



MEDICAL EQUIPMENT FOR ELECTRODIAGNOSTICS, NEUROPHYSIOLOGY, AUDIOLOGY AND REHABILITATION

neurosoft.com

DEAR COLLEAGUES!

27 years ago we created our first medical device. Over the years the company has become an expert in electrodiagnostics and neurophysiological equipment and now Neurosoft brand is known all over the world. We have been dedicated to supplying our customers with the best possible clinical and research solutions and try to overcome their expectations. This is ensured by continuous feedback obtained from healthcare professionals working in many medical areas. The cutting edge electronics, the know-how design, and the full-featured performance allow speeding up your workflow and focus on your patients and studies, not the technology.

We continue constantly upgrading and developing our equipment to meet the changing requirements of the market. It made Neurosoft a reliable partner and we also try to transform your ideas and wishes to custom-made product. We operate in more than 80 countries through a well-coordinated network of distributers and provide total support and service including lifetime update of the software.

Our quality management system is certified in compliance with ISO 13485 requirements and our devices are approved for sale in Canada, EU, the USA, South Korea, Brazil, China, Japan, Australia, and many other countries. Before leaving our factory all devices are checked and calibrated and all the units pass multiple tests and controls. Neurosoft stands for accuracy, reliability, durability, and high quality.

This catalogue brings together our full product line. If you have any questions, please visit our website www.neurosoft.com, contact us by e-mail or just call us.

+7 4932 24-04-34 info@neurosoft.com

DEVELOPMENT





2700 employees 60% are engineers

All our products are designed and developed by highly skilled Neurosoft professionals with second to none experience in software engineering, chemistry, physics, acoustics, microelectronics, and power electronics. Our dedicated research and development team stays on top of new equipment and updates to existing equipment thanks to close cooperation with leading medical experts. Fine-tuned at every step of the way, with attention to details, our fruitful ideas are translated into sophisticated solutions.



PRODUCTION 2017

new automated PCB assembly line (SMT) was launched



UV printing was launched

Neurosoft products are not only designed and developed by us but also manufactured at our headquarters. Our production areas are equipped in line with technological progress and our staff is true masters in their field. Conscientious approach and continuous quality monitoring guarantee reliability and robustness you look for. Neurosoft possesses tens of unique manufacturing technologies including cold runner molding technique, soldering of miniature electronic components, calibration of auditory and spirometry equipment, high-speed mechanical processing using the machines with CNC.



RESEARCH

Neurosoft actively cooperates with leading research institutions worldwide. These are our unique developments that allow implementing large-scale experiments and conducting the scientific investigation which results are then used as the basis for the new discoveries in different medical fields. Our developers and medical specialists often participate in this research, provide assistance on equipmentrelated issues and contribute to writing scientific papers.





zafino



Lomonosov Moscow State University



The St. Petersburg Bekhterev Psychoneurological Research Institute

Pirogov Russian National Research Medical University

National Aviation Academy of Azerbaijan Republic



The Chinese University of Hong Kong



Institute of Human Brain



AUSTRIAN INSTITUTE OF TECHNOLOGY



I.M. Sechenov First Moscow State Medical University

VERSITEIT ROTTERDAM

Erasmus University Rotterdam



Institute

ИФОСОВСКОГО

Polenov Neurosurgical



Sklifosovsky Research Institute of Emergency Medicine



University of São Paulo

All India Institute of Medical Sciences

ISSN 2075-5 BRAIN ISSN: 0362-1197 CODEN HUPHOC Ы STIMULATION IOURNAL ГИИ IOLOGY IYSIOLOGY more than 100 scientific www.do-alastitusinal.com and 12 - Normiller X - Senteniber/Tetabler 2011 publications many is service ушения при болезна 2 International Journal of Rehabilitation Research 2018, Vol 00 No 00 Fig. 1 THEM DO THAN BOTTOM Pathophysiology of SUDE ISHING Springer Wolters Klinwe

Aphasic patient, woman, 64 years old. T1-weighted RM sequences 9 months after stroke. The ischemic lesion affected the left (L) basal ganglia and the temporal lobe.

rTMS was applied through a cooled angulated figure-ofeight coil (AFEC-02-100-C) connected to a Neuro-MS/D Therapeutic Variant magnetic stimulator (Neurosoft, Ivanovo, Russia), which provides repetitive biphasic pulses. The coil was held manually in contact with the patient's scalp and guided through the optical navigation system over the right hemisphere. Supraliminal stimuli (about 80% of the maximum stimulator output) were delivered to the primary motor cortex (M1 area) until the 'hot spot' inducing

-

underwent a brief neuropsychological re-evaluation by a trained neuropsychologist (April 2017, T2). Her language was fluent, but affected by frequent anomies and by an increased within-words latency. Language skills were then re-assessed immediately (T3) and 2 months (T4) after rTMS treatment. The battery included the Boston Naming Test (Kaplan *et al.*, 1983) and the Italian version of semantic and phonemic fluency tests (Novelli *et al.*, 1996).

To exclude a nonspecific effect of the stimulation, the

CUSTOMER-FOCUSED SUPPORT

Neurosoft Service Center is a safe pair of hands for customers to rely on. We pride ourselves on providing the full-scope service including medical equipment installation, virtual training, remote Internet setup, software or hardware upgrade. Motivated by customer feedbacks, we always keep up with their needs. We are accessible and answerable by e-mail, live chat or video conferencing. Contact Neurosoft and get it done right the first time!

CONTENTS

ELECTROENCEPHALOGRAPHY EEG, EP, aEEG, VIDEO EEG

POLYSOMNOGRAPHY PSG, CRM

ELECTRONEUROMYOGRAPHY EMG, EP, NCS

INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING IONM

MAGNETIC STIMULATION TMS —15 —27 —32











AUDIOLOGY

ABR, OAE, VEMP, TYMPANOMETRY, AR

ELECTRORETINOGRAPHY

ERG, EP

ELECTROCARDIOGRAPHY

ECG, STRESS TEST, TELE-ECG, AMBULATORY MONITORING

CARDIAC REHABILITATION

STRESS TEST

SPIROMETRY

VC, FVC, MW

CARDIOVASCULAR REFLEX TESTING

HRV ANALYSIS

GAIT AND MOTION ANALYSIS

GAIT ASSESSMENT AND TRAINING











73-

75-

77

79

ELECTROENCEPHALOGRAPHY ≥ 25-YEAR EXPERIENCE



2019

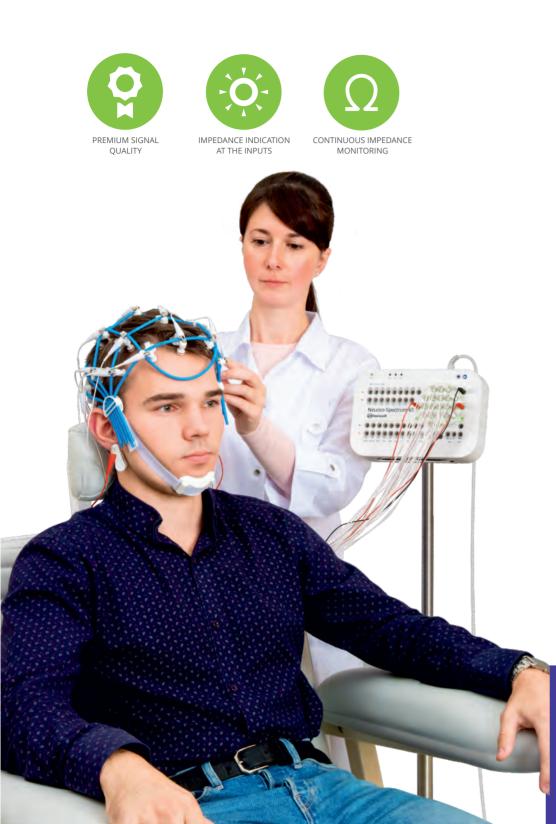
NEURON-SPECTRUM

EEG AND LTM SYSTEMS

Neuron-Spectrum digital EEG and EP systems meet the most exacting demands of the customers: routine EEG, LTM monitoring in intensive care units (including pediatric), cerebral function monitoring (aEEG), diagnosis of brain death, long-term video EEG monitoring, EP and PSG studies.

	NEURON-SPECTRUM- 1/2/3/4/4P	NEURON-SPECTRUM- 4/EPM	NEURON-SPECTRUM-AM	NEURON-SPECTRUM-5	NEURON-SPECTRUM- 61/62/63/64/65
					Mo - XX - XXX - XX - XXX - XX - XX
EEG channels	8/16/19/21	21	21	32	11/19/21/25/39
Extra channels: EMG, ECG, EOG, etc.	1-4	8	9	8	4/4/6/6/8
Included techniques	EEG	EEG, EP, LEP	EEG	EEG	EEG
Options	Video EEG, LEP, PSG, CFM (aEEG), BFB	Video EEG, PSG, EMG, CFM (aEEG), BFB	Video EEG, PSG, CFM (aEEG), BFB	Video EEG, EP, LEP, PSG, EMG, CFM (aEEG), BFB	Video EEG, LEP, PSG, CFM (aEEG), BFB, TMS-EEG
Electrode cap connector	+	+	+	+	+
Interface	Wire: USB, LAN	Wire: USB, LAN	Wireless: Wi-Fi, SD card	Wire: USB, LAN	Wire: USB, LAN





NEURON-SPECTRUM-61..65

A NEW LINE OF EEG SYSTEMS

- Continuous impedance monitoring during acquisition
- Electrode impedance indication at the lead inputs
- Referential and differential channels can work both in AC and DC modes
- Mode button and LED mode indicator (impedance/monitoring/acquisition) on the front panel
- Compatible with Neurosoft magnetic stimulators



Routine EEG, long-term video EEG monitoring (LTM), evoked potentials (EP), polysomnography (PSG), invasive EEG, cerebral function monitoring (CFM) or biofeedback training (BFB) are possible with the brand new Neuron-Spectrum 61..65 EEG systems.

SOLUTIONS

To make your choice easier, we offer a few holistic solutions for the effective and comfortable work. Simply choose the one that fully meets your specific needs and you will get the optimal equipment and software combination.

