

MEDICAL EQUIPMENT

for neurophysiology, electrodiagnostics,
audiology and rehabilitation



neurosoft.com



DEAR COLLEAGUES!

This catalogue brings together very comprehensive descriptions of each product in our extensive product line.

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U.S. Patent Nos. 4,615,093 and 5,278,634
DBP No. DE3340084C2
European Patent No. 0144717
Other Patents Pending



EEG AND LTM SYSTEMS
EEG



NEURON-SPECTRUM-61..65

FRONTLINE EEG SYSTEMS

- 11 to 39 referential EEG channels
- 4 to 8 additional channels for EMG, EOG, ECG and other physiological signals
- Multiple options: PSG, EP, long-term video EEG monitoring, BFB, CFM
- Continuous impedance monitoring during acquisition
- Operating mode selection with a button on the front panel (impedance measurement, monitoring of signal quality before the exam, exam recording)
- Color-coded impedance indication at the amplifier inputs
- Innovative hardware and software solutions for excellent signal quality

NEURON-SPECTRUM-5

NEUROPHYSIOLOGICAL LABORATORY

- 32 referential EEG channels
- 9 additional channels for EMG, EOG, ECG and other physiological signals
- Acquisition button on the front panel
- State-of-the-art techniques of mathematical analysis based on machine learning algorithms for EEG signal processing
- EEG, EMG, EP and PSG — all techniques in a single compact unit



EEG AND LTM SYSTEMS

EEG



NEURON-SPECTRUM-1..4/P

EEG SYSTEM SERIES

- Robust and time-tested EEG recorders
- 8 to 21 EEG channels + up to 4 channels to record EMG, ECG, EOG and other physiological signals
- Acquisition and review of EEG in arbitrary monopolar and bipolar montages
- EEG recording in the unshielded room
- Impedance indication on the front panel

NEURON-SPECTRUM-AM

WEARABLE WIRELESS EEG RECORDER

- 21 EEG channels
- Full range of polygraphic channels for PSG studies
- Recording of exams to a memory card and real-time data transfer via Wi-Fi
- Ambulatory EEG recording (up to several days) both in the clinic and at the patient's place
- Long-term video EEG monitoring to detect epileptiform activity

NEURON-SPECTRUM-4/EPM

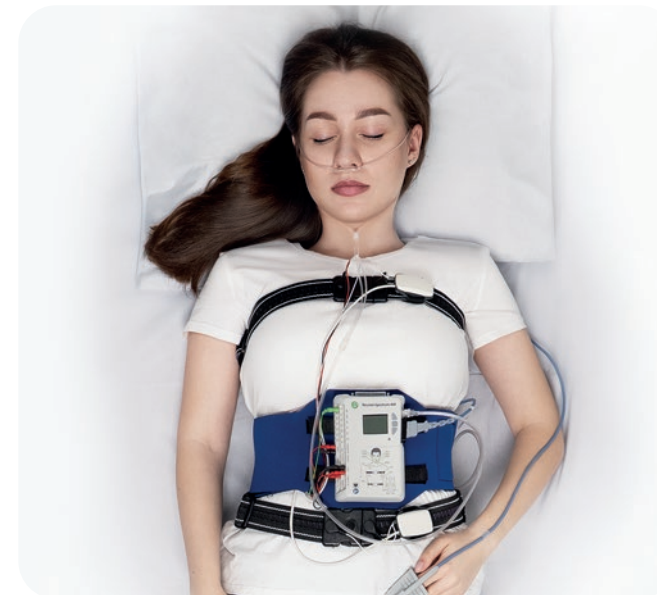
EXPERT-CLASS EEG SYSTEM

- Perfect solution for EEG, short-latency EP, long-latency EP and EMG
- 21 EEG channels + 9 channels to record any physiological signals from EOG to short-latency EP
- Impedance measurement button on the front panel
- 10 options to expand device functions — from PSG and video EEG monitoring to EMG
- Powerful possibilities for remote monitoring



SYSTEMS FOR PSG AND CRM STUDIES

PSG



NEURON-SPECTRUM-65/PSG

CLINICAL PSG SYSTEM (TYPE I SLEEP MONITOR*)

- Ready-made solution for your PSG lab
- Full range of PSG channels*
- Connection to a portable patient unit
- Synchronous video monitoring
- PAP titration under PSG control
- Advanced analysis tools to speed up PSG data interpretation

