NEURO-AUDIO-SCREEN

Portable Hearing Screening System for Newborns and Infants





HEARING DIAGNOSTICS

- three-in-one: TEOAE, DPOAE and ABR
- user-friendly interface with touchscreen
- hearing screening in noisy environment
- ABR curve with wave V marker
- results printed on portable printer





LARGE COLOR DISPLAY

shows the exam procedure and exam results in both text and graphic form. If you doubt about the text result, you can study graphs, traces and spectrum and make your own decision.

HIGH-POWER LI-ION BATTERY WITHOUT MEMORY EFFECT

operates the whole day without recharge. The device also can operate being connected constantly to the power supply unit.

HIGH-CAPACITY MEMORY

allows storing a large amount of exams in a device memory. You can examine up to several hundred patients and then print results or export them to computer database via Bluetooth.

SMALL DIMENSIONS AND LIGHT WEIGHT

make the device portable. You can place it in your pocket and move along the hospital with it.

NEURO-AUDIO-SCREEN ADVANTAGES



CUSTOMIZABLE SETTINGS

You can adjust test settings using only one button. For example, you can use different modes of OAE test: "Screening", "Noisy (screening)", etc. It allows customizing settings quickly in order to perform any hearing exam starting from screening in a noisy room and up to expert study in a specialized hospital.



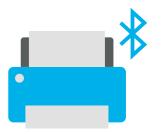
COMPATIBILITY OF DATA FORMAT WITH NEURO-AUDIO DIAGNOSTIC OAE AND EP SYSTEM

provides continuity of diagnostic information obtained during hearing screening and during specialized diagnostic study.



VIDEO GUIDE

Detailed video guide supplied with device demonstrates Neuro-Audio-Screen tests and trains to work with the program. It allows all users even without special training to master the device functions quickly.



WIRELESS BLUETOOTH INTERFACE

allows printing exam results on wireless printer and exporting data saved in the device memory to the external computer with installed Neuro-Audio-Screen Manager software. The program is supplied free with the device.

DEVICE USABILITY

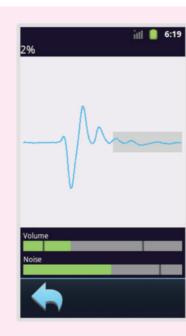
The large color display allows showing the data and controlling the device functions.

The menu with the list of available tests is displayed on the screen after device switching on. You should insert OAE probe into a patient's ear properly and start the test by touching the button. The program informs you if the OAE probe is inserted incorrectly. The test is performed in automatic mode. As soon as the test is completed, the program shows "PASS" or "REFER" result. It is quite simple!









STEP 3
Automatic check of OAE probe fitting



STEP 4Recording and review of obtained results

LIST OF TESTS

TEOAE

Advanced algorithm of artifact rejection improves the instrument ability to perform test in difficult-to-test conditions. If you found that conditions change during testing you can easily restart test just by taping one button. Along with PASS/REFER result, you get more information for diagnostic purpose: response waveform, spectrum, graphic presentation of SNR in different bands, etc.

DPOAE

This test allows obtaining results in noisy conditions. You can perform not only screening but also diagnostics with up to 12 frequencies. Response spectrum, residual noise and estimated DP level for each frequency is available for evaluation. The high frequency DP (up to 12 kHz) can be useful for evaluation of patients in process of ototoxicity treatment.

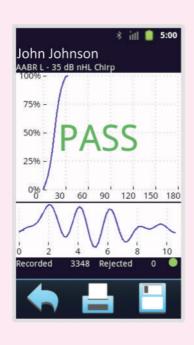
AABR

If you use only OAE test for screening, some impaired patients (for example, with auditory neuropathy spectrum disorder) will be missed. That's why automated ABR screening is required in some cases (for example, in neonatal intensive care unit). High stimulus repetition rate and run-time compensated Chirp stimuli guarantee fast response detection time. Advanced algorithm of response analysis in frequency domain allows detecting automatically the response in difficult conditions with high electromagnetic interference. The device has switchable input. It will automatically switch to the correct position if mastoid montage is used. So you don't care on repositioning of electrodes during testing.

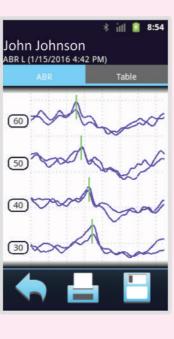
ABR

If you get REFER result during screening test, you need to make ABR test to specify the diagnosis. You can do it with the same instrument. You can record ABR curves with several stimulus levels per test sequence, set wave V marker to measure latencies, generate intensity-latency table. Multi-touch feature of the screen allows zooming curves easily when finding ABR waves. Optional headphones can be used to stimulate with high stimulus levels.





AABR test



ABR test

NEURO-AUDIO-SCREEN MANAGER

Neuro-Audio-Screen Manager software allows managing the process of hearing screening study with Neuro-Audio-Screen device.

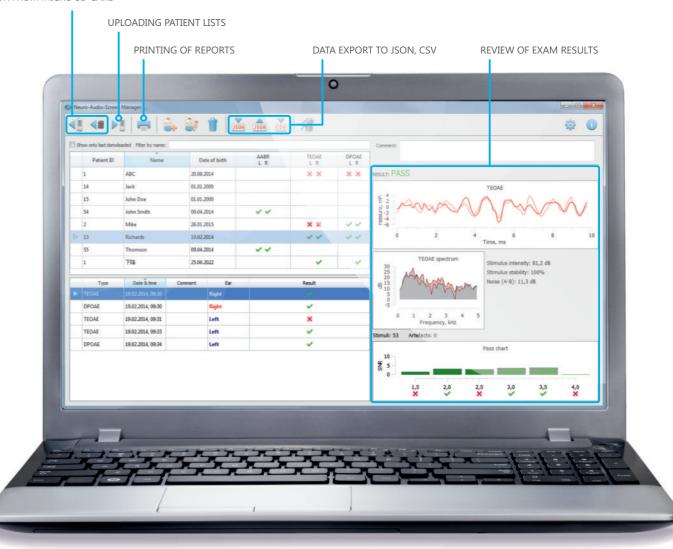
The program maintains a single database for all hearing screening tests:

- all patients and exams are in one database
- flexible search options
- automatic data backup
- trashcan for secure removal of patients and exams

Neuro-Audio-Screen Manager software is available on the following platforms:



DATA DOWNLOADING VIA BLUETOOTH OR FROM MICRO SD CARD



CONFIGURATIONS

The device is supplied in one of two configurations:

- Neuro-Audio-Screen with all above-mentioned tests
- Neuro-Audio-Screen/OAE with TEOAE and DPOAE tests only

The second configuration variant can be easily upgraded to full-featured one.

NEUROSOFT AUDIOLOGY PRODUCT LINE

Audio-SMART Neuro-Audio Neuro-Audio-Screen aScreen Clinical ABR&OAE **APPLICATION** Diagnostic/screening Diagnostic/screening OAE screening analyzer ABR&OAE and middle ABR&OAE analyzer ear analyzer **TESTS** TEOAE, DPOAE ABR, MLR, LLR, Tympanometry, AR, TEOAE, DPOAE, ECochG, VEMP, ASSR, AR decay, ETF, TEOAE, AABR, ABR P300, MMN, PTA, DPOAE, ABR TEOAE, DPOAE, SOAE **HARDWARE** PC-based Portable Portable Portable standalone standalone smartphone-based



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