

NEURON-SPECTRUM-5

32-channel EEG and Long-Term Monitoring System



Up to 32 EEG channels
+ 8 channels to record EMG,
ECG, EOG, etc.

Advanced EEG, EP, PSG
analysis tools

Impedance/acquisition
button on the front
panel of EEG unit

12 options to expand
the device functions (video
monitoring, EMG, etc.)

Local, network or cloud
storage of database

Remote EEG
monitoring

EEG

- PSG
- Video EEG

NEURON SPECTRUM-5 – OUR FIRST 32-CHANNEL DIGITAL EEG SYSTEM

Neuron-Spectrum-5 device inherited the unique hardware architecture and high-quality signal amplification and digitization from the previous versions of Neurosoft digital EEG systems.

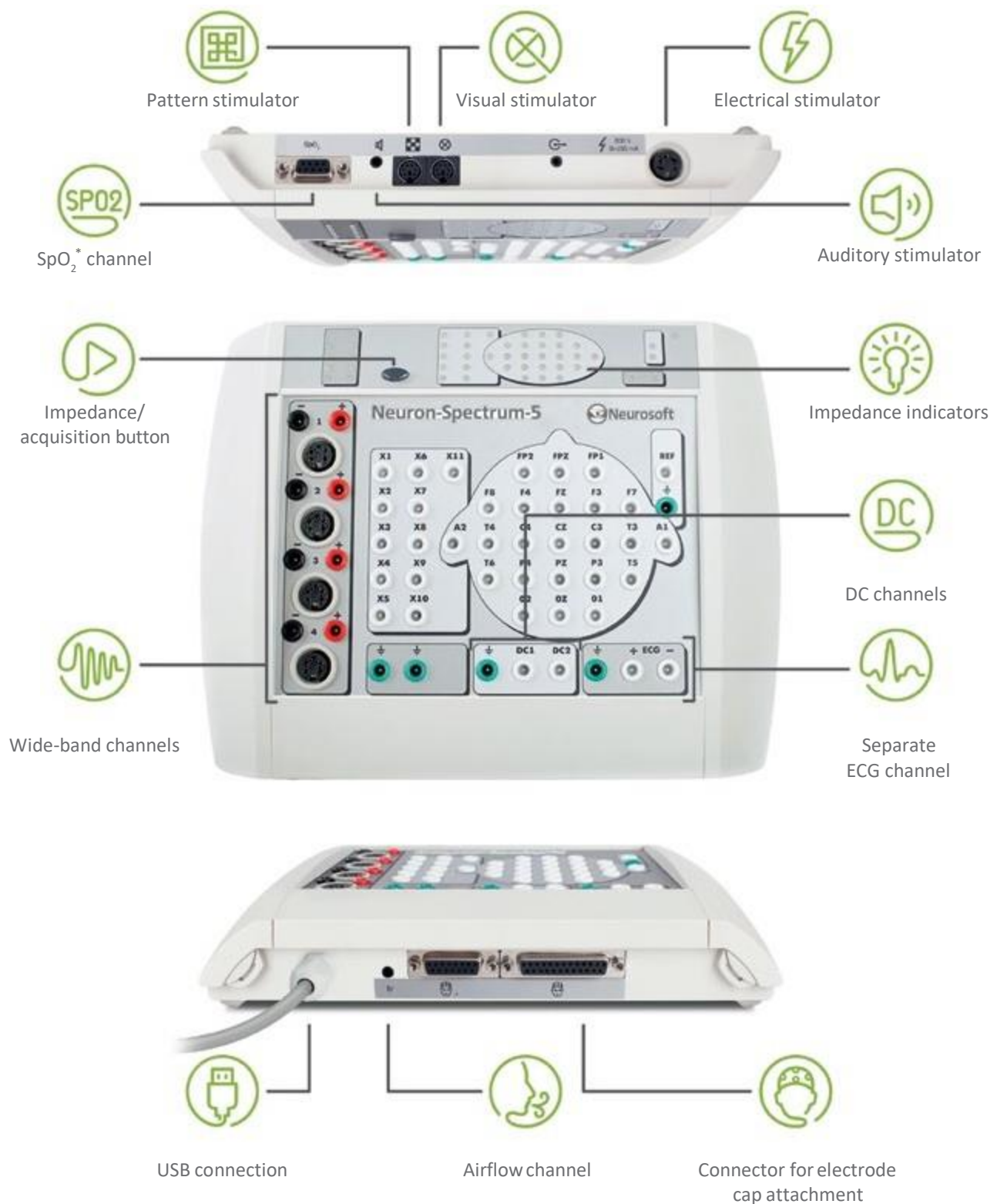
The robust amplifier and various stimulators are combined in one compact electronic unit attached to PC and powered via one USB cable.

