of the Annex VI of the Medical Device Directive 93/42/EEC. Approval is made by TÜV – identification no. 0123.

Test Specifications:

Measurement Type:
Otoacoustic Emissions.

Frequency Range:

DPOAE:
1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 12 kHz.
TEOAE:
0.7, 1, 1.4, 1.5, 2, 2.5, 2.8, 3.5, 4 kHz.

Stimulus Intensity:

40 to 65 dB SPL (DPOAE).
83 dB SPL (TEOAE).

Maximum Output (Protection):

90 dB SPL.
(This level is well within OSHA permissible limits of 90 dBA for 8 hours).

Microphone System Noise:

-20 dB SPL @ 2 kHz (1 Hz bandwidth).
-13 dB SPL @ 1 kHz (1 Hz bandwidth).

Probe Cables:

Standard: 30 cm,
Extension cable: +100 cm / 39 inches.
Extension cable: +200 cm / 79 inches.

Instrument Specifications:

Power Supply:
(4) AA/UM-3/R6 - alkaline (6V total)

Battery Life:
Approximately 300 tests.

Display:
LCD-display 4 line x 10 character.

Instrument Weight:
300 g/ 10.6 oz. including batteries.

Printer Specifications:

Type:
Thermal dot matrix line printer.

Speed:
>10 lines per second.
Full printout both ears approx. 7 sec.

Operating Noise:
<50 dB SPL.

Power Supply:
External power supply
100-240V, 50/60 Hz, 0.8 A.

Weight:
845 g/1.9 lbs. including power supply.

Paper:
Thermal roll - 57 mm/2.25" wide.

Language Options:

English, German,
French, Spanish.

Versions:

Several versions of the OtoRead are available, using either TE, DP or both, and with testing up to 6 frequencies per ear.

Versions:	3 fixed frequencies: 2, 3, 4 kHz	6 frequency bands: 1.5, 2, 2.5, 3, 3.5, 4 kHz	4 groups of 6 preset freq. in the range of 1.5 to 12 kHz	2 groups of 6 preset freq. bands in the range of 0.7 to 4 kHz
Screening DP	X			
Screening TE		X		
Standard DP			X	
Standard TE				X
Clinical			X	X

Parts Included with the OtoRead:

Handheld unit (OtoRead) including probe cord
Cradle
Printer including power supply and power cable
Printer Cable
Probe cord for extension (100 cm/39 inches)
2 Thermal printer paper rolls
Box of 146 eartips (12 sizes)
4 probe tips
4 AA/UW3/R6 Alkaline Batteries
Operation / Service / CE manual



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