

LITEBOX

3-channel EMG/NCS/EP System with a Built-in Keyboard



- ✓ 3 acquisition channels for quickest examination ever
- ✓ NCS and needle EMG according to international standards
- ✓ All-in-one: stimulators, amplifier, keyboard in single compact and lightweight box
- ✓ Electrical stimulator with unipolar and bipolar pulse waveforms
- ✓ Premium signal quality due to innovative circuits for sophisticated filtering, noise suppression and stimulus artifact reduction

EMG
EP

NEUROMED ✨

EVERYTHING POSSIBLE IN EMG IS EASY WITH LITEBOX!

Today we offer not just another EMG and EP system, but a **comprehensive device to meet the needs of the most demanding users.**

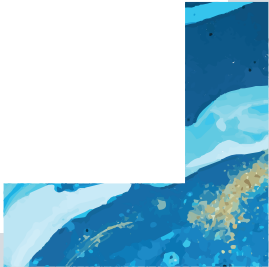
If high performance, effectiveness, ergonomics, usability and time-saving is what you strive for, Litebox is the superb solution for you!





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**
- Neuromuscular junction
repetitive stimulation, jitter
- Motor unit number estimation (MUNE)
including **MUNIX** and **CMAP SCAN**
- 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**)
- Biopotentials during magnetic stimulation²
- Autonomic testing (including Heart Rate
Variability)³



1 if tendon hammer for T-reflex recording is available
2 if magnetic stimulator is available
3 if corresponding equipment is available

NOT

OPPORTUNITIES IN A COMPACT FORM

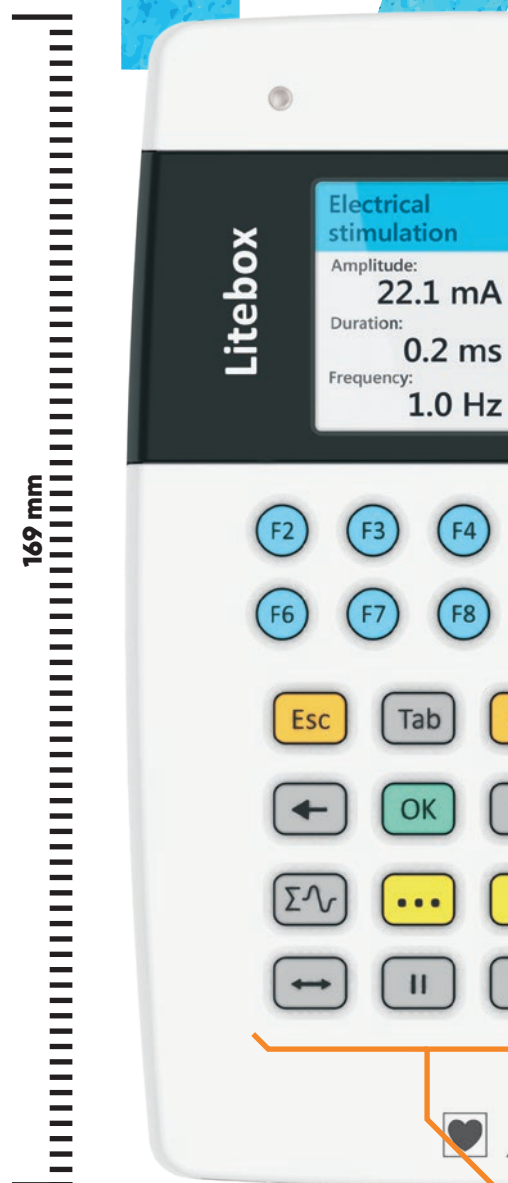


**Bipolar stimulus
waveform for next level
of artifact reduction!**

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.



