

NeuroMep

EMG, NCS and EP system



NEUROMEP — REDEFINING EXCELLENCE

For three decades, Neurosoft has been at the forefront of neurophysiological and functional diagnostics innovation. Our relentless pursuit of excellence has one goal: to transform your clinical workflow — making it smarter, faster and intuitively seamless.

NeuroMEP is the latest and most advanced EMG, NCS and EP system in the Neurosoft product portfolio. Available with a 4-channel amplifier and 1 or 2 electrical stimulators, NeuroMEP is designed with numerous features to maximize your workflow.

Basic Neuro-MEP.NET software, including EMG, NCS and multi-modality EP protocols, comes standard with NeuroMEP.



30

YEARS

OF EXPERIENCE
IN DEVELOPMENT
OF NEUROPHYSIOLOGICAL
EQUIPMENT



A WIDE RANGE OF TECHNIQUES

- Nerve conduction study (NCS)
motor and sensory conduction velocity, F-wave, H-reflex (also including paired stimulation), motor and sensory inching
- Electromyography (EMG)
spontaneous activity, interference curve, motor unit potentials (MUP), macro-EMG, QEMG
- Neuromuscular junction
repetitive stimulation, jitter (stimulated and voluntary)
- Motor unit number estimation (MUNE), including MUNIX and CMAP SCAN
- Somatosensory evoked potentials (SEP)
- Flash and pattern-reversal visual evoked potentials (VEP)
- Auditory evoked potentials (AEP)
- Vestibular evoked myogenic potentials (VEMP)
- Cognitive evoked potentials (P300, MMN, CNV, MRCP, N400, P50)
- Transcranial magnetic stimulation (TMS)*
- Heart rate variability (HRV)**
- Electroretinography (ERG, including multifocal ERG)**
- Additional EMG techniques
blink reflex, sacral reflex, bulbocavernosus reflex, T-reflex***, galvanic skin response, tremorography, RIII

