## Introducing MADSEN Astera<sup>2</sup>

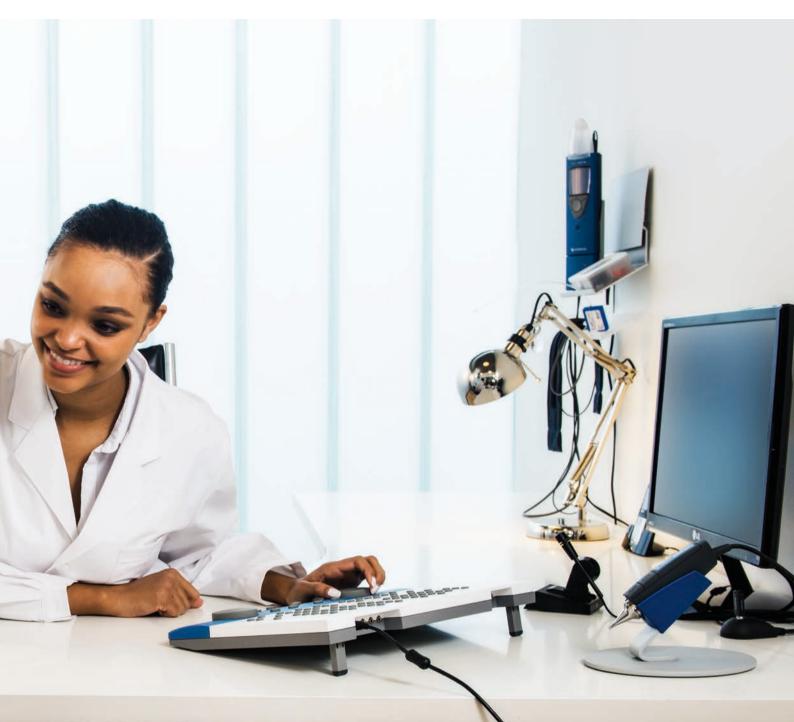


MADSEN

Excellence in audiometry









"Laura was two and a half years old when we discovered a severe hearing loss. She was isolated and had no language. We were quite worried. A comprehensive test showed that she could not hear. We were impressed with how the audiologist worked with Laura. It was amazing to experience how the tests were like playing and the equipment became invisible. The audiology sessions and a set of pink hearing aids changed Laura's life."



See the interview with Laura's father at www.otometrics.com/laura

## Introducing MADSEN Astera<sup>2</sup>

# Refined. More intuitive. New possibilities.

The goal for MADSEN® Astera² was to improve functionality in the assessment of hearing losses of all types and introduce groundbreaking new assessment tools to strengthen your professional performance as a specialist. The end result is a new and refined clinical audiometer. The control panel features an intuitive VRA interface that facilitates smooth transition within test modalities. An intuitive touch screen interface enhances this concept still further. The **Paediatric** and **Special Tests** options bring advanced audiology into the clinic to expand your assessment possibilities. In addition, a unique and innovative **Tinnitus** assessment module sets the standard for clinical tinnitus testing audiometry.







## Flexible and future-proof.

## A wise choice for the future.

MADSEN® Astera² is designed to follow your needs. It is so flexible that it can be operated both via the optional control panel, a mouse connected to a PC, or directly on a touch screen depending on your needs and clinical set-up. It enables you to perform everyday routine tasks and provides test modalities for more advanced assessment.

MADSEN Astera<sup>2</sup> is PC-based, so it gives you access to new software updates on a frequent basis meaning that your audiometer never really gets old. You are able to expand with new test modalities when needed. And you also get new features for existing test modalities.

Refined.

53 strong features. Great impact.

MADSEN Astera<sup>2</sup>

### Small footprint, huge power

1.3 kg (2.85 lb)
5 Free Field outputs
Mini XLR connectors
105 dB HL output
5 x 40 W built-in amplifier

#### Friendly and intuitive

Sunshine™ control panel
Smile™ configuration
Click'n'Get™
VRA controls
Touch screen mode
Score'n'Store™
Cycle buttons
Configurable Masking Assistant

### True counselling tools

Customisable severity scale Historic audiogram Real hearing loss and hearing aid simulators based on the NAL calculation method





#### **Unique tests**

CUNY Test
MLST-A™, MLST-C™
Dedicated tinnitus test modality
Paediatric test modality
SAL Test
Automatic SNR calculation
Premium QuickSIN™
Phonemes counting feature

#### More signals

Exclusive FRESH noise (paediatric)
Frequency Specific Warble
White Noise
Speech Weighted Noise
Narrow Band Noise
Pure Tone & Warble

