Neuromyoanalyzer NMA-4-01 NEUROMYAN

НЕЙРОМИЯН®

Profitable correlation of functional capabilities, quality and price

2-, 4- and 5- channel Neuromyoanalyzer modifications

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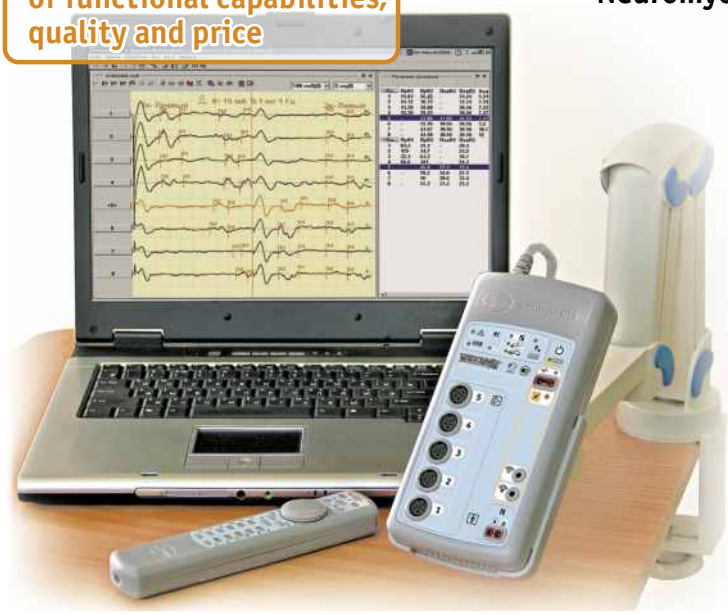
Medical equipment
for functional diagnostics,
neurophysiology and rehabilitation

MEDICOM MTD

BSI™ ISO 13485

UKAS QUALITY MANAGEMENT 003

Profitable correlation of functional capabilities, quality and price



2-, 4- and 5-channel Neuromyoanalyzer modifications.

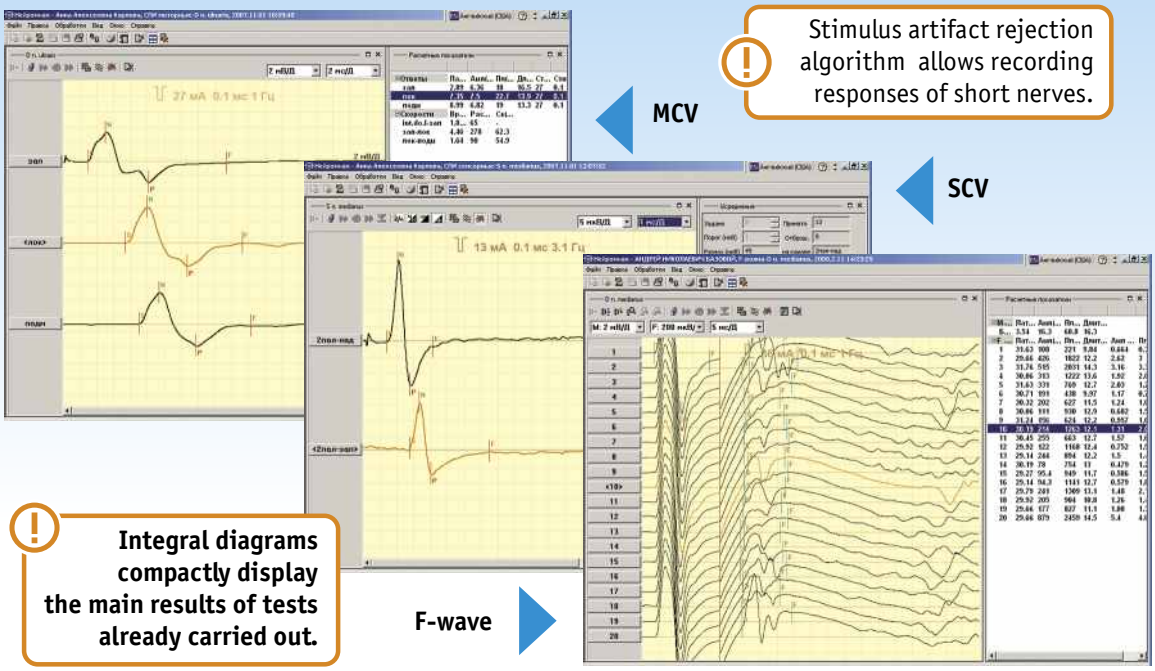
Wide range of different variants of functional capabilities for a user – from inexpensive up to an expert class device; supplied with flexible combinability of software-methodical versions and hardware modifications.

