

Psychophysiological telemetric system "Rehacor-T" (version "Mini")

catalogue



Functional biocontrol with biofeedback "Rehacor"

- BFB
- NFB

- Heart rate variability "HRV"
to assess the state of the
autonomic nervous system

Main purpose

multifunction patient
unit



Objective psychological analysis and testing system "Egoscop"

- EEG and EP studies with
audiovisual stimulation
"Encephalan-AVS"

- "Encephalan-MPA" for analysis of
signals through polygraphic
channels



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* The external appearance of the products is given as an example and may have some differences that do not affect functionality when delivered.



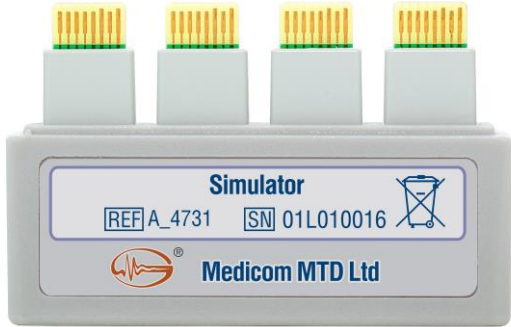
Psychophysiological telemetric system “Rehacor-T”

The effective use of the **Psychophysiological telemetric system “Rehacor-T”** in restorative, sports, industrial, departmental medicine, psychophysiology, psychology, as well as for scientific research is ensured by the high-quality registration of psychophysiological parameters by the ABP-4 patient unit and additional wireless units, modules, sensors and accessories, as well as software and methodological support (software) from the device, in accordance with the registration certificate of the Federal Service for Surveillance in Healthcare No. FSR 2010/07253 of November 07, 2014.

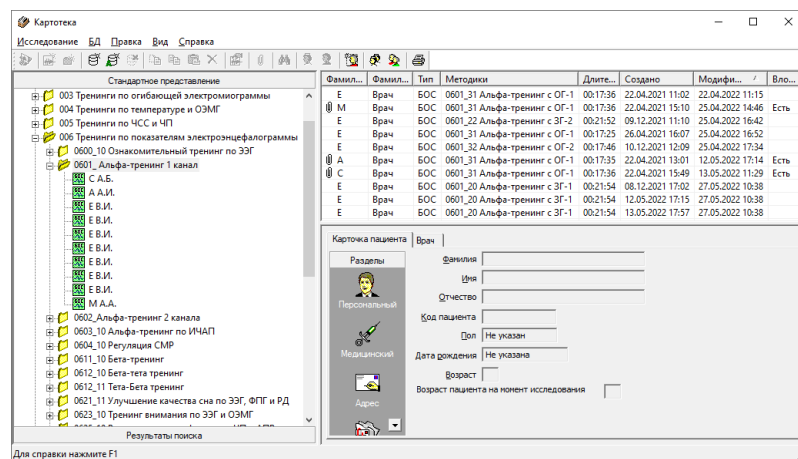
Functional purpose of software from the composition of Psychophysiological telemetric system "Rehacor-T":

| Name of software | page | Comment |
|--|-----------|--|
| Functional biocontrol with biofeedback “Rehacor” | 8 | The Software includes a large set of pre-installed training scenarios with biofeedback - BFB (biofeedback) and NFB (neurofeedback) to improve nervous regulation in various disorders, increase stress resistance and condition correction, as well as teach self-regulation skills and optimal functioning of athletes, students, topmanagers, extreme profile specialists .Evaluation of sessional and course efficacy is provided. The scenario editor allows you to create new personalized scenarios. |
| Objective psychological analysis and testing system “Egoscop” (patent RF №2319444) | 22 | A new innovative level of psychodiagnostics before and after training with BFB helps to evaluate the effectiveness of the training course. In the process of testing, the parameters of the motor activity of the subject's hand are synchronously recorded on a touch screen tablet, as well as physiological parameters that reflect emotional reactions. This technology provides an objective analysis and evaluation of data in relation to the semantic clusters of tests included in the “Egoscop” software to assess the client's condition. |
| Heart rate variability “HRV” to assess the state of the autonomic nervous system | 26 | Assessment of the state of the autonomic nervous system and neurohumoral regulation of the client based on the study of heart rate variability to assess the adequacy of physical and psycho-emotional stress. |
| “Encephalan-MPA” for analysis of signals through polygraphic channels (RF patent 2252692), including recording them on the memory card of the ABP-4 | 27 | Provides calculation and visualization of EEG trends, recorded signals and calculated parameters, including trends that reflect the cardiocycle (in relation to ECG R waves) dynamics of various physiological parameters of the cardiovascular (CVS), autonomic (ANS) and central nervous systems (CNS). Software "Encephalan-MPA" can be used in psychophysiological research. |
| EEG and EP studies with audiovisual stimulation “Encephalan-AVS” | 27 | EEG and EP studies to solve various scientific and practical problems of studying the mechanisms of perception in neurology and psychophysiology, using scenarios of audiovisual cognitive stimulation. |
| Electronic card file for data storage – “Cardfile” . | 6 | Recording and storage of data on ongoing sessions and training courses and client data, preparation of output documents, printing of research results. |

| Item # | Ref. no. | Photo | Name | Comment | |
|---|--|---|--|--|--|
| Psychophysiological telemetric system “Rehacor-T” model Mini | | | | | |
| To form a sales package, select from this table a transceiver-recorder ABP-4, its accessories, electrodes and sensors, additional modules and software. | | | | | |
| 1. | Sets of autonomous patient transceiver-recorder (ABP-4) of “Rehacor-T” system | | | Select one of the ABP-4 equipment sets | |
| 1.1. | A_6038-3 | “BFB-telemetric” set | | | |
| 1.1.1. | A_5321 |  | Patient Multifunction Transceiver “ABP-4” - 4 universal polygraphic channels, 1 movement activity channel (integrated), telemetric interface (BlueTooth®) of PC connection (USB-port) to additional wireless devices. | Provides: connection with additional wireless units, modules and sensors Set A_6038 must be supplemented depending on the chosen application: <ul style="list-style-type: none">• a set of sensors, electrodes and accessories;• required software (from sections 3-5);• accessories, wireless modules;• computing hardware• (section 8). | |
| 1.1.2. | – | A set of accessories, devices, documentation and software for the Patient Multifunction Transceiver “ABP-4” from the “BFB-telemetric” set (A_6038-3), including: | | | |
| 1.1.2.1. | A_8978 |  | Transceiver fixing set | | |
| 1.1.2.2. | A_2334 |  | Rechargeable batteries set (type – AA, 2 pcs., including 1 - spare) | | |

| | | | | |
|----------|--------|---|----------------------------|--|
| 1.1.2.3. | A_2894 |  A black Kweller X-1800 battery charger with a power cord and a charging cable. The device has four slots for batteries and a digital display at the bottom. | Battery Charger | |
| 1.1.2.4. | A_0294 |  A white wireless PC adapter with a USB cable and a coiled cable. The device has a wireless symbol and a logo. | Wireless PC Adapter “IB-4” | |
| 1.1.2.5. | A_4731 |  A white simulator device with four yellow connectors. The label reads: Simulator, REF A_4731, SN 01L010016, and Medicom MTD Ltd. | Simulator | |
| 1.1.2.6. | A_4822 |  A white snap connector wire with a circular snap and a coiled cable. | Snap Connector Wire | |

1.1.2.7. A_2348



“Cardfile” software for patient data management

Recording and storage of data on ongoing sessions and training courses and client data, preparation of output documents, printing of research results

1.2. A_6038-4

“Autonomous-Telemetric” set

1.2.1. A_5321



Patient Multifunction Transceiver “ABP-4” (with memory card): 4 universal polygraphic channels, 1 movement activity channel (integrated), telemetric interface (BlueTooth®) of PC connection (USB-port) to additional wireless devices.