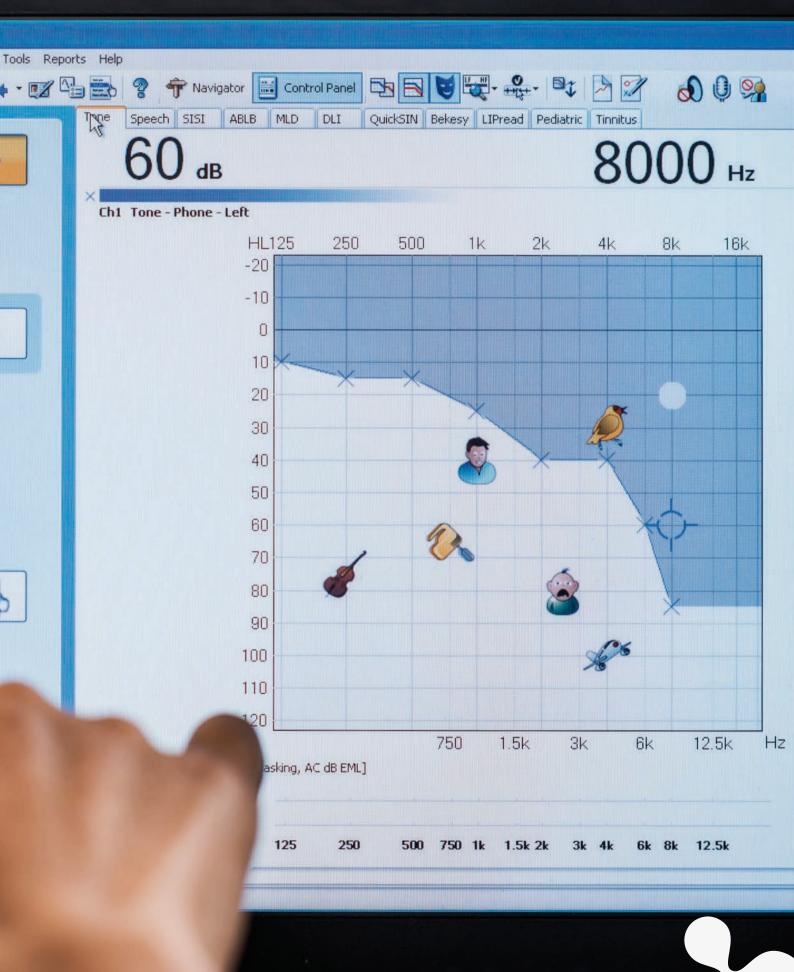


And these are just some of the improvements. Read more about MADSEN Astera<sup>2</sup> at www.otometrics.com/astera<sup>2</sup>

The Sunshine™ control panel makes advanced audiometry more intuitive.

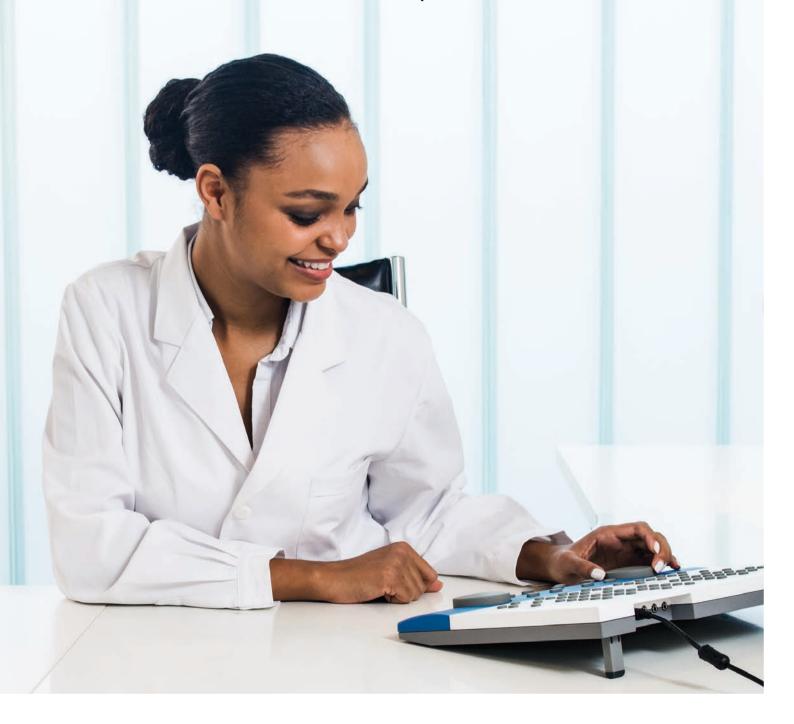
MADSEN® Astera² offers the possibility to switch from a classical view to a touch screen friendly control panel called Sunshine™. The control panel was created to make daily routine tasks even easier. It offers a visual and direct access to relevant settings through large, touch screen friendly icons illustrating transducers, tests and ears. The intelligent control panel offers the appropriate transducer for masking based on the one used for testing. Working with the Sunshine™ control panel is even more intuitive with the interface matching the needs demanded by tablet PC and touch screen users.