ABLE



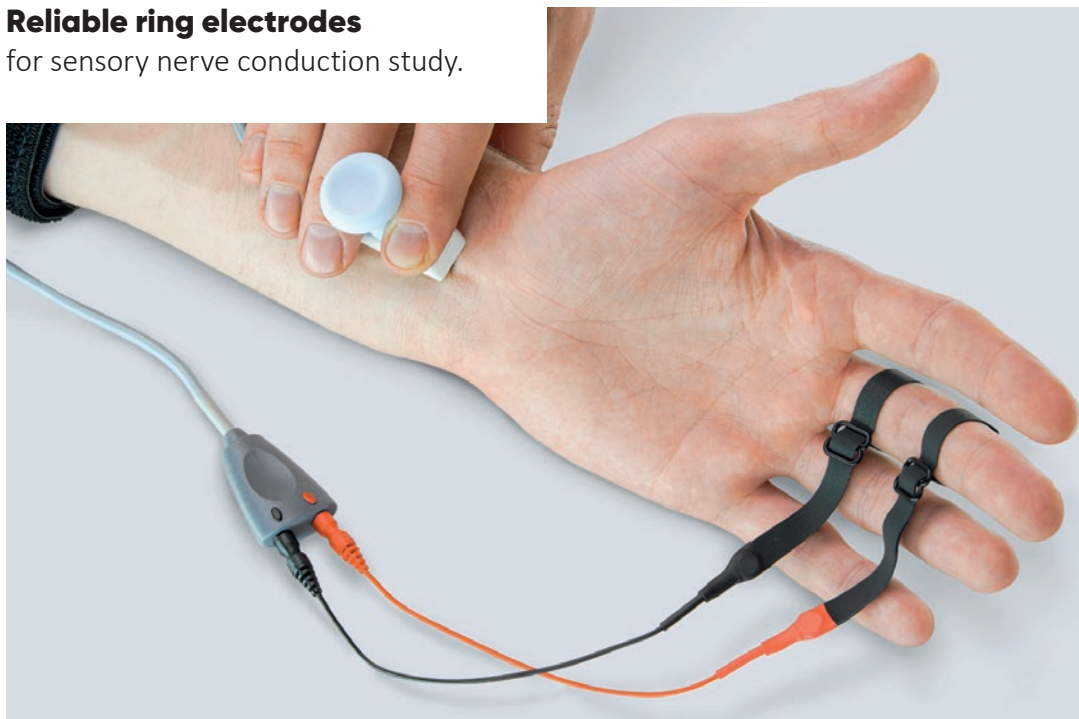
Three acquisition channels for **really quick** **NCS, EMG and EP studies.**



Smooth, quick and simple as one, two, three: record motor response using the first channel, sensory response using the second channel and needle EMG using the third channel. No more cable reconnection, let them serve much longer!

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.

Reliable ring electrodes
for sensory nerve conduction study.