Built-in memory card for offline recording of signals.

Provides:

- telemetric connection to the base station (PC) for registration quality control during the attachment of sensors and electrodes;
- connection with other modules during the study;
- autonomous data logging with recording to a memory card;
- transfer of recorded data from the memory card to the base station after the study.

1.2.2. –

The set of accessories, devices, documentation and software for the Patient Multifunction Transceiver “ABP-4” from the “BFB-autonomous-telemetric” set corresponds to the set according to clause 1.1.2. “BFB-telemetric” set (A_6038-3)

Set A_6038-4 must be supplemented depending on the chosen application:

- a set of electrodes, sensors and accessories;
- required software (from sections 3-5);
- accessories, wireless modules;
- computing hardware (section 8).

| 2. | Additional accessories of psychophysiological telemetric system “Rehacor-T” | | | |
|------|---|---|--|--|
| 2.1. | A_5228 |  | USB Power Supply Adapter (for ABP-4) | For stationary use, alternatively to autonomous powering from accumulators. |
| 2.2. | A_5362 |  | Table support for ABP-4 | The need to purchase the table support is determined by the Customer. |
| 2.3. | A_2329 |  | SW-key (USB) | Allows working with software at any additional PC, including network variant for processing the received data. |

3.

Software “Rehacor” for functional biocontrol with biofeedback; required equipment and accessories

3.1.

A_1010-01



Software “Rehacor” for Functional Biocontrol with Biofeedback Training library, version “Basic”, including:

- assessment tests of the current psychophysiological status;
- temperature biofeedback trainings;
- temperature-electromyographic biofeedback trainings;
- pulse and heart rate biofeedback trainings;
- electromyographic biofeedback trainings;
- neurofeedback trainings (basic version);
- respiratory biofeedback trainings;
- resonant frequency based heart rate variability biofeedback trainings (basic version);
- blood circulation biofeedback trainings (basic version);
- electrodermal biofeedback trainings.

Requires electrodes, sensors and accessories from the ABP-BFB kit (A_4626, A_2229, cl.3.3 and cl.3.3.1).

Possible extensions of the “basic” library:

- “Professional” version of the library.

- additional devices with trainings:

- procedure of adaptive model of operator activity (A_1010-11, cl.3.2.1);
- biofeedback trainings for children (A_1010-12, cl.3.2.2);
- cerebral and central hemodynamics parameters trainings (A_4771, cl.3.5);
- neurofeedback trainings advanced (A_6595-2, cl.3.6);
- stress resistance trainings with electrical stimulation (A_4008, cl.3.7);
- BFB Rhythms trainings – interactive metronome (A_6354, cl.3.7);
- BFB Balance trainings (balance-platform included) (A_2732-02, cl.3.8);
- BFB trainings with handgrip dynamometer for the formation of muscle tension (strength) management skills with an assessment of changes in the functional state (A_6008, cl.3.9).

3.2.

A_1010-02



Software “Rehacor” for Functional Biocontrol with Biofeedback Training library, version “Professional”

in addition to the trainings library version “Basic”, includes:

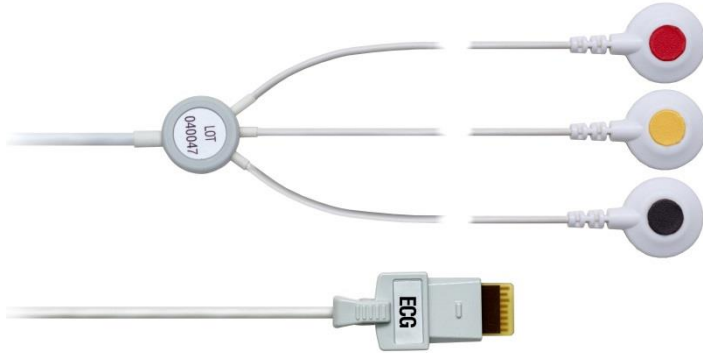
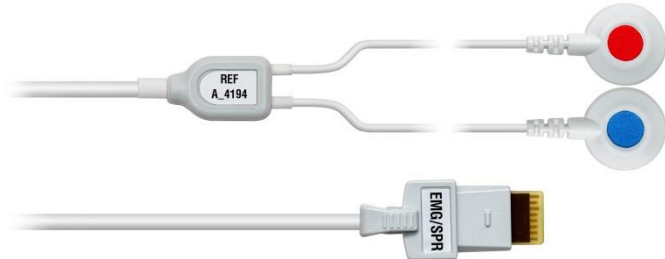
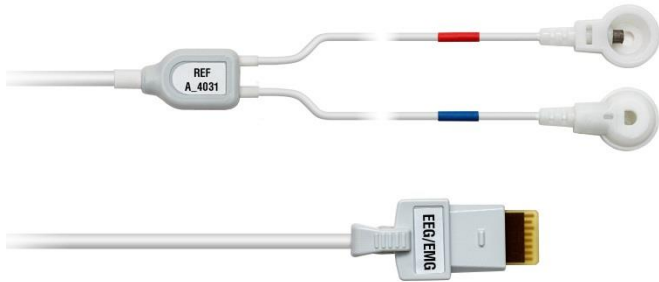

- neurofeedback trainings (professional version);
- optimal functioning multimodal training;
- multimodal trainings for meditation;
- resonant frequency based heart rate variability biofeedback trainings (professional version);
- blood circulation biofeedback trainings (professional version).





Requires electrodes, sensors and accessories from the ABP-BFB kit (A_4626).

Extensions of the “professional” library with additional ones training devices:


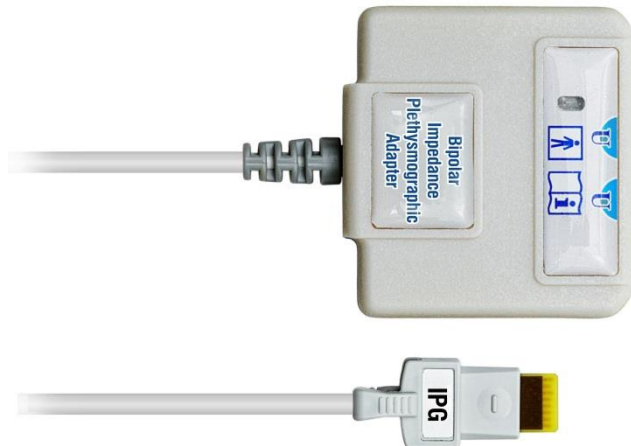
- procedure of adaptive model of operator activity (A_1010-11, cl. 3.2.1);
- biofeedback trainings for children (A_1010-12, cl.3.2.2);
- cerebral and central hemodynamics parameters trainings (A_4771, cl.3.5);
- neurofeedback trainings advanced (A_6595-2, cl.3.6);
- stress resistance trainings with electrical stimulation (A_4008, cl.3.7);
- BFB Rhythms trainings – interactive metronome (A_6354, cl.3.7);
- BFB Balance trainings (balance-platform included) (A_2732-02, cl.3.8);
- BFB trainings with handgrip dynamometer for the formation of muscle tension (strength) management skills with an assessment of changes in the functional state (A_6008, cl.3.9).