ROUTINE EEG



NEURON-SPECTRUM-63

- 19–21 referential EEG channels, 1 ECG channel, 6 differential channels for EOG, ECG, EMG
- Disk, cup and bridge electrodes or electrode caps can be applied
- Long-latency EP acquisition: visual, auditory and cognitive
- Dedicated Ref electrode (21 EEG channels), A1, A2 ear electrodes (19 EEG channels), or Cz central electrode (20 EEG channels) can be used as a reference electrode

LONG-TERM VIDEO EEG MONITORING



NEURON-SPECTRUM-64

- 25 EEG channels, dedicated ECG and EOG channels, 6 additional differential channels
- Special electrode caps with built-in electrodes can be applied for long-term EEG monitoring
- Synchronous video monitoring using up to 3 IP cameras
- Automatic spike and other paroxysmal event detection
- 3D localization of pathological activity areas in the brain

CEREBRAL FUNCTION MONITORING



NEUROMONITOR

- Up to 11 EEG channels and 4 polygraphic channels for EOG, ECG, respiration, etc.
- Automatic detection of abnormal aEEG patterns
- Specially designed CFM pod with 2-meter cable for convenient placement at a patient's point-of-care

BIOFEEDBACK TRAINING

POLYSOMNOGRAPHY



NEURON-SPECTRUM-61/BFB

- Multi-channel data recording (EEG, ECG, EMG, respiration, SpO₂, photoplethysmograms, etc.)
- Audio and visual feedback (animation, photo, music, games, video)
- Continuous training success tracking

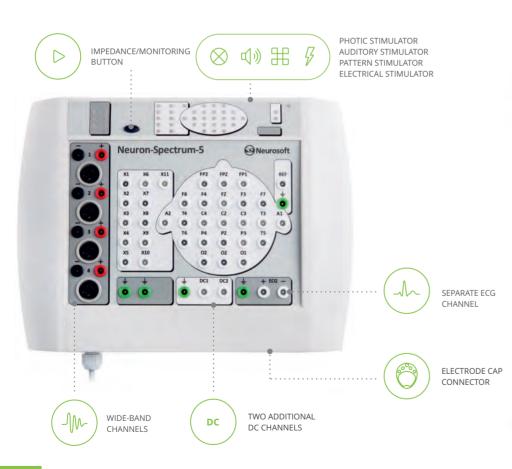
NEURON-SPECTRUM-65

- Full range of PSG channels in compliance with AASM*
 recommendations
- Portable patient unit for quick connection/disconnection
- Synchronous video monitoring
- Manual, semi-automatic and automatic sleep staging and PSG event detection

NEURON-SPECTRUM-5

32-CHANNEL EEG AND LTM EXPERT-CLASS SYSTEM

- Excellent choice for exam rooms, epilepsy centers, sleep laboratories, and research facilities
- 4 wide-band polygraphic channels to record multi-modality EP, EMG, and EOG
- Built-in stimulators: auditory, photic, pattern, and electrical
- Pre-defined configuration for functional tests (background EEG, photic stimulation, auditory stimulation, hyperventilation, etc.)
- Automated EEG acquisition workflow







NEURON-SPECTRUM-AM

AMBULATORY WIRELESS EEG/PSG RECORDER

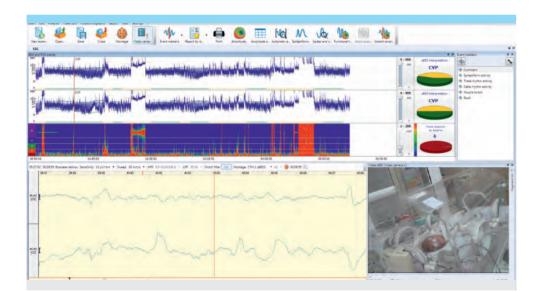
- User-friendly design, portability and a new level of patient's comfort in examination rooms, epilepsy and sleep centers, hospital rooms
- All-in-one: digital EEG system, EEG recorder, PSG system
- Saving of all recorded EEG data to SD memory card with simultaneous data transfer via Wi-Fi allows a patient moving freely within inpatient or outpatient settings with the possibility of signal review during the acquisition
- Separate recording of EEG/PSG data to a memory card and video data using any camera with the following high-precision synchronization make it possible to perform an exam at patient's location



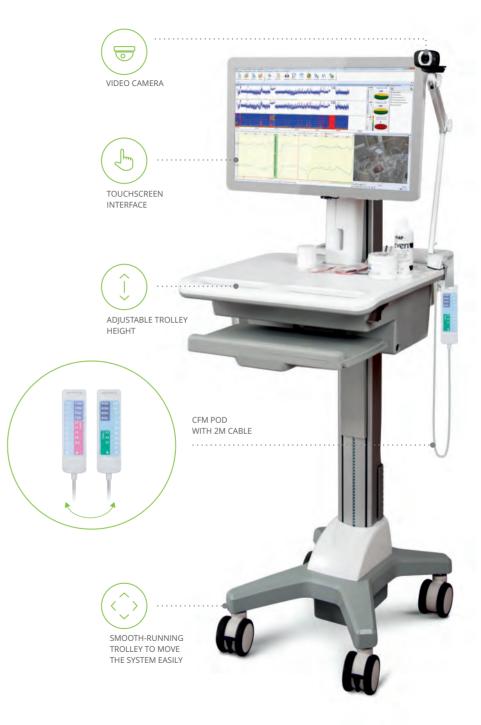
NEUROMONITOR

CEREBRAL FUNCTION MONITOR WITH TOUCHSCREEN INTERFACE

- Trolley-based system for intensive care units
- Fast and convenient to use by neurologists and neonatologists
- Quickly transformed to full-function 8-32-channel (depending on the amplifier model) EEG system for long-term video EEG monitoring
- Synchronous high-resolution video recording
- Automatic detection of abnormal aEEG patterns
- Motion-triggered video recording

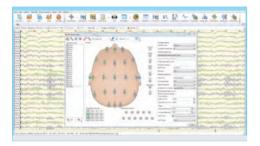


All recorded data is saved to a single database. The raw EEG can be reviewed by EEG specialist, if it is required.

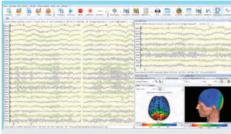




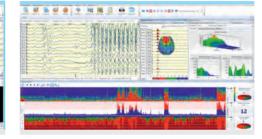
NEURON-SPECTRUM.NET SOFTWARE FEATURES



Creation and editing of EEG montages



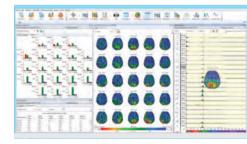
EEG acquisition, reviewing, and analysis

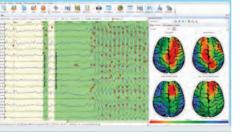


Trends of EEG parameters



Graphs of EEG spectral and coherent analysis results





Brain mapping and bar charts of EEG analysis Automatic detection of spikes and sharp waves results

	M - M - M - 4	🛡 🔜 - 🔮 🚊 PQ 🕺	V Pb un 10 1	Q 10 18 18
No			1000	
- Frank mon the	Landa Maria Landar Maria	the second and	10000	mit hast
a Maria Commence	101201 10212	12212		
- and the second second	AUX		and the state	No. Conception of
and the first of the second se	Carl Car		WI N G m	name and the
and the family of the state of the		1 22 1 23	2 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 .	and the second
and the second second	100 TOLAN	TIMIT	TTE A Mile	a monorigination
- Carl Content of the second			A Carlow	Heaven to have going
the stand of the stand of the stand			A DAY AND	
and the state of the state of the				Unuthing Warhant
	L T AND T T T		And TT Mart	-Alaster That any alkalitat
and there is a set of the set of	m 1	The The	11	Transferrante Manufacture
- Contraction and and			A. Com	WAS - WINDOW WAR
Print and Printer of Long Street Street Street	1	1. 6. 1. 61	1. 6.1	the second s
all matting and have been			St . St man	- Anthene and
Tunkowilly compress	1 1 Amp 1 1 4	1 1 2 Aug 2 3	Jan Part Mar	adapter and the second add in
an first - show differenties	101	al- mere	Salary Salary	Ninger Material Manglewer of
Name and the party doing the second	state a president strengthere	~ <u>*</u>		

Working with LORETA and sLORETA



Automatically generated report

NEURON-SPECTRUM-VIDEO

LONG-TERM VIDEO EEG MONITORING SYSTEM

- Compatible with any Neurosoft EEG system
- Synchronous video recording from up to 3 cameras
- Day and night video recording with infrared lighting
- LAN connection of EEG amplifier to ensure patient mobility
- Motion-trigged mode for video recording







Synchronous EEG and video recording

Neuron-Spectrum-Video is a system for synchronous long-term recording of EEG, video and audio data with a user-friendly interface and easy-to-use electrode system for enhanced patient comfort. Neuron-Spectrum-5 and Neuron-Spectrum-65 EEG and LTM systems with Neuron-Spectrum-Video software are the best clinical solutions for epilepsy centers. Neuron-Spectrum-AM with ambulatory video monitoring equipment allows recording EEG not only at various healthcare facilities but at patient's home as well.

