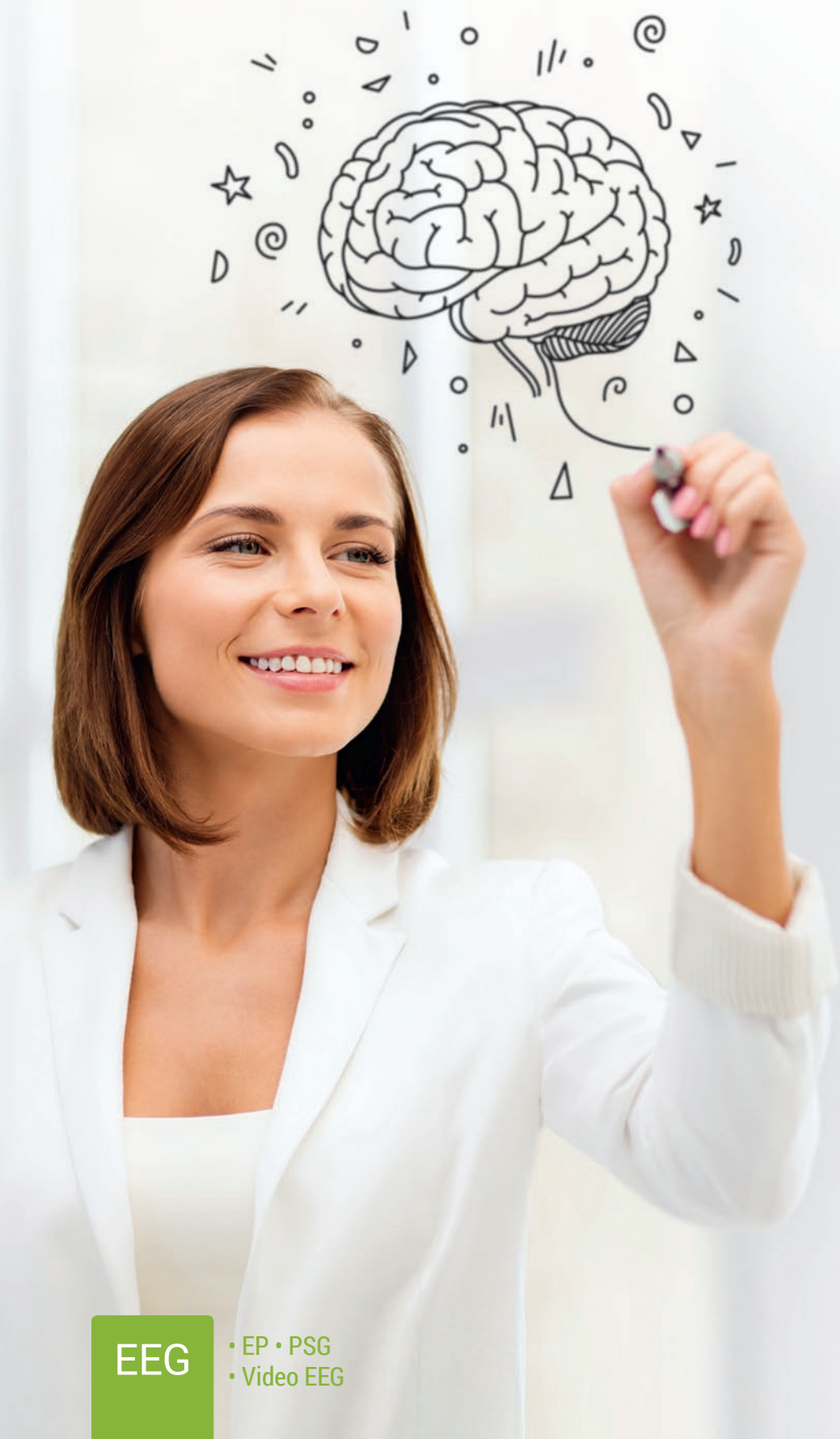
NEURON-SPECTRUM-1/BFB

System for Biofeedback Trainings



- no absolute contraindications
- extensive interactive content for biofeeback
- two-channel and multi-channel EEG acquisition
- trainings using parameters of EEG, HR, EMG, respiratory rate, GSR, SpO_2, temperature
- proven efficiency
- software is compatible with all Neurosoft EEG systems

EEG

• EP • PSG
• Video EEG

Neurosoft

BIOFEEDBACK – NEW WORD IN THERAPY AND REHABILITATION

Nowadays the therapy efficiency with biological feedback methods is beyond any doubt. The development of self-regulation skills allows the individuals to use efficiently the body's reserves, get rid of the disturbing symptoms without any assistance and improve significantly the quality of life.

Neuron-Spectrum-1/BFB, new Neurosoft solution, provides extensive customization of training profiles for each patient individually using a wide range of biological feedbacks. Our compact system combines the signal-acquisition advances provided with EEG recorder and expert training capabilities. The Neuron-Spectrum.NET software allows you to assess the training success and generate automatically the report.

EEG Recorder

allows you recording the physiological signal during the training.

Accessories

needed to perform the BFB training are already included in base delivery set of Neuron-Spectrum-1/BFB. Upon your request we can customize the delivery set and offer you the set just for you.