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| 3.2.1. | A_1010-11 |  | <p>Inclusion in the Software “Rehacor” for Functional Biocontrol with Biofeedback versions “Basic” or “Professional”, biofeedback training - Adaptive model of operator activity (AMOA) with joystick</p> <p>Procedure for assessment of functionality of the client using adaptive model of operator activity (AMOA), provides modeling of various types of activities of the client with simultaneous registration of his physiological parameters and is designed to study the ability of a person to solve diverse tasks with adaptively changing complexity.</p> | <p>Ability to work with a standard mouse.</p> |
| 3.2.2. | A_1010-12 |  | <p>Inclusion in the Software “Rehacor” for Functional Biocontrol with Biofeedback versions “Basic” or “Professional”, Biofeedback trainings for children, including:</p> <ul style="list-style-type: none"> • Alpha increase for children; • Theta decrease for children; • Beta/theta training for children (coloring book, puzzle, game); • Beta increase for children; • SMR regulation for children; • Diaphragmatic breathing for children; • GSR training for children. | <p>BFB trainings for children group includes trainings for younger ages and older ages with appropriate animated content.</p> <p>Respiratory trainings, galvanic skin response (GSR) trainings, are designed to reduce the activity of the sympathetic nervous system and the severity of vegetative manifestations, emotional stress, and increased anxiety.</p> <p>Neurofeedback trainings advanced is designed to develop the skill of mental relaxation, eliminate emotional and physical stress, improve cognitive functions and behavior, as well as improve children's creativity and memory.</p> |


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| 3.3. | A_4626 | BFB Accessories Kit, including: | | Provides procedures from training libraries of "Basic" or "Professional" versions |
| 3.3.1. | A_4740 |  | ECG-Cable ("ECG") | To register an ECG during the analysis of the heart rhythm as a separate type of study |
| 3.3.2. | A_4194 |  | Bipolar Cable for EMG,SPR (with snap connectors) | |
| 3.3.3. | A_4031 |  | EEG Bipolar Lead (2 cables included) | They are used when there is an N-electrode attached on the patient, connected to the same registration unit, to which these cables can be connected. Electrode paste EC2, TEN-20 or equivalent is required . |
| 3.3.4. | A_4143 |  | GSR Sensor | . |



| | | | | |
|--------|----------|---|--|---|
| 3.3.5. | A_5119-2 |  | Skin Conductance Sensor | |
| 3.3.6. | A_4142 |  | Envelope EMG sensors (2 sensors included) | |
| 3.3.7. | A_4139 |  | Temperature sensor (2 sensors included) | |
| 3.3.8. | A_2673 |  | Respiratory Effort Sensor (2 sensors included) | To register thoracic and abdominal breathing, you must purchase two respiratory effort sensors. |



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| 3.3.9. | A_4141-2 |  | Surface PPG Sensor | |
| 3.3.10. | A_0343 |  | Brush for electrode cleaning | |
| 3.3.11. | A_2714 |  | Disposable ECG Electrode | Used as self-adhesive electrodes for recording ECG, EMG, EEMG and as a neutral N electrode with appropriate sensors. The recommended electrode diameter is 24-26 mm. |
| 3.3.12. | A_1302 |  | Adhesive plaster | Recommended for adhesive EEG electrodes (with EC2, TEN-20 or similar paste) for preliminary fixation before gluing them with collodion for PSG studies or neuromonitoring |
| 3.3.13. | A_2129 |  | Electrode adhesive paste | |


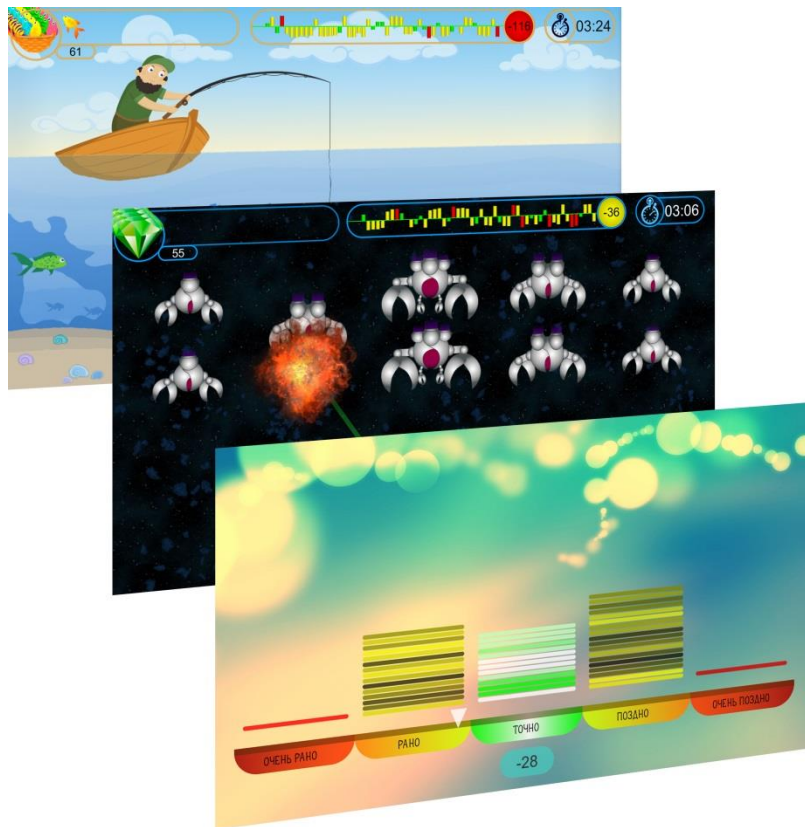
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| 3.4. | A_2229 |  | ECG Electrodes Set (Reusable Clamp, 3 pcs.) | Can be used in biofeedback training using ECG as an alternative to disposable electrodes |
| 3.5. | A_4771 | Bipolar Impedance Plethysmographic Adapter with the addition of the Software “Rehacor” for Functional Biocontrol with Biofeedback library with cerebral and central hemodynamics parameters trainings and the addition of a set of electrodes | | For trainings of cerebral hemodynamics parameters and trainings of central hemodynamics parameters, as well as for systemic analysis of hemodynamics with the software “Encephalan-MPA” (A_0803) |
| 3.5.1. | A_4771-02 |  | Bipolar Impedance Plethysmographic Adapter | |


| | | | | |
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| 3.5.2. | A_1010-13 |  <p>The screenshot displays a biofeedback training interface. At the top, there's a colorful abstract background with a fish. Below it, a blue bar shows '84 ЧСС, уд/мин' (Heart Rate) and '6.280' (likely a score or index). A puzzle game is visible in the center, with '0.135' and '81 ЧСС' (Heart Rate) on the sides. At the bottom, a line graph shows '0.196' and '93' (likely a score or index). The interface includes various labels like 'Контроль качества регистрируемых сигналов' (Quality control of recorded signals), 'Регистр физиологического индекса, Ом' (Physiological index register, Ohm), 'Счётчик пазлов' (Puzzle counter), 'Успешность тренинга' (Training success), and 'Плесс, %' (Pulse, %).</p> | <p>Cerebral hemodynamics parameters biofeedback trainings:</p> <ul style="list-style-type: none"> • Cerebral blood flow increase or decrease; • Cerebral arteries tone decrease; • Cerebral venous drainage normalization; • Cerebral blood flow increase or decrease with alpha rhythm training. <p>Central hemodynamics parameters biofeedback trainings – stroke volume increase or decrease.</p> | <p>BFB training of cerebral hemodynamics parameters is used to master the skills of regulation of cerebral circulation in healthy people, as well as in the syndrome of vegetative-vascular dystonia and neurocirculatory dystonia, the initial stages of hypertension, migraine, discirculatory encephalopathy, and the correction of functional manifestations of the consequences of traumatic brain injury.</p> <p>BFB training of central hemodynamics parameters is used to teach the skills of regulating central hemodynamics in healthy people to improve the pumping function of the heart and lower blood pressure, as well as to correct the manifestations of neurocirculatory dystonia syndrome.</p> <p>Additional inclusion of procedures in the "basic" or "professional" library.</p> |
| 3.5.3. | A_5339 | <p>Accessories and Electrodes Set for Impedance Plethysmographic Adapter RB, including</p> | | |
| 3.5.3.1. | A_9934 |  <p>The image shows four white cables. The top two have circular connectors with red and white centers. The bottom two have different types of connectors, including a snap connector and a circular electrode.</p> | <p>Set of snap connectors wire (length 1.5 m, 2 cables included)</p> | |