NEURON-SPECTRUM-AM/PSG

PORTABLE WIRELESS PSG RECORDER (TYPE I, II, III SLEEP MONITOR*)

- Autonomous PSG with video recording both in the clinic and at home
- Full range of PSG sensors and electrodes
- Recording of exams to a memory card and real-time data transfer via Wi-Fi
- Manual and automatic PSG analysis
- Perfect choice for a private medical clinic or laboratory startup

SNORLEX

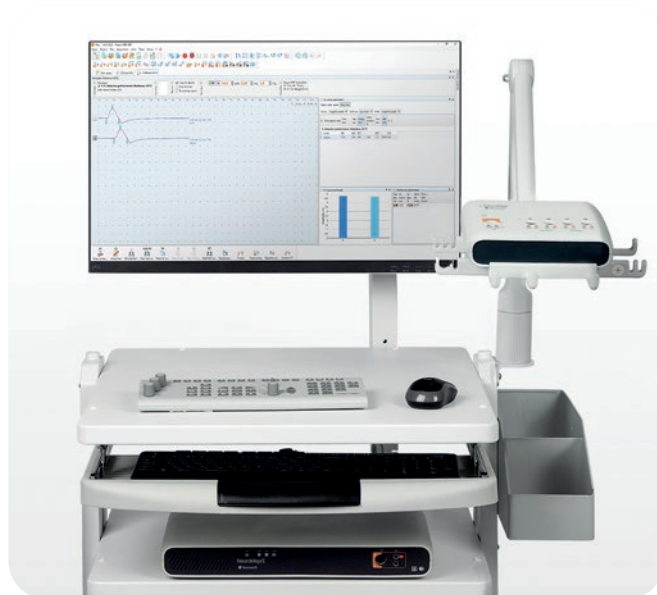
RESPIRATORY POLYGRAPH FOR DIAGNOSTICS OF SLEEP-DISORDERED BREATHING (TYPE III, IV SLEEP MONITOR*)

- Automatic scoring of apnea/hypopnea index (AHI)
- In-home and in-laboratory testing
- Calculation of sleep time based on actigraphy
- Automatic data analysis and report generation
- Up to 25 hours of continuous operation
- Monitoring of CPAP therapy efficacy during sleep

* According to the American Academy of Sleep Medicine (AASM) recommendations



SYSTEMS FOR NCS, EMG, EP AND DIAGNOSTIC TMS
EMG, TMS



NeuroMEP

4-CHANNEL ADVANCED NCS, EMG AND EP SYSTEM WITH WIRELESS KEYBOARD

- Scalable configuration tailored to your tasks
- Industry-leading amplification and stimulation technology
- Color-coded impedance quality at the connector
- Multi-modality EP in base delivery set
- Innovative circuits for stimulus artifact reduction
- 2 electrical stimulators with 4 outputs
- Compatibility with a wide range of ultrasound scanners



LITEBOX

3-CHANNEL NCS, EMG AND EP SYSTEM WITH DEDICATED KEYBOARD

- 3 acquisition channels for the quickest examination ever
- NCS and needle EMG according to international standards
- Electrical stimulator with 2 switchable outputs
- Innovative circuits for stimulus artifact reduction
- Portable, can be powered by a notebook



SKYBOX

5-CHANNEL NCS, EMG AND EP SYSTEM WITH DEDICATED KEYBOARD

- All you need is within a lightweight, compact case: stimulators, 5 acquisition channels and dedicated controls
- NCS and needle EMG according to international standards
- 2 independent electrical stimulators with 4 outputs
- All EP modalities in base delivery set
- Portable, can be powered by a notebook



SYSTEMS FOR NCS, EMG, EP AND DIAGNOSTIC TMS
EMG, TMS



NEURO-MEP-MICRO

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

- 2 channels are optimised to quickly perform motor and sensory conduction tests and needle EMG
- Portable, can operate with a notebook
- All-in-one: stimulators, acquisition channels, controls and display
- Electrical stimulator with ultra-fast switching between 2 outputs



NEURO-MS

DIAGNOSTIC MONOPHASIC MAGNETIC STIMULATOR

- Diagnostics of nervous system disorders
- Powerful monophasic pulse
- Extremely low electromagnetic interference
- Configurations for single- and paired-pulse stimulation
- Ergonomic and lightweight coils of different shapes and sizes
- Compatible with most EMG machines



NEURO-TOX

DEVICE FOR EMG/STIM-GUIDED INJECTIONS

- Compact and battery-operated
- Electrical stimulator and EMG recorder in one unit
- Application in neurology, therapy and anesthesiology
- Touch-proof connectors for electrodes and injection needles
- Operation indicators and a built-in speaker



