

Neuro-MEP-Micro

2-Channel Portable Digital EMG and EP System
with a Built-in Miniature Dedicated Keyboard



With new software on .NET platform

Electroneuromyography

motor and sensory nerve conduction study (NCS), F-wave, H-reflex (also including paired stimulation),
motor and sensory inching

Electromyography

spontaneous activity, interference curve, motor unit potentials (MUP)

Neuromuscular junction

repetitive stimulation, jitter (single fiber EMG)

Motor unit number estimation (MUNE)

Additional EMG techniques

blink reflex, sacral reflex, bulbocavernous reflex, T-reflex*, galvanic skin responses

Somatosensory evoked potentials (SEP)

Transcranial magnetic stimulation (TMS)**

Heart rate variability (HRV)***

Digital EMG and EP system **Neuro-MEP-Micro** can be supplemented
with **Neuro-EP** software and set of stimulators for short-, middle-
and long-latency auditory, visual and cognitive (P300, MMN, CNV) EP study



Medical Diagnostic Equipment Development and Manufacture

Neuro-MEP.NET Features

Electroneuromyography:

- registration and analysis of M-wave characteristics and sensory action potential
- evaluation of motor/sensory conduction velocity
- F-wave, H-reflex (also including paired stimulation) parameters study
- magnetic stimulation of spinal roots and peripheral nerves with the further classic analysis of motor response**
- blink reflex, sacral reflex, bulbocavernosus reflex, T-reflex*, galvanic skin responses
- motor and sensory inching

Neuromuscular Junction Study:

- analysis of M-wave decrement during repetitive stimulation of motor nerve
- tetanization and posttetanic phenomena study
- user-defined stimulation algorithm creation

Motor Unit Potentials (MUP):

- registration and analysis of spontaneous activity phenomena
- detection of MUP in automatic and manual modes
- automatic analysis of MUP parameters, determination of denervation-reinnervation process stage

Motor Unit Number Estimation (MUNE):

- registration and semiautomatic analysis with evaluation of motor unit quantity by incremental technique

Somatosensory Evoked Potentials (SEP):

- short- and long-latency SEP

Spontaneous and Interference Electromyography:

- spontaneous activity
- turn-amplitude analysis of interference EMG
- amplitude-frequency analysis of interference EMG
- spectrum analysis of interference EMG
- rectified EMG
- EMG sound playback

Transcranial Magnetic Stimulation (TMS)**:

- determination of central motor conduction time of patients suffering from nervous system demyelination diseases, in particular, multiple sclerosis
- automatic calculation of root delay at F-wave and magnetic stimulation combined study

Auditory Evoked Potentials (AEP)***:

- registration of short-latency (brainstem), middle- and long-latency AEP
- objective audiometry

Vestibular Evoked Myogenic Potentials (VEMP)***:

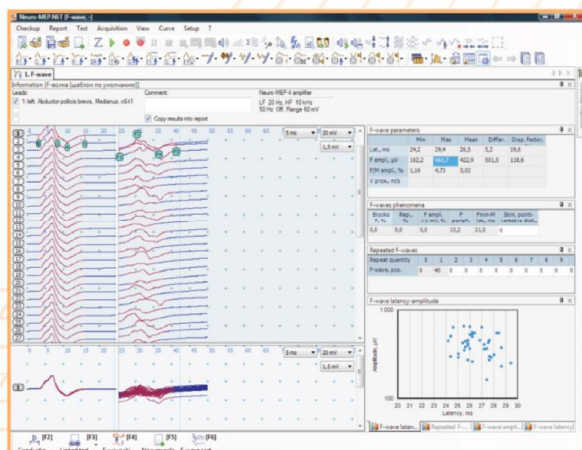
- registration of VEMP in patients with Meniere's disease, superior canal dehiscence, vestibular neuritis, multiple sclerosis, migraine, spinocerebellar degeneration

Visual Evoked Potentials (VEP)***:

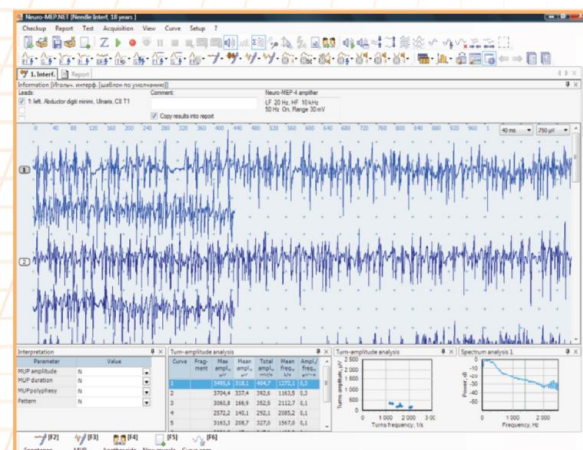
- registration of flash visual evoked potentials
- registration of reversal pattern visual evoked potentials

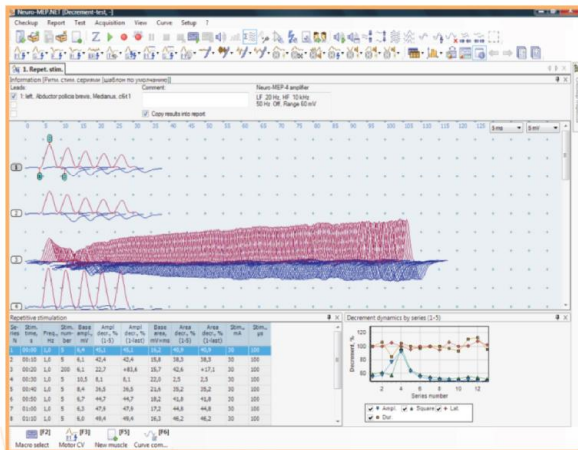
Heart Rate Variability (HRV)***:

- frequency-domain analysis of heart rate
- cardiovascular reflex tests performing