DUAL-MONITOR MODE



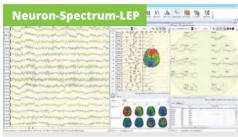
OPTIONS





EVOKED POTENTIALS

hei M 🗗 🗠 🐚 🖧 🛸 416 🐀



Software and equipment to study long-latency EP using multi-channel montage with brain mapping



Software and equipment for short- and longlatency EP study using wide-band polygraphic channels



Software and equipment for EMG, NCS and SEP



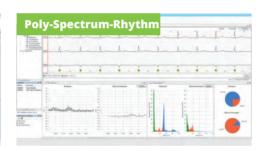
Loreta

Automatic data export to LORETA and sLORETA

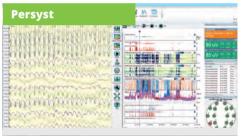


Software and equipment for electroretinography Software for biofeedback therapy



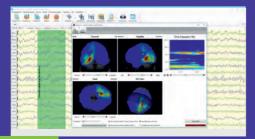


Heart rate variability analysis equipment and software



Integration with Persyst* quantitative EEG system

* Persyst is a Persyst company product (the USA)



3D localization of pathological activity areas in the brain

Integration with EpiSource, EpiSpike and NeuroTrend software (AIT, Austria)



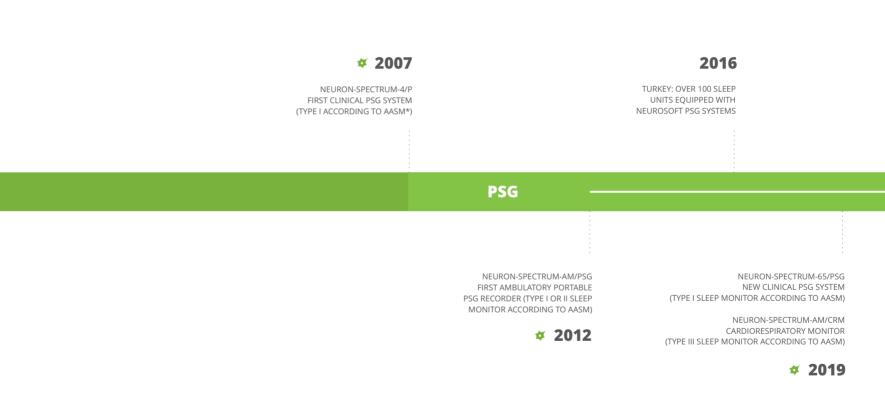
Standardized report generation

Integration with SCORE EEG software (Holberg EEG, Norway)

EEG

In addition, Neurosoft company has collaborated with many well-known manufacturers of systems for EEG analysis, such as NeuroGuide (ANI, USA), BESA (Germany), Epilog (Belgium), QEEGPro (the Netherlands), iSyncBrain (Korea).

POLYSOMNOGRAPHY ≥ 10-YEAR EXPERIENCE



POLYSOMNOGRAPHY SYSTEMS

DIGITAL SYSTEMS FOR PSG AND CRM STUDIES





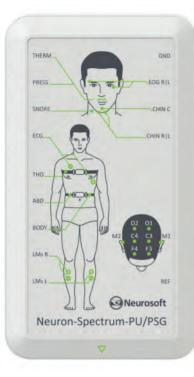
Туре	Clinical PSG system (Type l sleep monitor)	Clinical PSG system and ambulatory portable PSG recorder (Type I or II sleep monitor)	Cardiorespiratory monitor (Type III sleep monitor)
PSG channels	Full range of PSG channels in compliance with AASM recommendations	Full range of PSG channels in compliance with AASM recommendations	ECG, respiration, chest and abdominal movements, snoring, SpO ₂
Expandable for multi-channel EEG	+	+	+
Video monitoring	+	+	+

NEURON-SPECTRUM-65/PSG

CLINICAL PSG SYSTEM (TYPE I SLEEP MONITOR)

- Ready-made solution for your PSG lab
- Full range of PSG channels in compliance with AASM recommendations
- Connection to a portable patient unit
- Synchronous video monitoring
- Sleep staging and detection of sleep-related events
- Advanced analysis methods to speed up PSG data interpretation





PATIENT UNIT

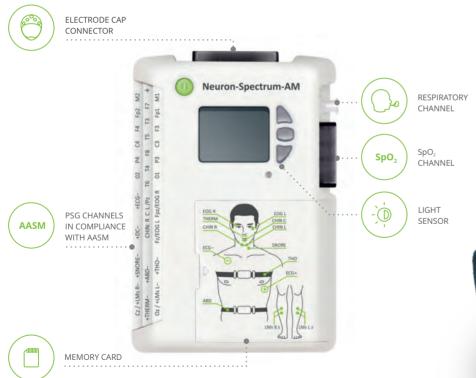
During in-lab PSG study the sensors can be connected to the recorder through the portable patient unit. This allows a patient to disconnect quickly from the recorder (for example in case of bathroom needs) and then connect the sensors back to resume the recording.

NEURON-SPECTRUM-AM/PSG

CLINICAL PSG SYSTEM AND AMBULATORY PORTABLE PSG RECORDER (TYPE I OR II SLEEP MONITOR)

Thanks to the exceptional quality of the recording, Neuron-Spectrum-AM/PSG can be reasonably considered as high-end PSG solution. 24 channels allow performing all kinds of PSG studies. Compact and lightweight, the electronic unit is easily attached to a patient and is unnoticeable during the exam. The supplied software helps a specialist to interpret PSG easily and correctly in just a few moments.

- Full range of PSG channels in compliance with AASM recommendations
- Synchronous video monitoring
- Removable memory card for examination storage
- Wireless interface for data transfer to PC









NEURON-SPECTRUM-AM/CRM

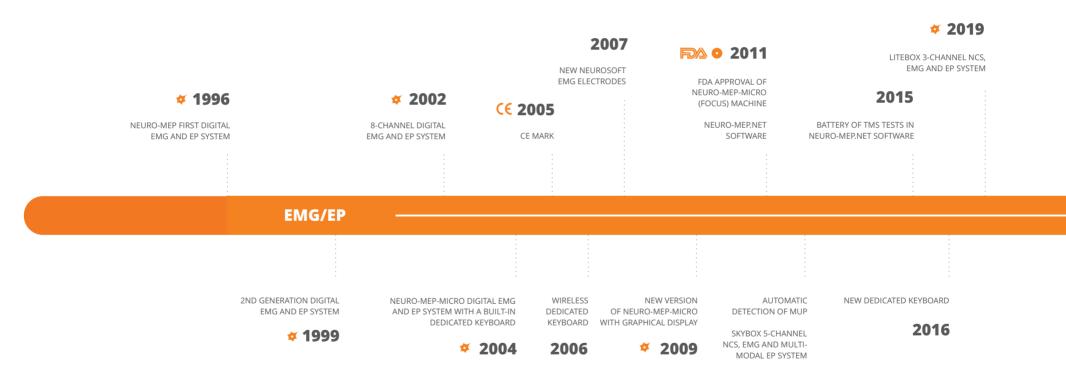
CARDIORESPIRATORY MONITOR (TYPE III SLEEP MONITOR)

Neuron-Spectrum-AM/CRM is specially designed for cardiorespiratory monitoring at night and allows detecting and analyzing respiratory events (apnea and hypopnea), heart rate and blood oxygen saturation during sleep. The electronic unit also features built-in body position sensors and a light sensor.

- Expandable to a stand-alone PSG recorder (Type I or II sleep monitor)
- Detection and analysis of respiratory events, heart rate, SpO₂, and body position
- Up to three days of continuous work in the stand-alone mode
- Removable memory card for examination storage
- Wireless interface for data transfer to PC

Upon customer request, Neuron-Spectrum-AM/CRM can be expanded up to Type I or II PSG recorder that allows for more detailed analysis of sleep-related disorders.

ELECTRONEUROMYOGRAPHY ≥ 20-YEAR EXPERIENCE



2012



NEURO-MEP

EMG, NCS AND EP SYSTEMS

Neuro-MEP EMG, NCS and EP systems are supplied with 2-, 3-, 4-, 5- and 8-channel amplifiers. Reliable connectors, low-noise amplifier, wireless keyboard for fast control of any exam stage and advanced Neuro-MEP.NET software are the distinct advantages of Neurosoft EMG and EP systems.

	NEURO-MEP-8	NEURO-MEP-4	SKYBOX	NEURO-MEP-MICRO	LITEBOX
EMG/EP channels	8	4	5	2	3
Electrical stimulation channels	1–2	1-2	2	1	1
Included techniques	EMG, EP	EMG, EP	EMG, EP	EMG	EMG
Design	Modular architecture: all units conveniently arranged at workplace are connected via USB and make optimal		All-in-one: connection to PC and power supply via USB cable		

configuration of your own

LITEBOX 3-CHANNEL NCS, EMG AND EP SYSTEM

- NCS and needle EMG according to international standards
- 3 acquisition channels for guickest examination ever
- 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



NEW

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!



REDUCTION











BY NOTEBOOK

SKYBOX

5-CHANNEL DIGITAL EMG, NCS AND EP SYSTEM

- EMG according to international standards
- All you need is within a lightweight compact case: stimulators, acquisition channels, and dedicated controls
- Over 50 EMG and EP techniques
- 4 minutes per one nerve study
- All EP modalities in the base delivery set
- 2 independent electrical stimulators



NEURO-MEP-4/8

4- OR 8-CHANNEL NCS, EMG AND MULTI-MODALITY EP SYSTEM WITH WIRELESS KEYBOARD

- Modular architecture
- 4 or 8 high-quality acquisition channels
- Easy-to-use EMG system of expert class
- EMG according to international standards
- Multi-modality EP in base delivery set



WIRELESS DEDICATED KEYBOARD DK-02

MODULAR ARCHITECTURE

All electronic units are connected to computer via USB. It allows combining them flexibly to arrange a configuration corresponding to your own requirements. For example, connect one more 4-channel amplifier to Neuro-MEP-4 to get 8-channel system. To study motor and sensory conduction collision, plug in the second electrical stimulator.