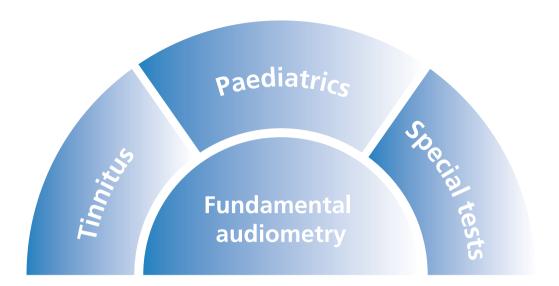




## New possibilities.

Dedicated test modalities for excellent performance.





#### **Tinnitus assessment**

MADSEN® Astera² offers a dedicated application with numerous questionnaires useful when assessing tinnitus (THI, THS, TFI, and BAHIA). These questionnaires are fully integrated offering the advantage of storing, reviewing and sharing data during the assessment and management. This dedicated application also lets you perform the most relevant psychoacoustical tests like pitch and loudness matching, minimum masking level (MML), and residual inhibition (RI). As an easy tool for the professional, the tinnitus application has been designed to offer the operator a perfect overview of the tinnitus characteristics as well as integration in OTOsuite®.

## Integrated paediatric module with VRA protocol (optional)

The paediatric test modality offers an intuitive design and a large, easy-to-view user interface. The audiometer control panel also includes dedicated buttons making it easy to focus on the child. The USB infrared transmitter connects with the video reinforcers allowing you to keep eye contact and reward the child with a single click. The test modality is also supported by paediatric features like a paediatric speech list, FRESH noise stimulation, the built-in talk to assistant and much more.

#### Special tests

MADSEN Astera² offers a large range of dedicated tests such as the TEN test and SAL test. The TEN test lets you easily mask the frequencies next to the test frequency in the test ear. That way you can avoid off-frequency-listening and get a proper estimate of the hearing threshold. You may also get indications of whether it is worthwhile to provide amplification in that frequency region. The SAL test is based on an indirect method of estimating hearing thresholds for bone conduction. Hearing thresholds for air conduction are determined first without and then with a simultaneous masking noise, presented by a bone vibrator placed in the centre of the forehead. The better the sensorineural acuity the larger the masking effect of the bone-conducted noise in that ear.



MADSEN® Astera² is far more than an audiometer. It's designed to be the core of a unique, integrated and modular clinical set-up with other Otometrics test modalities like OAE, tympanometry, video otoscopy and PMM. Each instrument offers unique benefits as a stand-alone solution. But it's when you choose to integrate multiple Otometrics instruments that the benefits really begin to multiply. OTOsuite® software connects it all allowing you to transition seamlessly from one test modality to another.

## OTOsuite. The power of integration.

Improve workflow and clinical setup with a future proof solution.

## Improving workflow

OTOsuite software is intuitive, easy to learn and easy to use. It supports the client journey as you see it, from diagnostics and counselling, to fitting and verification. Simple-to-use user test functionality ensures configurable, consistent and smooth workflows. It can be customised to suit individual needs or you can standardise protocols across larger organisations. And you work in a single software environment across modules.

The result is a better experience – for you and for your client.

## Improving clinical setup

OTOsuite software is the backbone of Otometrics hearing assessment and fitting solutions turning them into parts of a modular system. It's easy to make plans for future development of equipment in your clinic.

Simply add an additional module when needed and upgrade the OTOsuite software and you are connected. The learning curve is short and easy because the module interfaces resemble each other.

Otometrics makes it easier to learn with a combination of thorough on-site training and online tutorials.



## **Future-proof your investment**

Otometrics will continue to improve our products – and our customers will be right there with us. Products you buy today will enjoy feature upgrades when you upload the latest version of OTOsuite. OTOsuite software is PC-based, working on a well known platform.

This is a totally different strategy from products, where proprietary software and hardware are merged into one stand-alone solution, and the product hardware ages at the same speed as the software. The OTOsuite solution keeps your equipment up to date, which keeps your investment future-proof.

