

Science **made** smarter

# Sera™

Newborn  
hearing  
screening  
**made**  
efficient

The perfect choice  
for any newborn  
hearing screening  
program



  
**Interacoustics**

Audiometry


Tympanometry

ABR  


OAE  


Hearing Aid Fitting

Balance



The Sera™ OAE & automated ABR screener is based on many years of clinical experience

# Sera™

## A powerful combination

Fast and efficient  
DPOAE, TEOAE  
and automated  
ABR

**Early identification of hearing loss is vital to ensure normal development of a child's speech, language and social competencies.**

**Efficient newborn hearing screening**  
With a powerful combination of DPOAE, TEOAE and automated ABR, Sera™ offers the opportunity to easily and quickly detect a potential hearing loss in newborns, making it the perfect choice for any hearing screening program.

**It has never been easier to get started**  
The Sera™ menu and interface are designed for quick and efficient testing. All main assessment functions are accessible from the touch-enabled 'home' screen. You are ready to begin testing after just three button presses and it has never been easier or faster to enter new patient information. Once you have chosen or entered your patient on the device, preparation instructions are displayed for all test types. This ensures consistent and accurate preparation of your patient – every time.

**Complete your test in no time**  
Following the simple on-screen instructions, you can complete your

automated ABR in less than 30 seconds\*. OAE screening can also be completed in just seconds, leaving you more time for patient care. Test results are easy to interpret with a clear pass or refer indication.

**Designed for use**  
Sera™ fits comfortably into your hand and with its bumper case and overlay screen, it is well protected from knocks and bumps during every day use. The resistive touchscreen allows you to easily perform tests and enter patient information even when wearing gloves.

**Wireless charging and printing**  
Sera™ comes with a wireless charging cradle ensuring that it is always ready for testing when you are. You can even print results for later review without being plugged in.

**Transfer of data**  
Sera™ comes with its own software module, HearSIM™, for managing patient data and device settings. HearSIM™ is intuitive to use and data is easily transferred from Sera™. While patient data is managed via HearSIM™ the data is stored in the OtoAccess® database.



\* Almeida, M.G., Sena-Yoshinaga, T.A., Côrtes-Andrade, I.F., Sousa, M.N.C., & Lewis, D.R. (2014). Automated auditory brainstem responses with CE-Chirp® at different intensity levels. *Audiol Commun Res*, 19(2), 117-123.

# Sera™

## automated ABR screening

Sera™ helps  
reduce test time  
with binaural  
testing and  
its intuitive  
workflow

**The Sera™ with ABRIS (automated ABR) provides a reliable and easy to interpret pass or refer result - important in any newborn hearing screening program.**

#### **Based on knowledge**

The Sera™ automated ABR solution builds on extensive clinical research and our many years of experience in ABR testing.

#### **Unique CE-Chirp® stimulus**

The trusted and proven CE-Chirp® stimulus significantly reduces your testing time to typically less than 30 seconds\* and gives you more freedom to focus on your patient.

#### **Simultaneously test both ears**

By using either insert phones or EarCups you can test both ears simultaneously and reduce your test time.



**The intuitive workflow and the large touchscreen make Sera™ fast and easy to operate when testing newborns, even with minimal training.**

#### **Reliable automated ABR**

The Sera™ default automated ABR protocol provides a reliable result with an algorithmic sensitivity of more than 99.9%.

#### **Optimized for noisy environments**

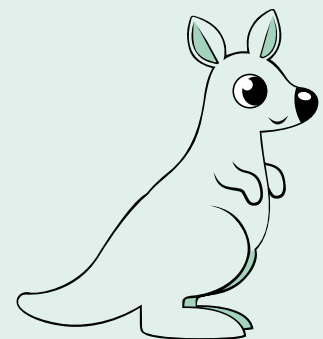
The Sera™ automated ABR algorithm uses weighted averaging technology to combat against noise in the recording. Using the EarCups with Sera™ also helps to reduce noise in challenging testing conditions.

The unique Sera™ pre-amplifier ensures optimum performance in electrically hostile environments.



#### **CE-Chirp®**

**Stimulus compensates for cochlear travel time. The result is a response amplitude up to twice the size compared to a standard click.**



\* Almeida, M.G., Sena-Yoshinaga, T.A., Côrtes-Andrade, I.F., Sousa, M.N.C., & Lewis, D.R. (2014). Automated auditory brainstem responses with CE-Chirp® at different intensity levels. *Audiol Commun Res*, 19(2), 117-123.

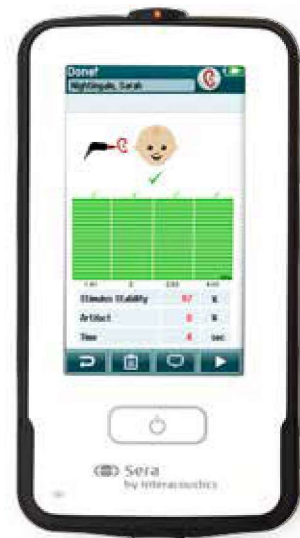
Sera™ ABRIS  
- Automated ABR  
in typically  
less than  
30 seconds\*





# Sera™

## OAE screening in seconds



Sera™ offers fast DPOAE and TEOAE screening of newborn babies in an easy to use, handheld device. Place the probe in the baby's ear and a few seconds later clear test results will be displayed.

**Designed with care for small ears**  
Both the SnapPROBE™ for Sera™ as well as the eartips are specifically designed to fit into an infant's ears. Stability of the probe in the ear during measurement is improved, and the filters that protect the transducer against debris are very easy to replace.

**Less noise ensures reliable results**  
A group of dedicated engineers at Interacoustics have perfected the OAE detection algorithms, offering unprecedented reliability in their resistance to noise and other artifacts.

Together with its sleek design and special on-screen user guidance, Sera™ makes sure that you always obtain a proper probe seal.



## Feedback

Probe fitting feedback for a proper seal

## Probe

SnapPROBE™ designed specifically for infant ears

## Noise monitor

Noise monitoring during testing

## Intelligence

Intelligent detection algorithm for a PASS or REFER result

**Advanced in ear detection ensures a reliable OAE result every time!**



# Science made smarter

## Interacoustics is more than state-of-the-art solutions

Our mission is clear. We want to lead the way in audiology and balance by translating complexity into clarity:

- Challenges made into clear solutions
- Knowledge made practical
- Invisible medical conditions made tangible and treatable

Our advanced technology and sophisticated solutions ease the lives of healthcare professionals.

We will continue to set the standard for an entire industry. Not for the sake of science. But for the sake of enabling professionals to provide excellent treatment for their millions of patients across the globe.

[Interacoustics.com](http://Interacoustics.com)

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Go online to  
explore our  
full product  
range

## Related products



### Eclipse

One platform for AEP, ASSR,  
VEMP and OAE.



### Titan

Tympanometry, OAE,  
ABRIS and WBT



### OtoRead

Handheld DPOAE & TEOAE

## Product specifications

All technical and hardware specifications concerning all products can be downloaded from our [website](http://website).



**Interacoustics**

Audiometry

Tympanometry

ABR  
~~~~~

OAE  
~~~~~

Hearing Aid Fitting

Balance