Modern software with the wide range of exam analysis options and flexible user interface ensures easy workflow and optimized EEG diagnostics.



MORE THAN 32 EEG CHANNELS

Neuron-Spectrum-5 is a versatile and expandable 32-channel digital EEG system with a large number of high-quality polygraphic channels to record any physiological signals from EOG to short-latency EP.



* only for Neuron-Spectrum-5/S

APPLICATION

Neuron-Spectrum-5 digital EEG system is very popular among users due to premium signal quality, reliable EEG diagnostics and easy-to-use customizable interface.



Routine EEG



Video EEG monitoring
and LTM



EP, NCS and EMG
studies



Intraoperative
neurophysiological
monitoring



Cardiorespiratory
monitoring and PSG
study



Cerebral function
monitoring (aEEG),
EEG in newborns



Research

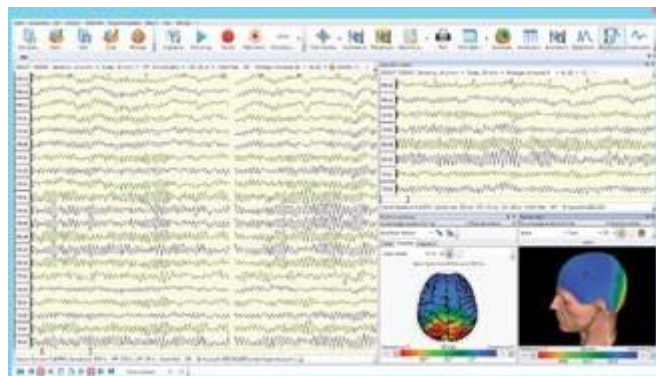
NEURON-SPECTRUM.NET SOFTWARE FEATURES

32-channel EEG

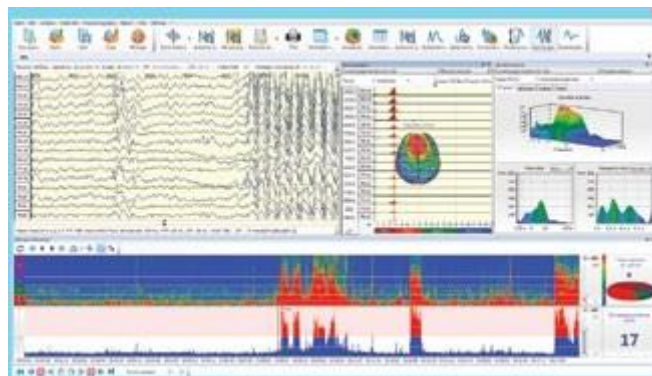
Trends, video monitoring window, real-time
EEG analysis during acquisition



