

The new [inter] face of middle-ear analysis

Wireless Bluetooth diagnostics



MADSEN OTOflex 100

Data management **Hearing assessment** Fitting & Testing Balance assessment

Helping you make the right decision

GN Otometrics

What you need

Hearing care professionals are experiencing a growing need for more efficient work routines, higher patient throughput, and greater flexibility.

They see the need to integrate test data with PC-based patient databases. And they want their patients to enjoy better service and greater convenience. Sound sensible?

Unfortunately, bulky stand-alone test equipment installed

in overcrowded examination rooms, plus primitive documentation make it difficult to achieve these important goals. That's why we developed the revolutionary new MADSEN OTOflex 100 – the world's first full-capability diagnostic immittance device in a truly portable design.

Unsurpassed flexibility

The OTOflex 100 features tympanometry, reflex screening/threshold/decay, plus ETF – all in a single, compact, and highly flexible unit. Hang it on the wall, set it on your desk, or even put it in your pocket, you'll always have everything you need close at hand. Moreover, the inclusion of 1000 Hz probe tone, wide-band noise reflex stimuli, automatic test sequences, and

real-time wireless communication with your PC or printer, the new OTOflex 100 boasts greater functionality and compliance with recommended test protocols than any other screening or diagnostic immittance devices on the market. Regardless of size.

Unsurpassed convenience

There are three secrets behind this remarkable concept. First, our innovative new probe can be used for *any* size of ear, from premature babies to adults. Second, full integration means that in addition to manual testing (just use the scroll wheel to switch to a new test), you can create automatic sequences that perform an entire battery of sophisticated tests at the touch of a button. You can also overlay multiple



Tympanometry

Multi-layered manual or automatic tympanograms at 226 and/or 1000Hz.



Acoustic reflex

For quick-check screening or full ipsi/contra thresholds.



Reflex decay

Ipsi or contra, with active pressure compensation.

tympanograms for pre-/ post-treatment comparison. Finally, thanks to Bluetooth wireless communication and an all-day battery, OTOflex is free to move where you do, linking seamlessly to our complete otodiagnostics software suite whenever you are near your PC (the OTOdiagnostics Suite is supplied as standard with OTOflex 100).



MADSEN OTOflex 100



Eustachian tube tests
Comprehensive ETF tests for intact or perforated membranes.

Where you need it

The truth is, it's not always easy to get patients to a special examination room or sound booth. Premature babies are often confined to incubators. Accident victims may be bedridden. Elderly patients may not be readily mobile. And sometimes, it's simply more efficient not to move the patient to a dedicated test environment.

Greater efficiency, less stress

Thanks to OTOflex's compact design, you can now conduct sophisticated middle-ear examinations virtually anywhere. OTOflex is light enough to carry in a pocket or bag so you can use it at a moment's notice. Or use our custom PC-style carrying case with room for extra tips and other acces-

sories. And when you're back at the office, you can use OTOflex in combination with the optional wall mount or desk stand, both of which charge the all-day battery so OTOflex is always ready for use.

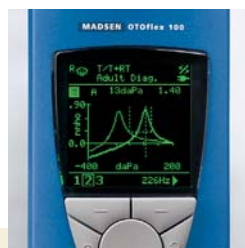
To help you optimize your time, OTOflex also features custom test setups and flexible use of automatic test sequences so you don't have to enter the same information again and again. And for added convenience, auto-start ensures that tests begin as soon as the probes are correctly positioned – a real advantage when working with restless children.

One probe fits all

Our small, lightweight probe comes apart for easy cleaning

and contains its own calibration data - just plug and play! And the probe tip is so slender that the smallest size of eartip is only 3 mm - small enough to fit even premature babies. Yet thanks to our wide range of eartips, you can use the same probe on any patient. What's more, the new eartips lock onto the probe to facilitate simple insertion into the ear canal.

In short, OTOflex helps save time because it's so easy to use. And it helps you provide better service to your patients because it's faster and more convenient for them, too! You can't ask for much more than that. But there is more...



High-contrast active display

Our extra bright Organic Light-Emitting Diode display – OLED – provides outstanding visibility from all angles, under all types of indoor lighting.



Lightweight, easy to clean probe

One probe fits all patients while our new screening, infant, and mushroom eartips ensure a perfect seal and stay firmly in place.



Mobility – all day long

Take OTOflex with you or keep it nearby in an OTOflex desk stand or wall mount. Large memory for a full day's worth of testing. High battery capacity so OTOflex works as long as you do.



Photos courtesy of Green Hearing Center, Denmark, 2003.



From basic screening to sophisticated middle-ear analysis, OTOflex provides a full range of diagnostic features in a convenient, hand-held design.



Full diagnostic middle-ear analysis
All the diagnostic capabilities you need in one compact, highly flexible unit - and one which you can hold in your hand, put in your pocket or position freely near the patient.



Flexible solutions for screening
The probe can be mounted on the transparent plastic holder for easy, yet sensitive, guidance into the ear canal.



Ergonomic screening handle
You can also use the optional handle detached as illustrated or with the handle mounted on the OTOflex.



Integrated cable solution and handle
When attaching the probe holder to the OTOflex, you can wind the cable into the body of the device thus converting it into one integrated unit, ideal for screening - and without any cables.

Well-connected

Introducing the OTODiagnostics Suite

The OTODiagnostics Suite represents an exciting new conceptual framework for test and measurement software. Everything you need is contained in one intuitive interface, which you can run either as a stand-alone application or as a NOAH 3 compatible measurement module. It's efficient and it's accurate. Is this the future of audiology? No - it's already here!

