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# Neuron-Spectrum-61..65

Up to 78 channels for high-quality EEG acquisition

Continuous impedance monitoring during acquisition

EEG, ECG, EOG, EMG channels, etc.

Multiple options: EEG, LTM, PSG, EP, CFM, BFB, etc.

Fully synchronized HD video

State-of-the-art techniques of mathematical analysis





**Choose  
Your Winning  
EEG Combination**

For more than a quarter of a century, Neurosoft has been designing and producing various equipment for neurophysiology.

Many years of experience and the meticulous work done by our software and hardware engineers have gone into the creation of the highest quality equipment, which is being successfully used at medical facilities all over the world.

Now we offer you not just a fine product, but the advanced EEG system, which will definitely comply with every your request. It doesn't matter what you are really supposed to do: routine EEG, long-term video EEG monitoring (LTM), EP, PSG, invasive EEG, CFM or BFB trainings.

**A full line of high-quality,  
reliable amplifiers for advanced  
neurodiagnostic studies.**

# Broad Capabilities in Flexible Design

The amplifier is the heart of any EEG system, and its specifications largely determine the functionality of the whole system.

We are pleased to present a range of EEG systems with various capabilities. Just choose the one that suits you best!



**Neuron-Spectrum-64**

25 Referential EEG channels, 1 ECG channel, 6 Differential channels, SpO<sub>2</sub> unit connection, Auditory and photic stimulators



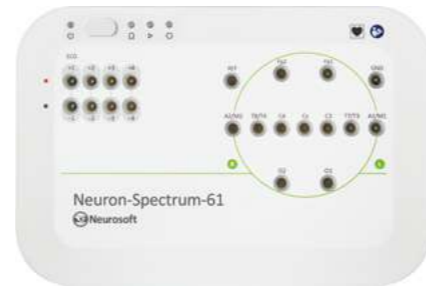
**Neuron-Spectrum-63**

21 Referential EEG channels, 1 ECG channel, 6 Differential channels, SpO<sub>2</sub> unit connection, Auditory and photic stimulators



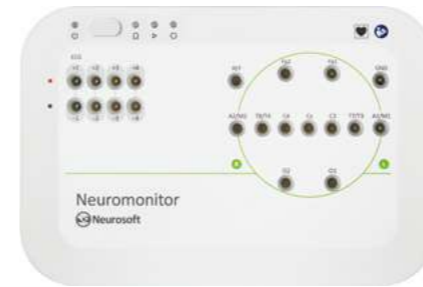
**Neuron-Spectrum-62**

19 Referential EEG channels, 1 ECG channel, 4 Differential channels, SpO<sub>2</sub> unit connection, Auditory and photic stimulators



**Neuron-Spectrum-61**

11 Referential EEG channels, 1 ECG channel, 4 Differential channels, SpO<sub>2</sub> unit connection, Auditory and photic stimulators



**Neuromonitor**

11 Referential EEG channels, 1 ECG channel, 4 Differential channels, SpO<sub>2</sub> unit connection, Auditory and photic stimulators

## Symbols

- Referential EEG channels
- ECG channels
- Differential channels
- Possibility of external SpO<sub>2</sub> unit connection
- Auditory and photic stimulators

## Auditory Stimulator Unit

Auditory stimulator helps clinicians perform the auditory stimulation during routine EEG by choosing the necessary audio stimulus from the list. Besides, it is simple to perform ERP study using default or user-defined stimulus.



## Neuron-Spectrum-65

39 Referential EEG channels, 1 ECG channel, 8 Differential channels, SpO<sub>2</sub> unit connection, Auditory and photic stimulators

The device provides 39 referential channels to acquire the high-quality EEG. These channels can work both in AC and DC modes.



The appropriate connector makes it possible to use electrode caps of various manufacturers.

Operation mode can be switched with just one button on the front panel. The LED indicator next to button shows the mode: acquisition, EEG monitoring or impedance measurement.



The lead connector on amplifier glows green if impedance is good and glows red if it is bad. Numeric value of impedance can be shown in Impedance Measurement window of the software.



