



In collaboration with International medical community

# HARDWARE AND SOFTWARE SYSTEM «**NEURRO**»

for reducing symptoms of ADHD and cognitive improvement in children aged 3 to 16



## DEVELOPED

For effective work with **any type of ADHD**  
(impulsive/hyperactive, inattentive, combined)

## SUITABLE

For kids and teenagers to improve working  
memory, concentration and focus, and to excel  
in academic studies

# MAIN INFORMATION AND USAGE



## PROFESSIONAL EQUIPMENT

With a cap and all necessary  
electrodes



## ACCESS TO MOBILE APPLICATION

With three types of training  
and a variety of  
neuro games



## STEP-BY-STEP INSTRUCTIONS

Detailed instructions and practical  
examples



# 3 MAIN WAYS OF USING THE HARDWARE AND SOFTWARE COMPLEX



## AT HOME

No special skills are required to use the hardware and software complex. Detailed instructions for parents are provided, as well as all the necessary equipment.



## IN MEDICAL FACILITIES

Within the framework of a medical institution, it is possible to conduct individual and group correctional courses for children with ADHD.



## IN SCHOOLS AND PRE-SCHOOLS

Using the hardware and software complex, correctional courses were implemented for 94 children aged 6 to 9 years.

For training sessions, you only need a phone with internet access and the ability to download a special application. The course duration is 20 sessions (16 minutes each)

### ADVANTAGES:

- ✓ Teachers or medical workers can control sessions.
- ✓ The complex has no side effects.
- ✓ It is impossible to harm a child or make a mistake using a session.



# 3 KEY STAGES OF WORKING WITH CHILDREN AND TEENAGERS WITH ADHD

## 1. PRE-DIAGNOSIS:

- To establish or confirm a diagnosis.
- To identify individual theta, alpha, and beta ranges that are shifted in children with ADHD and to build the process of the most effective training.
- Our experts provide detailed instructions on diagnostics—GoNoGo tests (six times in a row with the results saved), Delayed Gratification, and 21-channel EEG studies in a special format.
- After receiving the results, our experts notify about the possibility of moving on to the next stage - the training stage.

## 2. TRAINING AS PART OF THE CORRECTION COURSE

- Before training, a **calibration process** is implemented to identify current individual ranges and the average EMG value.
- Before the first training, two Schulte tests are performed. The results are recorded.
- Training is conducted 3-4 times a week. Optimally - every other day.

*\* Calibration consists of 30 sec. in the closed-eye state plus 8 sec. in the open-eye state.*

*The result of calibration is finding the Alpha peak, the alpha1 and alpha2 boundaries (a 20% drop in power of the OG against the CG), as well as the Theta (3 Hz - Alpha1 boundary) and beta (Alpha2 boundary - 20 Hz) ranges.*

## 3. POST-DIAGNOSIS: RESULTS CONTROL

- 20 training sessions of 16 minutes each are recommended, but individual programs are possible, taking into account alpha parameters.
- After completing the course, an interview is conducted with parents and school teachers to identify positive dynamics.
- Two Schulte tests are conducted to compare the results.
- The GoNoGo test is conducted six times in a row to identify changes and maintain individual results.

# HOW CORRECTIVE TRAINING HELP REDUCE ADHD SYMPTOMS

## TRAINING SESSION

- The child or a medical professional selects a non-training session, which is a game.
- The child begins to play or control the game situation.
- The equipment monitors the EMG threshold and other indicators.
- If the parameters are exceeded, the game is suspended.
- The game is started only after the forehead relaxes and the indicators return to the acceptable range.

## CHILD

- The child easily and happily attends the remedial course thanks to the game form of training.
- During training, the child learns to notice when the emotional state goes beyond the normal level.
- Learns to calm down in time, manage concentration and attention, relax and tense muscles.

## RESULTS

- After the correction course, children can better manage their condition, stress and emotions in life.
- The child's concentration and attention improve.
- Social interaction and self-regulation skills are strengthened.
- The ability to follow established rules, requirements and regulations appears and develops.

# THREE TYPES OF TRAINING

## AVAILABLE IN THE “NEURRO” MOBILE

### TBR (THETA BETA RATIO) TRAINING

- Classical training takes into account the individual range and average EMG value of the child.
- Aimed at improving concentration.

Suitable for the first neuro training.  
In the future, you can use enhanced training.

### ALPHA2 TRAINING

- Advanced training, which takes into account the individual range and average EMG value of the child.
- Aimed at improving concentration.

Showed the highest efficiency in the course of practical studies.

### ALPHA2/ALPHA1 TRAINING

- Intensive training takes into account the individual range and average EMG value of the child.
- Aimed at improving concentration and attention.

Showed the highest efficiency in the course of practical studies



# CONNECTING ‘NEURRO’ DEVICE

1

## Download

the mobile app to any device

2

## Register

using your email or Google account

3

## Put professional equipment

on your child according to the instructions -  
cap, electrodes

4

## Select

training and game from the list of  
suggested ones

5

## Training has started

Follow the instructions and prompts  
in the app.



neurro

Hardware and software system for  
reducing symptoms of ADHD

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# THE HARDWARE AND SOFTWARE COMPLEX "NEURRO"

APPROVED BY THE RUSSIAN SCIENTIFIC AND MEDICAL COMMUNITY

## DEVELOPED BY

Russian and International scientists. Based on the research work of Olga Mikhailovna Bazanova (professor of the Moscow Institute of Physics and Technology) entitled: "On the Efficiency of Individualized Theta/Beta Ratio Neurofeedback Combined with Forehead EMG Training in ADHD Children".

## GUIDED BY

- The Medical Ethics Committee of the "Academy of Medical Sciences" (Siberian Branch)
- The Helsinki Declaration of the "World Medical Association"
- The American Psychiatric Association (the criteria established for ADHD within the DSM-IV)

## IMPLEMENTED

By a scientific and medical company that has been producing professional medical equipment since 1992: Neurotech LLC.

## CONTACT

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