

Neuro-Audio

Digital System for ABR and OAE

Intended for Objective Audiometry of Newborns, Children and Adults



With new software on .NET platform

- Auditory brainstem response (ABR)/Brainstem evoked response audiometry (BERA)
- Transient evoked otoacoustic emission (TEOAE)
- Distortion product otoacoustic emission (DPOAE)
- Middle- and long-latency auditory evoked potentials (AEP: MLR, LLR)
- Vestibular evoked myogenic potentials (VEMP)
- Auditory steady-state response (ASSR)
- Electrocochleography (ECochG)
- Cognitive evoked potentials (MMN, P300)

Applications

- Newborn hearing screening
- Hearing monitoring of children at risk for hearing loss
- Hearing monitoring of children suffering from otitis or middle ear inflammation
- Detailed hearing study of individuals of any age



Medical Diagnostic Equipment Development and Manufacture

What's New?

Convenient Interface

In the new **Neuro-Audio.NET** software more convenient interface for audiologists is used which provides separate windows for right and left ears where the curves are marked by standard colors (red one is for right ear and blue one is for left ear). The software specifies ipsi- and contra-lateral curves in multi-channel recording.

New Techniques

- auditory steady-state response (ASSR)
- vestibular evoked myogenic potentials (VEMP)
- electrocochleography (ECoChG)

Software Additional Features

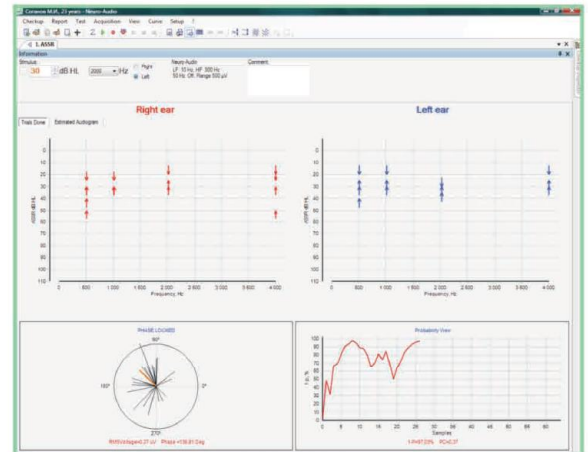
- automatic detection of objective auditory threshold for ABR test
- automatic markers arrangement
- calculation of Fsp, SNR, RNL additional parameters
- presentation of stimulus amplitude units in different scales: dB SPL, dB nHL and dB HL
- possibility of stimulus envelope specification of different forms including rectangular, Blackman, Hamming, Hann, Bartlett windows
- customizable test scripts

Nothing Extra

Neuro-Audio consists of one unit, which can be connected to PC using single USB plug. All the stimulators and electrodes are connected directly to the unit. It is very convenient for a doctor performing the checkup as it saves the space and besides, decreases the device cost.

Auditory Stimulators

Neuro-Audio delivery set includes TDH-39 headphones. This is the most popular headphones model in the world for auditory evoked potentials study. Ear Tone 3A insert earphones can be supplied optionally.