Effectively used in functional diagnostics cabinets, neurological departments, sport medicine and scientific studies.

Computer, patient's block (5-channel modification) on desktop holder and remote controller.

Wireless connection of neuromyograph patient's block to remote controller, pattern stimulator and footswitch significantly reduces the number of connecting cables and increases study comfort both for a doctor and for a patient.

Electromyographic studies



MCV

SCV

F-wave

Stimulus artifact rejection algorithm allows recording responses of short nerves.

Integral diagrams compactly display the main results of tests already carried out.

Patient's block

- 2, 4 or 5 galvanic insulated EMG and EP amplifiers;
- USB interface for connection to PC;
- wireless interface for footswitch, remote controller and pattern stimulator control;
- phono-, photo- and electrostimulation signals generators;
- in/out of synchronization for magnetic stimulator and other devices connection.

Amplifiers

- **sampling rate — up to 200 кHz for a channel;**
- **capacity analog-to-digital converter — 18 bit;**
- **sensitivity:** 0,2–10 000 uV/point (15 grades);
- **input impedance:** 100/20 megohm/pF;
- **band noise level 10 Hz–10 kHz:** not more then 0,6 uV;
- **adaptive power line disturbances filter;**
- **common-mode rejection factor at 50 Hz frequency:** not less then 110 dB;
- **passband lower limit:** 0,01–300 Hz;
- **passband upper limit:** 10 Hz–20 кHz.