EQUIPMENT FOR NEUROMODULATION

TMS, tDCS



NEURO-MSX

MAGNETIC STIMULATOR OF THE NEW GENERATION

- Stimulation frequency — up to 100 Hz, theta-burst stimulation (TBS) — up to 2000 Hz
- New generation of cooled coils: enhanced ergonomics with stimulation controls at your fingertips
- Built-in memory for preset protocols
- Theta-burst stimulation

NEURO-MS/D

TRANSCRANIAL MAGNETIC STIMULATOR

- 20 Hz stimulation at 100% intensity
- Advanced liquid cooling technology guarantees continuous operation without coil overheating
- Neuro-MS.NET software with pre-defined treatment protocols

NEUROSTIM

TRANSCRANIAL ELECTRICAL STIMULATOR

- Treatment of a wide range of psychiatric and neurological disorders
- tDCS, tACS, tRNS, tPCS, tDCS-sham, custom waveform
- Continuous monitoring of electrode impedance
- Stimulus amplitude increment — 25 μ A
- Placebo stimulation — tDCS-sham mode
- Intuitive software



IOM SYSTEMS

IOM



NEURO-IOM

MULTI-MODALITY SYSTEM FOR INTRAOPERATIVE NEUROPHYSIOLOGICAL MONITORING

- The ultimate combination of ultra-low noise signal acquisition and flexible software to streamline your workflow
- Monitoring templates for all types of surgery to start immediately
- Combining more than 10 modalities on one screen to capture critical information
- Wide range of stimulation programs for automatic monitoring
- Perfect MEPs even in complicated conditions with powerful TES and its wide range of pulse waveforms



ELECTRORETINOGRAPHY

ERG



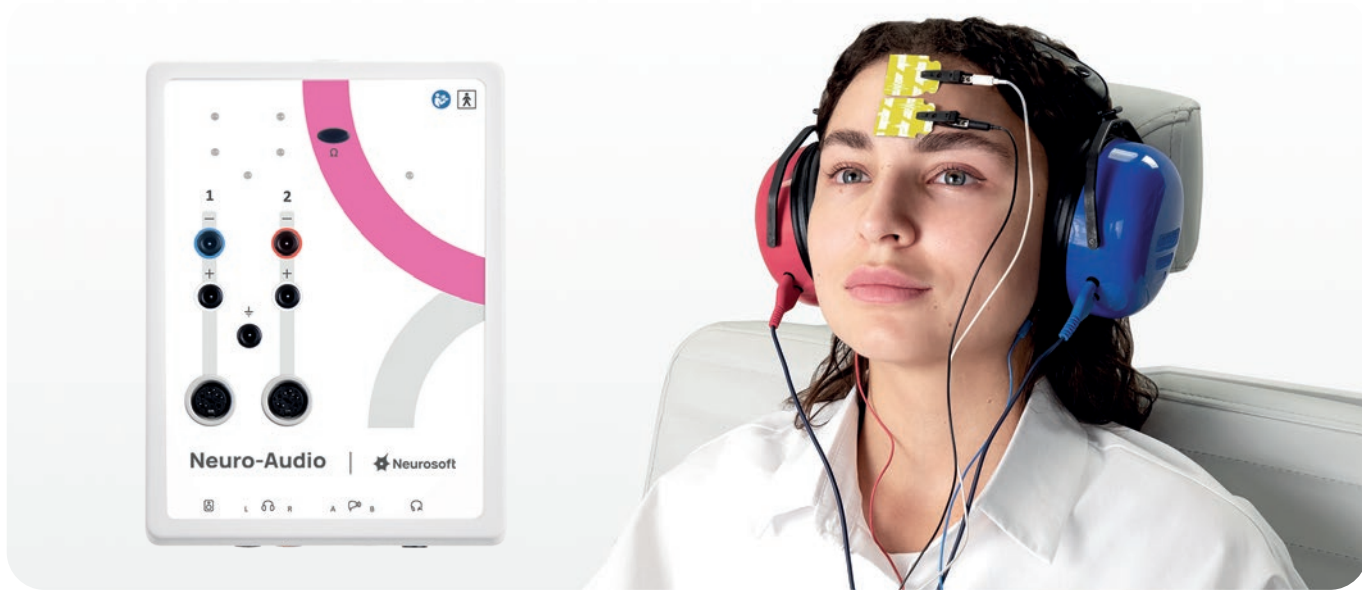
NeuroERG

DIGITAL SYSTEM FOR ERG AND VISUAL EP STUDY

- Objective assessment and analysis of retinal function and visual pathways
- Wide range of VEP and ERG techniques, including multifocal ERG, PERG ratio, stepwise sweep VEP, EOG
- Set of specially designed electrodes
- Mini-ganzfeld stimulator
- Penlights with concentrators for focal ERG



