

OtoRead™
Portable OAE



Reliable, flexible & precise



Interacoustics®

leading diagnostic solutions

OtoRead™

Portable OAE

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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.

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 detachable, allowing various lengths of cable to be connected so the instrument can be set up for the convenience of the user.

The instrument

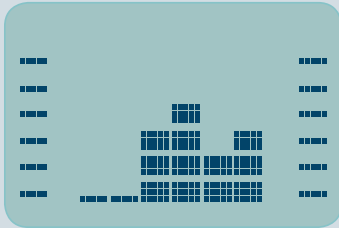
The OtoRead™ has a sleek, ergonomic design which makes it easy to hold and administer a test. The OtoRead™ utilizes a superior noise rejection algorithm and a quick, accurate ear canal calibration to maximize the quality of the test results.

A simple four arrow keypad in conjunction with a display screen makes it easy to move through the tests, review data, setup various test protocols and change basic settings. It even has memory for storing tests for up to 250 ears which can be recalled for review.

The handy OtoRead™ cradle is used to store the instrument and to transfer data to a PC or printer. The OtoRead™ is powered by standard alkaline batteries so you can have unrestricted movement at the patient's ear, or simply go from room to room as you see different patients.



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



Testing ongoing

LEFT EAR
Noisy
←L TEST R→
↓ REVIEW

Noisy test environment

RIGHT EAR
Pass
←L TEST R→
↓ REVIEW

Pass recommendation

LEFT EAR
Refer
←L TEST R→
↓ REVIEW

Refer recommendation



OtoRead™

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



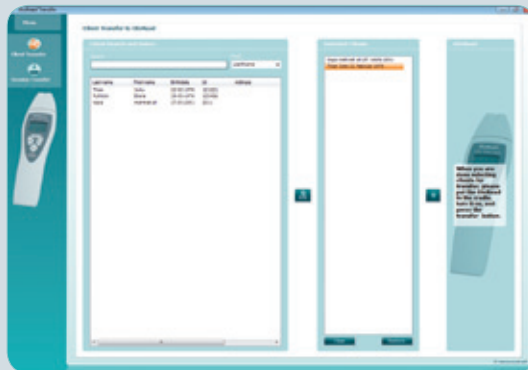
OtoRead™

Portable OAE

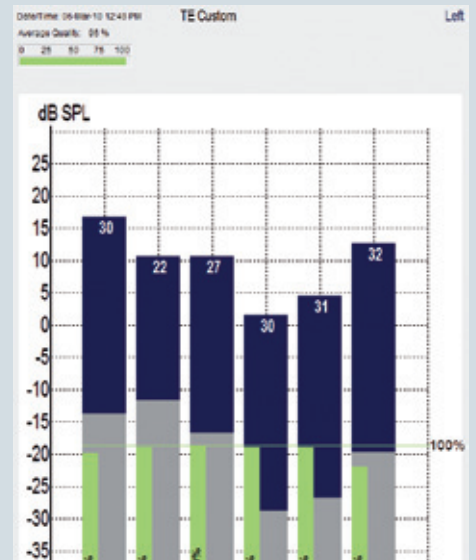
Data management & printing

OtoRead™ Patient Transfer Software and OtoRead™ Module (optional)

Up to 100 patient names (up to 5 recordings each) can be transferred from the OtoAccess™ database to the handheld OtoRead™. After testing all patient recordings can be uploaded to OtoAccess™ for viewing and printing via the OtoRead™ module. The TEOAE and DPOAE recordings can be displayed in either bar view or as a line chart.



