

MADSEN Astera<sup>2</sup>



The integrated paediatric  
module with VRA protocol



otometrics

# Expand your possibilities with the



The paediatric test modality is an optional application in MADSEN Astera<sup>2</sup>. A simple software upgrade expands your possibilities for assessing and diagnosing hearing loss of young children.

The MADSEN Astera<sup>2</sup> paediatric test modality is tailor made on the specific needs and challenges of testing children from 6 months to 6 years. It takes the most useful features already introduced in the first generation of MADSEN Astera and adds the specific requirements that have been expressed by paediatric professionals over the world.

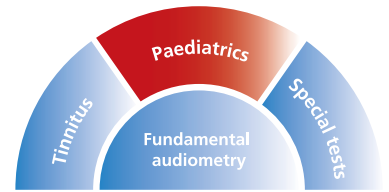
## THE FACTS

- Integrated VRA control
- Integrated assistant communication
- Two-channel storing
- Special audiometer control panel function buttons
- FRESH (FREquency Specific Hearing noise) stimulus
- Frequency specific warble
- Silent mode
- Storing of audiometry method (Play, VRA, and BOA etc.)
- Counselling overlays
- Paediatric report
- SDT speech awareness testing
- Tracking of responses (✓, ?, ÷)



See the video about MADSEN Astera<sup>2</sup>  
on [www.otometrics.com/astera2](http://www.otometrics.com/astera2)

# paediatric test modality.



## Fits your needs

The solution is a dedicated test modality inside OTOsuite with an intuitive design supported by an extra large and easy-to-view control panel. It also includes a USB infrared transmitter to connect with video reinforcers which can be controlled by dedicated button functionalities on the new MADSEN Astera<sup>2</sup> audiometer control panel.

This solution fits perfectly the different operator's setups and will allow the professional to use different ways to control the stimulation as well as the visual reinforcers. This test modality is also supported by paediatric features like the paediatric speech list, the FRESH noise stimulation, the built-in talk to assistant and much more.

## Intuitive control panel

The control panel is clearly divided in two sections, so you easily can set up the test and perform it. You have two separate control panels in the same view (one of each

side of the screen). Both tone and speech awareness testing can be performed in the same view. The audiogram graph is tailored for paediatrics by reducing the frequency and level ranges to what is used for this population.

## Keep the child's attention

With a single dedicated test modality designed especially for hearing assessment of children, the clinician can work with the right tools, in the right position to conduct the test and maintain maximum of attention on the patient behavior. It also offers the operator a setup which fits the environment instead of adjusting the environment to the new tool, meaning there is no need for parallel routing systems or paper next to the audiometer to note the uncertainty of the response.

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## Facts about paediatrics

The goal of a paediatric hearing test is to obtain information regarding hearing levels from children who are unable to respond in the same manner that older children and adults respond. This is done in one of two ways depending on the age of the child. For infants and young toddlers, aged 5 months to about 2.5 years of age, Visual Reinforcement Audiometry (VRA) is used. Children aged 2.5 to 4 years are tested using Conditioned Play Audiometry. During VRA testing the child is seated on the parent's lap, in a high chair or seated alone. The child must be able to sit upright and turn their head from side to side. A test assistant is seated facing the child to keep their attention forward between auditory stimuli. VRA uses lighted and/or animated toys that are flashed on simultaneously with the presentation of an auditory signal (warble tones, narrow band noise or speech) during a conditioning period. The use of video is getting popular.