* if a magnetic stimulator is available

** if corresponding equipment is available

*** if a tendon hammer for T-reflex recording is available



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TECHNIQUES ARE
AVAILABLE WITH
THE NEURO-MEP.NET
SOFTWARE





LIFETIME FREE
SOFTWARE UPDATES



1+1

2-IN-1: STIMULATION
AND RECORDING AMPLIFIER



INTEGRATION WITH MOST
ULTRASOUND SCANNERS

NUMEROUS
ACCESSORIES



SKATE-2 ADJUSTABLE
ELECTRO STIMULATING PROBE



COMPATIBLE WITH TRANSCRANIAL
MAGNETIC STIMULATORS



COLOR-CODED
IMPEDANCE QUALITY
AT THE CONNECTOR



MULTI-MODALITY EP
IN BASIC DELIVERY SET*

* with stimulator unit included



VARIOUS TROLLEY
OPTIONS, INCLUDING
LAPTOP CONFIGURATION



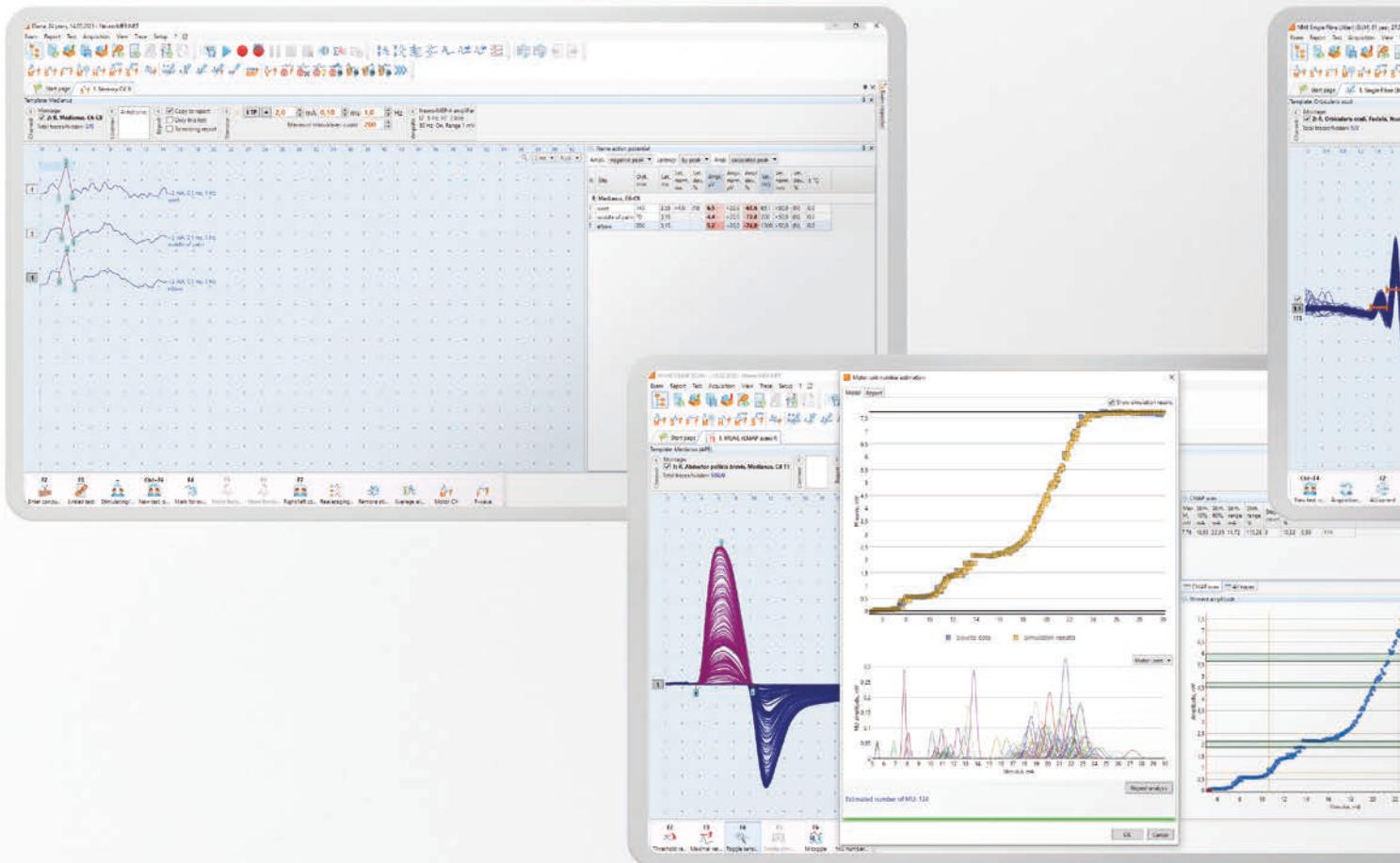
DEDICATED KEYBOARD



FOOTSWITCH

NEURO-MEP.NET

INTELLIGENT SOFTWARE CAPABILITIES

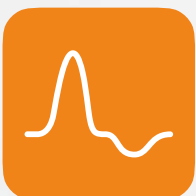


MOTOR AND SENSORY CONDUCTION STUDY

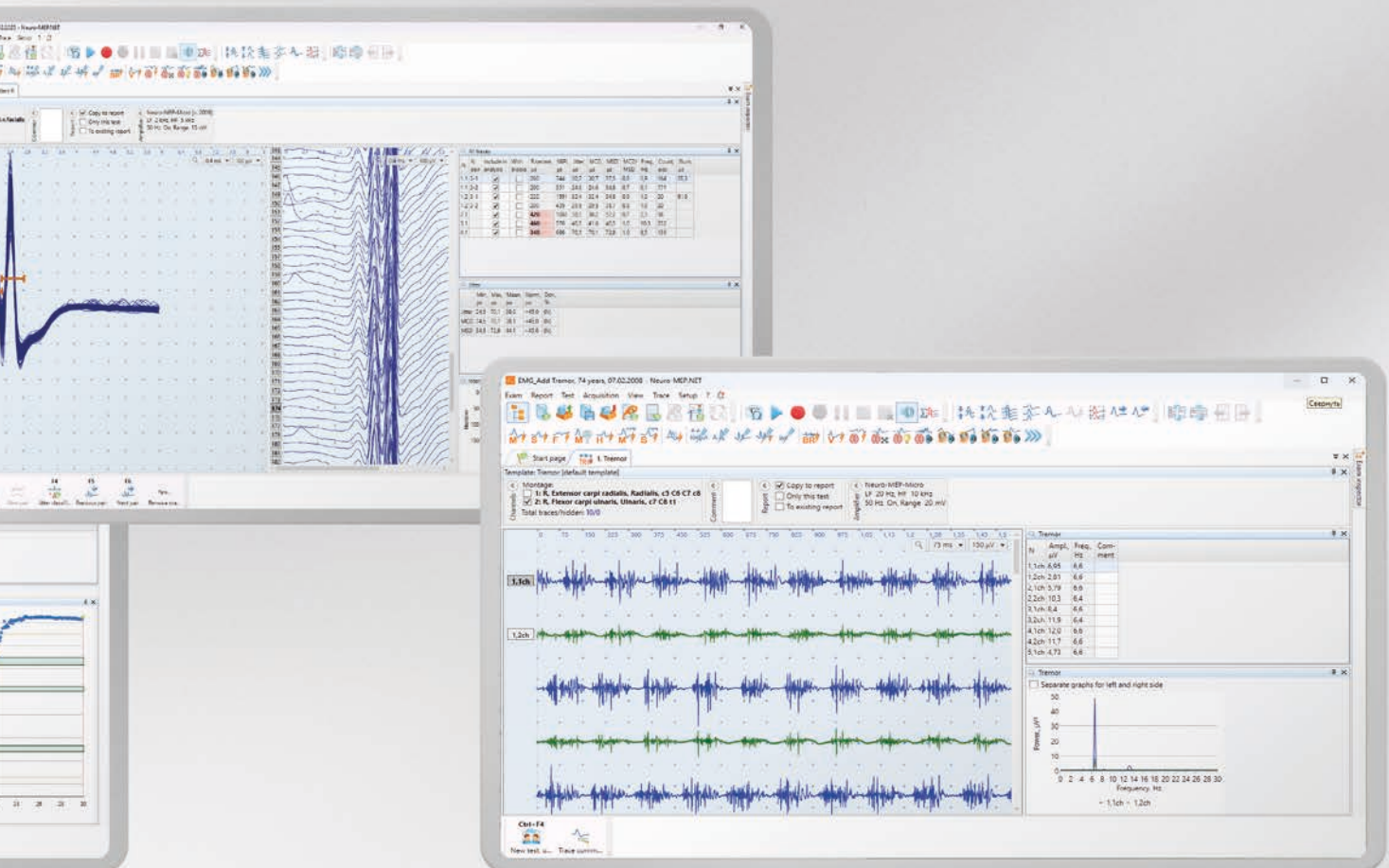
The software provides dozens of default templates to study motor and sensory conduction in most nerves accessible for stimulation. Simultaneous acquisition of motor and sensory responses is possible. Using hotkeys, you can quickly switch between motor response acquisition and F-wave recording mode.

CMAP SCAN

The software has its own algorithm that allows estimating directly the number of motor units based on the stimulus-response curve. The algorithm works using a neural network trained on one million records. Thanks to the implemented technology, it is possible to significantly speed up the analysis and improve the estimation accuracy.



ALL NEUROSOFT EMG MACHINES COME WITH ONE OF THE MOST ADVANCED SOFTWARE FOR EMG AND EP STUDIES IN THE WORLD TODAY — NEURO-MEP.NET



JITTER

Recording and analyzing jitter requires expert skills of the specialist. The technique is challenging and has many aspects, such as selecting the main peak in polyspike potentials for jitter calculation. To make the right choice, the jsum (jitter sum) parameter should be calculated. With Neuro-MEP.NET, it is done automatically, which significantly saves time and improves the exam quality. The latest algorithm of online jitter classification ensures streamlined search and accumulation of potentials.

