LITEBOX

3-channel NCS, EMG and EP system



EVERYTHING POSSIBLE IN EMG IS EASY WITH LITEBOX!



STILL WIDER **HORIZONS**

- 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 (NEW)
- Neuromuscular junction repetitive stimulation, jitter
- Motor unit number estimation (MUNE) including **MUNIX** NEW
- Additional EMG techniques blink reflex, sacral reflex, bulbocavernosus reflex, T-reflex¹, galvanic skin response, tremor, RIII
- 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** (NEW)
- Transcranial magnetic stimulation (TMS)²
- Intraoperative neurophysiological monitoring (IONM)
- Heart rate variability (HRV)³
- Electroretinography (ERG, including multifocal ERG)3
- if tendon hammer for T-reflex recording is available
- if magnetic stimulator is available if corresponding equipment is available



OPPORTUNITIES IN A COMPACT FORM



Two software switchable stimulator outputs for two stimulating electrodes.



All what you need for evoked potential acquisition: built-in auditory-visual stimulators with outputs to connect pattern monitor, LED goggles for VEP and headphones for AEP. Auditory stimulator features click and tone pulse waveforms.









Three acquisition channels for **really quick** NCS, EMG and EP studies.

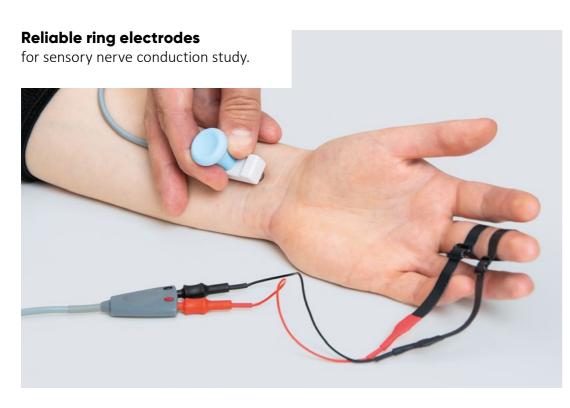


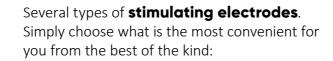
much longer!

sensory response using the second channel and needle EMG using the third channel. No more cable reconnection, let them serve

Dedicated keyboard for easy control over the examination through quick access to the main actions without computer keyboard and mouse assistance. The keys for stimulus amplitude adjustment, stimulation start, single pulse delivery, impedance measurement, etc. are always at your fingertips.







- adjustable electro stimulating probe featuring built-in stimulation controls and rotation mechanism for changing the angle of the steel stimulation tips and distance between them;
- stimulating bar electrode (adult and pediatric);
- stimulation electrode with steel stimulation points (adult and pediatric).







necessary.

— 25 to 75 mm ——





NCS

The software features dozens of default templates for the nerve conduction studies: motor and sensory conduction velocity measurement for all nerves accessible for stimulation, F-wave, H-reflex, motor, and sensory inching, etc. That is how all well-known and rare NCS techniques become possible. Thanks to the different useful software options (help window, linked tests, hotkeys, and others) the examination promises to be even more comfortable and less time-consuming.

Needle EMG

Acquisition and analysis of spontaneous EMG activity, interference pattern and MUP is done in one window. During spontaneous activity analysis, algorithms of automatic phenomena classification can be applied. While MUP recording, the software automatically detects MUPs and selects those that may be related to one and the same motor unit. When studying interference pattern, the software displays turn/amplitude data cloud in real-time. It allows fine adjusting the muscle contraction and performing this test most properly. On EMG study completion, all main results are shown in one window.

Evoked potentials

For premium-quality EP acquisition Litebox is equipped with highly sensitive and noise-immune amplifiers with very wide bandwidth. Specific stimulation and averaging algorithms ensure good-quality traces at a minimum number of averagings.

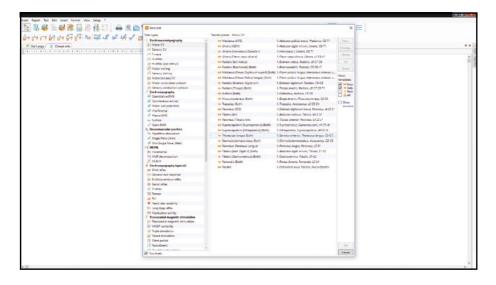
TMS

Magnetic stimulation stands out from the other electromyographic techniques. TMS provides valuable information on the descending efferent pathway status. It allows estimating cortical excitability, measuring conduction velocity in the pyramidal tract, motor pathways and motor nerve roots of the spinal cord. Neuro-MEP.NET software has a wide list of preset TMS test templates with pre-defined automated stimulation sequences, automatic calculation of numerical results and many other pleasant surprises for users who got used to conventional TMS-EMG tests.

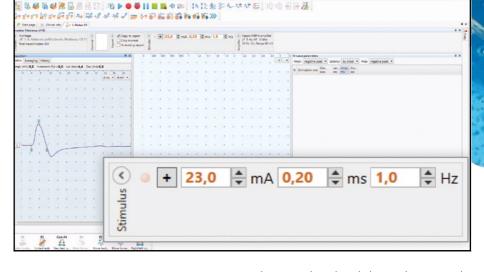
NCS

Measuring motor conduction velocity in 5 quick steps:





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Open the software, enter patient's data, select the test, nerve, and side from the list with just one mouse click.

30 seconds



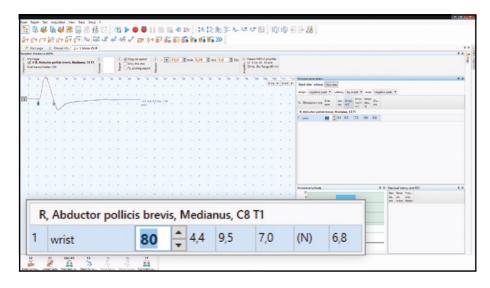
Place the electrodes using our anatomical navigator enabled by clicking F1.

1 minute



Set stimulus amplitude, deliver the stimuli and change their intensity on-the-fly by rotating the knob on the keyboard and then record the response.

1 minute



20 seconds

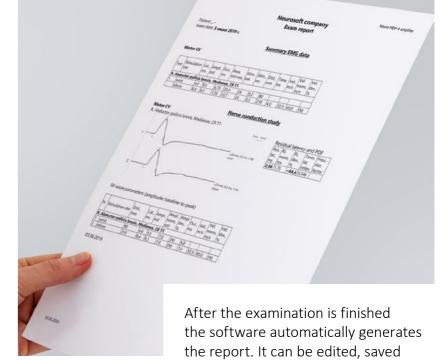
Do the same for next stimulation points, measure the distances between the recording and stimulation sites and enter them in the input box using PC keyboard or knobs (!) on the Litebox.



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> Hotkeys on the device panel or in the software allow switching to the next test or linked tests: sensory CV, F-wave, etc.

20 seconds



or printed.



EMG PRODUCT LINE

	Number of EMG/ EP channels	Number of electrical stimulation channels	Included techniques	Configuration
Litebox	3	1	EMG	
Neuro-MEP-Micro	2	1	EMG	All-in-one, connection to PC and power supply via USB cable
Skybox	5	2	EMG, EP	
Neuro-MEP-4	4	1/2	EMG, EP	Modular architecture: all units conveniently arranged at workplace are connected via USB and make optimal configuration of your
Neuro-MEP-8	8	1/2	EMG, EP	

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