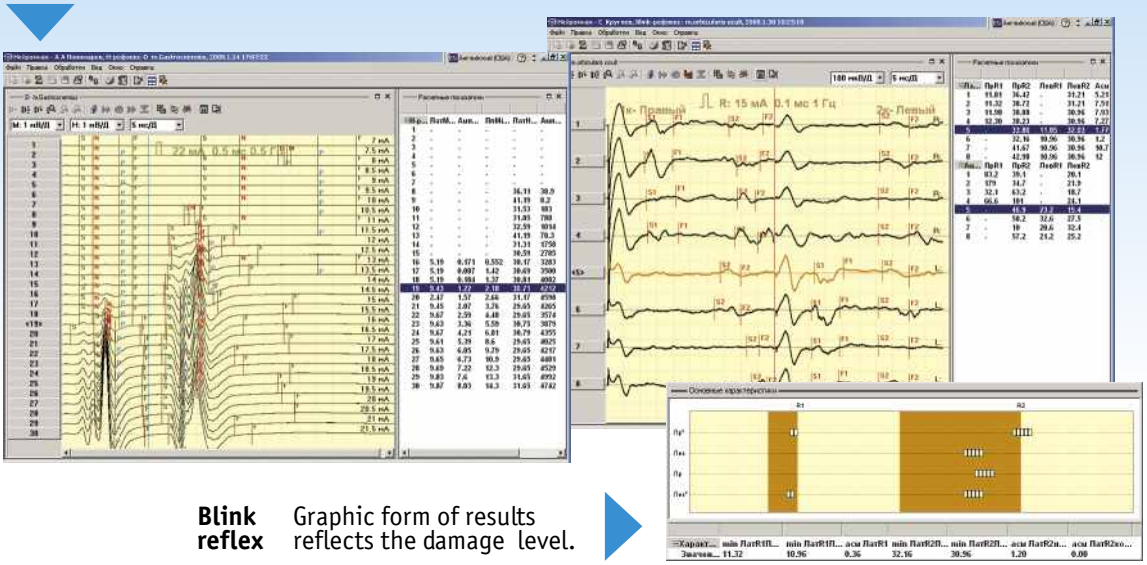
Electrodes

- Current stimulating with fixed electrode gap (for children and adults) with felt or metal end.
- Surface deferent with fixed electrode gap.
- Current fork stimulating (for children and adults).
- Ground surface electrode.
- Needle and cup electrodes.

Electromyographic studies

Rhythmic stimulation There is an opportunity to create the stimulation scenario and carry it out in automatic mode or manually.

H-reflex



Blink reflex Graphic form of results reflects the damage level.

Remote Controller (RC)

In Medicom only!

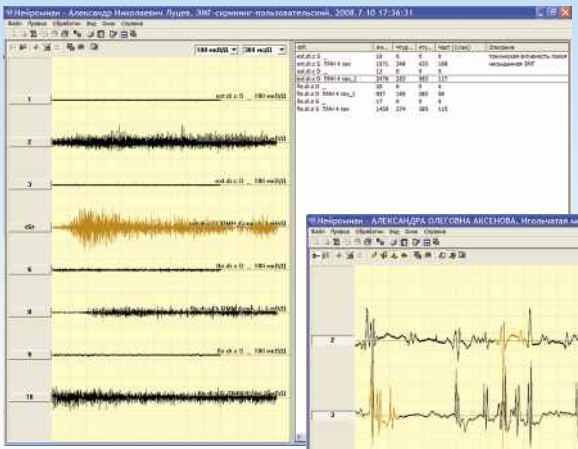
Makes carrying out of repeated standard studies much easier without using keyboard and PC mouse

- used as traditional neuromyograph keyboard and electrostimulator handle simultaneously;
- managing neuromyograph with the help of RC is equal to managing a mobile phone;
- «fast start» of a new test with the help of RC significantly speeds up the analysis of combined and symmetrical muscles or nerves;
- PC buttons and wheel-regulator for each of the test have different meanings and allow performing all the necessary functions.

Wireless footswitch

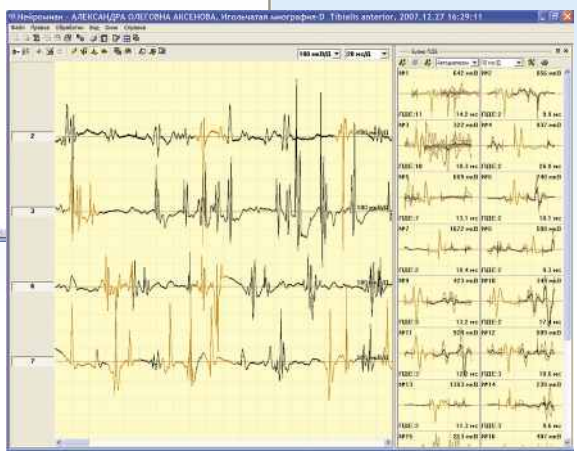
Allows swiftly switching the modes of data record making your hands free for electrode manipulations.

Electromyographic studies



Surface EMG-express

Allows studying many muscles under different function tests.



Surface multichannel EMG

Ensures the study of mutual muscle group work, calculating the reciprocal, synergism, adequacy coefficient.

The library of nosological study scenarios allows saving time in type studies.

