



EEG

BIOFEEDBACK

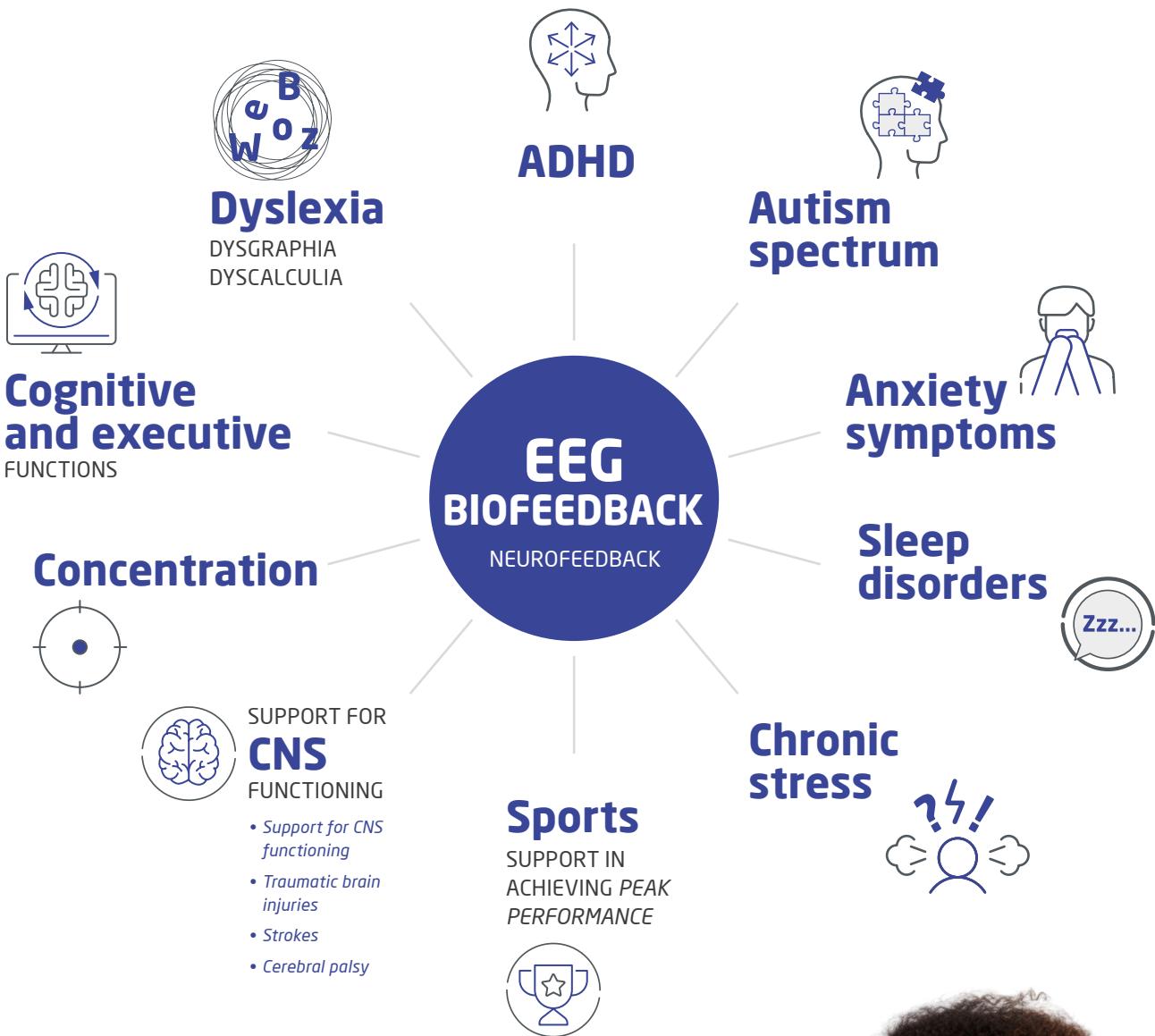
NEUROFEEDBACK



ELMIKO
EEG BIOFEEDBACK
SYSTEM
CERTIFIED MEDICAL DEVICE



el miko
Create to Help



Create to Help

THE ELMIKO EEG BIOFEEDBACK SYSTEM PROVIDES SOLUTIONS FOR:



WHAT IS EEG BIOFEEDBACK?

EEG Biofeedback (Neurofeedback) is a method of regulating brain activity based on real-time monitoring of brain waves. It enables individuals to learn how to consciously influence their brain activity through immediate feedback from EEG signals.

The goal of therapy is to improve brain self-regulation, which translates into better cognitive, emotional, and overall functioning. Most people experience improvements such as better concentration, reduced tension, and greater stress resilience, positively impacting daily functioning and social relationships.

The method is safe and suitable for children, adolescents, and adults, and can also serve as an alternative or complement to pharmacological treatment in selected neurodevelopmental and mental disorders.

The effectiveness of therapy is based on neuroplasticity—the brain's ability to adapt and form new connections. The effects can be long-lasting, especially with regular use. Additionally, the therapy increases self-awareness and supports emotional self-regulation even outside training sessions.



