OtoRead™

Portable OAE

Reliable, flexible & precise

Interacoustics®

leading diagnostic solutions

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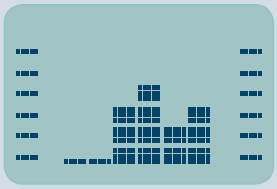
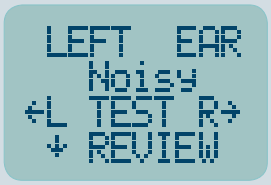


Testing ongoing



Noisy test environment

Pass recommendation

Refer recommendation

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

Newborn hearing programs
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.

Full diagnostic instrument
The OtoRead™ is also suitable for an ENT or audiology clinical setting. Expanded protocols allow up to 6 frequency evaluations extending up to 12kHz with the Distortion Product model. The DPOAE/TEOAE test protocols can be set up with standard or custom pass/refer criteria. 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 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 cerumen 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 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 the OtoRead™ 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 database
The optional OtoRead™ database software provides the means for permanently storing the test results, viewing results and then generating a professional report on standard paper. The print format displays the results in a colourful and concise manner providing a report traditionally only available on more expensive devices. The database program also has an interface for Hi-Track and OZ, two of the most commonly used newborn hearing screening management software programs.

The printer
A fast and quiet thermal printer is included 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.

Printout TEOAE

Printout DPOAE

OtoRead™

- *Portable handheld unit*
- *DPOAE & TEOAE*
- *User programmable protocols*
- *Extended probe available*

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Technical Specifications

Measurement type:	Otoacoustic Emissions.
Frequency range DPOAE:	1.5, 2, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 12 kHz.
Frequency range 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.
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:	Thermal dot matrix line printer. Full printout both ears approx. 7 sec. External power supply 100-240V, 50/60 Hz, 0.8 A. Weight: 845 g/1.9 lbs. including power supply.
Software language options:	English, German, French, Spanish, Russian.
OtoRead™ versions:	Several versions of the OtoRead™ are available, using either TE, DP or both, and with testing up to 6 frequencies per ear.

	DP	TE
Screener (1 fixed protocol)	4 bands 2-5 kHz	6 bands 1.5-4 kHz
Standard (1 fixed protocol, 1 customizable protocol)	6 bands 1.5-12 kHz	6 bands 700-4 kHz

	DP + TE	
Combo (2 fixed protocols, 2 customizable protocols for DP and TE - a total of 4 protocols)	6 bands 1.5-12 kHz	6 bands 700-4 kHz

Standards:	Audiometer: IEC 60645-3, Safety: IEC 60601-1, EMC: IEC 60601-1-2
Medical CE-mark:	Yes
Included parts:	Handheld unit (OtoRead™) including probe cord Cradle Printer including power supply and power cable Printer Cable Carrying Bag Probe cord for extension (100 cm/39 inches) 2 Thermal printer paper rolls Box of 146 eartips (10 sizes; 3, 4, 6, 7, 8, 9, 10, 11, 12, 13 mm) 4 probe tips 4 AA/UW3/R6 Alkaline Batteries Operation / CE manual
Optional parts:	Database Software Extension cable: +200 cm / 79 inches.

Other OAE products

- Eclipse with TEOAE and/or OAE

Dedicated carrying case

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

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Sales and service in your area:

Read more here:
www.interacoustics.com/com/OtoRead

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