NEURO-MEP-MICRO

2-CHANNEL ULTRAPORTABLE EMG AND NCS SYSTEM WITH A BUILT-IN KEYBOARD

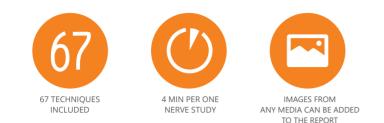
- 2 channels are optimized to perform quickly motor and sensory conduction tests and needle EMG
- All-in-one compact and lightweight system: stimulators, acquisition channels, controls, and display
- High acquisition quality: sampling rate up to 100 kHz
- Electrical stimulator with ultra-fast switching between two outputs
- Display showing stimulation parameters and electrode placement quality

AUDITORY STIMULATOR

	VISUAL STIMULATOR PATTERN STIMULATOR
	ELECTRICAL STIMULATOR WITH TWO OUTPUTS
oghen oghen oghen oghen	
Alfred and have a freque a deflerence and have a frequencies and have a frequencies of the second and the secon	
	2 ACQUISITION CHANNELS

EMG/EP

NEURO-MEP.NET SOFTWARE FEATURES



NEURO-MEP.NET TECHNIQUES

- NCS (motor and sensory conduction velocity, F-wave, H-reflex (also including paired stimulation), motor and sensory inching)
- EMG (spontaneous activity, interference pattern, motor unit potentials (MUP), macro EMG, QEMG)
- Neuromuscular junction (repetitive stimulation, jitter (single fiber EMG))
- Motor unit number estimation (MUNE) including MUNIX
- Additional EMG techniques (blink reflex, sacral reflex, bulbocavernosus reflex, tremor, T-reflex*, galvanic skin response, 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)
- Transcranial magnetic stimulation (TMS)**
- Intraoperative neurophysiological monitoring (IONM)
- Heart rate variability (HRV)***
- Electroretinography (ERG, mfERG)***

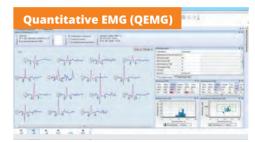
* if tendon hammer for T-reflex recording is available

** if magnetic stimulator is available

*** if corresponding equipment is available



Simultaneous acquisition of motor and sensory responses from one stimulus



Acquisition and analysis of spontaneous EMG activity, interference pattern and MUP in one window. Automatic classification of activity phenomena during spontaneous activity analysis



Neuro-MEP.NET provides the breakthrough algorithm of automatic jitter detection. Now there is no need to think about a trigger. The program just detects the potentials itself and shows them on the screen

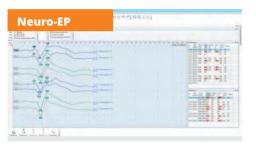


Exam results can be presented in a report generated automatically. Report is edited easily and customized according to individual demands

EMG/EP

OPTIONS

Using our EMG, NCS and EP systems you can perform almost all known EMG and EP techniques. In recent decades the technique standards have been accepted and established. These are special algorithms to study different pathologies, calculations intended for each test, reference values, etc. It is very important for a specialist to be equipped with all the techniques, even if some of them are not used very often.



Software and equipment for visual, auditory, somatosensory and cognitive (P300, MMN, CNV, MRCP, P50, N400) EP study



Software and equipment for auditory evoked potential and transient evoked otoacoustic emission study

Neuro-ERG	nawal és est
(http://linear.org	Andres - Town of the
and man	
- Ann	
	An and a second
43114	And

Software and equipment for electroretinography study



Diagnostic monophasic transcranial magnetic stimulator



Synchronous EMG recording and reviewing together with video image including those obtained from laryngoscope and other endoscopes

NEURO-TOX DEVICE FOR EMG/STIM-GUIDED INJECTIONS AND NEUROMUSCULAR STIMULATION

• Electrical stimulator and EMG recorder in one unit

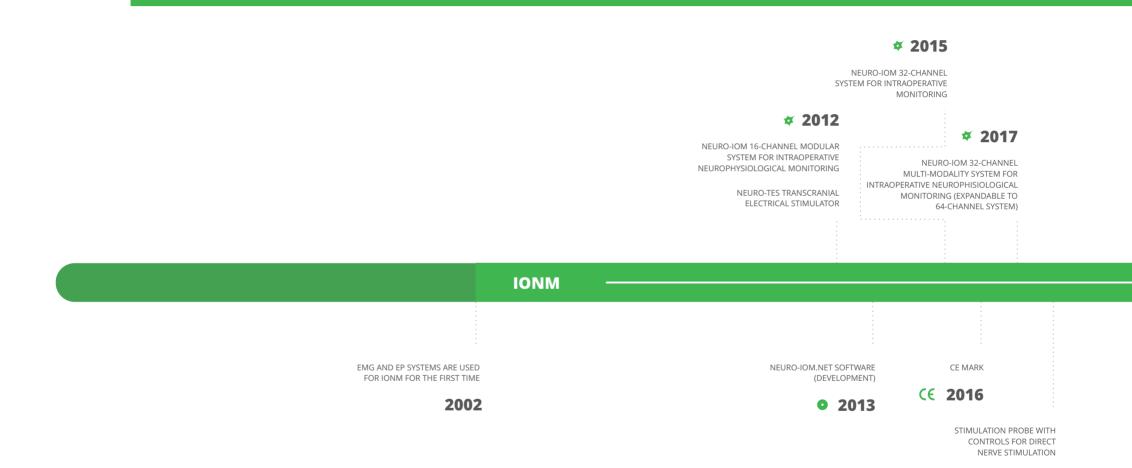
- Application in neurology, therapy, and anesthesiology
- 2 AA batteries operated
- Touch-proof connectors to plug in electrodes and injection needles
- Operation indicators and built-in speaker





INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING

≥ 15-YEAR EXPERIENCE

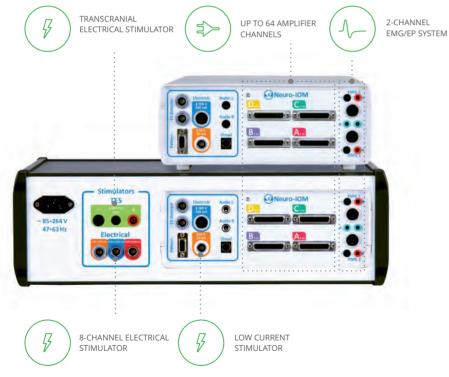


2018

NEURO-IOM (V. 2)

MULTI-MODALITY SYSTEM FOR INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING

- 32 amplifier channels expandable up to 64 channels
- Motor, somatosensory, auditory and visual evoked potentials, EMG, direct nerve stimulation, EEG, ECoG more than 10 IONM modalities
- Monitoring during spine, brain, vascular, otolaryngology, and oral and maxillofacial surgeries
- Transcranial electrical stimulator (up to 1000 V)
- Two-in-one: IONM device and 2-channel EMG/EP system





NEURO-IOM (V. 2) CONFIGURATIONS

The system can be supplied in one of four configurations depending on the needs of neurophysiologists and surgeons.



	64/B	32/B	32/5	16/S
IONM channels	64	32	32	16
Dedicated channels for routine EMG, NCS and EP	4	2	2	2
Electrical stimulator channels	16	12	4	4
Low current stimulator channels	3	2	1	1
Transcranial electrical stimulator channels	4	4	-	-
ES detector channels	4	2	2	2

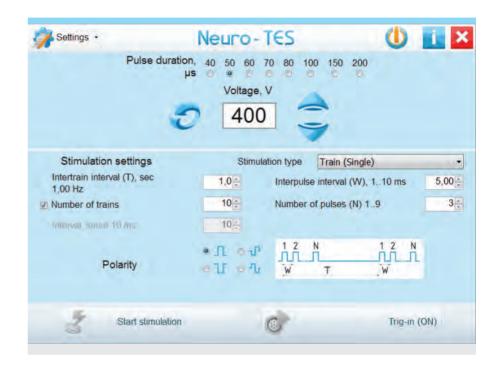
NEURO-TES

TRANSCRANIAL ELECTRICAL STIMULATOR

- Stimulus intensity up to 1000 V
- Motor EP acquisition during intraoperative monitoring
- Synchronization with diagnostic systems of Neurosoft or other manufacturers
- 4-channel electronic switch (4 pairs of outputs with electronic switching)
- Neuro-TES software to control stimulator
- Stimulation modes: train, double train, train + pulse, asymmetric double train



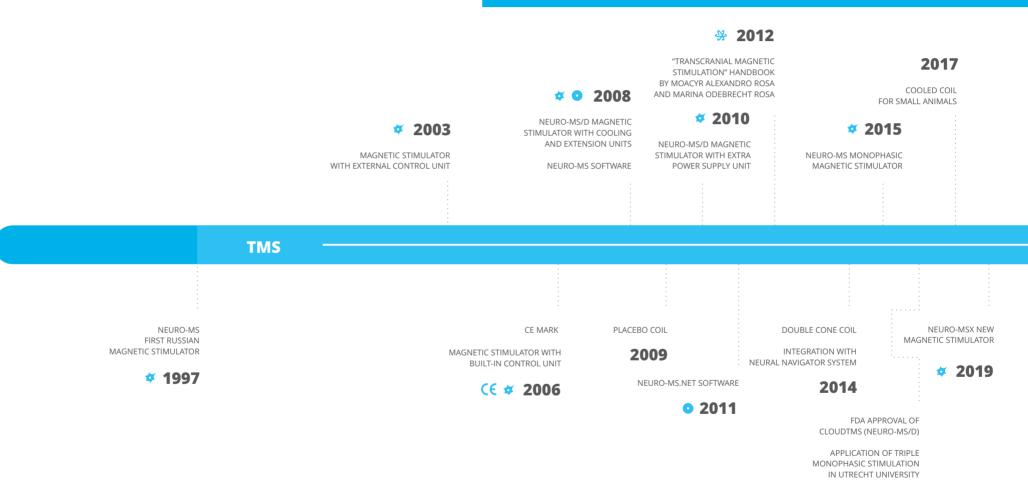




NEURO-TES software

The stimulator has a built-in electronic switch that allows switching anode and cathode of the electrical stimulator to any output of the pod which can be located in patient's area at 5 m distance from stimulator and control PC. The switching is performed with Neuro-TES or Neuro-IOM.NET software.

MAGNETIC STIMULATION ≥ 20-YEAR EXPERIENCE





THERAPEUTIC TRANSCRANIAL MAGNETIC STIMULATORS

Transcranial magnetic stimulation (TMS) has proven therapeutic effect in treatment of a wide range of psychiatric and neurological disorders. It can be also used for peripheral stimulation, including pelvic floor stimulation.

NEURO-MS/D NEURO-MSX ADVANCED THERAPEUTIC THERAPEUTIC **ADVANCED THERAPEUTIC** THERAPEUTIC 0 0 Number of supported coils 10 10 18 18 Stimulation frequency at maximal intensity, Hz 5 20 15 35 + + + + 100 Maximal stimulation frequency, Hz 30 100 100 (2 kHz for burst mode) Theta burst stimulation (TBS) + _ ÷ ÷ repetitive, train, burst, ramp, repetitive, train repetitive, train, burst repetitive, train, burst, Stimulation modes

sweep frequency

ramp, sweep frequency

Coil cooling



Neuro-MS diagnostic magnetic stimulator is available in two configurations: single- or paired-pulse stimulation. It can be used in neurology and neurosurgery, for electrodiagnostics and research.