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| 3.5.3.2. | A_2665 |  | REG electrode EREG-04 (2 electrodes included) | |
| 3.5.3.3. | A_7282 |  | Ribbon electrode ELRG-40 (length - 0.4 m, 2 electrodes included) | |
| 3.5.3.4. | A_9922 |  | Fixing strap for REG electrodes | |
| 3.5.3.5. | A_8978 |  | Transceiver fixing set (for rheoadapter and ES-03) | |

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| 3.6. | A_6595-2 | EEG-electrode set “Encephalan-ES” with adhesive cup electrodes and addition Software “Rehacor” for Functional Biocontrol with Biofeedback library neurofeedback trainings advanced | Electrode system ES-EEG-4K-3A[c] – from the kit of “Encephalan-ES” |
| 3.6.1. | A_6595-2 | EEG-electrode set “Encephalan-ES” with adhesive cup electrodes and for EEG registration. Included - adhesive plaster (A_1302).  | Requires adhesive paste. For additional long-term fixation , collodion glue, a remover for it and a compact hair dryer for quick drying of the glue can be used (purchased independently in the pharmacy and distribution network, consultations on request) |
| 3.6.2. | A_1010-14 |  | Neurofeedback trainings advanced <ul style="list-style-type: none"> • Brain zonal differences training by four electroencephalographic derivations; • Brain function asymmetry training with heart rate and skin conductance control; • Brain function asymmetry training by four electroencephalographic derivations; • Brain function asymmetry training by four electroencephalographic derivations with physiological parameters control; • Regulation of slow cortical potentials; • Brain function asymmetry training against anxiety by two electroencephalographic derivations; • Training for meditation by four electroencephalographic derivations and multimodal parameters control. Additional inclusion of neurofeedback trainings advanced in the “basic” or “professional” library of “Rehacor” software. |

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| 3.7. | A_4008-9 | Wireless Electrostimulator with addition Software “Rehacor” for Functional Biocontrol with Biofeedback library stress resistance trainings with electrical stimulation | | |
| 3.7.1. | A_4008-03 |  <p>The image shows a white, rectangular Wireless Electrostimulator device with a blue top and bottom. It features several icons on the front: a battery level indicator, a warning symbol, a Bluetooth symbol, a heart rate monitor symbol, and a power button. Below the icons, it says "Wireless Electrostimulator", "REF A_4008", and "Medicom MTD Ltd".</p> | <p>Wireless Electrostimulator</p> <p>Included - AAA battery</p> <p>Purposed to simulate stressful effects (moderately painful electrocutaneous stimulation) at some stages of stress resistance trainings with electrical stimulation (A_1010-15).</p> <p>Attached on the wrist.</p> | |
| 3.7.2. | A_1010-15 |  <p>The image shows three overlapping screenshots of the Rehacor software interface. The top screenshot shows a pink lotus flower on a pond with a score of 80. The middle screenshot shows a lightning bolt with a score of 20. The bottom screenshot shows a landscape with a score of 12.8 and a bar chart.</p> | <p>Stress resistance trainings with electrical stimulation including:</p> <ul style="list-style-type: none"> • Stress resistance improvement training with electrical stimulation by galvanic skin response • Stress resistance improvement training with electrical stimulation by skin conductance • Stress resistance improvement training with electrical stimulation by skin conductance, electromyogram, temperature | <p>Additional inclusion of stress resistance trainings with electrical stimulation to the “basic” or “professional” library of the “Rehacor” software.</p> |

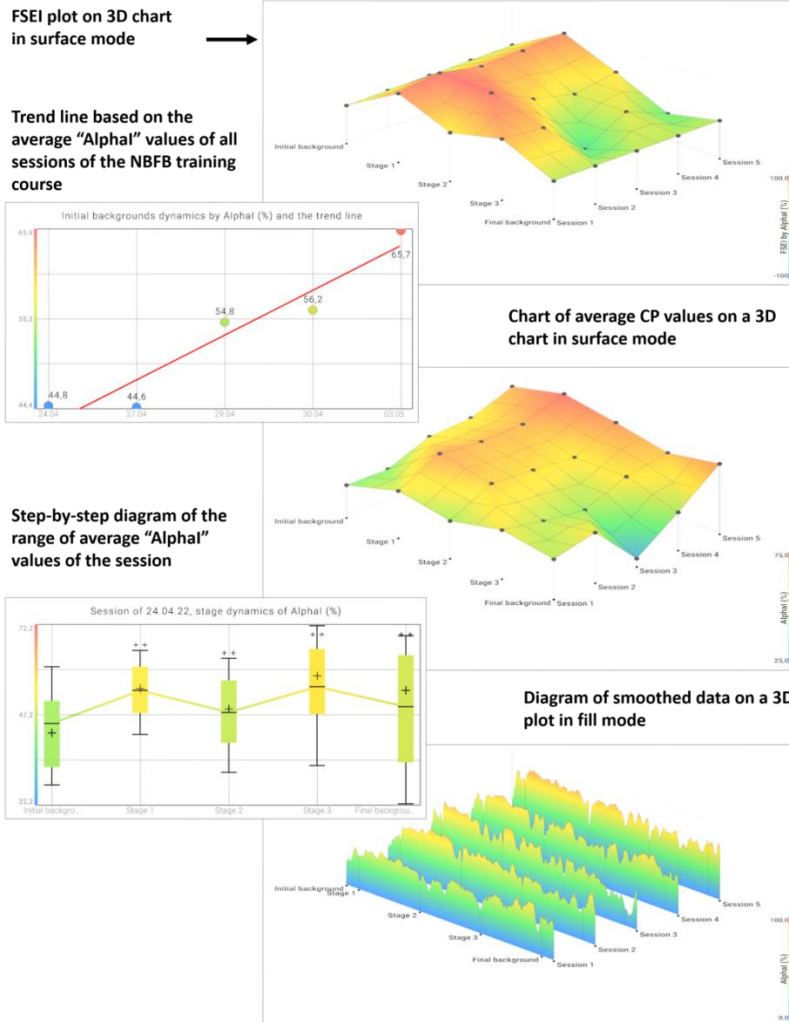
| | | | | |
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| 3.8. | A_6354 | Pad for tapping test with addition Software “Rehacor” for Functional Biocontrol with Biofeedback library BFB Rhythms trainings - interactive metronome | | |
| 3.8.1. | A_6354 |  | Pad for tapping test | |
| 3.8.2. | A_1010-16 |  | BFB Rhythms trainings - interactive metronome <ul style="list-style-type: none"> • diagnostic tests (reproducing sound patterns The Stambak test) - assessment of the ability of perception and reproduction of sound patterns of varying complexity; • trainings of “BFB rhythm” with the master rhythm (interactive metronome) – training in the skills of “sensory-motor synchronization” based on increasing the accuracy of reproducing a given time interval; • trainings of “BFB rhythm” using sound patterns - improving the accuracy of perception and reproduction of sound patterns of varying complexity in order to form a “sense of rhythm” and “sense of time”, improve the speed aspects of processing auditory information, increase the success of cognitive activity and non-drug rehabilitation of various brain dysfunctions. | <p>The trainings that are part of “BFB Rhythm” are intended for both children and adults in order to diagnose the state of the central nervous system and train athletes, musicians, students of educational institutions, etc.</p> <p>Additional inclusion of “BFB Rhythm - interactive metronome” trainings in the “basic” or “professional” library of “Rehacor” software.</p> |