AUDITORY EP, OAE, ASSR SYSTEMS AND SCREENERS
AUDIOLOGY



NEURO-AUDIO

2-CHANNEL ABR, OAE, VEMP, ASSR
AND ECoG SYSTEM

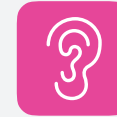
- High quality of auditory EP and OAE recording
- Multiple options for post-processing of results
- Complete set of techniques, including ECoG, LLR, multi-ASSR and VEMP
- Non-sedated ABR
- Chirp stimulus
- OAE up to 12 kHz



AUDIO-SMART

PORTABLE SYSTEM FOR DIAGNOSTICS
AND SCREENING

- Truly portable middle ear analyzer
- 4 frequencies of the probe tone: 226, 678, 800, 1000 Hz
- Hearing screening: OAE and automated ABR (AABR) testing
- ABR test with wave V Jewett marker
- Simple and user-friendly touchscreen interface



AUDITORY EP, OAE, ASSR SYSTEMS AND SCREENERS
AUDIOLOGY



aTYMP

TYMPANOMETER

- 4 frequencies of the probe tone: 226, 678, 800, 1000 Hz
- Ipsi- and contralateral acoustic reflexes
- Wide range of stimuli for acoustic reflex
- Acoustic reflex testing using cochlear implant stimulation
- Testing of the patients with intact (ETF-1) and perforated tympanic membrane (ETF-2)



aSCREEN

PORTABLE DEVICE FOR HEARING SCREENING

- Hearing screening using TEOAE and DPOAE techniques
- Special noise rejection and accurate calibration technologies
- Mobile terminal with a built-in thermal printer
- Bluetooth communication for data transfer and result printing
- Android compatible



SPIROMETRY
PFT



SPIRO-SPECTRUM

DIGITAL SPIROMETER WITH EXTRA
MEASUREMENT ACCURACY

- High accuracy of lung volume and airflow rate measurement
- Demountable construction of a flowmeter for quick and proper disinfection
- Conformance to ATS/ERS recommendations for accuracy and reproducibility
- Wide range of approved predicted value sets

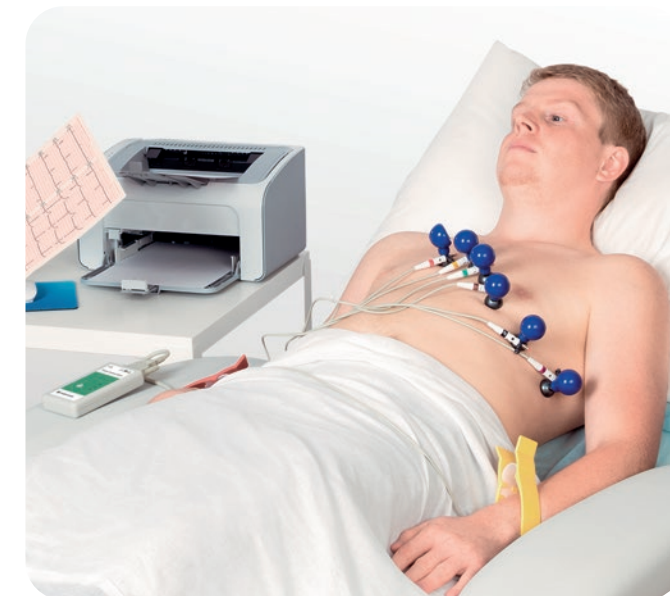
XPIRO

WIRELESS ULTRASONIC SPIROMETER

- Complies with ERS technical standards
- 50+ measured parameters
- Extensive database of reference values, including GLI-2012 (2021) and Z-score
- Standard FEV1 and FEV quality codes
- Control of parameters within the same system of predicted values
- No daily calibration required