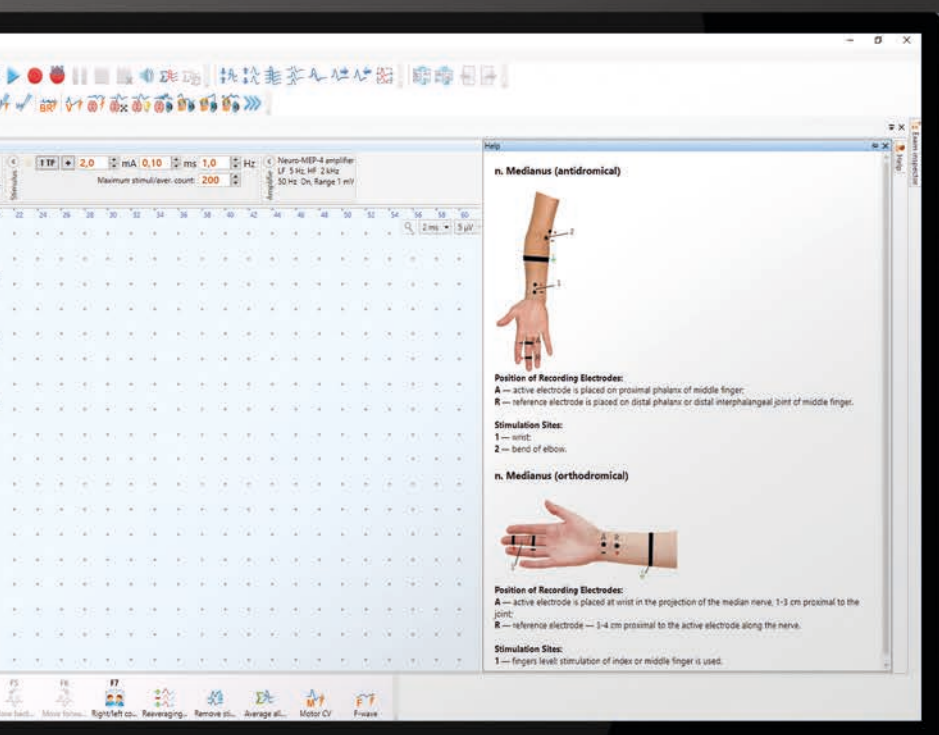
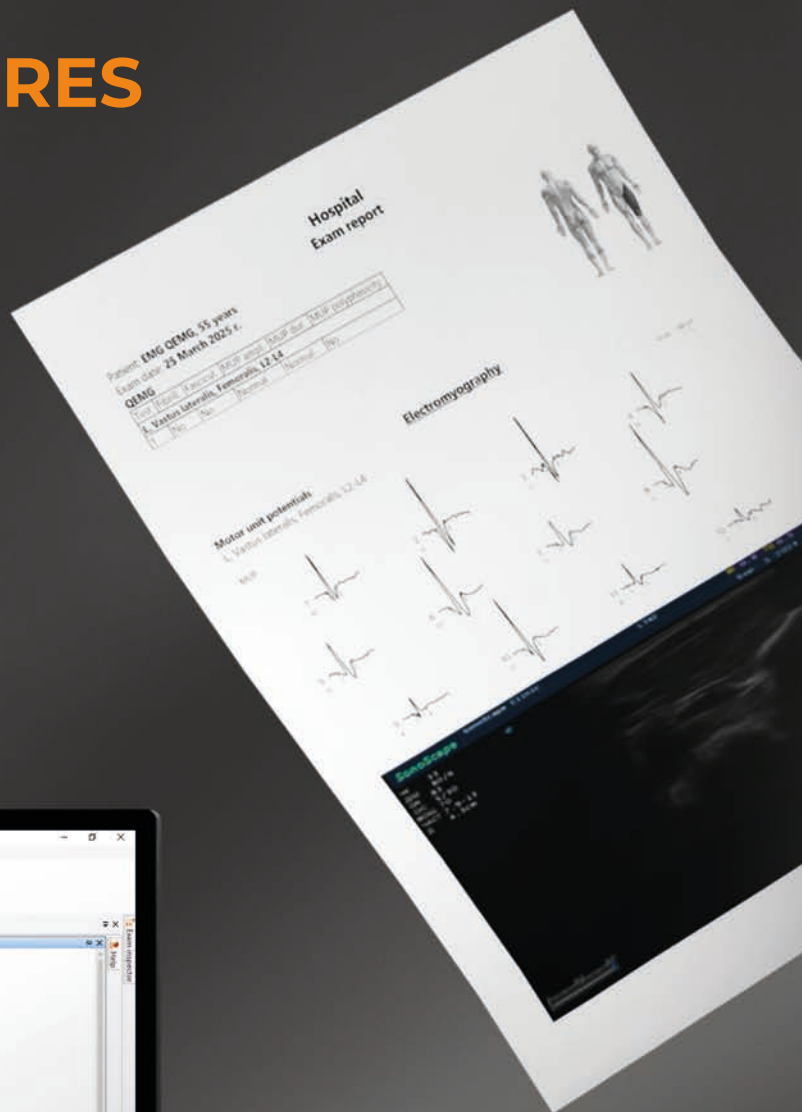
TREMOROGRAPHY

