ECHODIA®




# Audiology solution




# Technical Specifications

**Dimensions:** 9 × 11 × 3,6 cm

**Weight:** 239 g

**Battery life:** 4–5 hours
(rechargeable lithium-ion battery)

**Screen:** Color touchscreen

**Connectivity:** USB (Windows/Mac)

**ECHOSOFT software compatibility:**
Doctolib, ValSolution, Innoforce, GDT, etc.

**Data storage:**
- 2,000 measurements per device
- Unlimited on computer**

**Standards:** CE marking (Class IIa), GDPR compliance

***Depending on the storage capacity of the computer used*



# Audiometry

## Pure tone audiometry:

- AC intensity: -10 to 110 dB HL
- BC intensity: -10 to 80 dB HL
- Available intensity step: 5 dB
- Stimulus type: Pulsed stimulus
- Acoustic stimulation: 125 Hz to 8 kHz
  --> up to 16 kHz with HF module
- Narrowband masking noise: 1/3 octave
- Manual or automatic mode
- Visualization of age-related normal ranges

## Speech audiometry:

- Sound intensity: -10 to 110 dB HL
- Automatic list selection
- Customizable word list

## Estimated durations**

| | |
|---|---|
| Pure-tone AC: | 5-15 min |
| Pure-tone BC: | 5-15 min |
| Speech: | 5-15 min |



## Otoacoustic emissions

### TEOAE:

- Up to 80 clicks per second
- Sound intensity: 40 to 95 dB SPL
- Stimulus type: Alternating clicks in sets of 4

### DPOAE:

- Acoustic stimulation: 1 kHz to 5 kHz
- Sound intensity: 50 to 75 dB SPL
- Stimulus type: Bitonal stimulation

### Estimated durations*

| | |
|---|---|
| TEOAE | 5 min |
| DPOAE | 5 min |

## Evoked Potentials

### ABR:
- Up to 50 stimuli per second
- Stimulus type: Clicks, bursts, chirps
- Impedance test
- Measurement window: ≈ 40 ms
- Sound intensity: 0 to 110 dB HL
- Contralateral masking
- Assisted placement of waves I through V

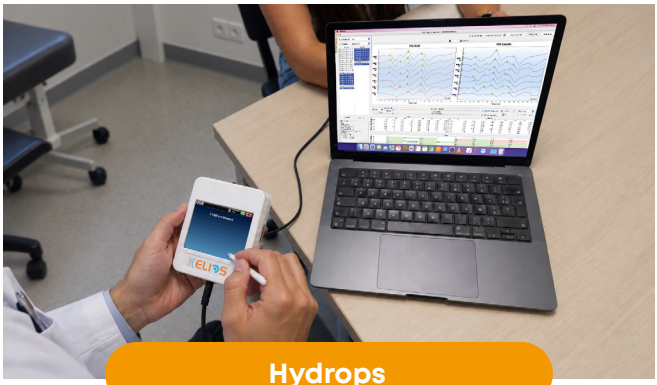
### VEMP:
- Alternating, positive, or negative stimuli
- Stimulus type: Clicks, bursts
- Impedance test
- Measurement window: ≈ 60 ms
- Sound intensity: 0 to 110 dB HL
- Contraction monitoring (cVEMP)
- EMG correction (cVEMP)
- EMG threshold post-processing (cVEMP)

### ASSR:
- AM2 stimulation
- Frequencies at 500 Hz, 1,000 Hz, 2,000 Hz, 4,000 Hz
- Modulated at 40 Hz or 80 Hz
- Impedance test
- Sound intensity: 10 to 90 dB HL

### ECochG:
- Up to 50 clicks per second
- Stimulus type: Clicks, bursts
- Impedance test
- Measurement window: ≈ 40 ms
- Sound intensity: 0 to 110 dB HL
- Contralateral masking
- Ipsilateral masking
- SP/AP ratio (amplitude and area)

### Estimated durations**

| | |
|---|---|
| ABR threshold | 15 - 30 min |
| ABR latency | 10- 15 min |
| Automated ABR (aABR) | 5 min |
| ASSR | 30 min |
| ECochG | 15 min |
| cVEMP | 5-10 min |
| oVEMP | 5-10 min |



Hydrops

### Shift-OAE:

- Acoustic stimulation: 1 kHz to 3 kHz
- Sound intensity: 50 to 75 dB SPL
- Automatic phase shift calculation

### DPMC:

- Acoustic stimulation: 900 Hz to 1 100 Hz
- Impedance test
- Sound intensity: 50 to 90 dB SPL
- Automatic phase shift calculation

### Estimated durations**

| | |
|---|---|
| Shift-OAE | 8 min |
| DPMC | 10 min |
| ECochG | 20 min |

**The durations provided are approximate and may vary depending on the examination conditions and the type of pathology. Patient preparation time and bilateral measurements are not included.*

# Included
## with your order

ELIOS
DEVICE






ECHOSOFT
SOFTWARE



ACCESSORIES

YOUR COMPLETE SOLUTION

## OUR KEY STRENGTHS

1. Compatible with softwares used in practice, including Doctolib
2. Operating modes: standalone or computer-connected
3. Exclusive measurements to support the diagnosis of cochlear hydrops
4. Customizable measurement protocols

CE 0459

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