DIGITAL ECG SYSTEMS
ECG



ERGOPOINT

EXPERT-CLASS ECG STRESS TEST SYSTEM WITH WIRELESS ECG
RECORDER AND ERGOMETER

- Exercise/stress test with continuous 1- to 12-channel ECG recording
- Wireless ECG transfer — clear ECG traces
- Full battery of exercise test protocols, including ramp protocol
- Real-time monitoring of all test parameters
- Manual and automatic load control

POLY-SPECTRUM-8/EX

WIRELESS 12-CHANNEL DIGITAL
EXPERT-CLASS ECG SYSTEM

- 12-channel ECG with automatic measurement and interpretation
- Portable and wireless
- Mobile application
- Best choice for the exercise stress test and CPET
- HRV, VLP, QT and sphygmogram analysis modules for enhanced functionality



SYSTEMS FOR CARDIAC REHABILITATION REHABILITATION



ACCORDIX

REMOTE ECG AND PHYSICAL ACTIVITY
MONITORING SYSTEM

- Real-time ECG, respiratory rate and physical activity monitoring with location tracking
- AI-powered real-time ECG analysis
- Seamless doctor–patient communication anywhere in the world
- Scalable to unlimited users
- Biofeedback-guided training



MULTITRAINER

CARDIAC REHABILITATION SYSTEM
WITH BIOFEEDBACK

- Cardiac rehabilitation of up to 16 patients simultaneously
- Wireless transfer of 12-channel ECG — interference-free recording
- Load/HR-controlled training
- Creation of comprehensive rehabilitation programs
- More than 10 different models of ergometers and treadmills are supported



EQUIPMENT FOR GAIT ANALYSIS AND TRAINING BIOMECHANICS



STEADYS-STEP

GAIT ANALYSIS AND TRAINING SYSTEM
WITH BIOFEEDBACK

- All-in-one: gait assessment and training system
- 10 minutes for clinical gait analysis
- 3D kinematics and dynamic EMG recording by one sensor
- Targeted gait rehabilitation using biofeedback technique and motivating virtual gaming environment
- Manual and automatic training modes



STEADYS-BALANCE

SYSTEM FOR BALANCE ASSESSMENT
AND REHABILITATION OF POSTURAL
FUNCTION WITH BIOFEEDBACK

- One sensor for a comprehensive balance analysis
- Simple screening and advanced examinations
- Balance assessment and rehabilitation in various postures
- Motivating games
- Manual and automatic training modes
- Progress tracking



STEADYS-KINEMATICS

SYSTEM FOR ASSESSMENT AND REHABILITATION
OF MOVEMENT ACTIVITY AND COORDINATION
WITH BIOFEEDBACK

- Objective analysis of joint and spine movements
- Synchronized EMG and joint movement analysis
- Only 2 minutes for examination
- Training of movement skills and coordination
- Motivating games
- Manual and automatic training modes
- Progress tracking



SYSTEMS FOR DIAGNOSTICS AND THERAPY OF LOWER URINARY TRACT DISEASES
UROLOGY



UroSmart

URODYNAMICS SYSTEM

- 3 pressure measurement channels
- Water-filled sensors
- 2 EMG channels
- Puller movement speed — from 0 to 5 mm/s
- Uroflowmetry nomograms — Liverpool, Miskolc, Siroky
- Pressure-flow nomograms – Abrams-Griffiths, Schäfer, ICS, Blaivas-Groutz
- Convenient arrangement of events (leakage, phase hyperactivity, terminal hyperactivity)
- Automatic calculation of the contractility index
- Streamlined workflow for urethral profilometry



RIVUS

UROFLOWMETER

- Diagnosis of lower urinary tract symptoms
- Accuracy of measurements up to 1 g (ml)
- Wireless UFM sensor
- PAD test
- Touchscreen interface and built-in thermal printer



SYSTEMS FOR DIAGNOSTICS AND THERAPY OF LOWER URINARY TRACT DISEASES
UROLOGY



NEURO-MSX

SYSTEM FOR EXTRACORPOREAL MAGNETIC STIMULATION
OF THE PELVIC FLOOR

- Treatment of urological, gynaecological and coloproctological disorders
- No psychotraumatic factors
- Non-invasive and painless
- Reliable solution for everyday practice



TIBI-STIM

DEVICE FOR ELECTRICAL STIMULATION
WITH A WIDE RANGE OF APPLICATIONS

- Safety and absence of side effects: minimal risk of complications
- Non-attended treatment: patients control their treatment via a wireless interface
- Ease of use: treatment can be performed both in a hospital and at home



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EQUIPMENT

of the international level, used by specialists in more than 100 countries worldwide



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