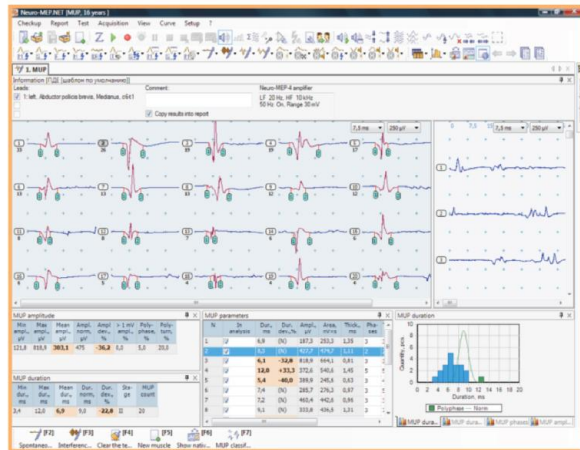


F-wave

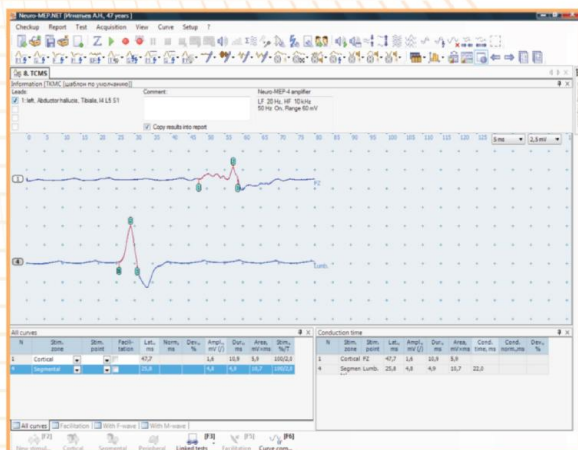




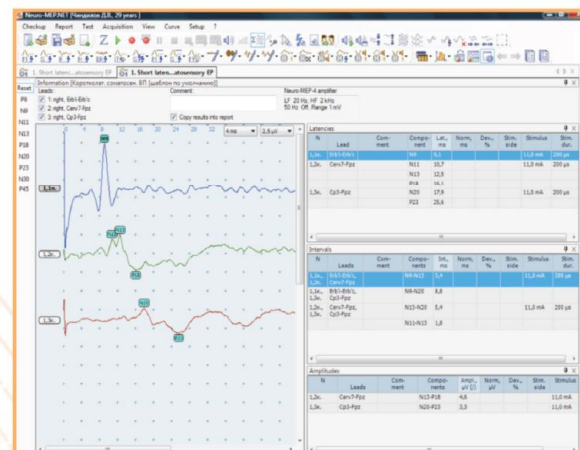
Repetitive stimulation



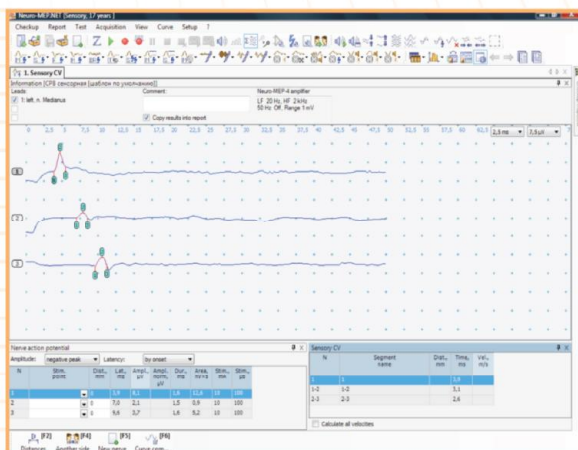
MUP



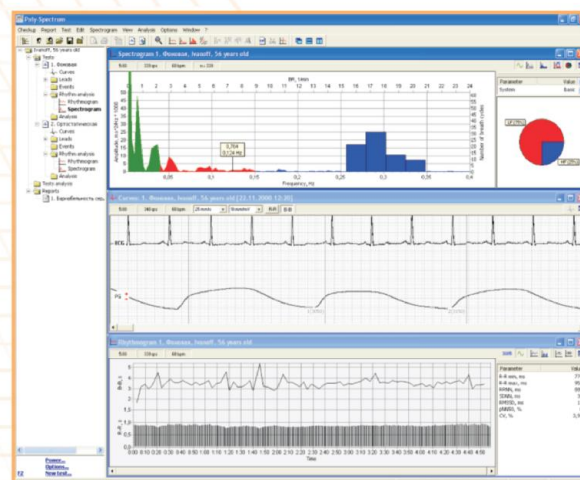
TMS



SEP



NCS. Sensory conduction velocity



HRV

- * if tendon hammer is available
- ** if Neuro-MS magnetic stimulator is available
- *** if corresponding accessories and software are available

Base Delivery Set

- Electronic unit
- Set of EMG electrodes:
 - Surface electrode – 2 pcs.
 - Bar electrode – 2 pcs. (pediatric and adult)
 - Ring electrode with cable
 - Ground electrode with cable (pediatric) (250 mm)
 - Ground electrode with cable (adult) (400 mm)
 - Reusable concentric needle electrode – 2 pcs.
 - Adapter for needle electrode connection
 - Disposable surface electrode (set of 100 pcs.)
 - Adapter for disposable electrodes connection with Alligator clip (20 cm) – 2 pcs. (red and black)
- Cup electrode with cable – 5 pcs.
- Pup-jack linker
- Stimulating bar electrode with replaceable steel and felt stimulation pads (adult)
- Measuring tape
- Electrode adhesive paste (100 g)
- Abrasive paste for skin preparation (160 g)
- Electrode gel (250 g)
- Software
- User and technical manuals
- Transportation bag



Extra Delivery Set

- Footswitch
- Temperature sensor
- Tendon hammer
- Dedicated keyboard
- **Neuro-EP** – software and equipment for short- and long-latency EP
- **Poly-Spectrum-Rhythm** – software and equipment for heart rate variability (HRV) analysis
- **Neuro-MS** – magnetic stimulator for diagnostic and therapeutic exposure on cerebral cortex motor zones, stimulation of spinal cord and peripheral nervous system

See Also



Neuro-MEP-4

Neuro-MEP

4/8-channel digital EMG and EP system:

- Sampling rate – up to 160000 Hz, A/D converter – 16 bits, bandpass – from 0.02 up to 10 000 Hz
- Modular architecture: all the units included in the digital EMG and EP system are connected to the computer via USB interface which allows combining them flexibly to arrange the configuration satisfying your requirements



Представител за България

Илан Медицинска Апаратура ООД

гр. Варна, ул. Кирил Шиваров 9 Б

тел. 0700 17373, факс 052 612258

e-mail: office@neurosoft.bg

www.neurosoft.bg