

Neuromyoanalyzer NMA-4-01 “Neuromyan”

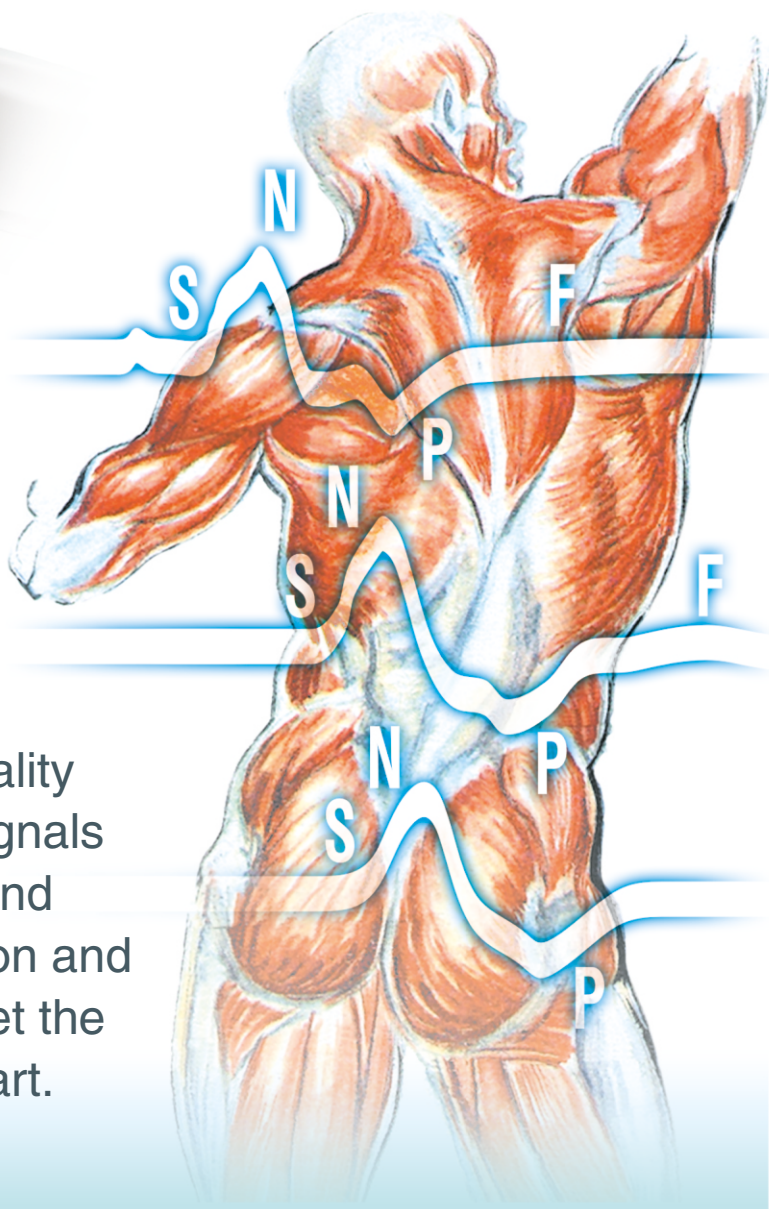
**For neurological & functional diagnostics,
sports medicine & scientific research**



2, 4 or 5–channel modifications
and different software versions
provide both inexpensive and
expert class devices.

Electroneuromyograph with option of brain evoked potentials study

Our devices ensure high–quality
registration of myographic signals
and evoked potentials, fast and
convenient research execution and
high noise immunity that meet the
requirements of state of the art.



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Taganrog

MEDICOM MTD

Research & Development Limited Company



Wide range of functional capabilities is determined by combination of software variants and neuromyograph's modification

Technical characteristics



- 2, 4 or 5 galvanically insulated channels of EMG/EP amplifiers;
- generators of photo-, phono- and electrostimulation signals;
- USB interface for PC communications;
- synchro in/out for connection of reversed pattern sensor, Reflex Hammer with Impact Sensor;
- sampling rate – 50 kHz (up to 200 kHz with oversampling) per channel;
- AD converter – 24 bit;
- sensitivity: 0,2 – 10 000 μV /grade (15 grades);
- input impedance: 100/20 $\text{M}\Omega$ / pF;
- noise level maximum (RMS) 0,6 μV within the frequency band 10 Hz – 10 kHz;
- adaptive filter of power line disturbances;
- common mode rejection ratio minimum 110 dB at 50 Hz frequency;
- passband lower limit: 0,01 – 500 Hz;
- passband upper limit: 10 Hz – 20 kHz.