NEURO-MS

	SINGLE-PULSE STIMULATION	PAIRED-PULSE STIMULATION	TRIPLE-PULSE STIMULATION*	QUADRI-PULSE STIMULATION*
Interstimulus interval, ms	-	10	10	10
Peak magnetic field, T	3.2	4.5	4.5	4.5
Stimulation frequency at maximal intensity, Hz	0.3	0.3	0.3	0.3
Diagnostic TMS (single-pulse stimulation)	MEP, MT, CMCT, SP, recruitment curve	MEP, MT, CMCT, SP, recruitment curve	MEP, MT, CMCT, SP, recruitment curve	MEP, MT, CMCT, SP, recruitment curve
Advanced diagnostic TMS (paired-pulse stimulation) –	SICI, LICI, ICF, SICF, LICF, IHI	SICI, LICI, ICF, SICF, LICF, IHI, SICI/LICI, SICI/LICF, triple pulse test	SICI, LICI, ICF, SICF, LICF, IHI, SICI/LICI, SICI/LICF, triple pulse test, QI
Integration with Neurosoft diagnostic systems	Neuro-MEP, Neuron-Spectrum	Neuro-MEP, Neuron-Spectrum	Neuro-MEP, Neuron-Spectrum	Neuro-MEP, Neuron-Spectrum

NEURO-MS/D

TRANSCRANIAL MAGNETIC STIMULATOR FOR DIAGNOSTICS, THERAPY AND RESEARCH

- Application: psychiatry, neurology, rehabilitation, and sports medicine
- 20 Hz stimulation with 100% intensity
- Theta burst stimulation (TBS)
- Advanced cooling technology guarantees continuous operation without coil overheating
- Neuro-MS.NET software to manage patient database and control treatment courses and stimulation sessions



Main unit is intended to control the stimulator operation. It is connected to PC via USB



Cooling unit helps to avoid coil overheating during stimulation

Extra power supply unit allows increasing stimulation frequency up to 100 Hz



TMS

EXPANSION UNIT

Neuro-MS/D magnetic stimulator can be supplied with an field by 40% and performing paired-pulse monophasic



医肠副视 40.

> EMG/EP SYSTEM FOR AUTOMATIC MT DETERMINATION



TOUCHSCREEN

FOR COIL



COILS

The repetitive magnetic stimulation is widely used for therapeutic treatment and rehabilitation. The delivery of a large number of pulses may result in coil overheating which explains the need to use cooled coils. Thanks to our breakthrough cooling system solution you can forget of overheating, whereas the variety of our coil shapes will guarantee the best results in each individual case.



ANGULATED FIGURE-OF-EIGHT COIL

For focused stimulation of the brain. The anatomical shape of the coil, congruent to the shape of the head, provides a higher fit and avoids displacement of the stimulation point.

Coil winding diameter — 100 mm.

DOUBLE CONE COIL

For deep stimulation of the brain. Ideal for stimulation of DLPFC, cerebellum and motor cortex areas controlling the muscles of lower limbs, lower torso and pelvic floor.

Coil winding diameter — 125 mm.

FIGURE-OF-EIGHT COIL

Suitable for focused and precise stimulation of cortex, peripheral nerves and muscles.

Coil winding diameter — 100 mm.

RING COIL

For stimulation which doesn't require high accuracy or focused stimulus but a large depth of penetration is expected. Perfect for peripheral stimulation, including pelvic floor stimulation in urology and coloproctology.

Coil winding diameter — 150 mm.

NEURO-MS.NET SOFTWARE FEATURES

Neuro-MS.NET software manages patient database and controls treatment courses and stimulation sessions. You can perform stimulation according to pre-defined protocols as well as create your own or edit the preset stimulation programs. Neuro-MS.NET interface is designed to support touchscreens.





Treatment course selection



Semi-automatic motor threshold (MT) determination using patient button



Repetitive stimulation (treatment session)

1 Bar 1 Ba	💷 🖏 🛍 🔛				6
af Instant postal	The -		and the local division of the local division	- mary	
	Neurosoft company Testiment report				
nature Report Rates, 18 years your 7 carried as Malars					
A Mademint produced					
· Constitution and address	in frames				
Plantar of Income 10	t server of here (notice) and here (report of	and instant its			
10 August August 1					
A Manual American					
· Description (increased)	LADIE ALDEL April matter annuel Cal Latra alabama analitata a annuel Calific Andre				
141 1 1206 81	Conception of the				
Testment Millery					
Second Street, States, States, Street, St.	-				
Partition made (2020) 771 Internation (Depression (204) 202	ACTING AND A DO DO DO DO DO	IN LOSS OF			
-C. DECIDEL paint, and, \$75.3					
	niene N. M ¹ S. D. ¹⁹ K. St. 40. Secoloral pub	10.00 (10.00)			
an Indek patra					
- Increasing and a calculate calculate	A APPA PR. / Bridt de Douelles and				
THE COST PARTY		and the state.			
January 10					
Therefor, halo 302007, No.	BADEL				

Automatic report generation

PRE-DEFINED PROTOCOLS

PSYCHIATRY

Treatment of depression, posttraumatic stress disorder, schizophrenia, obsessive-compulsive disorder, mania, addiction, anxiety disorders, etc.

NEUROLOGY

After-stroke rehabilitation, treatment of spasticity, pain syndrome, migraine, Parkinson disease, tinnitus, dystonia, essential tremor, Tourette syndrome, amyotrophic lateral sclerosis, multiple sclerosis, epilepsy, Alzheimer disease, etc.

NAVIGATED TMS

Neurosoft magnetic stimulators can be integrated with Neural Navigator navigation system which allows using MRI data for precise coil positioning and motor and visual cortex mapping.

ACCESSORIES

COIL POSITIONING TOOL

< 2 MM NAVIGATION ACCURACY

COMFORTABLE TMS CHAIR





PATIENT CAP

To achieve the maximum treatment efficiency, it is required to determine the stimulation spot precisely. The specially designed coil positioning tool allows you to find this spot quickly and position the coil over this area accurately. This spot is marked on the patient cap. It is very convenient as you will not have to determine it again.

The chair specially designed for long-term treatment sessions:

- 2 independent motors for adjustment of backrest and legrest
- Individual positioning of neck rest and footrest
- Remote control for accessing basic positions
- 4 twin-wheel castors with/without central locking

The use of individual patient cap to mark the points saves your time usually spent for coil positioning during each next session.

NEURO-MSX

NEW MAGNETIC STIMULATOR

Application: psychiatry, neurology, rehabilitation, and sports medicine

NEW

- 35 Hz stimulation with 100% intensity
- Theta burst stimulation (TBS)
- Advanced liquid cooling technology
- New generation of ergonomic cooled coils with stimulation controls at your fingertips
- Built-in memory for preset protocols

NEW STIMULATION PROTOCOLS

- sweep frequency mode with adjustable rising, falling and plateau frequency
- ramp mode with adjustable ramp up, ramp down and plateau time

Treatment			Treatment		
. Depression 10 Hz	Mode	Burst	2. Depression iTBS	Mode	Burst
	MT % output	120%		MT % output	120%
3. OSD (SMA)	Freq in burst	50 Hz	50 Hz		
4. OSD (B-DLPFC)	Pulses in burst			Pulses in burst	
5. OSD (OFC)	Freq in train	5.0 Hz		Freq in train	5.0 Hz
	Bursts in train	10		Bursts in train	10
	Train duration	1.8 s		Train duration	1.8 s
	Pause	8.0 s		Pause	8.0 s
L 00:03:08	Train in session	20	L 00:03:08	Train in session	20
л 600			л 600	Sack	

It is possible to store treatment/rehabilitation protocols that can be edited anytime when necessary in the built-in memory. Performing the treatment is very easy. Just choose the desired protocol with pre-defined settings and start the stimulation!





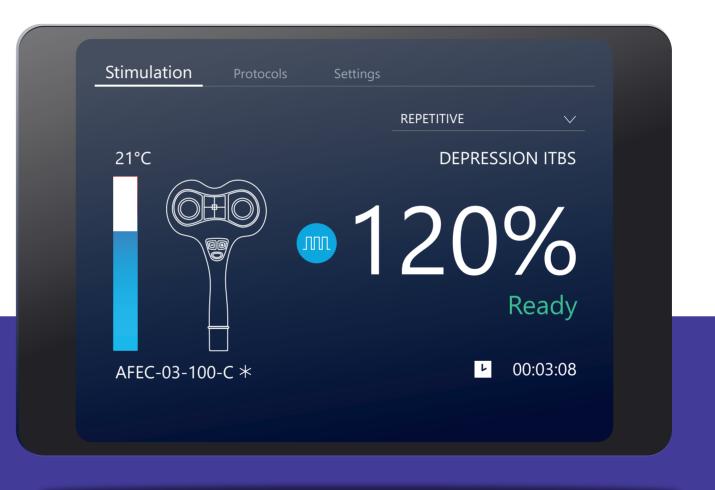


PROTOCOLS

CAN OPERATE WITHOUT PC WI-FI DATA TRANSFER

Wi 🖪

STIMULATION CONTROL USING ANDROID AND iOS DEVICES



Web interface allows protocol selection and stimulation parameter setup using a tablet or smartphone.

NEURO-MS

MONOPHASIC MAGNETIC STIMULATOR

- Powerful monophasic stimulus
- Ergonomic and lightweight coils of different shapes and sizes .
- Configurations for single-, paired-, triple- or quadri-pulse stimulation (QPS)
- Compatible with EMG/EEG machines of many world-known manufacturers







NEW GENERATION COILS

We offer new generation coils of different sizes and shapes as the best match for our new magnetic stimulators. You can choose any of them depending on the stimulation target. All coil models have enhanced ergonomics and are equipped with controls and positioning grid that maximizes the coil placement accuracy.

