



Coming soon

Neuron-Spectrum-61..65

Up to 78 channels
for high-quality EEG
acquisition

Continuous impedance
monitoring during
acquisition

ECG, EOG, EMG
channels, etc.

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

State-of-art techniques
of mathematical analysis



Choose Your Winning EEG Combination

Neurosoft Company has been developing and manufacturing medical equipment for neurophysiology for over 25 years.

Our highly skilled software developers and engineers create time-tested, flexible systems working successfully all over the world.

Now, we offer you not just a reliable EEG system but the system that meets the needs of advanced specialist.



Routine EEG, long-term video EEG monitoring (LTM), EP, PSG, invasive EEG, CFM, BFB trainings

**or any thinkable EEG
related task is possible with
Neuron-Spectrum-61...65
EEG systems.**

Flexible Freedom

The robust amplifier has been designed specifically in compliance with current requirements to EEG acquisition and ensures high-quality signal processing.

Each EEG system of Neuron-Spectrum-61...65 product line is marked by a wide range of leading-edge options and advanced software. Just choose the device you need!

The innovative EEG systems ensure reliable, interference-free EEG monitoring due to the advanced performance specifications:

Sampling rate:
up to 16 kHz per channel

A/D converter:
24 bits

Input voltage range:
±350 mV .. 1100 mV

Bandwidth:
0..600 Hz

Noise:
<1.4 µV peak-to-peak

Neuron-Spectrum-65

39 1 8 ✓ ✓

You can use up to 6 dedicated DC inputs* to connect any PSG sensors and CPAP machines.

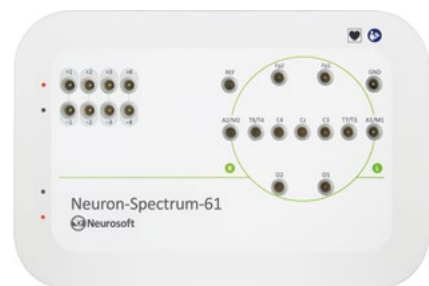


The appropriate connector to plug the compatible electrode caps of any manufacturers.



Neuron-Spectrum-64

25 1 6 ✓ ✓



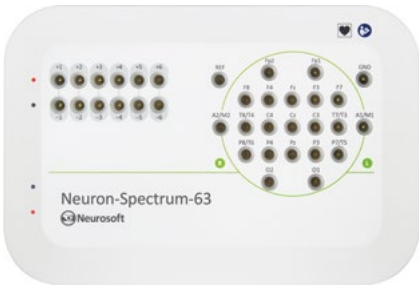
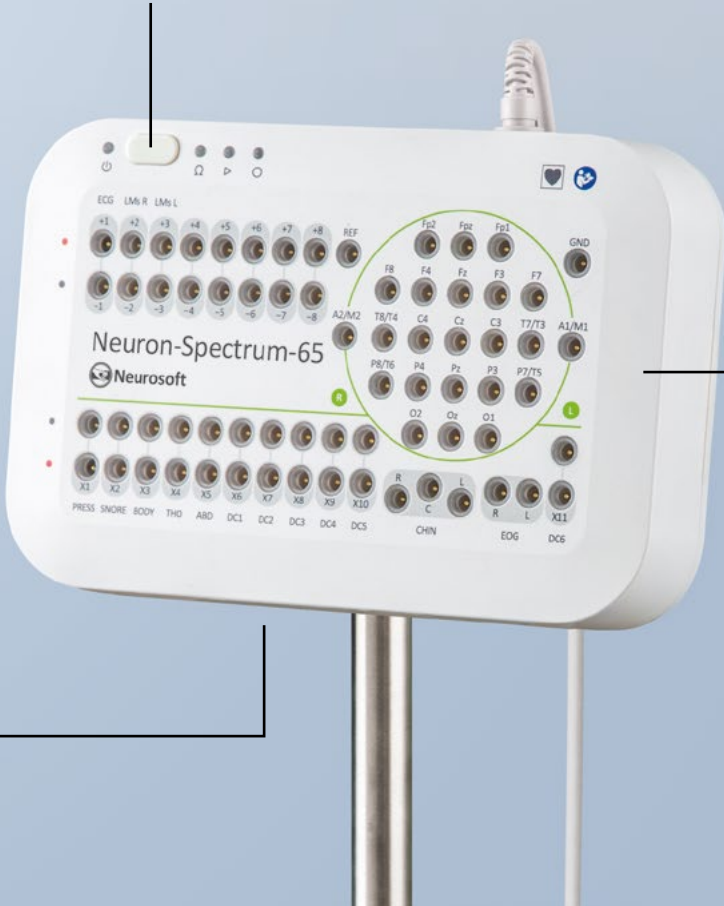
Neuron-Spectrum-61

11 1 4 ✓ ✓

The mode selection button to switch between the operating modes and the related indicator to display the current mode.