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| 3.9. | A_2732-2 | Wireless Movement Sensor with addition Software “Rehacor” for Functional Biocontrol with Biofeedback library with BFB Balance trainings (balance platform included) | | |
| 3.9.1. | - |  | Wireless Movement Sensor (A_2732-04) built into the balance-platform (wobble A_6169-03) included – AAA battery | |
| 3.9.2. | A_1010-17 |  | Trainings library for the formation of skills of stability and coordination of movement on the balance platform Balance training for stability with the task of maintaining the position of the center of gravity of the body and minimizing the movements of the balance platform using various interactive games – “Arctic”, “Jinn”, “Balloon”, “Space”, “Tropics”, “Underwater World”, “Ostrich”, “Vampire”, “Football player” and etc. Balance training for the coordination of movement with the movement of the surface of the balance platform in different directions in response to the stimuli of the master pattern, they increase the mobility and support of the foot, strengthen the muscles of the foot, lower leg and back. | Trainings are purposed to improve the maintenance of a vertical posture and a sense of balance, improve coordination of movements, strengthen the muscular corset of the spine and leg muscles, and improve athletic performance in various sports. Additional inclusion trainings for the formation of skills of stability and coordination of movement on the balance platform in the “basic” or “professional” library of the “Rehacor” software. |

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| 3.10. | A_6008 | Handgrip Dynamometer: Medical digital handgrip dynamometer DMER-120 with addition software “Rehacor” library trainings with handgrip dynamometer for the formation of muscle tension (strength) management skills with an assessment of changes in the functional state | | |
| 3.10.1. | A_6008 |  | Handgrip Dynamometer: Medical digital handgrip dynamometer DMER-120 | |
| 3.10.2. | A_1010-19 |  | BFB-trainings with handgrip dynamometer for the formation of muscle tension (strength) management skills with an assessment of changes in the functional state Includes trainings purposed to develop muscle sensation in both static and dynamic modes; to train the “sense of effort” in various activities; for ideomotor training of muscles in order to enhance mental processes, resulting in improved muscle strength and accuracy of movements. | Addition inclusion trainings with handgrip dynamometer in the “basic” or “professional” library of the “Rehacor” software. |

3.11.

A_2577-45.



Efficacy evaluation of BFB trainings part of Software for functional biocontrol with biofeedback training "REHACOR"

The software provides an assessment of the effectiveness and success of the BFB training in the processing mode in post-real time, in particular:

- quantifying the success of each managed stage of the session;
- quantitative assessment of the success of the BFB training session;
- quantitative assessment of the effectiveness of the full course of the conducted BFB trainings.

Monitoring the success of the BFB training is necessary for the instructor to confirm that the goals of the BFB training session are achieved as it progresses or at least tend to achieve the goal. Success control is also needed to be able to timely identify the absence of expected positive results or the appearance of some negative trends in the dynamics of physiological indicators in order to be able to adjust the course of the BFB training.

The effectiveness of the BFB training course as a whole is assessed on the basis of the average success index of all sessions included in this course and the "cumulative effect". The cumulative effect is estimated on the basis of identifying the tendency of accumulating physiological shifts of controlled parameters from session to session and characterizes the severity of long-term modification of the mechanisms of physiological regulation.

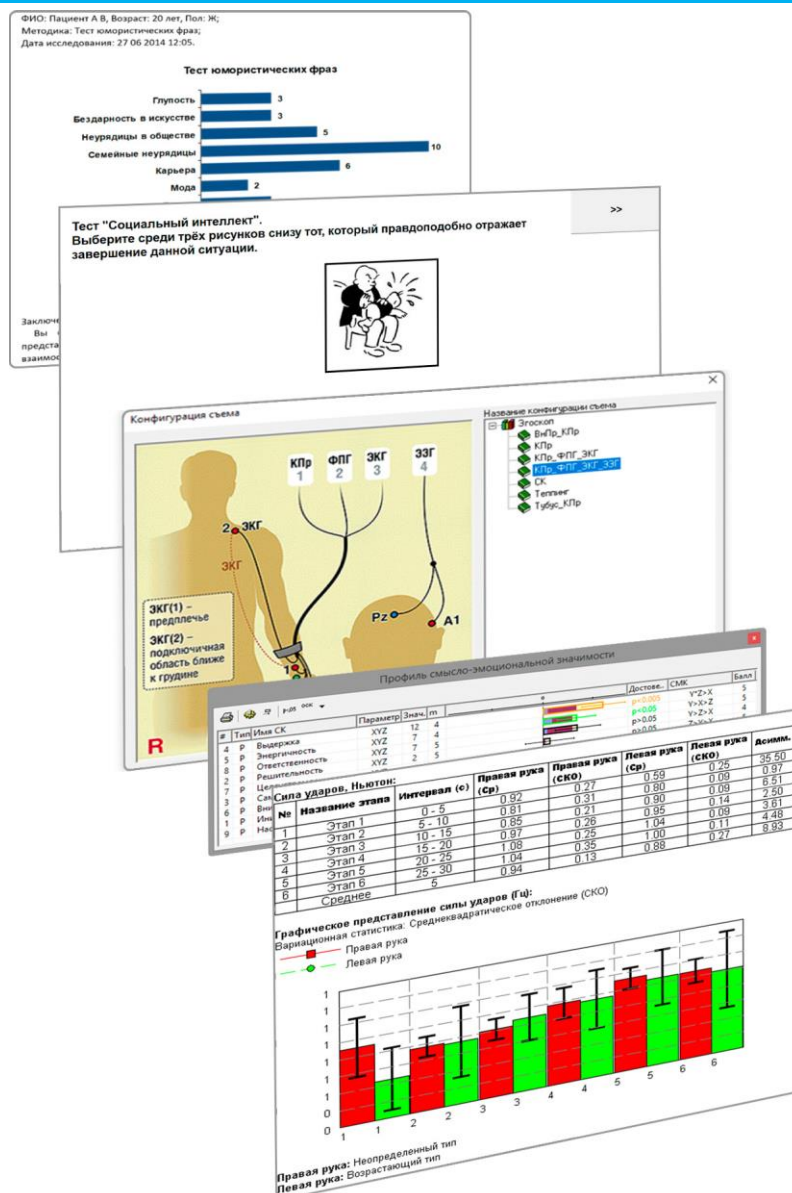
The software "Efficacy evaluation of BFB trainings" provides the formation of a verbal report on the course of the BFB training, with the inclusion of two or three-dimensional forms of representations of the results, for example, in the form of graphs for the session, graphs for the course, surface 3D diagrams of the course performance and conclusions on controlled parameters.