Neuromyograph analyzer
is manufactured in 3 modifications

Remote controller (RC) combined with electrostimulator

RC simplifies carrying out repeated standard studies without using a PC mouse and a keyboard.

- Functions as a traditional keyboard of neuromyograph and electrostimulator's handle at the same time;
- "Quick start" of a new examination program using RC speeds up the analysis of combined and symmetrical nerves and muscles;
- buttons and wheel-regulator of RC are of different functional purpose for each examination program, which allows optimizing main actions carrying out;
- RC is connected to amplifier unit via a wired interface.



Managing neuromyograph
with remote controller is as easy
as managing a cell phone

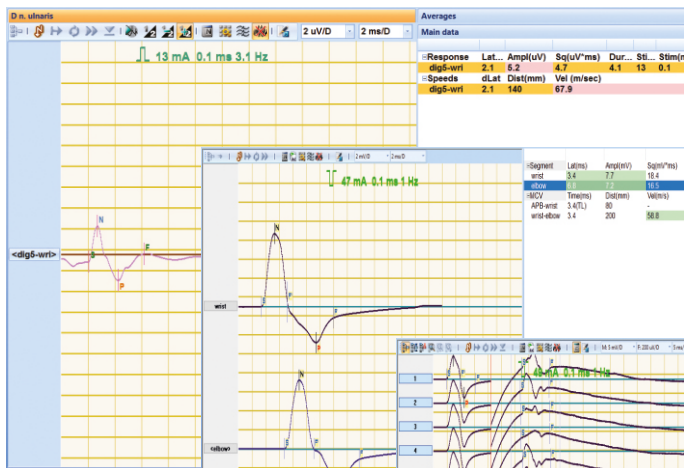
Footswitch

connected to the USB of a personal computer simplifies a myographic study progress, providing operational control of data recording modes and stimulation, and making doctor's hands free for manipulations with the electrodes.

Software reversal pattern (chess pattern) generator

- Stimulation with a pattern reversal is ensured at the additional second Windows USB monitor. Accurate synchronization of stimulation with the record of visual EP is performed by a specific sensor, located on screen and connected to the input Trig In/Out of a neuromyograph.
- Additional monitor can be used as a second monitor Windows for comfortable placing of signal windows, tables, etc.

Basic examination programs of electromyographic studies



Sensory Conduction Studies

Motor Conduction Studies

Rejection algorithm of stimulation artifacts provides record of short nerves responses.

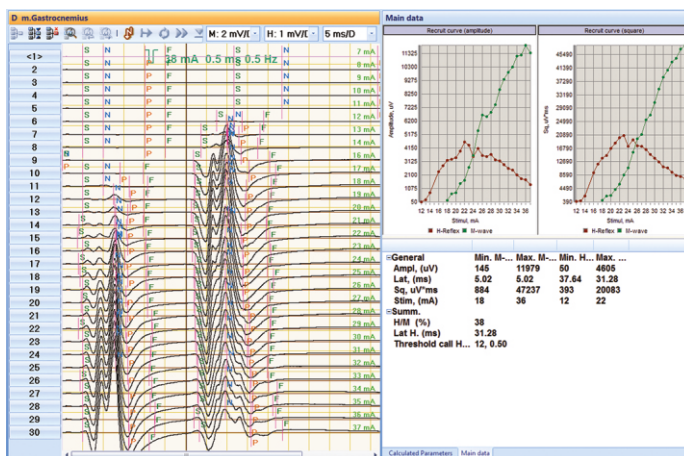
F-wave

Integral tables display the quantity and results of tests carried out, which allows a doctor to define the necessity of carrying out and selection of further tests.

The library of nosologically oriented study strategy saves time for typical studies.

