

# NEURON-SPECTRUM-5

32-channel EEG and Long-Term Monitoring System



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



Modern techniques  
of EEG analysis



Impedance/acquisition  
button on the front  
panel of EEG unit



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



Remote EEG monitoring

EEG

- PSG
- Video EEG



Neurosoft



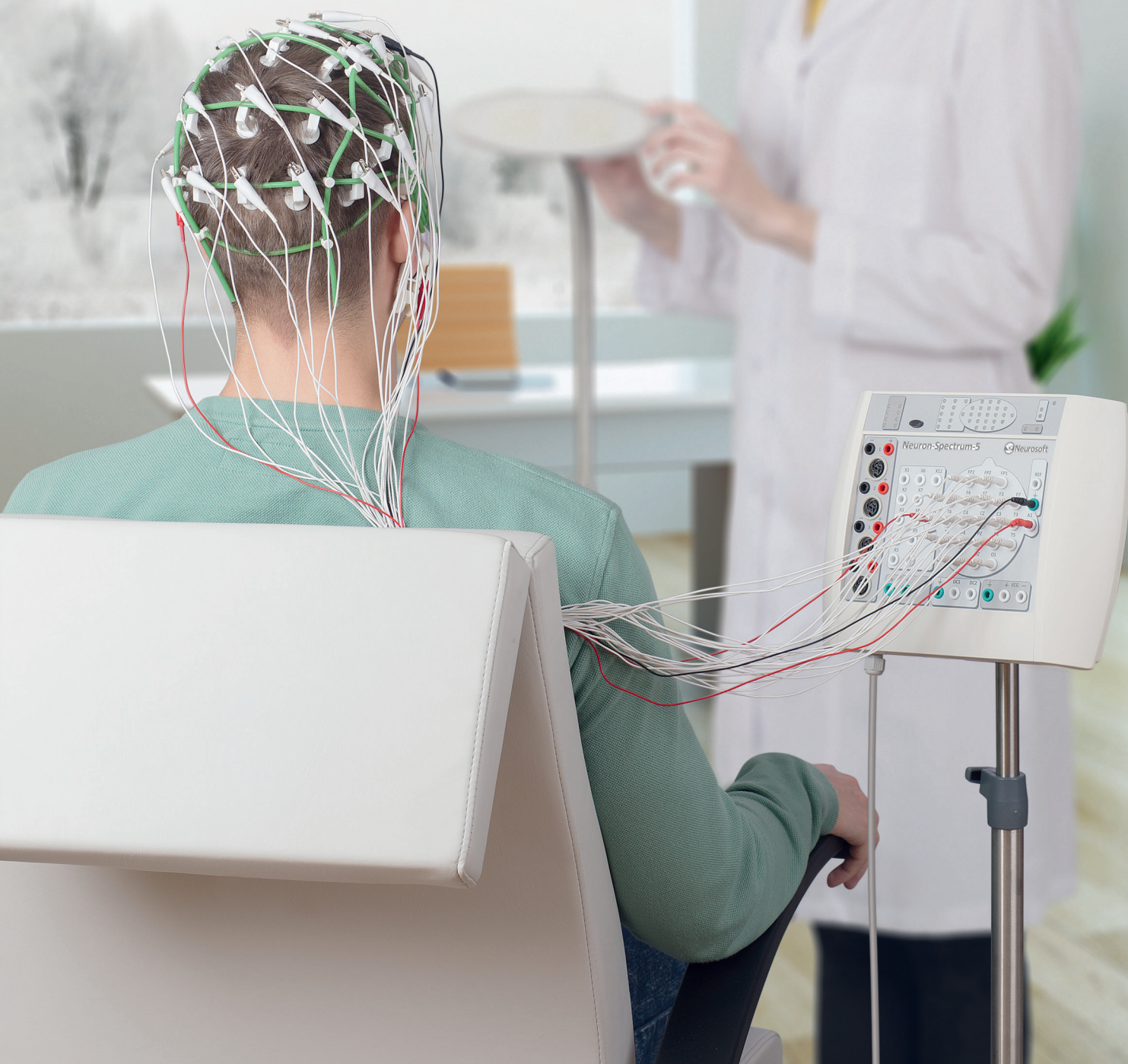


# NEURON-SPECTRUM-5 – OUR FIRST 32-CHANNEL DIGITAL EEG SYSTEM

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.