Scalable Software

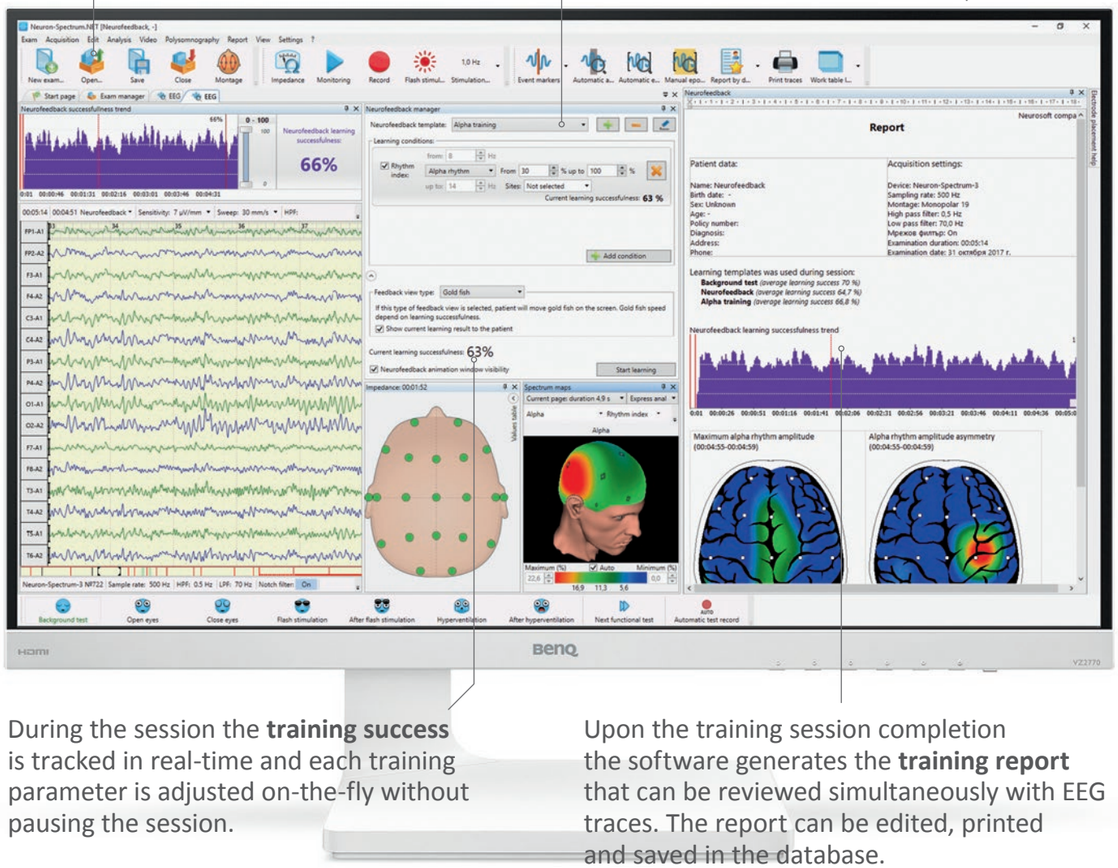
allows tailoring the training profile for each patient individually. The acquisition of wide range of physiological parameters ensures the training efficiency, and the colorful graphics with various images of interactive content increases training involvement in patients.

SOFTWARE FEATURES

All training sessions of the patient can be stored in the **database**. During the follow-ups you can easily find the required patient card, review the training session history and analyze the training efficiency.

Customization of **patient's training profile** allows performing the training session in the semi-automatic mode.

Specialist's window



During the session the **training success** is tracked in real-time and each training parameter is adjusted on-the-fly without pausing the session.

Upon the training session completion the software generates the **training report** that can be reviewed simultaneously with EEG traces. The report can be edited, printed and saved in the database.

Patient's window

The Neuron-Spectrum-1/BFB software has integrated training protocols where the obtained physiological signal can be associated with the images, photos, films, games and music. The specialist can choose from the variety of the offered options or even use its own one.

TYPES OF BFB TRAININGS

Neurofeedback

Training using power spectrum of EEG rhythms

- ✔ Implementation of standard protocols: alpha-theta training, beta-training
- ✔ Creation of customized protocol intended to increase the selected EEG rhythms
- ✔ Adjustment of EEG power spectrum
- ✔ Intergation with Neuroguide* in BFB mode. The patient data can be exported to Neuroguide* program to compare the obtained EEG parameter values with the reference ones (database of 625 patients aged 2 months – 82 years) in order to clarify the diagnosis and generate the individual training protocol

Biofeedback

Training using respiratory rate, heart rate, EMG signal amplitude, galvanic skin response parameters or temperature

- ✔ BFB training using one or several parameters. It can be useful when the training is focused on the patient's relaxation or the neuromuscular training is required
- ✔ Patient-focused training course tracking the patient's state and estimating the training progress
- ✔ Tailoring of individual training profile for each patient

* Applied Neuroscience brand. This option is activated if Applied Neuroscience license is available

Neurogal

Avda. Hispanidad, 57 - Of. 5 - 36203 Vigo - Pontevedra
+34 986 11 57 10 - info@neurogal.es - www.neurogal.es

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Neurosoft

www.neurosoft.com, info@neurosoft.com