## Video EEG Monitoring System

**Neuron-Spectrum-64 for long-term EEG monitoring**

- 25 EEG channels, dedicated ECG and EOG channels, 6 additional differential channels
- Up to 3 HD video cameras with built-in microphone for continuous day/night monitoring
- Continuous impedance monitoring
- Powerful tools for data analysis

## Routine EEG

**Neuron-Spectrum-63 for routine EEG**

- 21 referential EEG channels, 1 ECG channel, 6 differential channels for EOG, ECG, EMG
- Disk, cup and bridge electrodes or electrode caps can be applied
- Photic, auditory and pattern stimulators
- Long-latency EP acquisition
- A dedicated Ref electrode (21 EEG channels), A1, A2 ear electrodes (19 EEG channels), or a Cz central electrode (20 EEG channels) can be used as a reference electrode



# Cerebral Function Monitoring (CFM)

## Neuromonitor

is the optimal solution for cerebral function monitoring in the neonatal intensive care units. It provides necessary vital data such as aEEG, real time EEG, ECG, respiration. This information helps clinicians understand an infant's brain health and assist with treatment. Cerebral function monitoring with Neuromonitor is easy to apply, easy to use and easy to interpret.

- Up to 11 EEG channels and 4 polygraphic channels for EOG, ECG, respiration, etc.
- All-in-one PC with touch-screen
- Synchronous video monitoring
- Continuous impedance monitoring
- Simplest electrode placement with single use or reusable electrodes (cup and needle ones)
- Possibilities for networking and HL7 connection



# Polysomnography (PSG)

## Neuron-Spectrum-65

can be used as a type I sleep monitor\* with full-featured PSG software

- Full range of PSG channels in compliance with AASM recommendations
- Portable patient unit for quick connection/disconnection
- Synchronous video monitoring
- Manual, semi-automatic and automatic sleep staging and PSG event detection
- DC channels for data transfer to Neuron-Spectrum.NET software during CPAP titration

\* according to American Academy of Sleep Medicine (AASM) classification



# Biofeedback (BFB)

## Neuron-Spectrum-61

with a special software module is an optimal choice for biofeedback and neurofeedback trainings.

- Multi-channel data recording (EEG, ECG, EMG, respiration, SpO<sub>2</sub>, photoplethysmograms, etc.)
- Audio and visual feedback (animation, photo, music, games, video)
- Continuous training success tracking



# Neuron-Spectrum.NET

The advanced Neuron-Spectrum.NET software combines flexible user interface and powerful tools for clinical excellence.

1

Before the study, you may choose the pre-defined electrode montage or create your own one depending on the type of test you perform.

Software includes the EEG electrode locator option. Using the locator option it is very simple to place the electrodes properly according to the international 10-20 system.

After electrode placement impedance measurement can be switched on using the button on front device panel or in the software.

2

Neuron-Spectrum.NET offers multiple features of sophisticated EEG study including all desired functional tests (background EEG, eye opening, photic stimulation, hyperventilation).

All functional tests can be easily customized or created new ones.