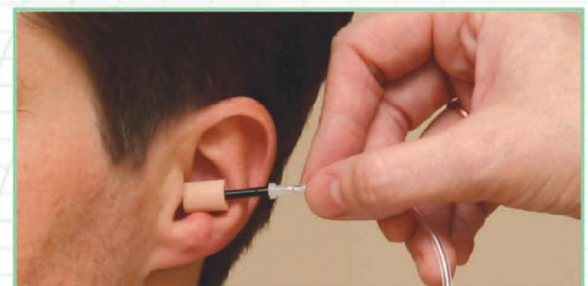
ASSR



TDH-39 headphones

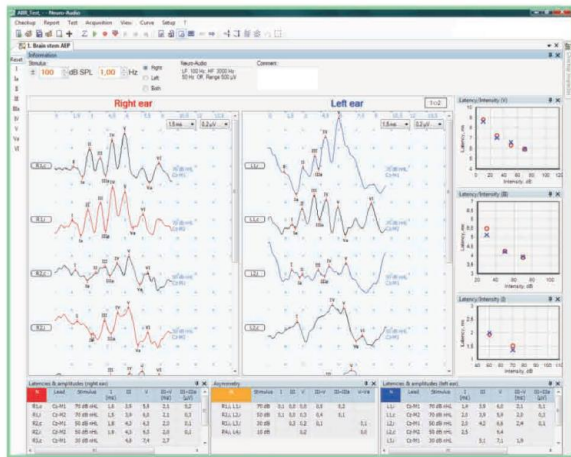


OAE probe

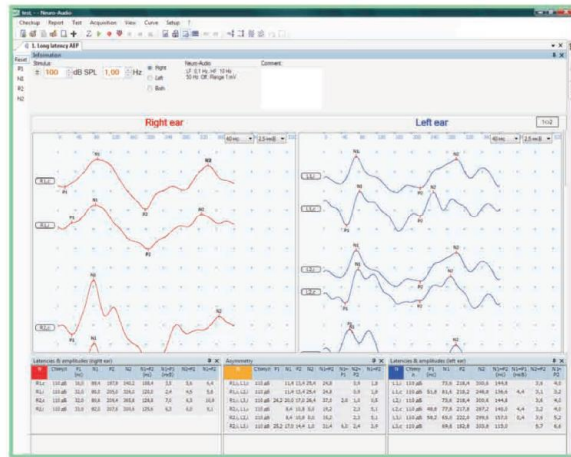


Ear Tone 3A insert earphones

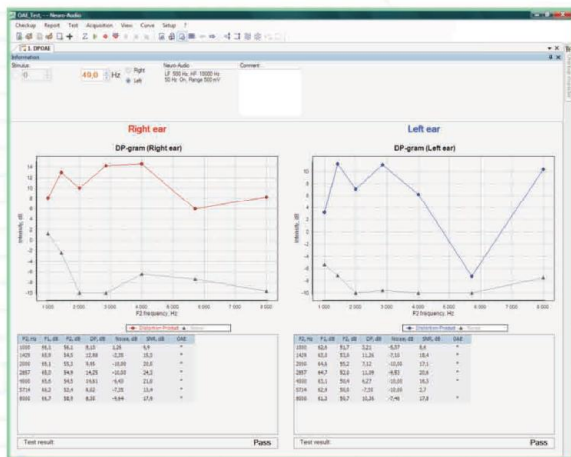
Neuro-Audio.NET Software Features



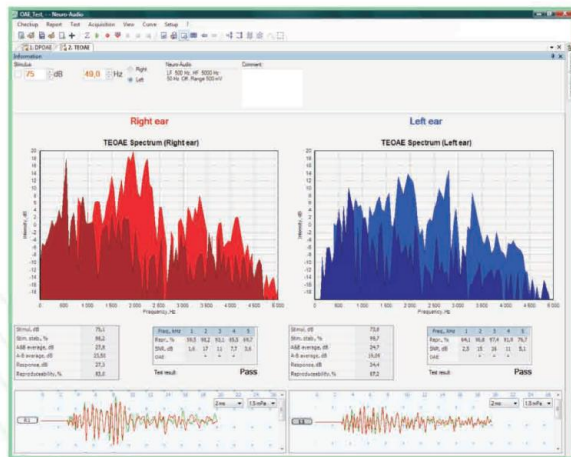
ABR test



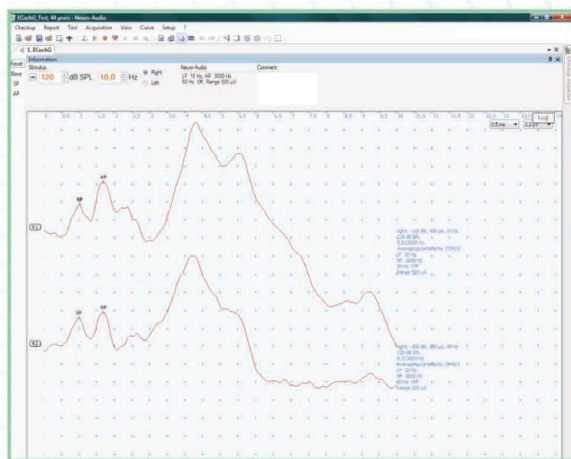
LLR test



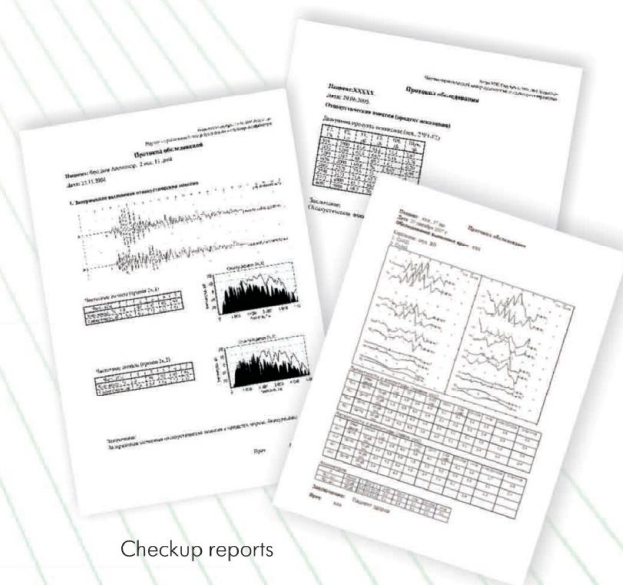
DPOAE test



TEOAE test



ECoChG test



Checkup reports

Delivery Set

- Electronic unit
- Holder
- OAE probe
- OAE probe tips (set of 4 pcs.)
- Auditory stimulator for EP (TDH-39 headphones)
- Test cavity
- Set of ear tips (universal) (4-13 mm diameter)
- Cup electrode with cable – 5 pcs.
- Pup-jack linker
- Electrode adhesive paste (100 g)
- Electrode abrasive paste for skin preparation (160 g)
- Software
- User and technical manuals



Variants of Delivery Set

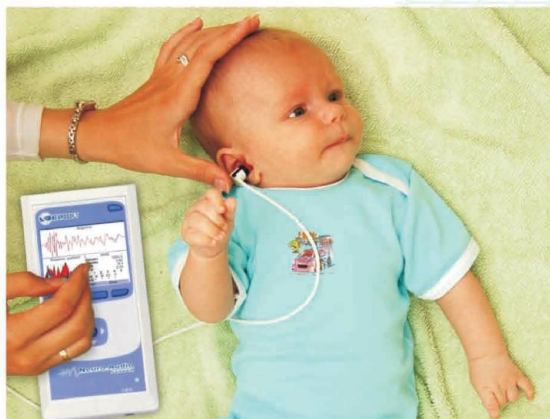
Three delivery set variants are available, these are Neuro-Audio, Neuro-Audio/OAE, Neuro-Audio/ABR

	Available Techniques							
	ABR/BERA	VEMP	AEP: MLR, LLR	ECochG	TEOAE	DPOAE	ASSR	Cognitive EP (MMN, P300)
Neuro-Audio				+			ASSR option*	Cognitive EP option*
Neuro-Audio/OAE		ABR option*				+	ASSR option*	Cognitive EP option*
Neuro-Audio/ABR			+		OAE option*		ASSR option*	Cognitive EP option*

+ included in the base delivery set

* is supplied optionally by special order

See Also



Neuro-Audio-Screen

Portable All-in-One ABR, DPOAE and TEOAE Hearing Screening System

- Main techniques: auditory brainstem response (ABR), transient evoked otoacoustic emission (TEOAE), distortion product otoacoustic emission (DPOAE)
- Small autonomous device supplied from four rechargeable batteries
- Possibility of choosing a checkup type, entering a patient's data, controlling a checkup process, results displaying and a recorded checkups database
- Possibility to process and archive the checkup results on the external computer
- Results can be printed on a portable printer connected via wireless Bluetooth interface



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