4.

Software for Objective Psychological Analysis and Testing system “Egoscop”; required equipment and accessories

4.1.

A_1531-11



Software objective psychological analysis and testing system “Egoscop”

(patent RF №2319444)

and test library,

including the following groups of methods:

- multifactor personality questionnaires;
- questionnaires of interpersonal relations;
- questionnaires of motivational features;
- questionnaires of mental states;
- self-attitude questionnaires;
- questionnaires of temperament;
- questionnaires of abilities and values;
- psychophysiological tests;
- cognitive tests;
- projective tests.



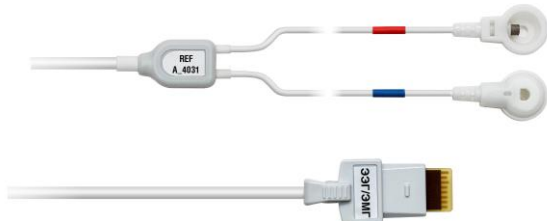


The software allows you to independently expand the library of drawing or text projective techniques, as well as various questionnaire tests.


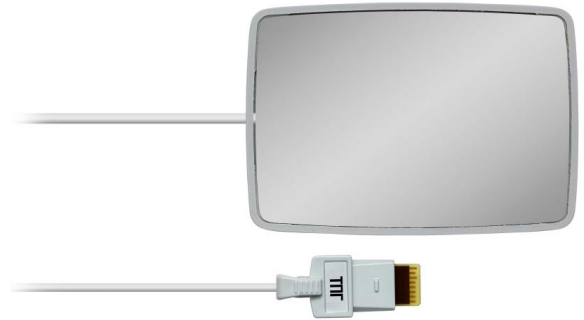

Additional features of the software for auto-documenting the testing process and special processing expand the user's ability to objectively evaluate the test results and allow the use of calculated statistical information about physiological and pictographic reactions for additional socio-psychological and cognitive-somatic interpretation of the studies.

Required:

- touch graphical input device – a tablet monitor Wacom CINTIQ 16;
- electrodes, sensors and accessories of the ABP-Egoscop kit (A_4627);
- MS Office Eng as a part of PC software.

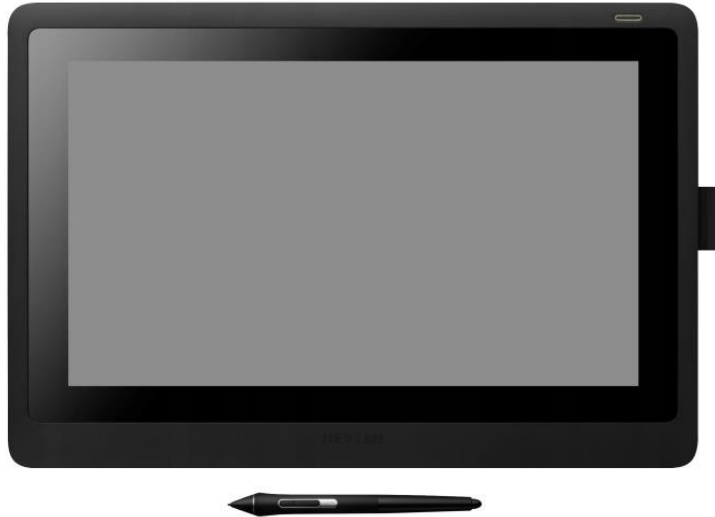
The list of tests is available on request, subjected to change as agreed with the customer.

| | | | | |
|----------|-----------------|--|---|---|
| 4.2. | | Set of electrodes, sensors and accessories of the ABP-Egoscop | | |
| 4.2.1. | A_6543 | Setting for registration of physiological signals (a set) | | |
| 4.2.1.1. | A_5869-1 |  | Setting for registration of physiological signals SkC, EEG and PPG signals are recorded | Setting is connected to polygraphic channels ABP-4 |
| 4.2.1.2. | A_5167 |  | Snap connector wire | Connected to the setting connector. Required for ECG registration. |
| 4.2.1.3. | A_4031 |  | EEG Bipolar Lead Adhesive, cup electrodes. Cable length – 1,5 m | |
| 4.2.1.4. | A_0343 |  | Brush for electrode cleaning | |
| 4.2.1.5. | A_2714 |  | Disposable ECG Electrode (for EOG, EMG) 30 pcs. | |

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|----------|--------|---|--|--|
| 4.2.1.6. | A_2129 |  | Adhesive paste Unipaste For adhesive cup electrodes (120 g.). | |
| 4.2.2. | A_6354 |  | Pad for tapping test and an additional test in the “Egoscop” library | It is used for tapping test to determine the strength and mobility of the nervous system. Allows you to register, in addition to the dynamics of the frequency of impacts, also the dynamics of the strength of impacts. |
| 4.2.3. | A_6423 |  | Oculomotor tubus and an additional test CFFF/CFDF in the library “Egoscop” | It is used to conduct tests of the critical flicker fusion frequency (CFFF) and the critical flicker distinguishing frequency (CFDF), in order to assess the functional state of the cortical part of the visual analyzer and the central nervous system, as well as to assess the degree of inertia of mental processes and functional asymmetry. |

4.3.

A_4074

**Pen Display (electronic tablet) Wacom CINTIQ 16**

A device for accurate touch graphical information input.

Connected to the personal computer.

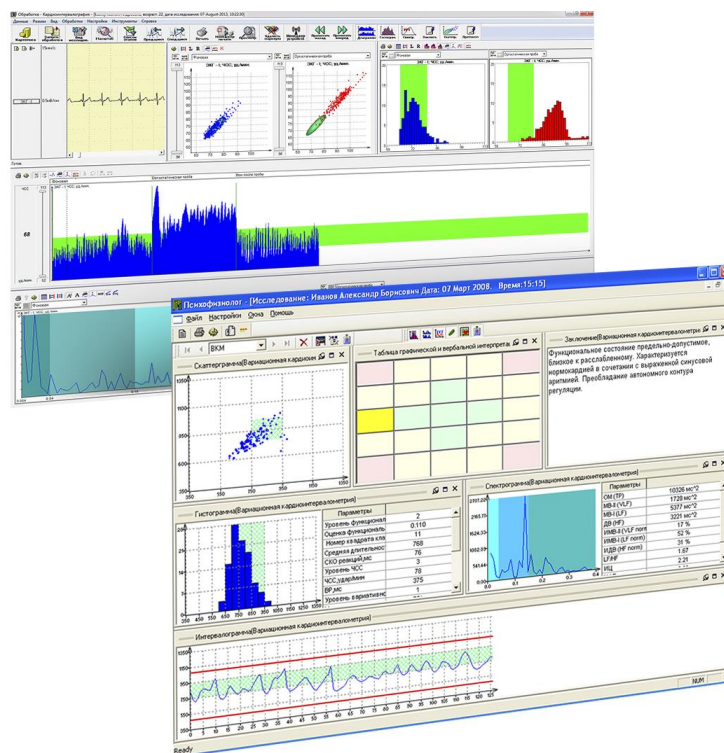
When conducting psychophysiological studies and psychological testing, it allows:

- register pictographic data characterizing the subject's psychomotor skills;
- perform synchronous auto-documentation of information on testing (drawing by the subject of arbitrary graphic images, writing words, numbers, etc.) with the parameters of hand motility (pressure on the pen, delay time before starting to draw graphic images and delay time before moving on to the next stage).
- register the search activity of the subject when performing tests.

If purchased individually, the device type must be agreed with Medicom MTD Ltd.

