ECHODIA®

Nano Signal Technologies

OtoPhyLab

EQUIPMENT FOR LABORATORIES' INNER EAR STUDIES

ABR - DP-gram

HIGH FREQUENCIES

From 1KHz to 32KHz

ECHODIA®
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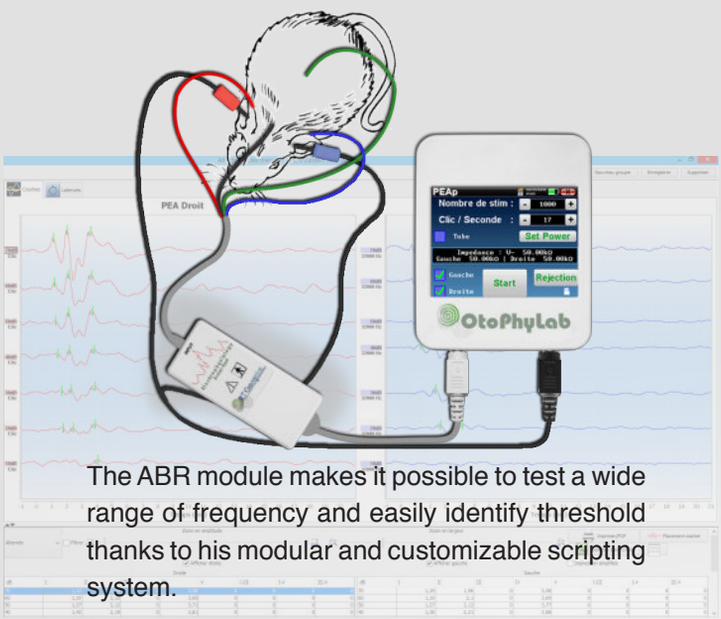
RESEARCH EQUIPMENT FOR LABORATORIES' INNER EAR STUDIES

ABR - DP-GRAM

The OtoPhyLab device is exclusively dedicated to research laboratories performing measurements on the animal inner ear.
It comprises two measurements: ABR for electrophysiological measurement and DP-gram for acoustic distortion products measurement. With its reliability and quickness of execution, the OtoPhyLab device will allow you to measure the cochlea integrity.

ABR

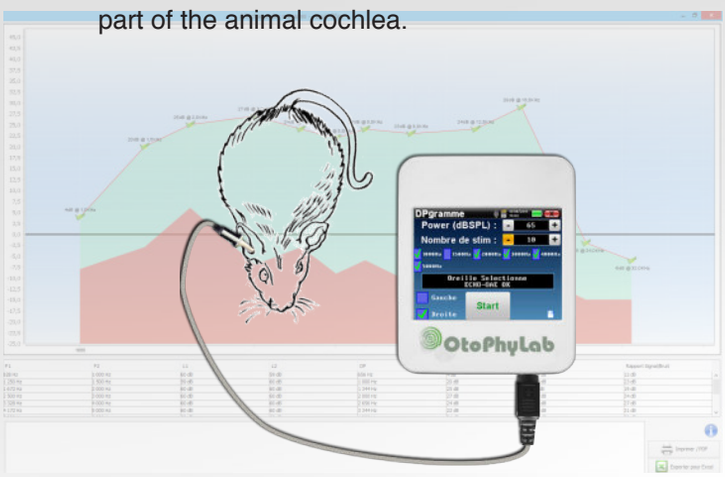


The ABR module makes it possible to test a wide range of frequency and easily identify threshold thanks to his modular and customizable scripting system.

Available frequency															
125 Hz	250 Hz	500 Hz	750 Hz	1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	6000 Hz	8000 Hz	10000 Hz	12000 Hz	16000 Hz	24000 Hz	32000 Hz

DP-GRAM

The DP-gram makes it possible to assess the damage to outer hair cells.
The OtoPhyLab device integrates high frequencies ranges in order to scan the major part of the animal cochlea.



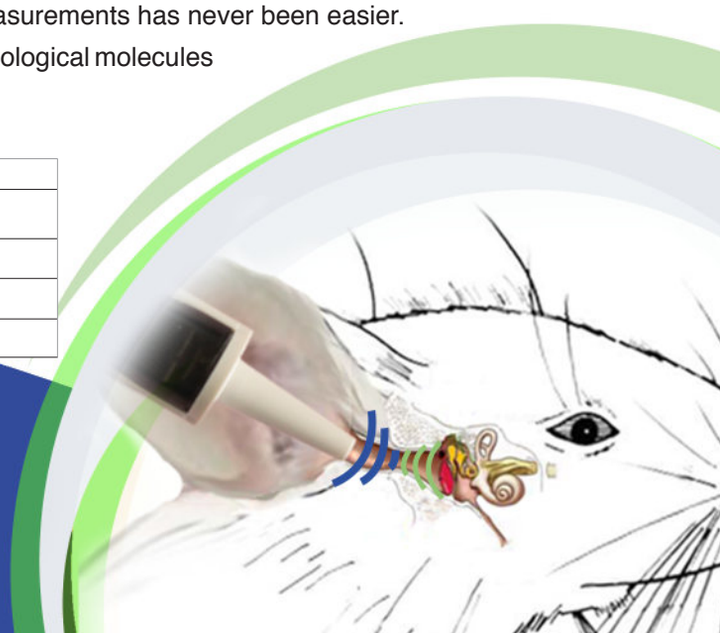
Available frequency										
1000 Hz	1500 Hz	2000 Hz	3000 Hz	4000 Hz	5000 Hz	6000 Hz	8000 Hz	12000 Hz	16000 Hz	24000 Hz	32000 Hz

Computer-based : connected to your computer with a USB connection, you can drive the OtoPhyLab device from your PC or Mac computer through the free RT-Lab software provided. The program also allows you to manage your animal's database as well as export and print results.

Easy to use : device and software were designed with the end user in mind. Thanks to its reduced size and its intuitive menus, realizing measurements has never been easier.

Intend to : study of hearing loss, impact of pharmacological molecules on hearing, impact of sound exposure ...

TYPE OF TEST	ABR	DP-gram
ACOUSTIC STIMULATION	Clicks: alternating, up to 50 clicks/sec Toneburst: 250 Hz to 32 kHz	1 kHz to 32 kHz
SOUND INTENSITY	-10 to 95 dB HL	-10 to 75 dB SPL
DIGITAL RESOLUTION	16 bits @ 32 kHz	16 bits @ 96 kHz
CONTROL MEASURES	Impedance test	Automated calibration



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