RC-03-125, RC-03-125-C BIG RING COIL

- cortical and peripheral nerve stimulation (cervical, lumbosacral nerve roots, pudendal nerve)
- stimulation of deep nerves

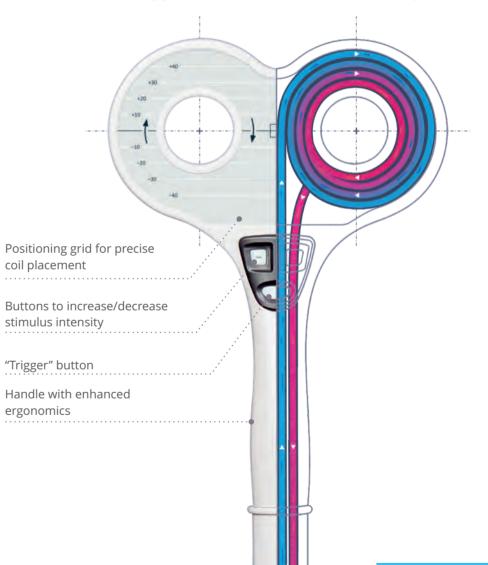
FEC-03-100, FEC-03-100-C FIGURE-OF-EIGHT COIL

- focused cortical and peripheral nerve stimulation
- gold standard for TMS

AFEC-03-100, AFEC-03-100-C ANGULATED FIGURE-OF-EIGHT COIL

- anatomic shape being congruent to head shape ensures closer fitting to the patient's head
- deep cortical stimulation
- accurate focusing





OPTIONS

NEURON-SPECTRUM-61..65

The new line of Neuron-Spectrum-61..65 EEG systems allows EEG recording during magnetic stimulation (combined TMS-EEG). This technique is used for post-stroke rehabilitation monitoring, as well as for different research purposes.



NEURO-MEP-MICRO

To work with TMS machines, Neurosoft offers 2-channel EMG system with high noise immune hardware ensuring perfect signal quality. The delivery set includes high-performance accessories and professional Neuro-MEP.NET software that is in perfect synch with the device and manages the stimulation parameters.

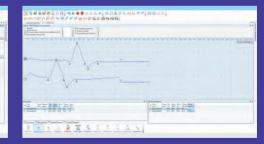


NEURO-MEP.NET SOFTWARE FEATURES

Neurosoft is the only company in the industry which produces both TMS machines and professional EMG/NCS systems. It means that integration between TMS and EMG can be done at a very deep level. Neuro-MEP.NET includes a battery of different TMS tests.

The party second	(terr)	
and working	elon-banancessing and a second second second	
and prime		
	A ministration was and	
monging,	in a proper second second second	the set
man print	- adam al dam black	-
mound	- Alms finghing mon	调 产
and internet		The set
unding hard		

(加)の単いのため、かたもうたなたなが、市場の注 さざがないのため高いの数。 1

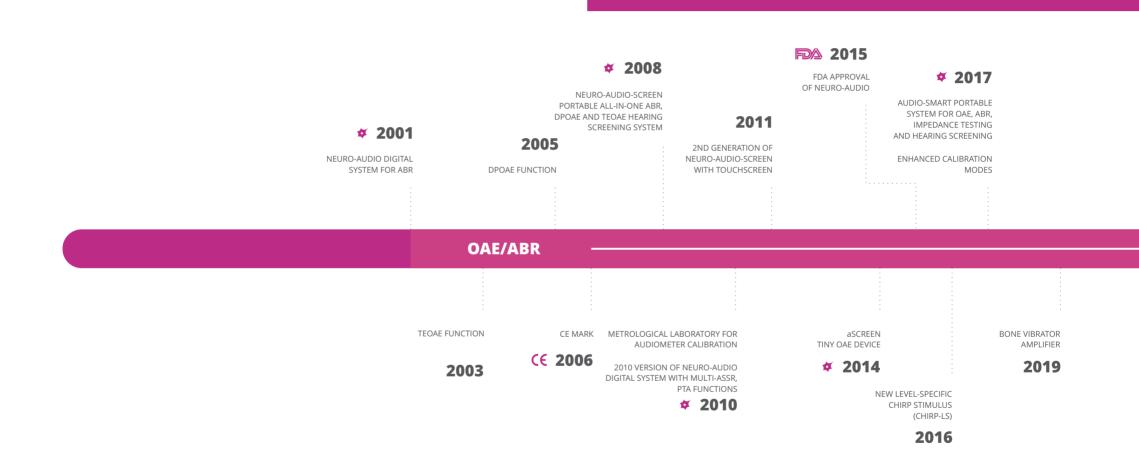


Silent period (SP)

Study of motor evoked potentials (recruitment Tripple stimulation test (TST) curve)

Study of central motor conduction time (CMCT)

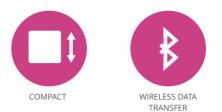
AUDIOLOGY ≥ 15-YEAR EXPERIENCE



aSCREEN

TINY OAE DEVICE

- Smallest in the world, yet powerful
- TEOAE and DPOAE in one device
- Bluetooth communication for data transfer and result printing
- Easily customizable test templates
- Android compatible





aScreen is the next generation of OAE hearing screening devices. It works with the list of Android-based smartphones and tablets with USB On-The-Go feature. All you need is to choose a device with the screen size and battery capacity you are comfortable with.

ascreen

OAE/ABR



NEURO-AUDIO.NET SOFTWARE FEATURES











Auditory evoked potentials (ABR, MLR, LLR/CAEP) Transient evoked otoacoustic emission (TEOAE)

Distortion product otoacoustic emission (DPOAE)

Vestibular evoked myogenic potentials (VEMP)



Electrocochleography (ECochG) with SP/AP area ASSR and multi-ASSR ratio calculation



----lamin's Taxa & stars in ------150 1.01 10.0 +5.00 A.L.



Pure tone audiometry (PTA)

Cognitive event-related potentials (P300, MMN)

OAE/ABR

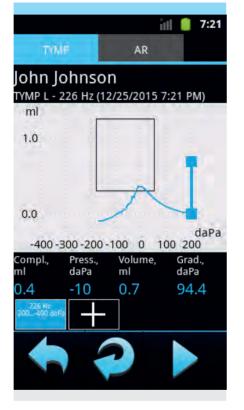


AUDIO-SMART FIRMWARE FEATURES

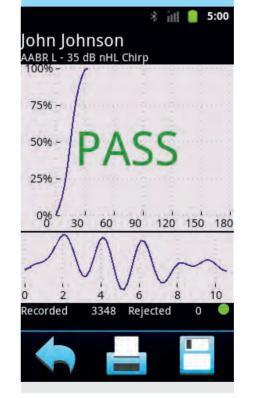
Audio-SMART is a lightweight, compact device that can be easily placed in a specialist's gown pocket. It ensures quick examination right at the bedside. Powerful battery ensures continuous operation during the whole day.



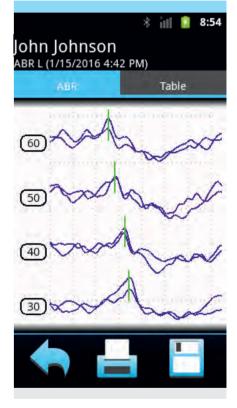
Transient evoked otoacoustic emission (TEOAE)



Tympanometry



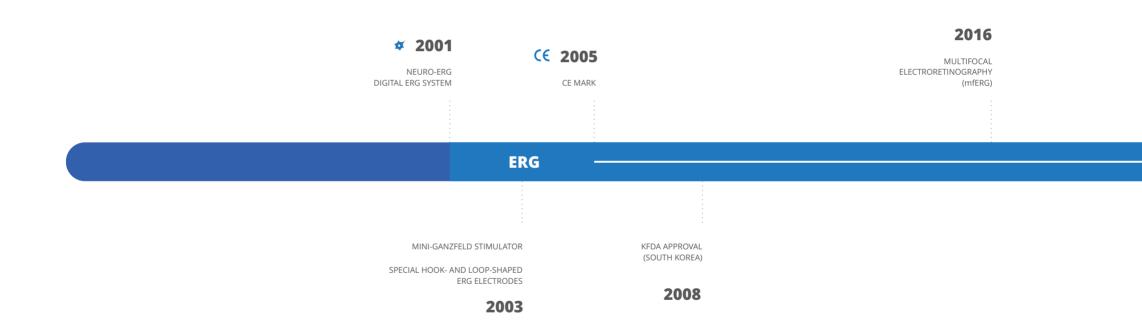
Automated auditory brainstem response (AABR)



Auditory brainstem response (ABR) with wave V marker

OAE/ABR 62

ELECTRORETINOGRAPHY ≥ 15-YEAR EXPERIENCE

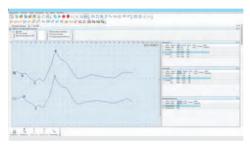


NEURO-ERG

DIGITAL SYSTEM FOR ERG AND VISUAL EP STUDY

- Clinical electrophysiological testing of vision: objective assessment and analysis of retinal function and visual pathways at all levels
- Diagnostics of initial (preclinical) retinal changes
- Set of specially designed electrodes
- Mini-ganzfeld stimulator
- Penlights with concentrators for focal ERG tests

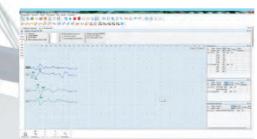




Cone ERG

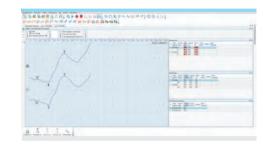


Flicker ERG

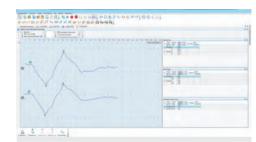


Simultaneous acquisition of VEP and ERG

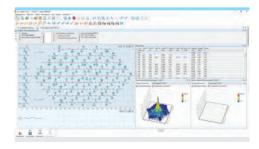




Maximal ERG

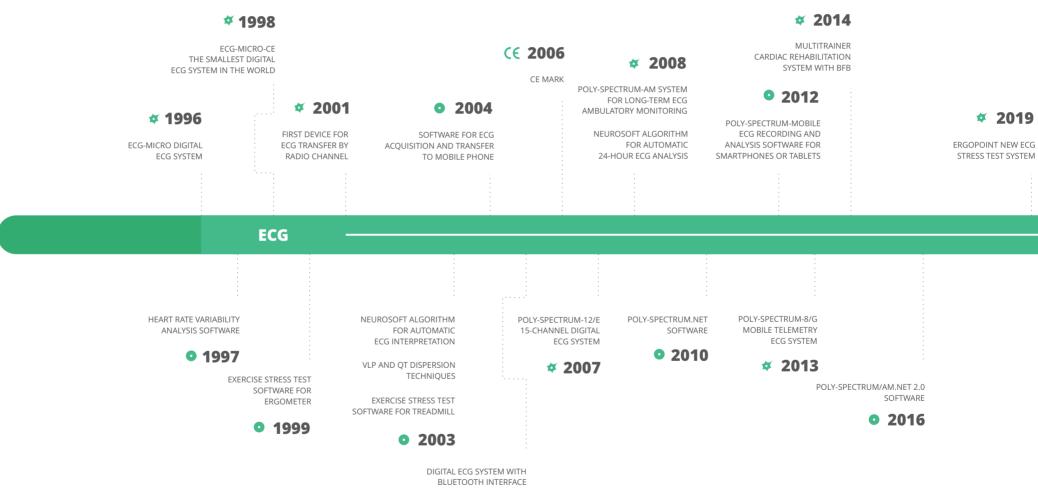


Focal ERG



Multifocal ERG

ELECTROCARDIOGRAPHY ≥ 15-YEAR EXPERIENCE



2005

POLY-SPECTRUM

DIGITAL ECG SYSTEMS

Poly-Spectrum product line combines the accuracy of analog ECG systems and the advantages of digital recording including filter and protocol customization and automatic interpretation.