Tremorography allows for quantitative assessment of tremor to get the objective data. For tremorography, percutaneous electrodes can be used to record contractions of the muscles involved in the mechanism of tremor. You can also use mechanomyography (MMG) sensors to record acceleration of the limb position in space. Using a multichannel amplifier or multiple MMG sensors, it is possible to record tremor from different limbs simultaneously. After recording, frequency-amplitude analysis of the obtained data is done, represented as numerical and graphical data.

NEURO-MEP.NET SOFTWARE FEATURES

EASYWAY REPORTING

The exam results can be summarized in a report, which is automatically generated by the software. The report includes the patient's data, tables, graphs and native curves of the tests performed. **You can also add nerve ultrasound images to get the full scope of information.** The software has an exceptionally wide range of possibilities to tailor the report to any needs of the specialist.



HELP WINDOW

The Help function is very useful for EMG beginners. During any test, for example, when studying the radial nerve conduction velocity, you can press the F1 key, and the software will open a window with an upper limb image showing the correct placement of recording, ground and stimulating electrodes.

ALL EP MODALITIES IN BASIC DELIVERY SET

NeuroMEP has a stimulator unit with built-in control channels for auditory (headphones, bone vibrator, insert audiometric earphones), visual (flash, reversal pattern) and electrical stimulators. This allows the system to be used for 4-channel recording of evoked potentials of all modalities. An array of stimulation, filtering and averaging algorithms make it possible to obtain high-quality waveforms in an incredibly short period of time.



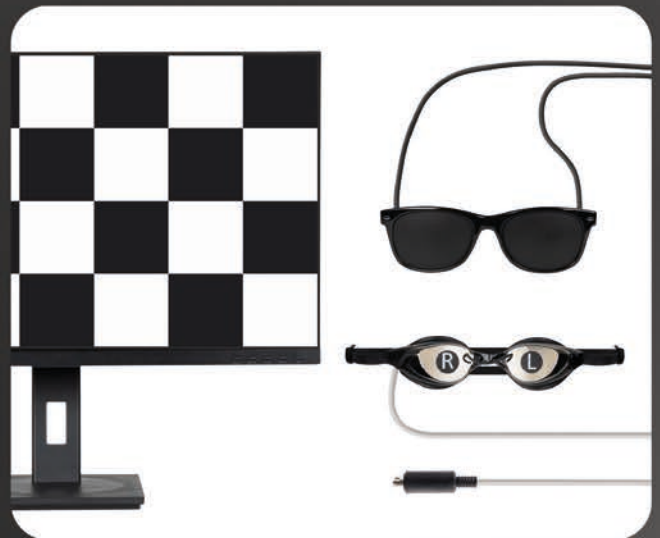
LONG-, MIDDLE- AND SHORT-LATENCY
AUDITORY EVOKED POTENTIALS



COGNITIVE EVOKED POTENTIALS,
INCLUDING P300, CNV, MMN, MRCP, N400, P50



SOMATOSENSORY EVOKED POTENTIALS
WITH STIMULATION OF UP TO FOUR LIMBS



VISUAL EVOKED POTENTIALS

EMG PRODUCT LINE

	EMG/EP CHANNELS	ELECTRICAL STIMULATION CHANNELS	INCLUDED TECHNIQUES	CONFIGURATION
 Litebox	3	1	EMG, NCS	
 Neuro-MEP-Micro	2	1	EMG, NCS	All-in-one, connection to PC and power supply via USB cable
 Skybox	5	2	EMG, NCS, EP	
 Neuro-MEP-4/8	4/8	1/2	EMG, NCS, EP	Modular design powered via USB
 NeuroMep	4	1/2	EMG, NCS, EP	Dual-unit design: an EMG unit (amplifier with a built-in electrical stimulator) and a stimulator unit



www.neurosoft.com, info@neurosoft.com
 Phone: +7 4932 95-99-99
 5 Voronin str., Ivanovo, 153032, Russia



Up to 2-year warranty



24/7 customer support



Software updates



Educational videos