#### THE FACTS

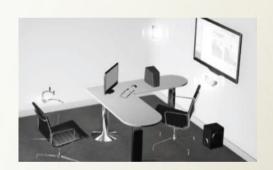
- Single point of entry to immitance, audiometry, speech mapping, hearing loss and hearing aid simulators, probe mic measurements (PMM/REM), otoscopy and OAE
- Direct access to measurement data, counselling tools and all compatible products
- More effective workflow, even through
- Short learning curve saves you time and energy
- Combined and customised reporting
- Ability to include data from non-Otometrics instruments in your report through NOAH

## Many options. One strategy.

Because hearing assessment and fitting solutions from Otometrics are modular, you can design your clinic exactly the way you need. OTOsuite® binds individual modules together in a complete workflow, and with few clicks you can move from one testing modality to the next. Rather than forcing workflows to adhere to equipment limitations, Otometrics and OTOsuite offer design flexibility to conform to your ideal workflow.



Clinical setup with operator room and sound booth. All instrumentation (audiometer, tympanometer, OAE, PMM) can be controlled in the traditional manner from the operator side. The addition of a wall-mounted touch screen, located in the sound booth, allows for a great deal of flexibility. Choose to operate the equipment or simply engage and counsel the patient via the touch screen. In addition to the computer screen located on the operator side, results can be shown on the wall-mounted touch screen inside the sound booth.



Fitting setup with surround sound. Conduct audiometry, PMM and patient counselling from your desk displaying results on a flat panel monitor located over your shoulder. Our installation teams will mount the audiometer, PMM, television and even a five-speaker surround-sound system to your satisfaction. The result is a clean, modern approach that reflects your ideal workflow.



Paediatric assessment setup with operator room and sound booth. The MADSEN® Astera² audiometer with integrated VRA protocol and in-room control panel options makes play-based audiometry better than ever. The Otometrics audiology team has even created a special paediatric module within OTOsuite to optimise testing.

Read more at www.otometrics.com/astera2



## Meet us online.

To constantly improve our products we encourage a dialog with you on Twitter and Facebook.

Many loyal MADSEN® Astera users helped us develop the MADSEN Astera² by sharing their experiences, requests and questions with us along the way. One of the questions we often heard was "How can I do paediatric assessment with MADSEN Astera?". Meet us online, find answers, ask your own questions, or share your experiences and opinions. We're always interested in helping you out and in hearing what you have to say.

- Video-learning
- ? E-learning
- Libraries of published articles

Meet these team members, and many others. We look forward to seeing you.



**Lars Henrik Jensen** Program Manager

**Johannes Lantz** Audiologist

Clément Sanchez MADSEN Astera<sup>2</sup> Product Manager and Audiologist

## What our users say.

## No doubt! PC-based audiometry is the future.

"Simply because it's easier to use and faster. I think it's the reason why many have moved from liking the oldest training audiometer to the newest. Before it was a lot of switching out CDs and recalibrating each disk before you could do the actual testing. Now we can give directions and instantly the test is ready and you can score directly on the computer."

## A better workflow for the audiologist and the patient.

"The newest and greatest thing is the PC-based audiometer. My experiences from 5-10 years ago were not so great, but the Astera is very easy and can make the appointment flow much easier for both you and for the patient. It takes some of the stress out of moving from one task to the next."

## Counselling is half the job. An intuitive screen is a great help.

"It's so nice to have the screen and be able to educate the patient that way and compare the audiograms. It has changed the way we counsel, and is a great help in making elderly people understand what happens with their hearing over time. I can simply show it to them on a big screen on the wall."



### See more at www.otometrics.com/astera2



**Sarah Tracy** 3<sup>rd</sup> year audiology student, Central Michigan University



**Nicole Hacker,** Au.D. Director of Clinical Services and Instructions, Central Michigan University



**Randa Mansour-Shousher,** Au.D. Northwest Ohio Hearing Clinic

### **About Otometrics**

Otometrics is the audiology industry leader providing instrumentation and software solutions to hearing and balance care professionals worldwide. For more than 50 years, Otometrics has been helping hearing and balance care professionals succeed in improving the quality of life for their clients and patients around the world by delivering expert knowledge, reliable solutions and trusted partnership.

Otometrics develops, manufactures and markets computer-based audiological, otoneurologic and vestibular instrumentation in more than 85 countries under the MADSEN®, AURICAL®, HORTMANN® and ICS® brand names. Otometrics is part of the GN Group, one of the largest companies in Denmark. For more information, please visit www.otometrics.com.