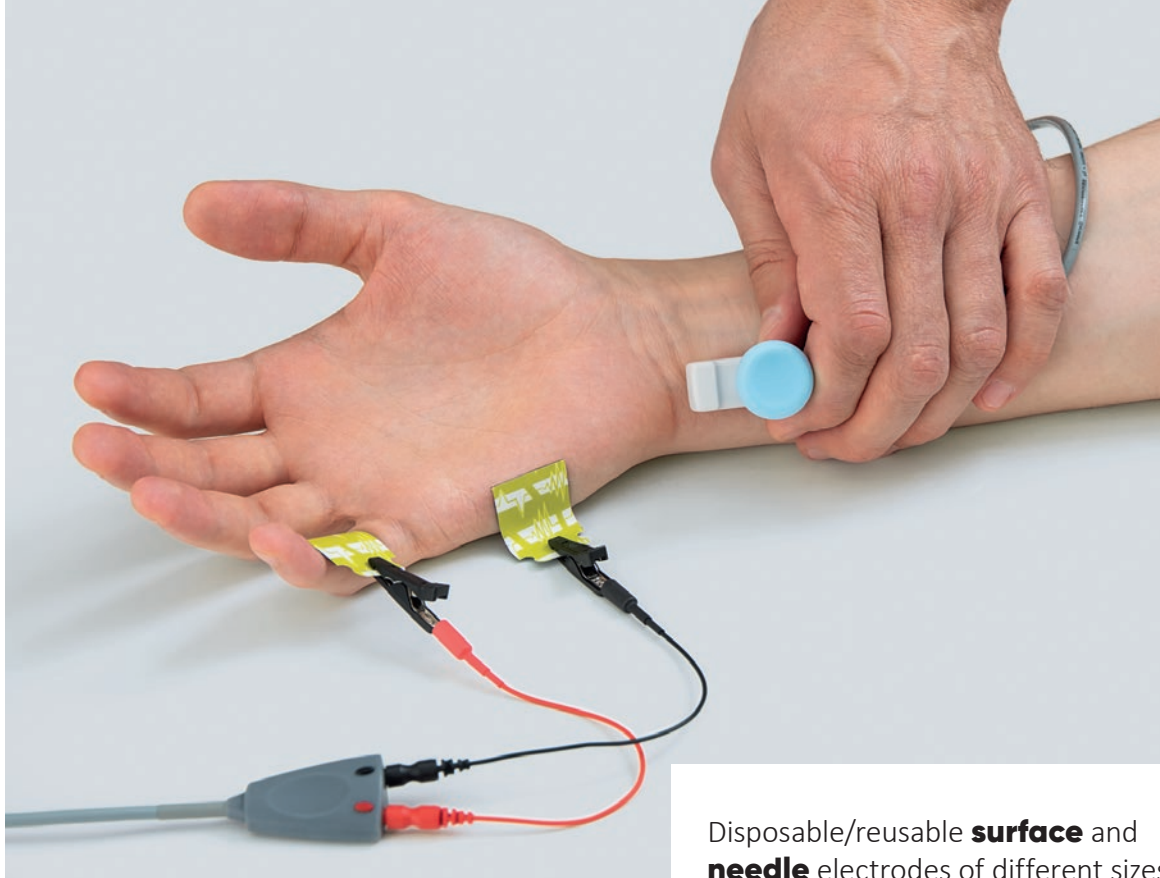


Several types of **stimulating electrodes**.
Simply choose what is the most convenient for
you from the best of the kind:

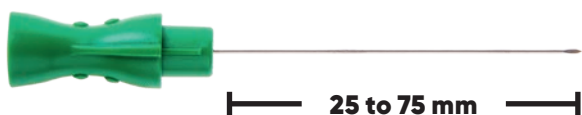
- adjustable electro stimulating probe featuring built-in stimulation controls and rotation mechanism for changing the angle of the steel stimulation tips and distance between them;
- stimulating bar electrode (adult and pediatric);
- stimulation electrode with steel stimulation points (adult and pediatric);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



OF ULTIMATE QUALITY



Disposable/reusable **surface** and **needle** electrodes of different sizes.



Apart from control keys on the device panel the stimulation control is also possible with the **footswitch**. You can assign the desired function to the pedal and change it when necessary.

Intelligent EMG software



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.

The image displays three screenshots of a medical device software interface, likely for cardiac monitoring. Each screenshot shows a multi-lead ECG trace with various control panels and data tables.

Top Screenshot: The interface shows a single-lead ECG trace. The control panel on the left includes a "Setup" section with a "Copy to report" button and a "Only this test" checkbox. The data table on the right lists parameters for the test, including "Comp", "Rate", "Norm", "Dev", "Stim", and "Stim".

Middle Screenshot: The interface shows a multi-lead ECG trace. The control panel on the left includes a "Setup" section with a "Copy to report" button and a "Only this test" checkbox. The data table on the right lists parameters for the test, including "Comp", "Rate", "Norm", "Dev", "Stim", and "Stim".

Bottom Screenshot: The interface shows a multi-lead ECG trace. The control panel on the left includes a "Setup" section with a "Copy to report" button and a "Only this test" checkbox. The data table on the right lists parameters for the test, including "Comp", "Rate", "Norm", "Dev", "Stim", and "Stim".

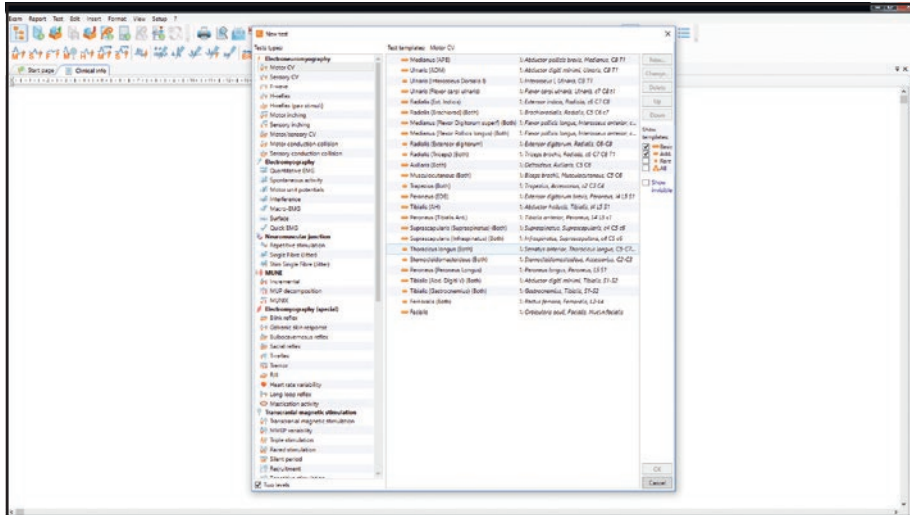
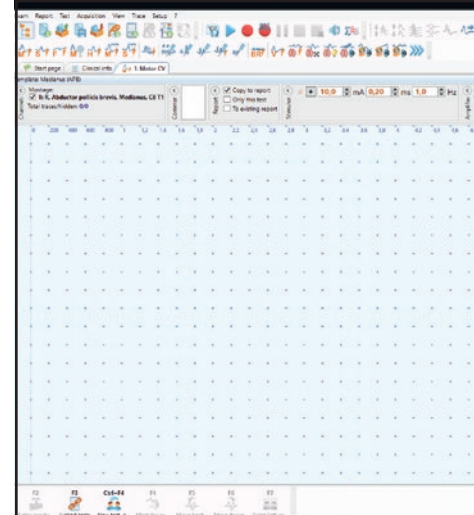
4 according to Neuro-MEP.NET user feedbacks