	POLY-SPECTRUM-8	POLY-SPECTRUM-8/E	POLY-SPECTRUM-8/EX	POLY-SPECTRUM-8/G	POLY-SPECTRUM-12/E
	This is a sum of the second se	Concessor			PolySpectrum-12/C PolySpectrum-12/C PolySpectrum-12/C PolySpectrum-12/C PolySpectrum-12/C PolySpectrum-12/C
ECG leads	12	12	12	12	15*
Transesophageal ECG leads	_	-	-	-	2
Automatic report generation	-	+	+	+	+
Interface	Wire: USB	Wire: USB	Wireless: Bluetooth	Wireless: Bluetooth, GSM	Wire: USB
Pacemaker pulse detection	+	+	-	-	+
Application	Resting ECG	Resting ECG with interpretation	Stress test, resting ECG with interpretation, cardiac rehabilitation, HRV	Telemedicine, resting ECG with interpretation	Resting ECG with interpretation, transesophageal ECG

ECG 66







POLY-SPECTRUM-8/EX

12-CHANNEL MINIATURE WIRELESS DIGITAL ECG SYSTEM

- 12-channel high-quality ECG
- Portable and wireless
- Operates with Android devices
- Best choice for exercise stress test
- PC software stores raw ECG
- 8-hour operation without battery replacement



Poly-Spectrum-8/EX is the best choice for exercise stress testing as ECG of a patient is transmitted via Bluetooth for up to 7-meter distance. The device is placed on a patient's body, so you can use short ECG cable and its vibrations will not impact ECG quality anymore.

ERGOPOINT

ECG STRESS TEST SYSTEM

Ergopoint is a high-performance system designed to solve multiple tasks such as diagnostics of coronary artery disease (CAD), study of rhythm disturbances under workload, assessment of exercise tolerance, diagnostics of heart and respiratory failures, and evaluation of exercise performance in apparently healthy individuals (in sports medicine).





Interface	Bluetooth	Bluetooth	Bluetooth
Exercise equipment	Bicycle ergometer	Treadmill	Bicycle ergometer or treadmill
Blood pressure module	+	_	+
CPET (cardiopulmonary exercise test)	-	-	+

ADVANTAGES

Ergopoint ensures integration with gas analysis systems MetaLyzer 3B (Cortex, Germany) and Ergostik (Geratherm, Germany) to perform cardiopulmonary stress test. Ergopoint is compatible with exercise equipment of other world-known manufacturers (GE Healthcare, HP Cosmo, Kettler, etc.).

Please note that supplied exercise equipment may differ from the one shown in this catalogue





WIRELESS ECG TRANSFER

ERGOPOINT

EXERSISE STRESS TEST SYSTEM WITH TREADMILL

- Exercise stress test with continuous 1- to 12channel ECG acquisition
- Full battery of exercise test protocols including ramp protocol
- ST segment assessment for coronary heart disease diagnostics
- Treadmill with side handrails and 0÷25% elevation
- Automatic report generation

TREADMILL OPTIONS

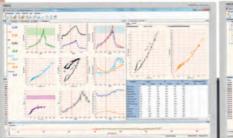
	Speed, km/h	Smooth start	Elevation, %	Allowed patient weight, kg	Interface	Side handrails	Treadmill weight, kg	
Lode Valiant	0.5÷20	+	0÷25	<160	USB	+	149	
T 2100	0÷22.5	+	0÷25	<204	СОМ	+	181	

ERGOSPIROMETER

PROFESSIONAL SYSTEM FOR CARDIOPULMONARY EXERCISE TESTING (EXERCISE STRESS TEST WITH GAS ANALYSIS)

- Cardiopulmonary exercise test with 1- to 12-channel ECG acquisition
- Wireless ECG transfer clear ECG traces
- Full battery of exercise test protocols including ramp protocol
- Ongoing monitoring of all training parameters
- Lode bike ergometer with blood pressure module
- Flow/volume measurement and inhaled/exhaled gas analysis (O₂/CO₂)
- Real-time displaying of O₂/CO₂ levels









Statistics Statistics		100 mile	. non 2		ter itter	Date States	Titlet St.	1.000
	Passad In	- · ·	7	tanna in a	and the second s	Lines Trees	Dana I	-
1 miles	_ ti ,	-	. #	, man	, pro		1 #	-4-
, ale	_ =	nh	=	- Anna	i ala	=		-
							1 17	
· -		-4-		*	. when		a horacon a	- the
- the	~ " .	. mp	- # .	+ infrir "	1-		V- " -	· -++-
-len	_ #	1 den	25	-	-		1 1	- Ale
2 1	-		-				1 21	1
in addison		- marine		a - Albanan		-	Charlen of	-14
4 apr			- 55 .		a st		4 4	-t
-in	_ #	de	- 11	in a	1		1 1	-
· 7							· · ·	*
·	-	mp		pro	- m	1	man .	4
· ·	_# .	nofin	. #	. An	a alfa	· · ·	1 .	-h
1	-		-	1 -		-	1	

Tella balaktan	414
1 B CARDING THE PARTY NAME	And a second sec
Canal I	
1	
The second se	the second se
	and the second s
H	
AND ADDRESS	discussion of the second s
	in the second
	and the stand of the second
	and the second descent and the second descent and the
to annotation of a	
	and the state



ECG stress test

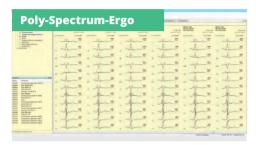
Averaged QRS complexes of the whole record

ST trend

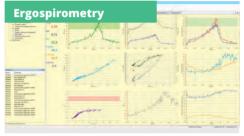
Automatic exam report generation



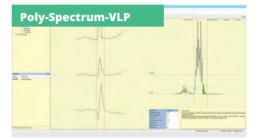
OPTIONS

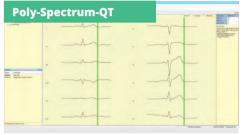


Software and equipment for stress testing Software and equipment for cardiopulmonary on bike ergometer or treadmill



exercise test





Poly-Spectrum-PWV ----22 22

Software and equipment for acquisition and analysis of pulse wave velocity

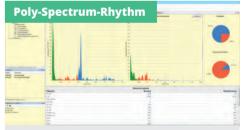
Poly-Spectrum-Analysis Contraction of Contract -----

Software for ECG measurement and interpretation

Software and equipment for acquisition and Software for QT interval dispersion analysis analysis of ventricular late potentials

Poly-Spectrum-Expr

ess	Poly-Spectrum-Rhyt
p-p-p-p-p-p	American A American American A
p-p-p-p-p-	
h-h-h-h-h-	E E



Software for ECG acquisition, review and printing

Software and equipment for heart rate variability analysis

POLY-SPECTRUM-AM

LONG-TERM ECG AMBULATORY MONITORING SYSTEM

- 2- or 3-channel ECG acquisition
- Automatic, semi-automatic and manual arrangement of QRST fiducial points, automatic clustering of QRS complexes, extended classification of rhythm events
- Quick navigation and editing of ECG record with event filters
- Bluetooth for recorder setup and real-time ECG monitoring
- Recording of patient's audio comments
- 12-channel record support in the SW (obtained from other compatible recorders)
- P wave detection
- PQ, QT, HRV, blood pressure and heart rate turbulence analysis modules

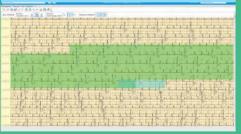




MONITORING MODULE



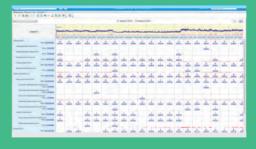
POLY-SPECTRUM-AM.NET SOFTWARE FEATURES







Clusters of QRS complexes





Arrhythmia analysis

Report generation

CARDIAC REHABILITATION RECENT DEVELOPMENTS



SpO₂ CHANNEL

2015

CARDIO



MULTITRAINER

CARDIAC REHABILITATION SYSTEM WITH BIOFEEDBACK

- Load/HR-controlled training
- Cardiac rehabilitation of up to 16 patients simultaneously (up to 80 sessions per day in total)
- Physiological parameter monitoring (ECG, ST, BP, SpO₂, PVC, etc.)
- More than 10 different models of ergometers and treadmills are supported
- Training protocol customization, creation of comprehensive rehabilitation
 programs
- Ergonomic interface: maximum useful information is displayed for the specialist during the training session
- Training protocols according to international standards
- Exercise test module for exercise HR determination and rehabilitation result assessment at the end of rehabilitation course





