



**ECHODIA®**

*Nano Signal Technologies*

# ENT --- **SOLUTION**



# Hearing Assessment

## ELIOS

### BUILD IT AS YOU WISH IT

Elios is a hearing assessment device that can include **up to 11 measurements configurations**. You can build your device by choosing the appropriate measurements for your activity. The device can be **upgraded** at any time with new measurements purchased later.

### HYBRID: STAND-ALONE AND COMPUTER-BASED

Two modes of operation are available.

**Perform tests directly on the device**



**Connect the device to your computer**

Via the supplied USB cable you can control the Echodia devices from your PC or MAC with the free Echosoft software.



### OTOACOUSTIC EMISSIONS MEASUREMENTS

**TEOAE: clinical and screening**  
Transient Evoked Otoacoustic Emissions

**Dpgram / DPOAE: clinical and screening**  
Distortion Products analogy to the audiogram

**Shift-OAE - HYDROPS**  
Acoustic Distortion Products

PATENT PENDING



### EVOKED POTENTIALS MEASUREMENTS

**ABR: clinical and screening**  
Auditory Brainstem Response, PREMA AABR included

**ASSR NEW**  
Auditory Steady-State Response (computer-based only)

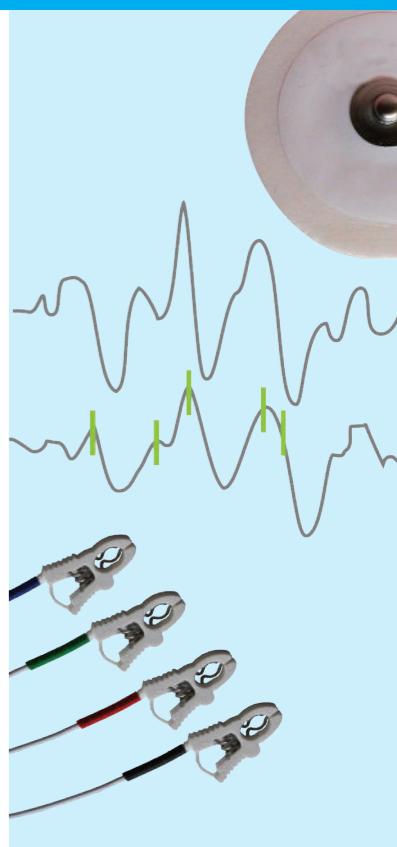
**e-ABR**  
Electrical ABR (unique feature on the market)