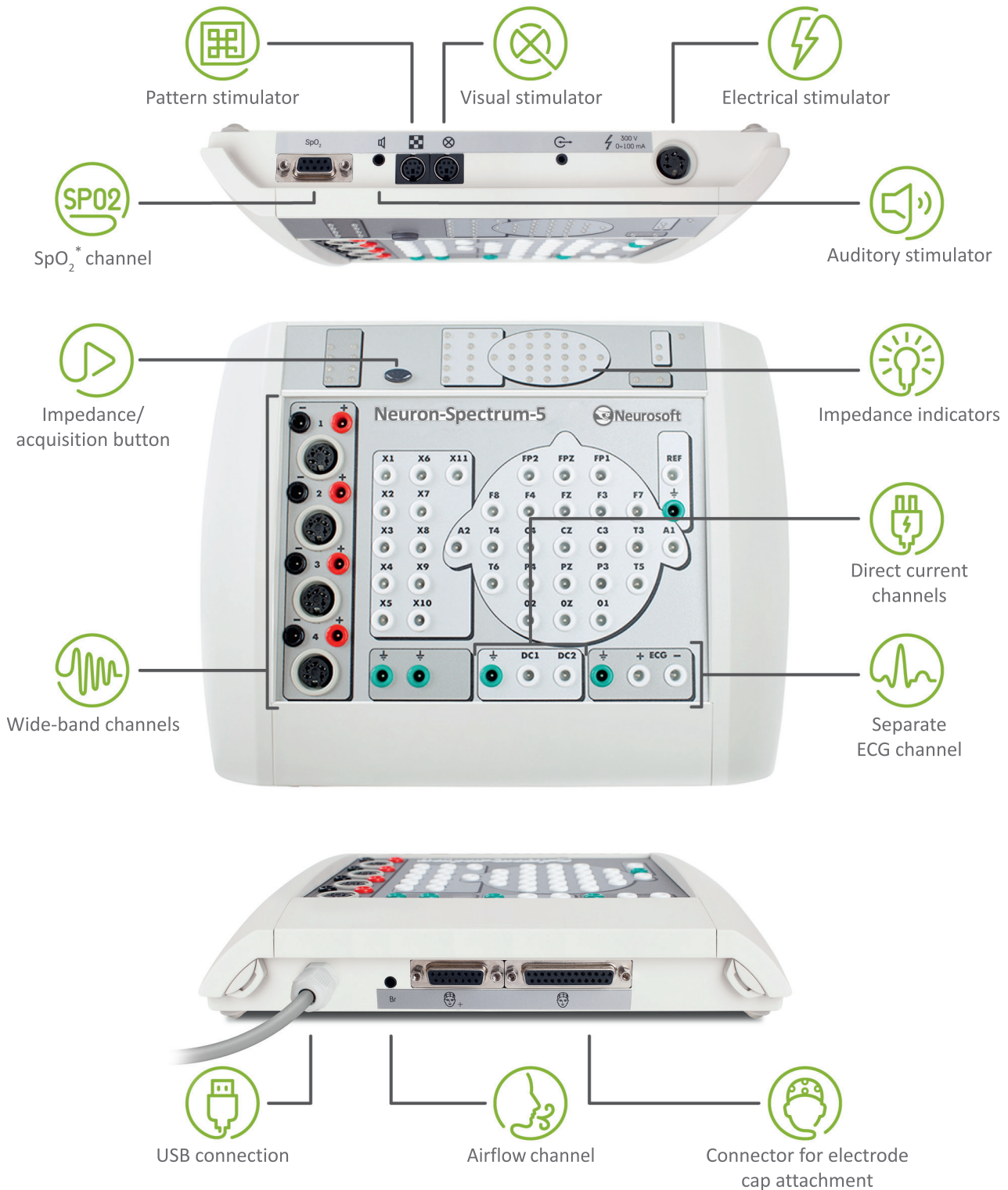
Modern software with the wide range of exam analysis options and flexible user interface ensures easy workflow and optimized EEG diagnostics.





