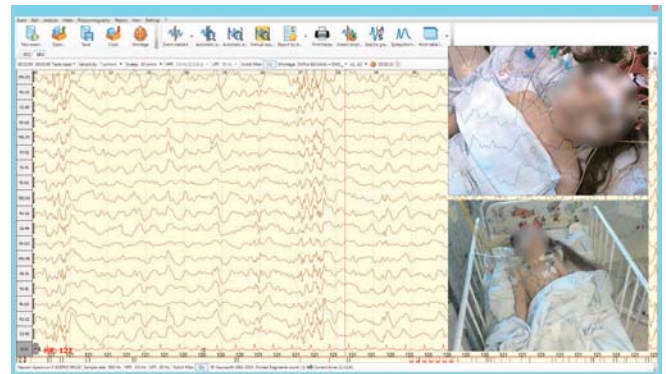


OPTIONS¹

Neuron-Spectrum-Video

Neuron-Spectrum-Video software allows performing the long-term synchronous EEG and video recording from 1, 2 or 3 video cameras controlled from the computer and audio information from 1 or 2 microphones. There are wide possibilities to review, edit and store the recorded data. The support for advanced network cameras is provided.



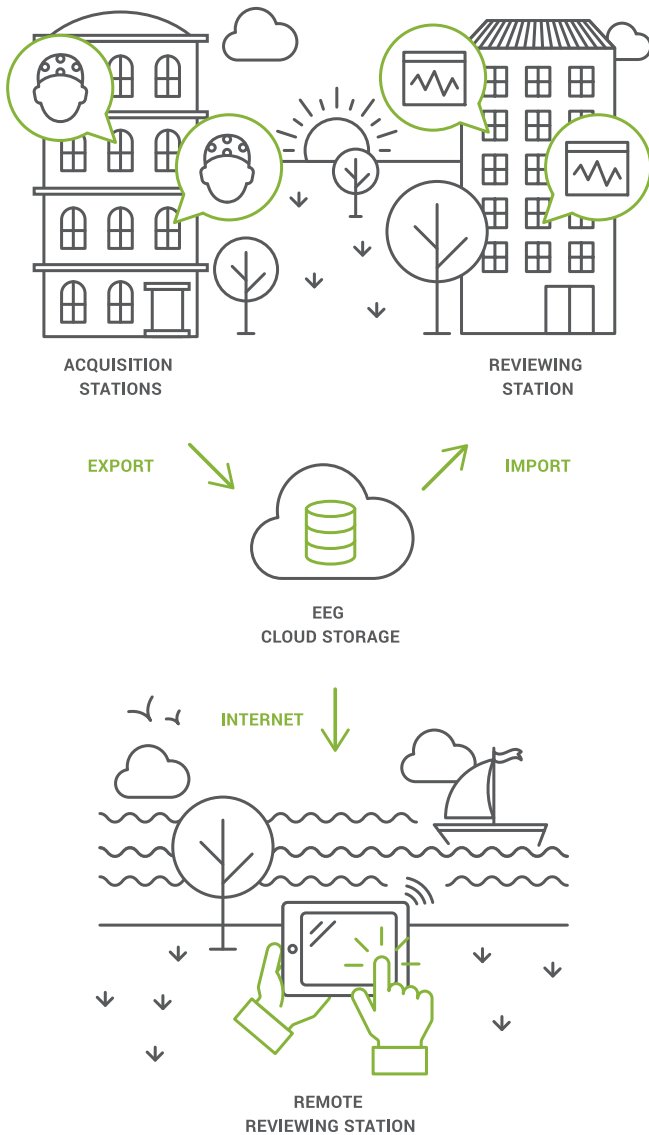
Video EEG acquisition

Neuron-Spectrum-LEP

Neuron-Spectrum-LEP software allows recording long- and middle-latency auditory, visual, somatosensory and cognitive EP by EEG channels with brain mapping using both built-in and external stimulators. Cognitive EP can include such test types as P300, MMN, CNV, GONOGO, TOVA, VCPT. With the special stimulation software Presentation⁴ the number of tests can be enlarged.



Acquisition and analysis of long-latency EP using multi-channel scheme



Distributed access to exams



EEG Printing

EEG is printed with standard grid and calibration cuts, with derivation names and acquisition parameters on any computer printer.

You can select EEG fragments to be printed in the process of acquisition or just after it is stopped.

Neuron-Spectrum-PSG

Neuron-Spectrum-PSG software allows performing comprehensive polysomnography studies (sleep stage analysis, analysis of sleep-disordered breathing). Automated or manual tools for sleep staging can be used. Advanced search tools intended for detection of respiratory and snoring events, desaturation and limb movements during sleep help to analyze long-term night exams quickly and accurately. The automatic detection and analysis of cardiac events during sleep is also available. Sleep results are presented in tables and graphs that can be copied to exam report.