Wireless

Forget about RS-232, RJ-45, and all those other strange cables and plugs. OTOflex is 100% wireless, providing full two-way communication directly with your computer or printer. Don't want to use OTOflex as a stand-alone unit? No problem. Control it directly from your PC. Sounds

OTOflex is free to move where you do, linking seamlessly to our otodiagnostic software whenever you are near your PC.

easy? It is – the only high-tech word you need to know is “Bluetooth”.

The freedom of Bluetooth

Quite simply, Bluetooth is the world's leading wireless communication standard. Bluetooth uses radio waves, which does away with the limitations of infrared. Seamless point to point connections allow multiple OTOflex devices to transmit live simultaneously, through sound booth walls, without data confusion. Best of all, Bluetooth adapters have already become low cost standard accessories for PCs and printers.



- Seamless dual user interface
- View live test results directly on your PC's screen
- Control OTOflex directly or from your PC
- 100% wireless radio communication
- Connects to PCs, laptops or printers via standard USB Bluetooth adapters
- Range up to 10 meters/33 feet
- Print all test results on a single sheet of standard paper
- Efficient data archiving from OTOflex to PC database

World's leading wireless standard

Bluetooth is already featured in NOAHlink from HIMSA and complies with regulations and standards for medical devices.

More efficient information management

Revolutionary new OTODiagnostics Suite combines test information for greater efficiency and safer diagnostics.

No interference from other devices

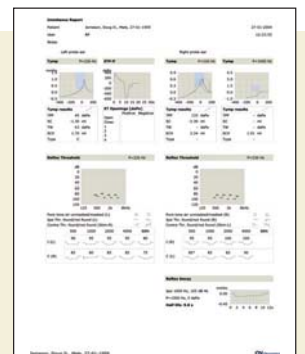
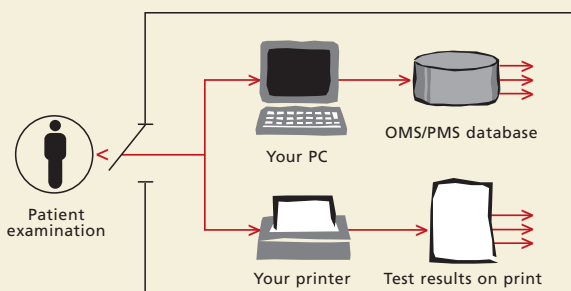
Virtual point-to-point radio connections ensure that multiple wireless devices can operate simultaneously and independently.



No more faded thermal prints or hand-written notes regarding other tests. Now you can print all test results on a single sheet of ordinary paper.

Simplified administration

Wireless linking to both your PC and printer. Standardized NOAH data formats ensure compatibility with several current patient management systems.



MADSEN OTOflex 100

Features:

	Quick-check	Diagnostic
Immittance tests		
General specifications (all tests)		
- Probe tones	226, 1000 Hz	226, 1000 Hz
Tympanometry	Auto	Auto & Manual*
- Multiple layered tympanograms	Yes	Yes
- Jerger norm & auto classification	Yes	Yes
Reflex screening	Yes	Yes
Reflex threshold	-	Yes
Reflex decay	-	Yes
ETF Test for Intact Tympanic Membrane	Yes	Yes
ETF Test for Perforated Tympanic Membrane	-	Yes
Special features		
Single page reports		
- Direct printout to Bluetooth enabled printer	Optional*	Optional*
- Printout from OTOdiagnostics Suite	Yes	Yes
- Reflex thresholds plotted in audiogram	Yes**	Yes**
Accessories		
- Desktop charger (with integrated test cavity)	Standard	Standard
- Immittance probe (cable length 40 or 180 cm)	Standard	Standard
- Eartip starter selection	Standard	Standard
- Contra EAR-3A insert phone	-	Standard
- Shoulder harness and cable clip	Optional	Standard
- Wall mount	Optional	Optional
- Screening handle	Optional	Optional
- USB Bluetooth PC adapter	Standard	Standard
- Bluetooth printer adapter	Optional	Optional
OTODiagnostics Suite	Standard	Standard
- Synchronous data display on PC	Standard	Standard
- Conduct testing from PC	Optional	Standard
- Data storage	Via NOAH 3.1 interface	Via NOAH 3.1 interface
- Conductance and susceptance	Standard	Standard

OTOflex100 complies with regulations and standards regarding safety and EMI for medical devices with Bluetooth interface.

* Planned future option

** When reported from OTOdiagnostics Suite

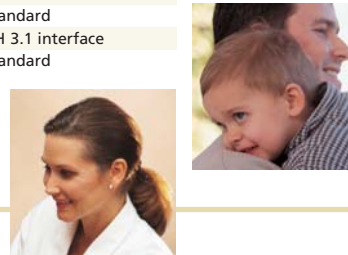
GN Otometrics is the world's leading manufacturer of hearing and balance assessment instrumentation and software. Our extensive product portfolio ranges from infant screening applications, audiologic diagnostics, and office management software, to balance testing and hearing instrument fitting.

As an organization, we are committed to developing innovative, integrated solutions that help healthcare professionals make the best possible decisions. This, in turn, helps our customers improve the overall standard of patient care wherever they are located.

Based in Copenhagen, Denmark, we maintain marketing and development centers in both the United States and Germany. GN Otometrics is part of the GN ReSound Group.

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Data management | **Hearing assessment** | Fitting & Testing | Balance assessment



Find out more about our comprehensive new solutions for balance assessment and advancing pediatric hearing at www.bsure4balance.com and www.pedihear.com.



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