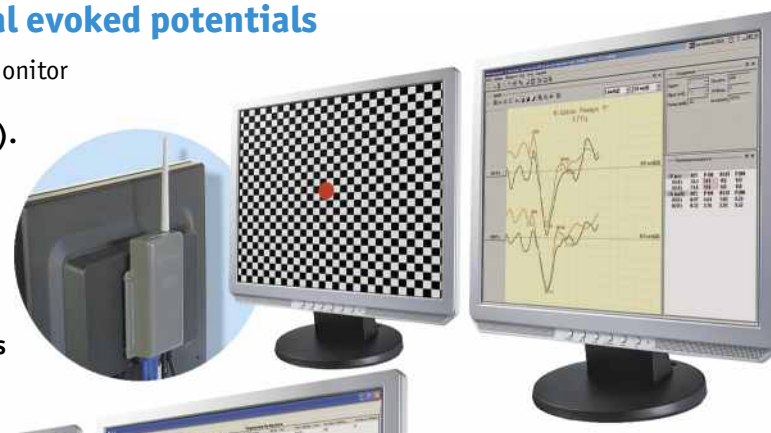
Needle EMG

Allows simultaneous recording different kind of activity, injection, spontaneous, MUP and interferent.

Pattern reversal Visual evoked potentials

The stimulator consists of LCD-monitor and **wireless pattern-reversal checkerboard generator (PRCG).**

Generator is fixed to the back side of a monitor with the help of a standard VESA-100 fixation.



Main stimulator characteristics

- pattern presentation: full screen, one of the halfs, one of the quarters, central part;
- picture type: board, horizontal or vertical stripes;
- picture quality: 800x600 pix, 16 million colours.

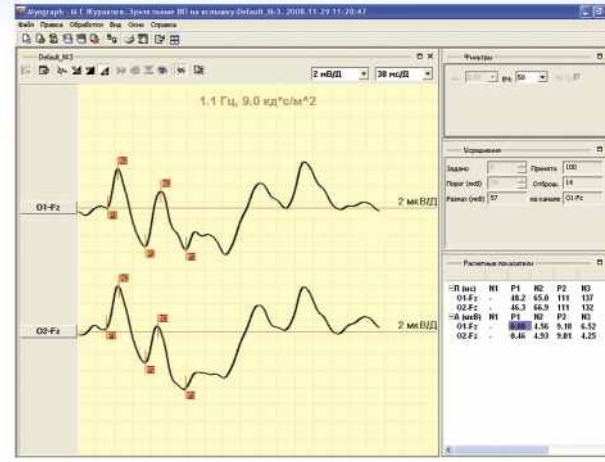
Owing to wireless control a **monitor with PRGC can be located at the necessary cabinet place** over a distance from the doctor's working place.

PRGC monitor can be used as second Windows monitor for comfort location of signal windows, diagrams, etc.