Review and analysis of PSG

Neuron-Spectrum-EMG⁵

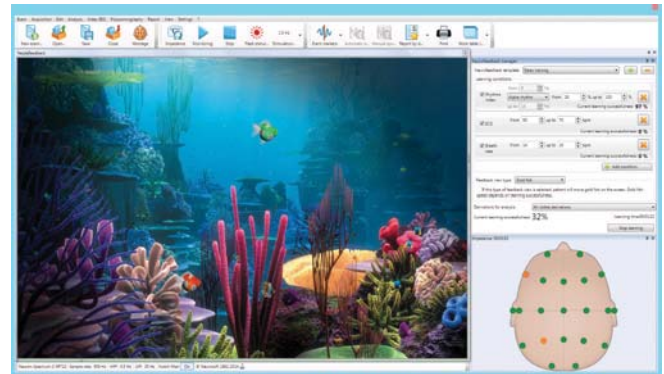
The specifications of 4 polygraphic channels of Neuron-Spectrum-5, Neuron-Spectrum-4/EPM allow performing the comprehensive EMG studies by the following techniques:

- Nerve conduction study (NCS) (motor and sensory nerve conduction study, F-wave, H-reflex (including paired stimulation), motor and sensory inching)
- EMG (spontaneous activity, interference curve, motor unit potentials)
- Neuromuscular junction (repetitive stimulation, jitter)
- Additional EMG techniques (blink reflex, sacral reflex, bulbocavernous reflex, T-reflex⁶, galvanic skin responses)
- Transcranial magnetic stimulation⁷

The digital system can be supplied with the dedicated keyboard and footswitch to increase the performance.

Neuron-Spectrum-BFB

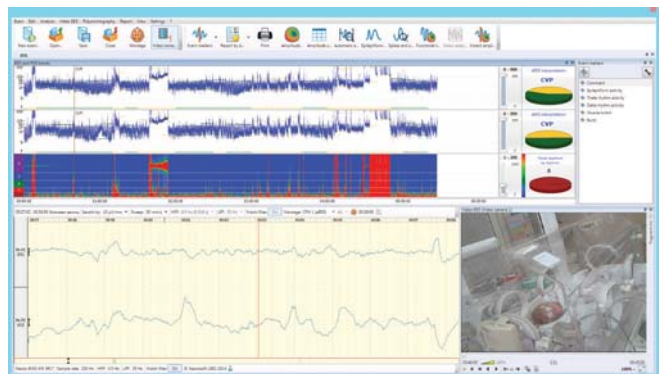
Neuron-Spectrum.NETw software can be used in trainings in accordance with various biological feedback protocols. You can use predefined training protocols or create your own ones. EEG rhythm indexes, HR, BR, EMG and GSR amplitude can be considered as training parameters. Video, audio information and games can be presented to a patient as feedback.



Neuron-Spectrum-BFB module

Neuron-Spectrum-CFM

Neuron-Spectrum-CFM software is intended for long-term cerebral function monitoring in neonatology to detect possible structural and functional brain changes in newborns. The cerebral function monitoring can also be prescribed to adults in intensive care units (ICUs). This technique can be helpful in monitoring of treatment efficacy and response prediction. aEEG trend allows detection of epileptiform activity (including masked epileptic seizures) and evaluation of its intensity and frequency. The function to assess patient's pain during needle insertion is also available.



aEEG acquisition in neonatology

⁵ For Neuron-Spectrum-4/EPM, Neuron-Spectrum-5

⁶ If tendon hammer is available

⁷ If magnetic stimulator is available

OPTIONS²

Neuron-Spectrum-ERG⁸

Neuron-Spectrum-ERG software is intended for electroretinography studies.

Neuron-Spectrum-EP⁹

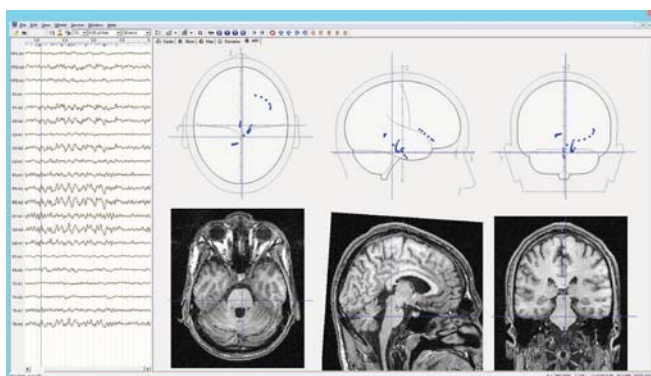
Neuron-Spectrum-EP software provides the possibility to study short-, middle-, and long-latency auditory, visual, somatosensory and cognitive EP by 4 wide-band polygraphic channels.

Poly-Spectrum-Rhythm/EEG

Poly-Spectrum-Rhythm/EEG software is intended for the heart rate variability (HRV) analysis with the use of data received from ECG and breath channels built in the digital system.

BrainLoc¹⁰

BrainLoc software is intended for 3-D dipole localization of pathological activity sources when suffering from epilepsy, injuries, strokes, neoformations, and also localization of evoked potential sources, wave patterns, rhythmic activity generators. The visualization of localization results is performed on three head views, diagrammatic sectional views of the brain structures, MRT-images that allow reviewing the analysis results of several records in multi-window mode.



Working with BrainLoc

⁸ For Neuron-Spectrum-4/P, Neuron-Spectrum-4/EPM, Neuron-Spectrum-5

⁹ For Neuron-Spectrum-4/EPM, Neuron-Spectrum-5

¹⁰ A. A. Mitrofanov, Private Entrepreneur

COMPREHENSIVE ASSISTANCE AND TECHNICAL SUPPORT

- ✓ Our customers can always count on Neurosoft team for extensive support.
- ✓ Together with digital system you get the detailed technical and user manuals including even the most particular EEG aspects.
- ✓ We guarantee 24-month warranty for electronic units and lifetime software update.



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