3

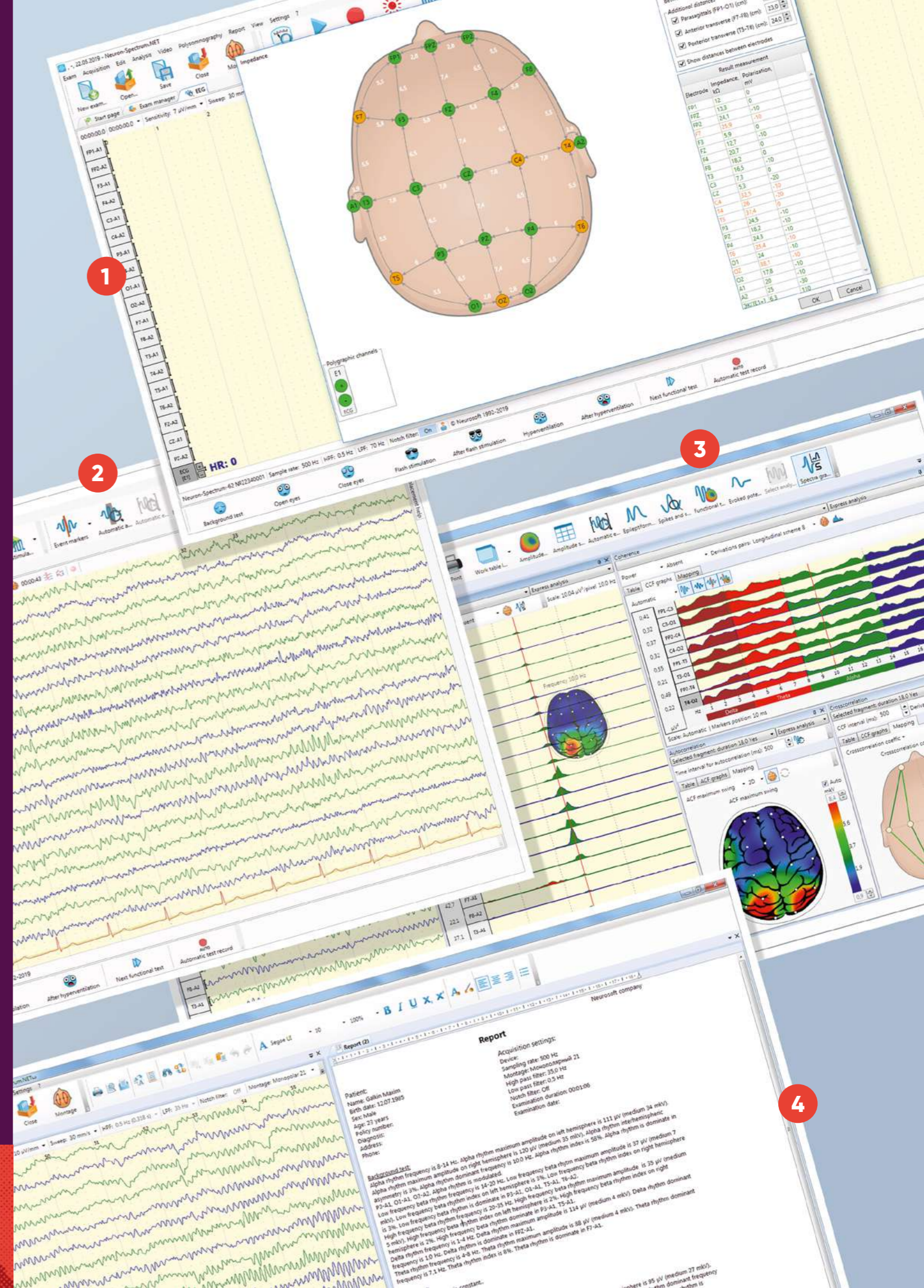
The traces are shown on the screen using cutting-edge technologies of smoothing.

The user-friendly solution for quick navigation throughout the entire EEG record streamlines the visual analysis. Contemporary tools for mathematical analysis of EEG: amplitude, spectral and bispectral analysis, correlation and coherent analysis, wavelet-analysis, periodometric analysis, independent component analysis (ICA) are always available in all software configurations.

4

The automatic report is generated using the preset report templates and integrated glossary. The report is easily edited, saved to PDF, printed or sent automatically.

Any fragment or entire EEG record can be printed at any time during the acquisition or afterwards with the conventional PC printer.



# Accessories

Good accessories are essential for high-quality EEG recording. With our systems we supply only carefully checked and tested accessories to assure their long life.

Depending on your preference, the system can be supplied with bridge, cup, disk electrodes or electrode caps of different sizes.



## Electrode Caps

For our EEG systems we have selected the best electrode caps – MCScap and Electro-Cap.



## PhS-1 and PhS-2 Photic Stimulators

Ph-1 allows adjusting stimulation frequency and duration. It is the best choice for routine EEG.

PhS-2, above that, has higher brightness and allows adjusting stimulation intensity for any demanding EEG study.



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