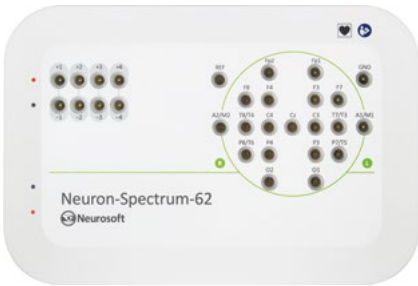


The color-coded impedance indicators on the amplifier inputs to monitor the electrode array and reposition the detached electrode very fast.



Neuron-Spectrum-63

EEG 21 ECG 1 Differential 6 External SpO₂ ✓ Auditory and visual stimulators ✓



Neuron-Spectrum-62

EEG 19 ECG 1 Differential 4 External SpO₂ ✓ Auditory and visual stimulators ✓



Neuromonitor

EEG 11 ECG 1 Differential 4 External SpO₂ ✓ Auditory and visual stimulators ✓

Symbols

- EEG channels
- ECG channels
- Differential channels**
- External SpO₂ channel
- Auditory and visual stimulators

* All channels are of AC/DC type
** Can be used as DC channels



Routine EEG

For routine EEG, any system of Neuron-Spectrum-61...65 product line is a good choice***, but we recommend

Neuron-Spectrum-63

- 21 EEG channel, 1 ECG channel, 6 differential channels for EOG, ECG, EMG
- Ref electrode, A1, A2 electrodes or CZ electrode can be used as a reference electrode
- On-line and off-line EEG trace re-montaging
- Cup and bridge electrodes or electrode caps can be used
- Photic, auditory and pattern stimulators
- Long-latency EP acquisition

*** The standardized EEG electrode array of the IFCN, 2017

Long-Term EEG Monitoring

For continuous video EEG monitoring we recommend

Neuron-Spectrum-64

with additional equipment and software for video recording.

- 25 EEG channels, dedicated ECG and EOG channels, 6 additional differential channels
- Electrode caps for continuous EEG
- Continuous synchronous video recording using up to 3 network cameras
- Automatic spike and other paroxysmal event detection





Polysomno- graphy (PSG)

Neuron-Spectrum-65

can be used as a scalable PSG recorder (type I sleep monitor according to AASM classification).

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



Cerebral Function Monitoring (CFM)

CFM provides real-time data about aEEG background patterns, burst suppression indices, sleep-wake cycling and seizures. It is valuable prognosis information which may prevent irreversible brain injury in neonates. To perform CFM we developed

Neuromonitor

- Up to 11 EEG channels and portable CFM patient unit
- Automatic detection of aEEG background patterns
- Synchronous video monitoring



Biofeedback (BFB)

Neuron-Spectrim-61

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

- Multi-channel data record (EEG, ECG, EMG, respiration, SpO₂, photoplethysmography)
- Audio and visual feedback (animation, games, photos, music, video)
- Continuous training success tracking

Neuron-Spectrum.NET

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

1

Before examination select any pre-defined montage in the software or create your own one.

While placing electrodes on a patient they are highlighted green on the software electrode array. The EEG Locator option allows the inexperienced specialists to position the electrodes in compliance with International 10-20% system.

2

The software is designed to streamline the EEG workflow with functional tests (background EEG, eye opening, photic stimulation, hyperventilation).

Due to flexible settings you can perform other functional tests of any duration and in any sequence, add or delete them from the examination.

3

During EEG analysis spikes, sharp waves, epileptiform discharges are detected and marked automatically.

The high-quality of EEG is ensured with trace smoothing. The advanced navigation facilities provide fast access to any fragment of EEG trace. Records are analyzed with the most modern analysis techniques implemented in the software – rhythm wave amplitude analysis, spectral and bispectral analysis, correlation and coherent analysis, wavelet-analysis, periodometric analysis, independent component analysis (ICA).

4

After examination and EEG analysis the report is generated automatically using the pre-defined report templates and integrated glossary.

The examination report is easily edited, saved to PDF, printed or sent automatically in compliance with your needs.



Accessories

High-quality EEG accessories are also very important for quick and efficient study. Each produced item is carefully checked and tested to assure long life, unsurpassed recording clarity and dependability.

Bridge electrodes with cables and EEG helmets of 3 different sizes are included in the delivery set.



Electrode Caps

MCSCap and Electrocap electrode caps are the perfect choice for everyday EEG applications. We select them for enhanced patient's comfort, ease of use and maintenance.



LED Photic Stimulators PhS-1 and PhS-2

For photic stimulation we offer simple and effective stimulator PhS-1 or stimulator PhS-2 with the most advanced light emitting diodes generating light signals (brightness, duration, frequency) with specified parameters.



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