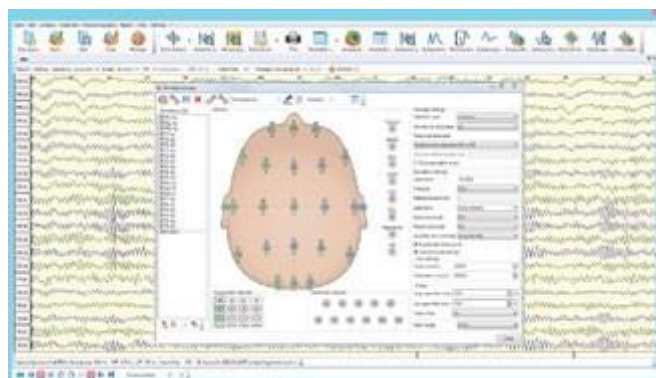
Dual monitor operation mode



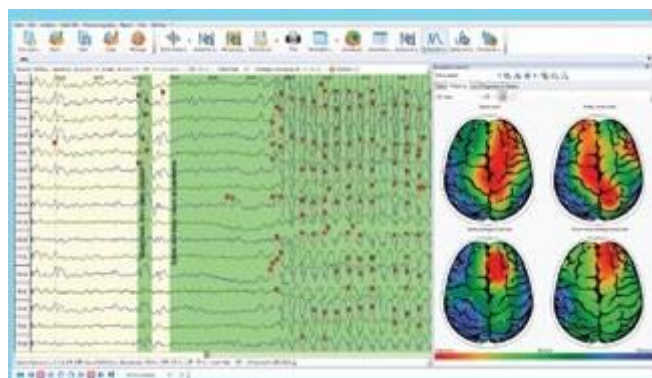
EEG acquisition



Trends of EEG parameters



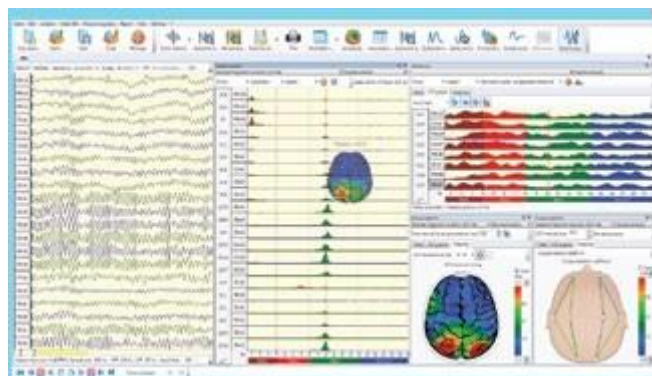
Creation and editing of EEG montage



Automatic detection of spikes and sharp waves



Brain mapping and bar charts of EEG analysis results



Graphs of spectral and coherence EEG analysis results



Working with LORETA and sLORETA



Automatically generated EEG report

The detailed description of program features is provided in Neuron-Spectrum.NET user manual.

CONFIGURATIONS

Neuron-Spectrum-5 digital EEG system can be supplied as EEG workstation, portable system, video EEG monitoring system, PSG system or EMG and NCS system.

EEG Workstation

Neuron-Spectrum-5 on the stand with desktop PC and printer.



Portable System

Neuron-Spectrum-5 with a notebook for mobile medical teams and EEG and EP acquisition in intensive care units (ICUs) and at home.



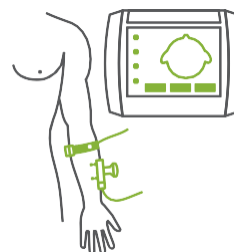
Video EEG Monitoring System

Neuron-Spectrum-5 with a camera and special software for long-term video EEG monitoring.



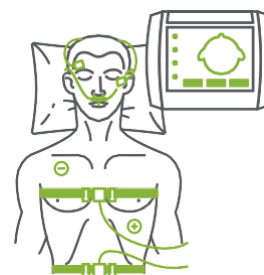
EMG and NCS System

Neuron-Spectrum-5 with special software, electrodes for EMG/NCS and needle EMG, dedicated keyboard and footswitch allows performing EMG studies.



PSG System

Neuron-Spectrum-5 with sensors for PSG, camera for night video monitoring and special software for PSG study.



64-Channel System

Two Neuron-Spectrum-5 systems connected to one workstation allow up to 64-channel EEG acquisition.



ACCESSORIES



MCScap-EC21 Electrode EEG System

It is a special textile cap with 19 thin and flat EEG electrodes and 2 ear electrodes connected to 150 cm long cable. Electrode EEG system is connected to the amplifier using DB25M connector.



Helmets to Fix Bridge EEG

Electrodes Polyurethane chin rest, thickened harness (4 mm) and improved fixation make the helmets more reliable and low-wearing.



Cup EEG Electrodes

Unlike bridge electrodes, silver chloride EEG electrodes with flexible cable take smaller area on patient's head, so EEG montages with more derivations can be used.



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.



We guarantee 24-month warranty for electronic units and lifetime software update.

EEG Devices of Neuron-Spectrum Series

	EEG channels	Extra channels: EMG, ECG, EOG, etc.	Included techniques	Options	Connector for electrode cap attachment	Interface
 Neuron-Spectrum-1/2/3/4	8/16/19/21	1	EEG	Video EEG, LEP, aEEG	+	Wire: USB, LAN
 Neuron-Spectrum-4/P	21	4	EEG	Video EEG, LEP, PSG, aEEG	+	Wire: USB, LAN
 Neuron-Spectrum-4/EPM	21	8 (SPO ₂ channel is optional)	EEG, LEP, EP	Video EEG, PSG, EMG, aEEG	+	Wire: USB, LAN
 Neuron-Spectrum-AM	21	9	EEG	Video EEG, PSG, aEEG	+	Wireless: Wi-Fi, SD card
 Neuron-Spectrum-5	32	8 (SPO ₂ channel is optional)	EEG	Video EEG, LEP, EP, PSG, EMG, aEEG	+	Wire: USB, LAN



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