# 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



EP and EMG studies



Research



Cardiorespiratory Monitoring and sleep stage studies



Cerebral Function Monitoring (aEEG), EEG in newborns



Intraoperative Neurophysiological Monitoring

# NEURON-SPECTRUM.NET SOFTWARE FEATURES

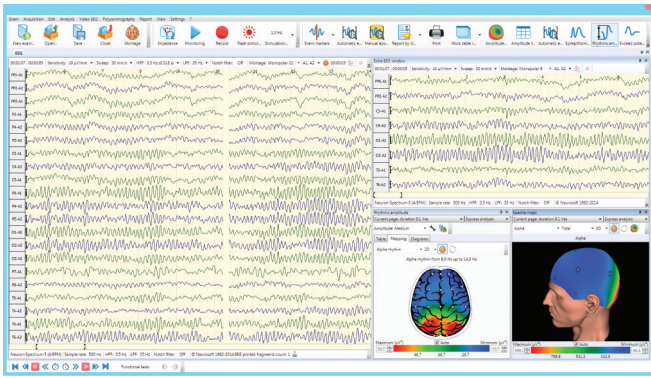
32-channel EEG

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

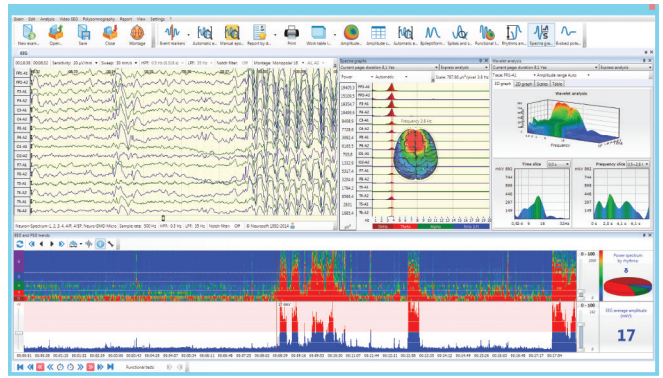


Two-monitor operation mode

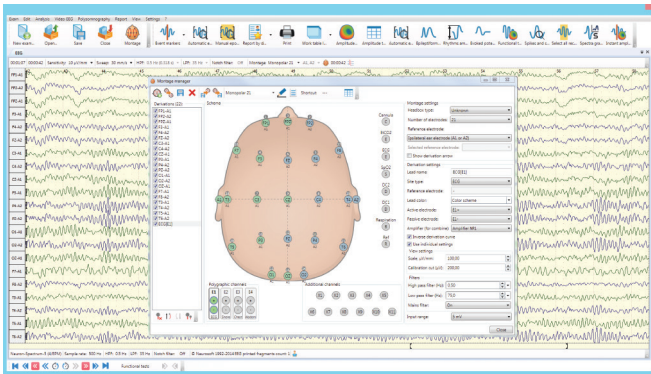




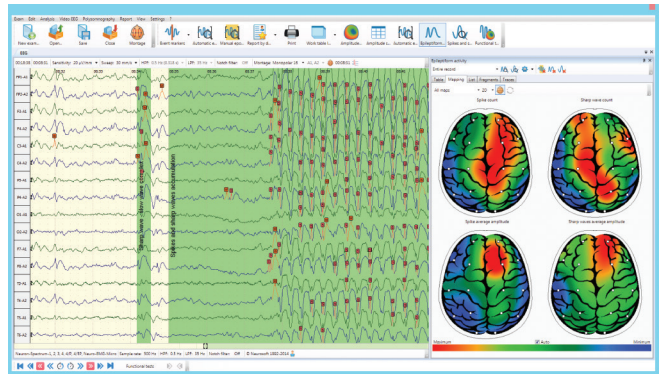
EEG acquisition



Trends of EEG parameters



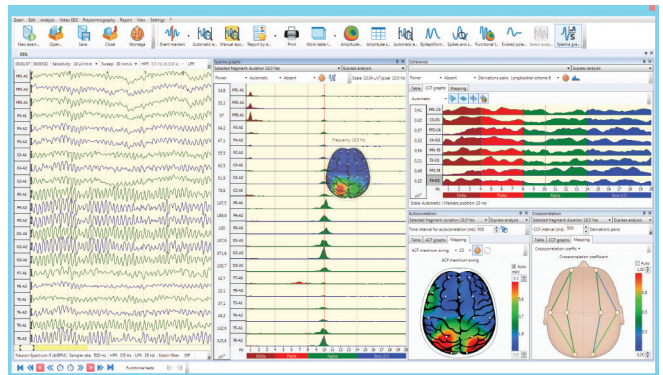
Creation and editing of EEG montage



Automatic detection of spikes and sharp waves



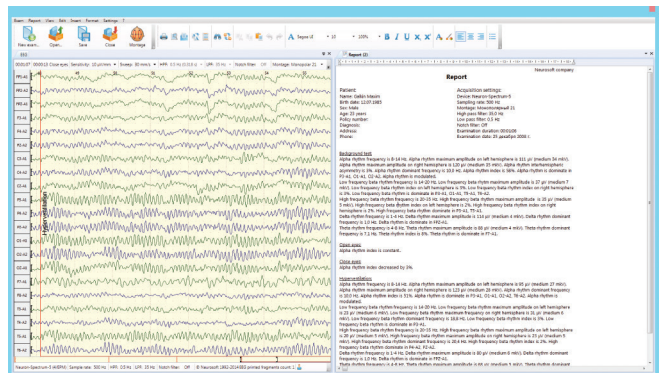
Brain mapping and bar charts of EEG analysis results



Graphs of spectral and coherence EEG analysis results



Working with LORETA and sLORETA



Automatically generated EEG report



# 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.



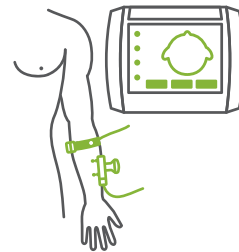