NCS

Measuring motor conduction velocity
in 5 quick steps:



less than
3.5 minutes
for one nerve!



1

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

30 seconds

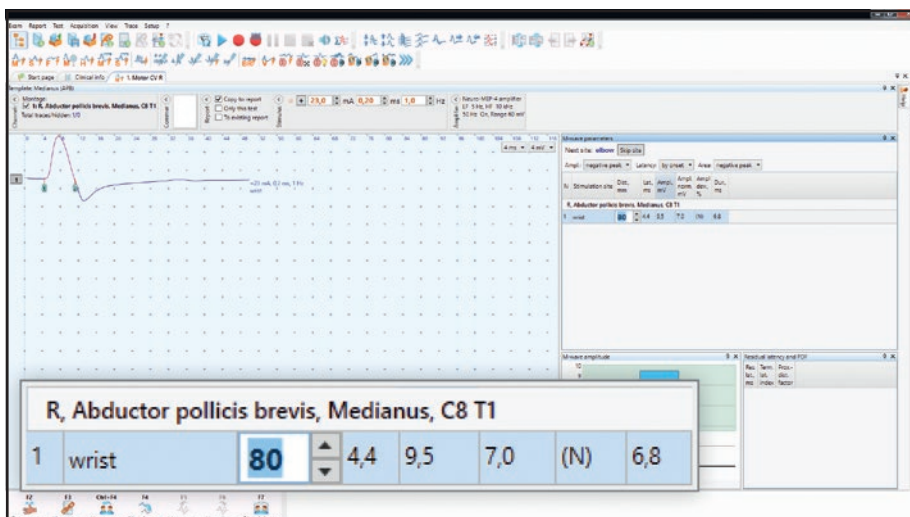
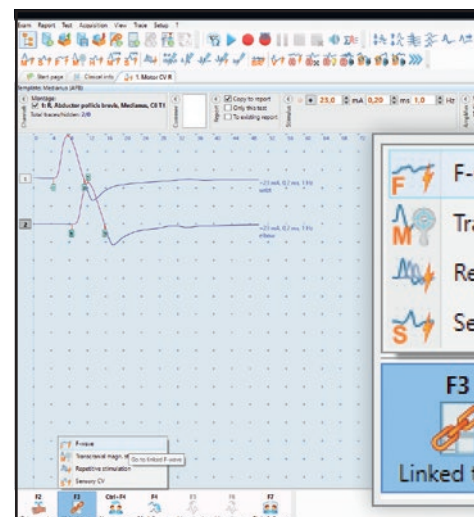
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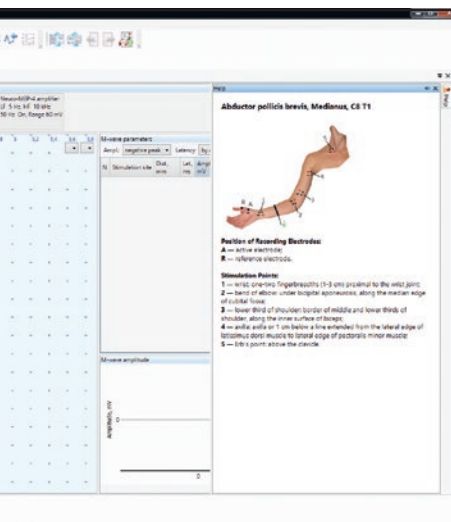
4

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.