5. Software of system "Rehacor-1" for additional study types; required equipment and accessories

5.1. A 1964



“HRV” Software for Heart Rate Variability Analysis

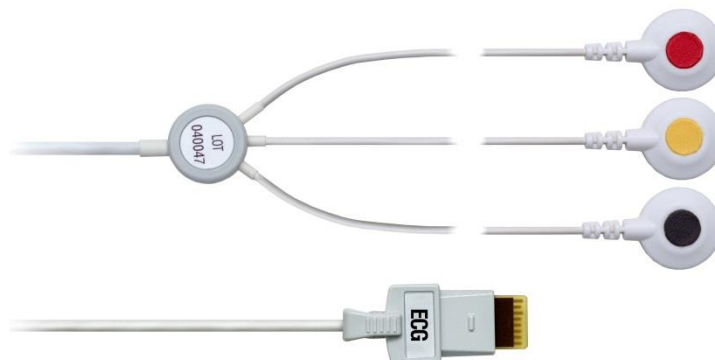
It is applied for:

- identification of patients with subclinical and clinical forms of diseases as a screening test during mass examinations;
- characteristics of the initial vegetative tone, vegetative reactivity and vegetative provision of activity;
- identifying the features of the reactivity of the body in all diseases and conditions, the occurrence of which is due to dysfunction of the autonomic nervous system;
- assessing the adequacy of physical and psycho-emotional stress;
- assessing the severity of the patient's condition in diseases such as acute respiratory viral infections, bronchitis, pneumonia and others;
- monitoring the effect of drugs and the effectiveness of the treatment.

It can be used both independently and as concomitant software, related to the basic study.


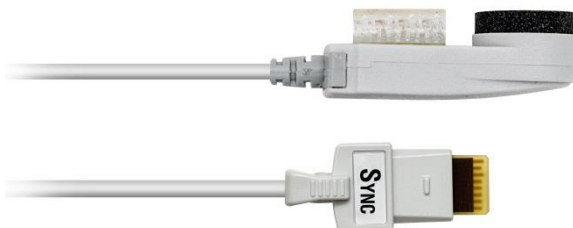
Requires purchasing ECG cable (A_4740) if it is not included into delivery set.


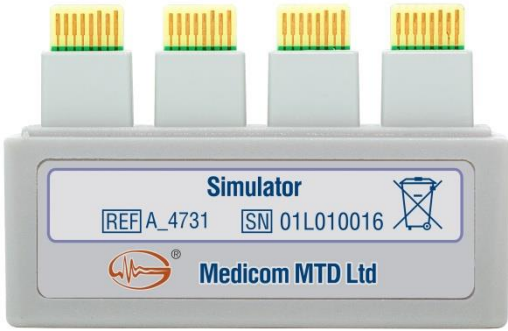

5.1.1. A_4740


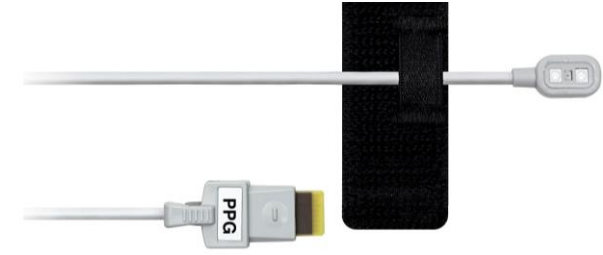







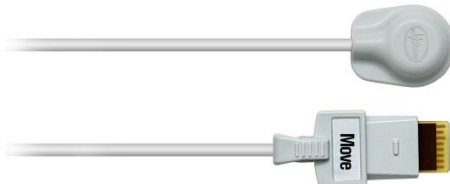
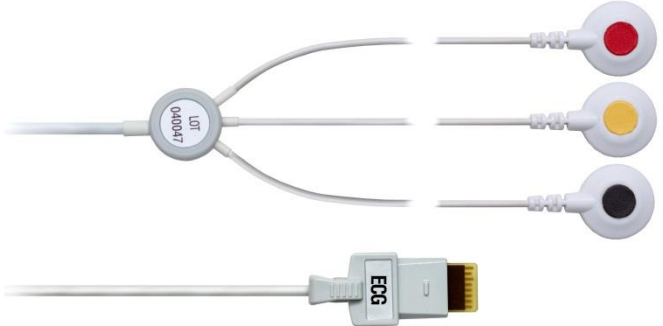
ECG Cable for bipolar derivation with neutral electrode 3 snaps for disposable electrodes. Length – 1.5 m.

To register an ECG during the analysis of the heart rhythm as a separate type of study.

| | | | | |
|----------|--------|--|---|---|
| 5.2. | A_0803 | <p>“Encephalan-MPA” software for multiparameter analysis of signals from polygraphical channels in combination with EEG signals (patent RF 2252692)</p> <p>Software provides:</p> <ul style="list-style-type: none">• calculation and visualization of EEG trends reflecting cardiocycle (from cycle to cycle) dynamics of parameters of the cardiovascular (CVS), autonomic (ANS) and central nervous systems (CNS) on a single time scale, for a visual assessment of their connection, including systemic analysis of hemodynamics according to the parameters of central hemodynamics, cerebral hemodynamics and peripheral circulation together with EEG;• a detailed analysis of the recorded signals, to evaluate physiological changes in response to provoking effects in order to identify weak and compensatory links in the body's systems;• carrying out statistical and spectral analysis, constructing histograms and/or scattergrams of the distribution of indicators for given fragments of the study;• formation of an automatic protocol with a formalized description and tabular data reflecting the initial state and significant changes associated with the performance of functional tests. | <p>Required:</p> <ul style="list-style-type: none">• sensors, wireless blocks and modules (depending on the tasks and the desired set of parameters), including the PPG sensor;• Bipolar Impedance Plethysmographic Adapter (A_4771). | |
| 5.3. | A_0712 | <p>EEG and EP studies with audiovisual stimulation “Encephalan-AVS” (with EP-study software “Encephalan-EP”, version “basic”)</p> <p>The “Encephalan-AVS” software is purposed to study the mechanisms of perception and memory of a person, emotions, attention, mental activity, with impaired attention and memory in encephalopathies, focal brain pathology, to obtain additional information used in predicting a patient's recovery from a coma or vegetative state.</p> <p>The main difference between an audiovisual stimulator and other types of stimulators (photostimulator, phonostimulator, electrical stimulator) is that AVS allows the use of stimuli with semantic content.</p> | <p>Required:</p> <ul style="list-style-type: none">• additional monitor for presentation of video stimuli;• headphones or loudspeakers for presentation of audio stimuli;• patient button unit and videostimulus synchronization sensor. | |
| 5.3.1. | A_4009 |  | Patient button unit | It is used in the study of EEG and EP studies using audiovisual stimulation, as well as in the study of cognitive EP - CNV, P300 and MMN. |
| 5.3.1.1. | A_4178 |  | Videostimulus Synchronization Sensor | <p>Required when studying EEG and EP for audiovisual stimulation (used in conjunction with a patient button unit).</p> |

| 6. | Additional modules, adapters, electrodes and sensors with “Micro-8” connector for polygraphic channels | | | |
|--------|--|---|--|--|
| 6.1. | A_5359 |  <p>The image shows a grey rectangular device labeled 'Wireless module Poly-4'. It features a top panel with four indicator lights and a small display. A label on the front includes a logo and the text 'Wireless module Poly-4'.</p> | <p>Wireless Module “Poly-4”</p> <p>Allows registration of up to 4 additional signals from sensors with a “Micro-8” connector synchronously with the signals recorded by the ABP-4</p> | <p>Required:</p> <ul style="list-style-type: none"> • set of electrodes, sensors and accessories for Poly-4 module; • PG-ECG connector with derivation cables; • set of fixing belts (A_7652). |
| 6.1.1. | A_4731 |  <p>The image shows a grey rectangular device labeled 'Simulator'. It has four yellow connectors on top. The label includes 'Simulator', 'REF A_4731', 'SN 01L010016', and 'Medicom MTD Ltd'.</p> | <p>Simulator</p> | <p>At customer's option</p> |
| 6.1.2. | A_5228 |  <p>The image shows a black USB power supply adapter. It has a two-prong AC plug on one end and a USB connector on the other. The label includes 'Адаптер питания USB', 'REF A_5228', and 'SN 05L003610'.</p> | <p>USB Power Supply Adapter (for the Poly-4 module)</p> | <p>For stationary use, alternatively to autonomous powering of Poly-4 module from accumulators.</p> |