## Video EEG Monitoring System

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



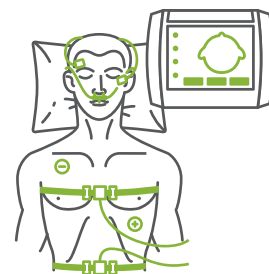
## EMG and NCS System

Neuron-Spectrum-5 with special software and electrodes for EMG and NCS, dedicated keyboard and footswitch.



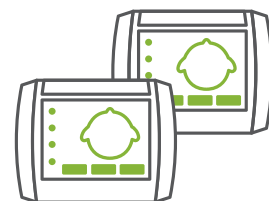
## PSG System

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



## 64-Channel System

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



## ACCESSORIES



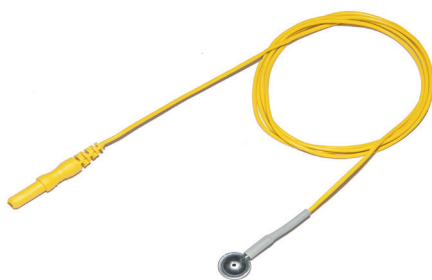
### MCScap-EC21 Electrode EEG System

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
 <p>Neuron-Spectrum-1/2/3</p>	8/16/19	1	EEG	Video EEG, LEP, aEEG	+	Wire: USB, LAN
 <p>Neuron-Spectrum-4/P</p>	21	4	EEG	Video EEG, LEP, PSG, aEEG	+	Wire: USB, LAN
 <p>Neuron-Spectrum-4/EPM</p>	21	8	EEG, LEP, EP	Video EEG, PSG, EMG, aEEG	+	Wire: USB, LAN
 <p>Neuron-Spectrum-AM</p>	21	9	EEG	Video EEG, PSG, aEEG	+	Wireless: Wi-Fi, SD card
 <p>Neuron-Spectrum-5</p>	32	8	EEG	Video EEG, LEP, EP, PSG, EMG, aEEG	+	Wire: USB, LAN



# Neurosoft

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