H-reflex

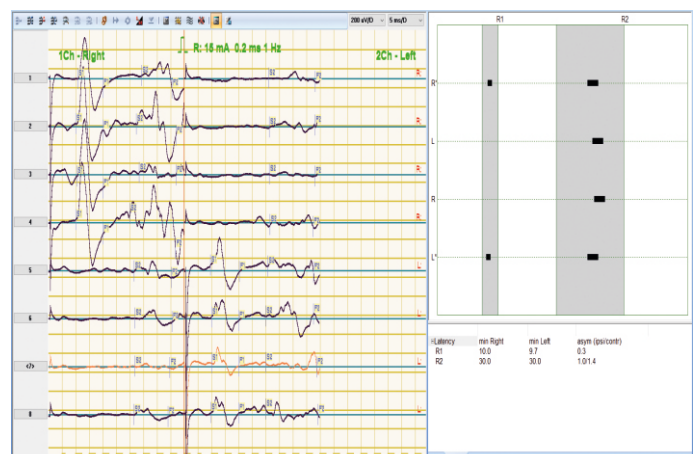
The **Inching** technique is used to localize changes in nerve conduction in natural physiological channels.



Needle EMG provides record of insertional activity, spontaneous activity, motor unit potential and interference pattern.

Blink reflex

Visual graphic form of results presentation displays the damage level.



Evoked potentials studies



Auditory EP

- Brainstem Auditory EP (BAEP);
- Middle Latency Auditory EP (MLR);
- Long Latency Auditory EP (LLR).

Comfortable semi-automatic algorithm of individual hearing threshold selection.

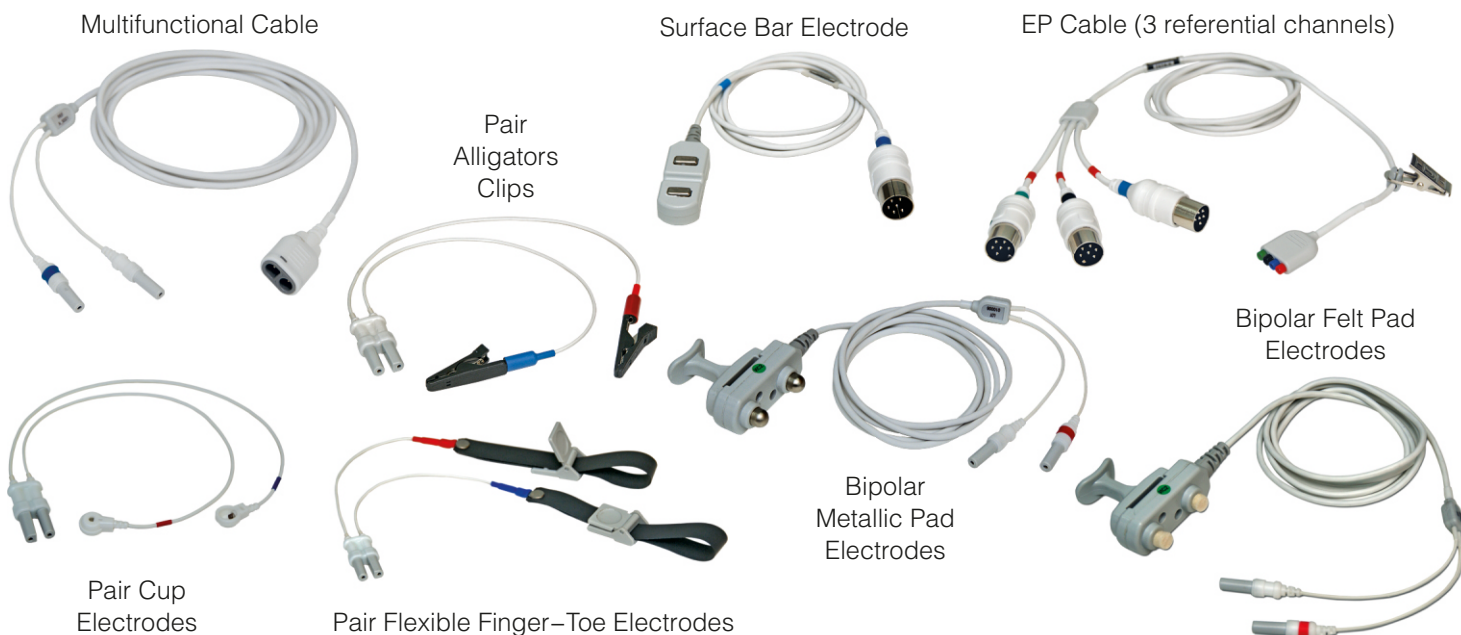
Flash Visual EP (FVEP)* is performed with specified LED goggles.

PRVEP*

Pattern Reversal is displayed on the additional portable USB monitor.

* FVEP and PRVEP correspond to ISCEV (International Society for Clinical Electrophysiology) "Visual evoked potentials standard".

Some electrodes and cables from sales package



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