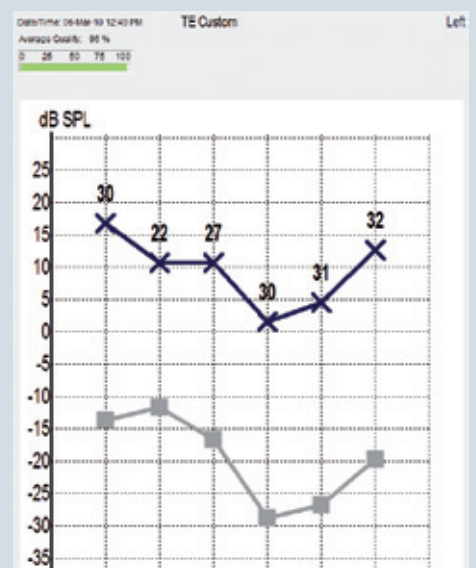
OtoRead™ Patient Transfer software



Barview in OtoRead™ module



OtoRead™ Module



Line chart in OtoRead™ module

OtoRead™

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 70 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:	OtoRead™ handheld: English, German, French, Spanish, Russian, Polish, Portuguese, Turkish OtoRead™ Patient Transfer software: English, Spanish, Portuguese OtoRead™ Module: English, German, Russian, Chinese OtoAccess™: English, German, French, Spanish, Italian, Russian, Polish, Chinese, Turkish, Korean, Greek, Portuguese All above OtoRead™ software supports Windows® XP and Windows® 7 (32 and 64 bit)
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) 1 Thermal printer paper roll 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:	Extension cable: +200 cm / 79 inches. OtoRead™ CD-ROM (OtoRead™ Module, OtoRead™ Patient Transfer, OtoAccess™ database) USB cable package (incl. OtoRead™ CD-ROM) Serial cable package (incl. OtoRead™ CD-ROM)

Available options:

OtoRead™ Licenses	DP test option	TE test options
Screener+ (Fixed protocols)	DP 2 to 5 kHz 4 Frequencies tested (3 for pass) Average test time 4 sec. SNR 6dB DP Custom 2 to 5 kHz 4 Frequencies tested.(3 for pass) Average test time 2 sec. SNR 6dB	TE 1.5 to 4 kHz 6 Frequencies tested (3 for pass) Average test time 64 sec. SNR 4dB
Screener DP (Fixed protocols)	DP 2 to 5 kHz 4 Frequencies tested (3 for pass) Average test time 4 sec. SNR 6dB DP Custom 2 to 5 kHz 4 Frequencies tested. (3 for pass) Average test time 2 sec. SNR 6dB	Not available
Screener TE (Fixed protocols)	Not available	TE 1.5 to 4 kHz 6 Frequencies tested (3 for pass) Average test time 64 sec. SNR 4dB
Standard DP <ul style="list-style-type: none"> • Stimuli Levels • SNR • Average test time • Number of frequencies to pass Can all be set by user	Different frequencies for selection between 1.5 – 12kHz – All protocol parameters can be changed	Not available
Standard TE <ul style="list-style-type: none"> • Stimuli Levels • SNR • Average test time • Number of frequencies to pass Can all be set by user	Not available	Different frequencies for selection between 0.7 – 4kHz – All protocol parameters can be changed
Clinical DP & TE <ul style="list-style-type: none"> • Stimuli Levels • SNR • Average test time • Number of frequencies to pass Can all be set by user	Different frequencies for selection between 1.5 – 12kHz – All protocol parameters can be changed	Different frequencies for selection between 0.7 – 4kHz – All protocol parameters can be changed

All OtoRead™ versions hold the option to transfer Patients.

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



Leading diagnostic solutions

Interacoustics – the best choice

With over 40 years of experience, Interacoustics is dedicated to supplying its customers with the best possible solutions for their professional needs. This is accomplished by maintaining a continuous dialogue with healthcare professionals working in all sectors of audiology, neurology and physical therapy. Our equipment meets the highest possible engineering standards and we provide design know how that can only come from close contact with clinical practice.

Solutions on every scale

Designing equipment for every size of clinic in so many countries puts us in the unique position of being able to offer solutions that fit your requirements exactly. Audiometry, tympanometry, electrophysiology, hearing aid testing, balance investigation and rehabilitation are all within our scope and can be integrated to suit your needs.

Intelligent design

We design equipment to make testing and interpretation easier. This means better interfaces, well designed screen layouts, printed reports and interaction over networks with databases and electronic records systems. In most cases, you can configure the settings and layout yourself.

Support worldwide

The Interacoustics name is not only your guarantee of quality and functionality, but also for support. We operate in over 100 countries worldwide through a well coordinated network of distributors and service centers to ensure that you receive total support and service.



Other OAE products

- Eclipse with TEOAE and/or DPOAE



Dedicated carrying case



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Sales and service in your area:

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

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