MULTITRAINER SOFTWARE FEATURES



Miniature view: displaying training sessions of several patients in one window



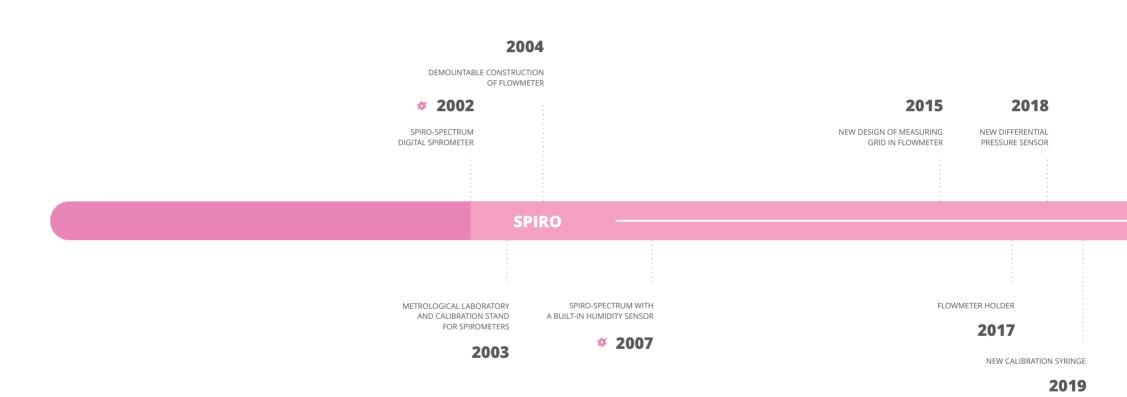
Pre-defined protocol customization

Full screen: overall information on one patient for maximum convenience

PAPAGATAN CONTRACT		
Solid Services	Inserting	
	Main Value Main <t< th=""><th></th></t<>	
		113 Proc. 078 1019 USA: 0340 1529 USA: 0340 1529 USA: 0340 1529 USA: 0340

Comparison of training sessions

SPIROMETRY ≥ 15-YEAR EXPERIENCE



SPIRO-SPECTRUM

DIGITAL SPIROMETER WITH EXTRA MEASUREMENT ACCURACY

- High accuracy of lung volume and airflow rate measurement
- Automatic control of reproducibility and acceptance of respiratory maneuvers
- Demountable construction of flowmeter for quick and proper disinfection
- 3-liter calibration syringe according to international standards
- Inhalation tests with automatic comparison of results
- Motivational animation for kids
- Convenient flowmeter holder



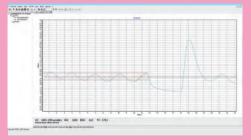


TEMPERATURE, HUMIDITY AND PRESSURE SENSORS 3-LITER CALIBRATION SYRINGE

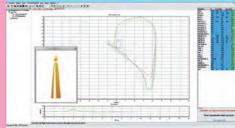
3

43 PARAMETERS INCLUDED

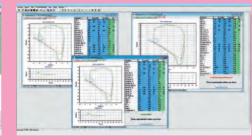
SPIRO-SPECTRUM SOFTWARE FEATURES



Vital capacity (VC) test





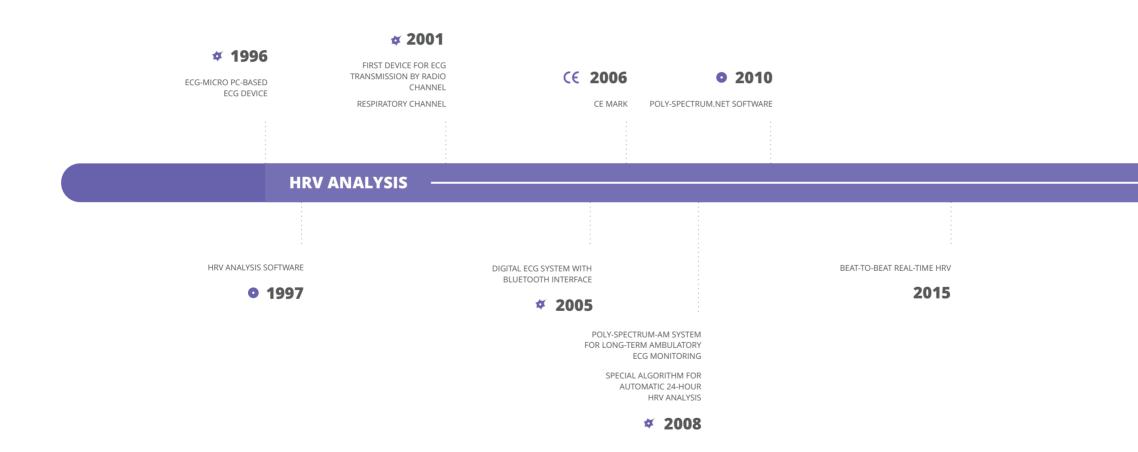


est comparison



Configurable test report

CARDIOVASCULAR REFLEX TESTING ≥ 20-YEAR EXPERIENCE

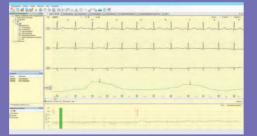






- Complex study of autonomic nervous system
- Simultaneous respiratory rate and heart rate variability (HRV) acquisition
- Cardiovascular reflex tests according to D. Ewing the gold standard
- Portable
- Automatic report generation

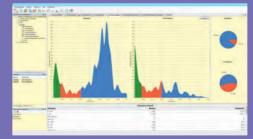
POLY-SPECTRUM.NET FEATURES



Simultaneous heart rate and respiratory rate recording



Rhythmogram



Spectrogram

GAIT AND MOTION ANALYSIS RECENT DEVELOPMENTS

2017

STEADYS GAIT ASSESSMENT AND TRAINING SYSTEM WITH BIOFEEDBACK

GAIT AND MOTION ANALYSIS

CE CE MARK

2019

STEADYS GAIT ASSESSMENT



The key to effective rehabilitation of patients with gait disorders is the accurate and objective assessment of gait function. Until recent times, instruments for gait assessment were cumbersome, expensive and unintuitive. But now we present you a brand new gait analysis system.

Requiring minimum preparations to be done on the patient before the examination, the Assessment configuration of Steadys features the advantages of the most sophisticated gait analysis systems: a variety of gait parameters to assess, evidence-based technology to record gait and EMG data, and uncompromising performance to rely on.

- Gait assessment with/without treadmill .
- Real-time assessment of gait parameters .
- Everfast 2-minute examination .
- Smart, portable, easy-applied IMU sensors .
- Clever report showing detailed gait assessment results and the need for specific gait parameter compensation







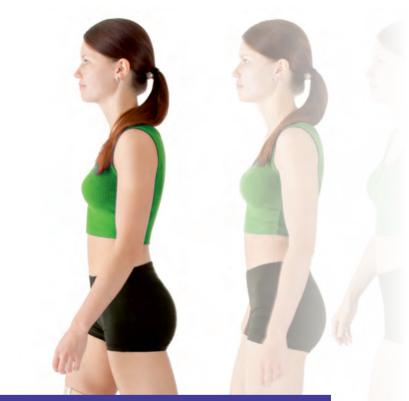




SIGNAL ACOUISITION IS NOT AFFECTED BY THE SURROUNDING METAL CONSTRUCTIONS

DATA EXCHANGE VIA WI-FI

THE SAME IMU SENSOR FOR ACQUISITION OF GAIT PARAMETERS AND EMG



The Neurosens inertial measurement unit (IMU) sensors are miniature watch-sized electronic devices positioned on a patient. They record acceleration and angular velocity by three axes (ensured by built-in 3D gyroscope and 3D accelerometer) and also EMG from two differential channels.







STEADYS GAIT TRAINING WITH BIOFEEDBACK

Learning how to walk properly is very difficult and toilsome. It demands time and cost expenditures and is impossible without highly qualified specialists. With Steadys you can forget of all such troubles! The software detects any slight deviations in gait pattern and informs patient on them that streamlines routine work of a specialist. The virtual walking environments involve a patient in training and prompt achieving better results.

Completed with a body weight support system, Steadys ensures an early start of rehabilitation for every patient. Treadmill with handrails guarantees comfort and safety for those who are not yet confident of walking independently and helps to keep balance during the training.

- All-in-one: gait assessment and training system
- Targeted gait rehabilitation in the motivating virtual environment .
- Manual and automatic adaptation of training difficulty .
- Streamlined workflow and enhanced functionality .

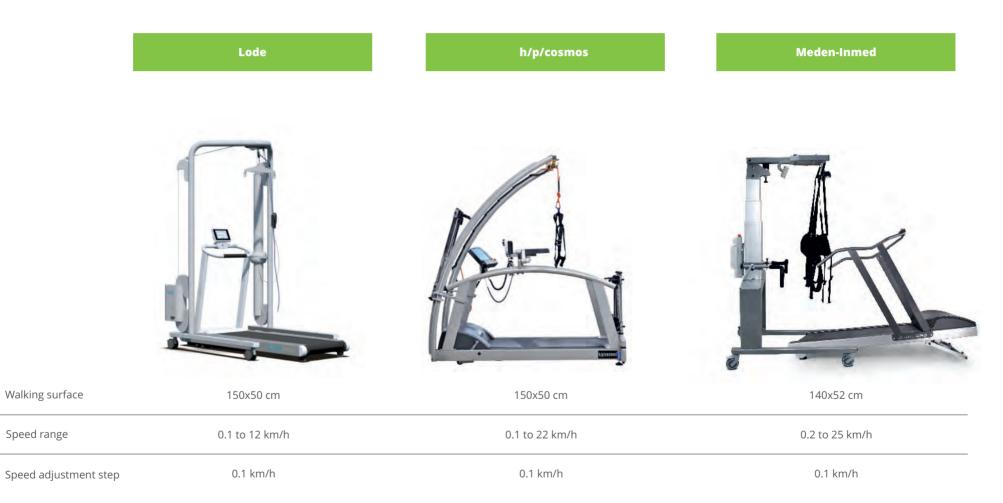


APPLICATION

Neurology	After stroke, cerebral or spinal cord injuries, multiple sclerosis (MS), cerebral palsy (CP), Parkinson disease (PD), etc.
Trauma, orthopedics, and etc.	After traumas, amputation, endoprosthetic replacement of the lower extremity joints, scoliosis surgery, etc.
Angiology	Obliterating vascular diseases of lower extremities
Geriatrics	Fall risk reduction

TREADMILLS AND BODY WEIGHT SUPPORT SYSTEMS

Steadys can work with any medical treadmill and body weight support systems. If you have already purchased them, we can equip them with sensors, electrodes, and software. If you don't have them yet, choose the proposed configurations or select your own one.







Neurosoft 5, Voronin str., Ivanovo, 153032, Russia neurosoft.com

Sales Department

Phone: +7 4932 95-99-99 +7 4932 24-04-34

E-mail:

Fax: +7 4932 24-04-35

info@neurosoft.com

Service Center		
Phone:	Fax:	
+7 4932 59-21-12	+7 4932 24-04-37	

E-mail: help@neurosoft.com

Skype: neurosoft.service.centre