APPLICATION OF EEG BIOFEEDBACK

The therapy has the potential to bring significant benefits in mental health, cognitive performance, and learning efficiency. It is one of the most effective uses of modern technologies (advanced data analysis and interactive interfaces).

- Difficulties with regulating attention, emotions, impulsivity, and arousal (e.g., **ADHD, autism spectrum**)
- Specific learning difficulties (**dyslexia**, dysgraphia, dyscalculia)
- **Chronic stress, anxiety, sleep disturbances**
- **Fatigue**, difficulties with adaptation and self-regulation
- Support for people with central nervous system injuries (TBI, stroke, cerebral palsy)



ADDITIONAL APPLICATIONS

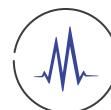
- Support for cognitive and executive functions (**attention, working memory, planning**)
- Training in tension regulation and **stress resilience**
- **Support in achieving peak performance in sports** and in high cognitive or emotional load situations





ADVANTAGES OF THE EEG BIOFEEDBACK SYSTEM

- **Intuitive and user-friendly** interface
- **Tracking patient progress using** a learning curve, allowing comparison of session outcomes
- **Over 130 specialized training screens** in 2D, 3D, and VR technology (standard package: 63 screens / 20 types, with an additional 73 screens / 29 types available)
- **Flexibility** - easy customization of training protocols and point sets, with the option to add additional frequency bands
- **QEEG diagnostics** available in the optional Biofeedback PLUS module
- **Artifact and noise removal** during signal analysis (available in the Biofeedback PLUS module)
- Database ensures compliance with **GDPR** data protection regulations



ADVANTAGES OF THE ELMIKO AMPLIFIER

- **Advanced EEG Biofeedback amplifier** with 2-4 channels or optionally 3-5 channels (including SpO₂ and pulse measurement)
- **Continuous impedance monitoring** for high-quality EEG signal
- USB communication
- Durable, lightweight, and **impact-resistant design**
- **Expandable** version up to 32-channel configuration, enabling simultaneous QEEG diagnostics from a larger number of electrodes

ADDITIONAL OFFER

- Remote and on-site technical support - **effective problem solving via phone or in person**
- **Modular device** expansion for upgrading facility equipment

- **Extensive accessory range**
- **Professional training** at the AKSON Education Center





SPORT NEW POSSIBILITIES

- Neurofeedback originates from NASA, where it was developed to help astronauts better manage stress without impairing logical thinking
- Professional and competitive athletes use neurofeedback therapy to enhance performance. Better stress control and focus help them reach a higher level of concentration and efficiency
- Neurofeedback techniques also support faster reactions to stimuli and help maintain optimal mental state during competition

ELMIKO CERTIFICATIONS



ELMIKO has implemented and certified a quality management system for medical device manufacturers in accordance with **EN ISO 13485:2016**



EEGDigiTrack® electroencephalographs comply with the requirements of the **93/42/EEC Medical Device Directive**



EEGDigiTrack® database complies with **GDPR** regulations



Management System
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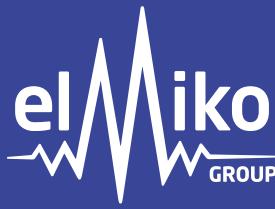
EEG BIOFEEDBACK TRAINING

To become an EEG Biofeedback therapist, several educational steps are required. Here are the recommended steps:

- **Required qualifications**
Training is intended for physicians, psychotherapists, educators, psychologists, speech therapists, teachers, neurophysiology specialists, physiotherapists, and EEG technicians
- **EEG Biofeedback training (our recommendation: AKSON Education Center)**
Includes learning how to conduct sessions, interpret results, and operate the equipment.
- Upon completion of the two-stage course, participants are prepared to independently conduct therapy. It is advisable to continue learning through practical QEEG workshops.

EEG Biofeedback therapist is a profession that combines knowledge, therapeutic and analytical skills. It requires qualifications, practical training, and ongoing professional development.





Create to Help

The **ELMIKO GROUP** is a Polish brand with extensive, international experience, providing interdisciplinary support to clinicians and therapists in neurology and related fields. Together, we provide high-quality equipment and modern diagnostic methods, while simultaneously training specialists and focusing on patient well-being.



Our brands



ELMIKO is a manufacturer and distributor of cutting-edge medical apparatus and innovative solutions for neurology and neurotherapy, including systems for EEG, CFM, EEG Biofeedback, tES, TMS, and EMG.

The **AKSON Education Centre** organizes and conducts training in neurodiagnostics and neurotherapy for physicians, medical technicians, psychologists, educationalists, and therapists, including EEG, EMG, QEEG, EEG Biofeedback, tES, TMS, and others.

NEURODIAGNOSTYKA, a centre for neurological diagnostics and neurotherapy, provides services to individual patients. It offers services on-site, in neurological clinics and at the patient's home, as well as providing diagnostic services and equipment leasing in hospitals and clinics.

ELMIKO VET, a manufacturer of veterinary neurological equipment. It offers advanced solutions that support veterinary clinicians in the field of animal neurology and neurotherapy, including EEG diagnostics, and pain management and treatment.



ELMIKO BIOSIGNALS
Sp. z o. o.



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