**oVEMP / cVEMP**  
Myogenic Vestibular Evoked Potentials

**DPMC - HYDROPS**  
Cochlear Microphonic Potential Phase Shift

PATENT PENDING

**ECochG - HYDROPS**  
Electrocochleography  
noninvasive technique with a gold coated electrode

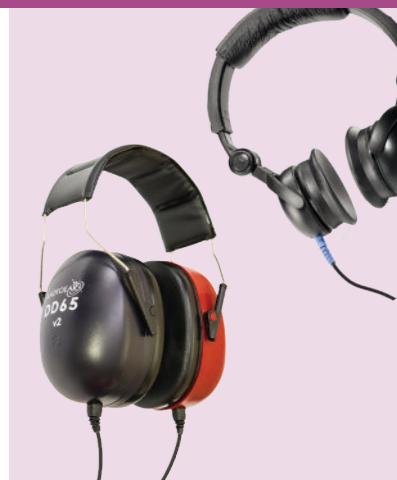


### AUDIOMETRY MEASUREMENTS

**Air conduction**  
125 to 8 000Hz, -10 to 100dB HL, manual or automatic mode  
High frequency option: up to 16 000Hz

**Bone conduction**  
250 to 8 000Hz, -10 to 70dB HL, manual or automatic mode

**Speech**  
Lists loaded on the device, manual or automatic mode



INNOVATIVE

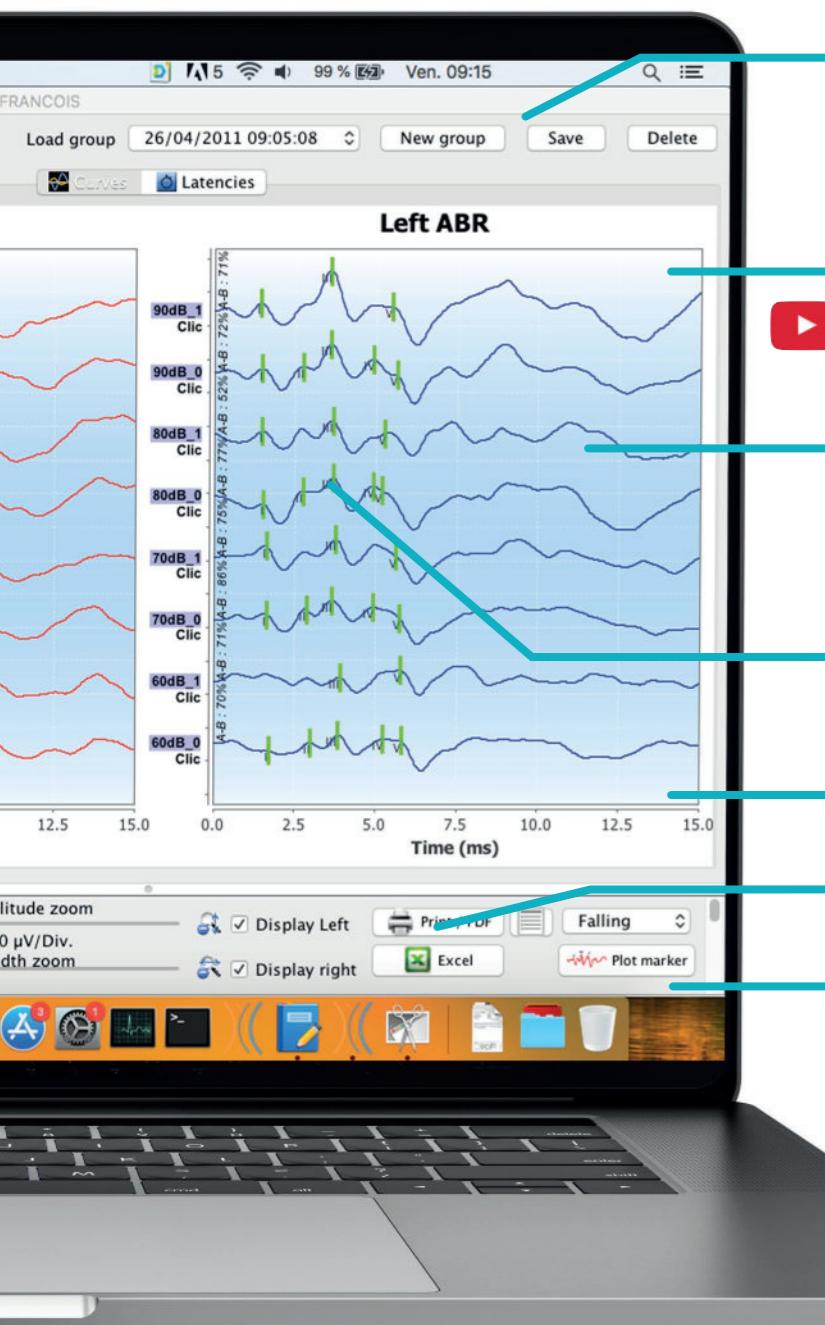
ALL IN ONE

INTUITIVE

TOUCH SCREEN

COMPUTER BASED

ACCURATE



**Free** software stored on a USB key  
Free download of updates via internet (novelties, improvements...)  
For PC and MAC

**Video tutorials** available on the ECHODIA Youtube channel to help you install the software and perform the measurements

**Perform** your measurements on the device or on the Echosoft via USB connection  
**Transfer** your data from the device to the computer and consult your measurements

Access **advanced settings**  
**Analyse** data thanks to the automatic help

**Manage** your patient database

**Print** your results or export them in PDF format

**Very intuitive** for screening, clinical or research use

## Newborn Screening



### BABYSCREEN

Device dedicated to the healthcare professionals who want to make objective hearing screenings, whether it is on newborns, young children or even adults.

It allows to realize **fast and automated** measures of DPOAE, TEOAE and ABR. The launch of the measurement as well as the reading of the result, in the form of «pass», «refer» are simplified so that a non-qualified staff in otologie can realize and exploit the measures after a short training.

#### OTOACOUSTIC EMISSIONS MEASUREMENT

##### DPOAE and TEOAE auto

Quick screening of endocochlear hearing loss

#### EVOKED POTENTIALS MEASUREMENT

##### ABR auto (chirps and clicks)

Quick screening of retrocochlear hearing loss, connection of 3 or 4 electrodes



The measurements are performed in ambulatory mode with the possibility of consulting them and managing the database on the Echosoft.

Thanks to the optimum size of the case, it can be **easily** integrated into maternity hospitals' workflow.

Its lithium battery ensures 5 hours of use from each charge. Moreover, its mini SD card allows to store more than 2000 tests.

The research department of ECHODIA has taken into account the needs of **neonatology** teams by creating a unique approach of integration of the weeks of gestation : PREMA AABR.

|                    | Perform your measurement on the Echosoft software | Manage your patient database, consult and print result |
|--------------------|---|--|
| <b>ELIOS</b>       | ✓   | ✓  |
| <b>BABYSCREEN</b>  | ✗   | ✓  |
| <b>AUDIOSCHOOL</b> | ✓   | ✓  |
| <b>AUDIOSMART</b>  | ✓   | ✓  |
| <b>ECHOSCAN</b>    | ✓   | ✓  |
| <b>OTOWIN</b>      | On the OTOWIN dedicated software                  | On the OTOWIN dedicated software                       |

# Audiometry

## Air / Bone conduction / Speech

### SCREENING RANGE

#### AUDIOSCHOOL



### DIAGNOSTIC RANGE

#### AUDIOSMART



Portable **touch-screen** audiometer  
Handheld or PC-based mode with the Echosoft  
Options available (headset, insert...)

**Air conduction**  
125 to 8 000Hz, -10 to 100dB HL  
manual or automatic mode  
High frequency option: up to 16 000Hz

**Bone conduction**  
250 to 8 000Hz, -10 to 70dB HL  
manual or automatic mode

**Speech**  
Lists loaded on the device  
manual or automatic mode



# Health at work

## Audiometry / Prevention of risks



#### OTOWIN

Portable **touch-screen** audiometer  
High Isolation headset  
Handheld or PC-based mode with the Otowin software  
Interface with medical softwares (GTD...)

**Air conduction**  
125 to 8 000Hz, -10 to 100dB HL, manual or automatic mode

**Bone conduction**  
250 to 8 000Hz, -10 to 70dB HL, manual or automatic mode



#### AUDIOBLUE



**Wireless** audiometer  
High Isolation headset  
**Bluetooth** technology

**Air conduction**  
125 to 8 000Hz, -10 to 100dB HL  
manual or automatic mode





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