20 seconds

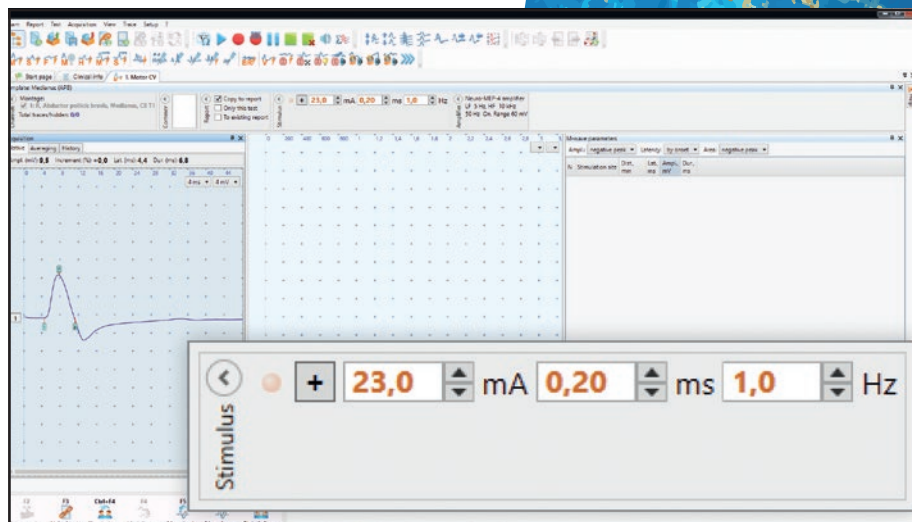
5





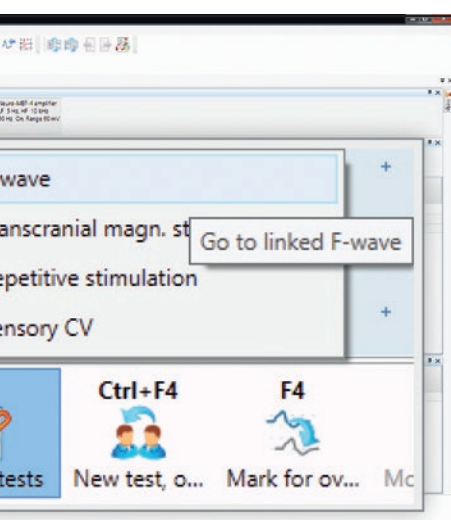
Place the electrodes using our anatomical navigator enabled by clicking F1.

1 minute



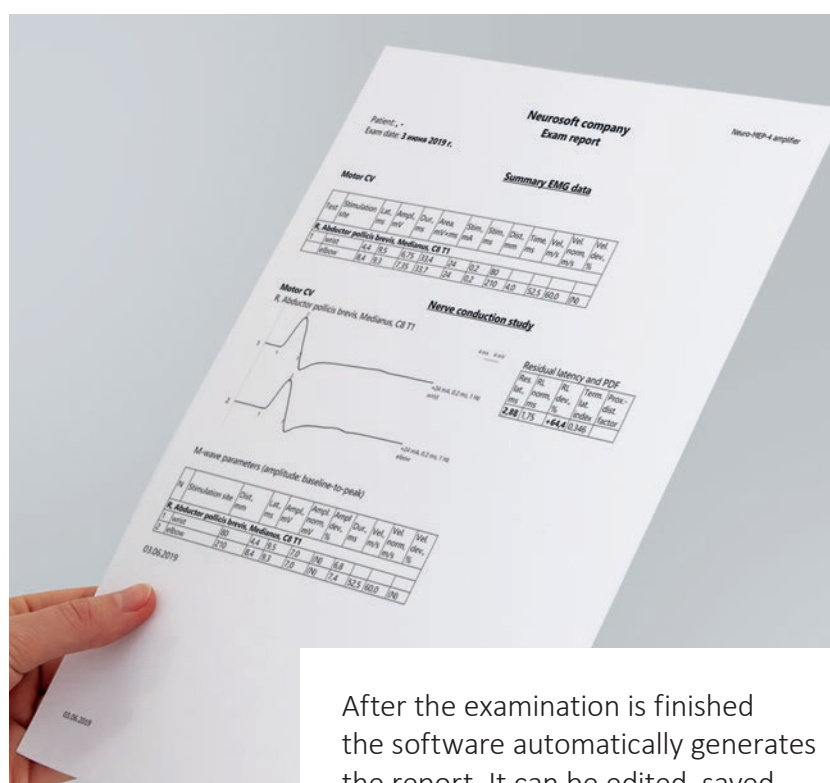
Set stimulus amplitude, deliver the stimuli and change their intensity on-the-fly by rotating the knob on the keyboard and then record the response.

1 minute



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



After the examination is finished the software automatically generates the report. It can be edited, saved or printed.

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