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| 6.2. | A_2673 |  | Respiratory Effort Sensor (“RespEff”) Included - belts long (1600 mm), medium (800 mm) and short (400 mm) | Thoracic and abdominal breathing registration requires 2 respiratory effort sensors. |
| 6.3. | A_4141-2 |  | Surface PPG Sensor | Additional sensors at customers' option for various applications, as well as for multimodal registration in sports medicine, psychophysiology, clinical and scientific research. |
| 6.4. | A_4139 |  | Temperature Sensor (2 sensors included) | |
| 6.5. | A_4142 |  | Envelope EMG Sensor (double) (envelope electromyogram) | |

| | | | | |
|-------|--------|--|---|--|
| 6.6. | A_5731 |  | Envelope EMG sensor (triple) (envelope electromyogram) | |
| 6.7. | A_4143 |  | GSR Sensor (“GSR”) | Additional sensors at customers' option for various applications, as well as for multimodal registration in sports medicine, psychophysiology, clinical and scientific research. |
| 6.8. | A_5119 |  | Skin Conductance Sensor (EDA - Electro Dermal Activity) | |
| 6.9. | A_5361 |  | Movement sensor | Required for Tremor reduction and motor activity control biofeedback training (A-1202_10), used, for example, in the training of shooting athletes. |
| 6.10. | A_4740 |  | ECG Cable for bipolar derivation with neutral electrode 3 snaps for disposable electrodes. Length – 1.5 m. | Used for <ul style="list-style-type: none"> • BFB training (software “Rehacor”); • heart variability analysis (software “HRV”); • record under stationary conditions. |

| | | | | |
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| 6.11. | A_4194 |  | Bipolar Cable for EMG, SPR The cable contains two recording electrodes with a push-button connection; there is no neutral electrode. Cable length - 1.45 m | |
| 6.12. | A_4031 |  | EEG Bipolar Lead Adhesive, cup electrodes. Cable length - 1.5 m | Used with N-electrode attached onto the patient and connected to the same registration unit to which these cables can be connected to. Required: <ul style="list-style-type: none"> • electrode paste EC2, TEN-20 or similar; • adhesive plaster (A_1302); • glue-collodion (probe is provided); compact hair-dryer for quick gel drying (purchased by customer's option at pharmacy or shop). |
| 6.13. | A_4768 |  | PG-ECG Connector | Provides ECG registration for 3 derivations and rheopneumogram for 1 derivation. Requires disposable ECG electrodes (requires 7 per test) |

| 7. | Gels, disposable electrodes and accessories | | | |
|------|---|---|---|--|
| 7.1. | A_2669-1 |  | Ten20 Conductive Paste For adhesive cup electrodes (114 g., tube) | |
| 7.2. | A_2669 |  | Ten20 Conductive Paste For adhesive cup electrodes (114 g., jar) | |
| 7.3. | A_6532 |  | Adhesive paste EC2 For adhesive cup electrodes (100 g.). | |
| 7.4. | A_2129 |  | Adhesive paste Unipaste For adhesive cup electrodes (120 g.). | |

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|------|----------|--|--|--|
| 7.5. | A_1854 |  | Electrode gel bottle - 250 ml | |
| 7.6. | A_1854-1 |  | Electrode gel bottle –1 L | |
| 7.7. | A_1302 |  | Adhesive plaster (“OMNIFIX” elastic or similar) To fix electrodes and sensors. Dimensions 10 m x 5 cm | Recommended for adhesive EEG electrodes (with EC2, TEN-20 or similar paste) in order to preliminary fix the electrodes before collodion gluing for PSG studies or at neuromonitoring |
| 7.8. | A_2714 |  | Disposable ECG Electrode (for EOG, EMG) 30 pcs. | |

| 8. | Computing hardware | | | |
|--------|--------------------|---|--|---|
| 8.1. | Personal computer | | | |
| 8.1.1. | A_2380 |  | <p>Personal computer portable One additional monitor is connected. Minimal requirements: Intel Core i5, RAM 4GB, SSD 256GB, monitor 15,6", HDMI, OS Windows 10, mouse</p> | |
| 8.1.2. | A_2380-1 | | <p>Personal computer portable Two additional monitors are connected. (for delivery option with "Egoscop" software)</p> | <p>To operate the Software "Rehacor", an integrated Iris video card or a discrete video card is required.</p> <p>The software "Rehacor" complex is installed on the computer in accordance with the delivery set.</p> |
| 8.1.3. | A_4305 |  | <p>Personal computer stationary Minimal requirements: Intel Core i5, RAM 4GB, SSD 240GB, HDD 1Tb, main monitor with a diagonal of at least 23", OS Windows 10, mouse, keyboard</p> | <p>If the Customer wishes to choose an improved option for equipping the electroencephalograph with computer equipment, it is mandatory to inform the supplier about this and agree on the characteristics of the computer equipment with the manufacturer.</p> |

| | | | |
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| 8.2. | Additional accessories and software for the personal computer | | |
| 8.2.1. | A_6843 | Mobile HDD from 1000 GB | |
| 8.2.2. | A_4300 | Computer Acoustic System (2.1, 3.1 or quality open type headphones – at customer's option) Required if FBC with biofeedback “Rehacor” software is present in sales package | |
| 8.2.3. | A_4300-1 | Computer Acoustic System (bone conduction headphones). Required if FBC with biofeedback “Rehacor” software is present in sales package | |
| 8.2.4. | A_5109 | Antivirus application “Kaspersky Internet Security” . Recommended to protect PC from viruses | Recommended! |
| 8.2.5. | A_4319 | MS Office ENG . Required package contains Word and Excel | |
| 8.2.6. | A_2604 | Bag for laptop transportation | |
| 8.2.7. | A_4299 | Uninterruptible power supply (for stationary PC) | |
| 8.3. | A_0687 | Additional Monitor (diagonal - more than 23”) | Monitor is required for effective work with the software: <ul style="list-style-type: none"> • FBC with biofeedback “Rehacor”; • “Encephalan-AVS”. |
| 8.4. | A_5565 | Digital widescreen TV-set | At Customer's option if the following software is present in sales package: FBC with biofeedback “Rehacor”. |
| 8.5. | A_4087 | Printer Laser Black-And-White A4 format | Another printer type supply – by agreement. |
| 8.6. | A_4088 | Equipment Trolley | Equipment Trolley is adapted according to the computer and office equipment from the sales package |
| 8.7. | A_4088-41 | Equipment Trolley with a drawer | |