Study of Visual evoked potentials for a light flash

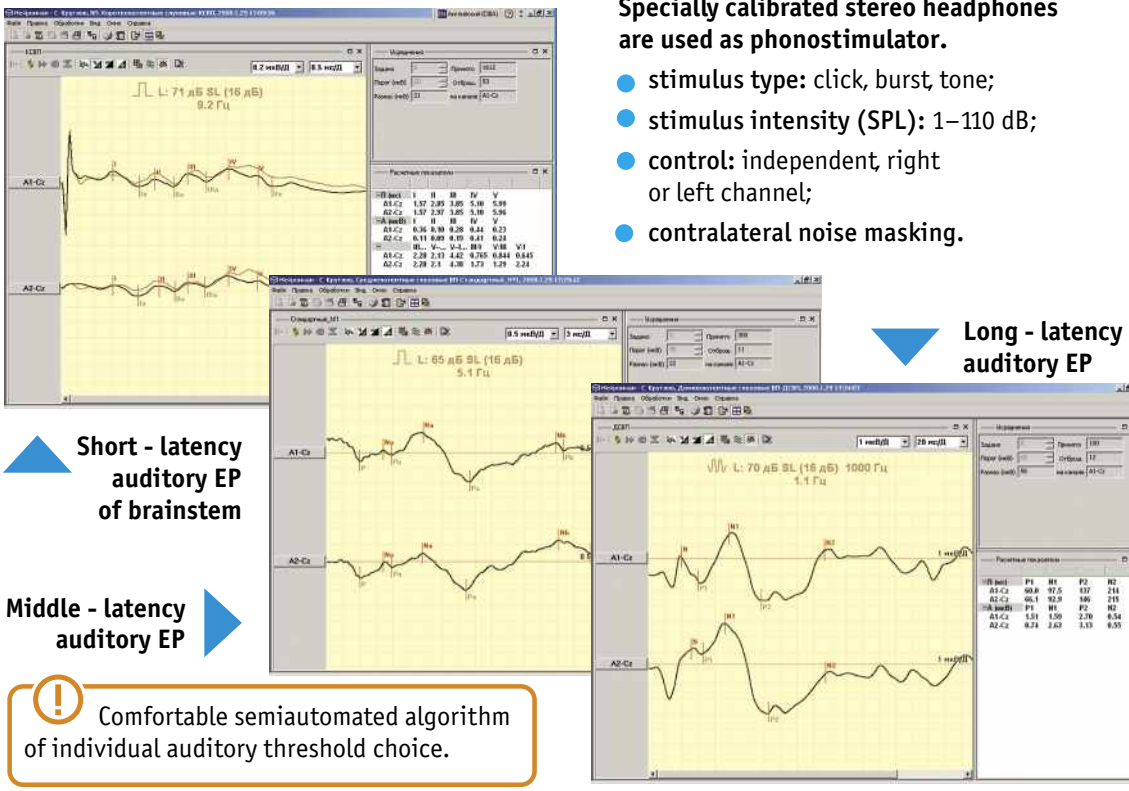
Photostimulation is performed with the help of original "goggles" on the basis of impulse LED.

- stimulation intensity 2250±750 kJ/м^2;
- flash duration: 1,0±0,1 мс;
- field of view: not less then 20°;
- flash repetition rate: 0,2 - 1,6 Hz.



Complies with ISCEV (International Society for Clinical Electrophysiology) **standard «Visual evoked potentials standard».**

Auditory evoked potentials study



Specially calibrated stereo headphones are used as phonostimulator.

- **stimulus type:** click, burst, tone;
- **stimulus intensity (SPL):** 1–110 dB;
- **control:** independent, right or left channel;
- **contralateral noise masking.**

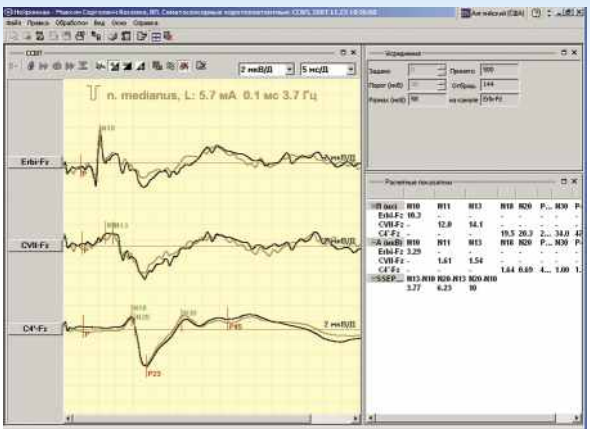
Long - latency auditory EP

Short - latency auditory EP of brainstem

Middle - latency auditory EP

Comfortable semiautomated algorithm of individual auditory threshold choice.

Somatosensory EP study



Short - latency somatosensory EP

Long - latency somatosensory EP

Neuromyoanalyzer NMA-4-01 «NEUROMYAN» has the necessary registration certificates on RF.

The manufacturing is certified according to the international standards ISO 9001:2008 and ISO 13485:2003.

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Please, ask for detailed technical characteristics and specification of the equipment complete set when order.