Electroencephalograph-recorder computerized "Encephalan-EEGR-19/26" (main modification)

Illustrated catalogue

Electroencephalograph-transformer

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Multichannel multifunctional modular transformable electroencephalograph-recorder:

- **Data registration by 26 channels** with the main patient transceiver-recorder ABP-26 (20 EEG derivations)
  or by 36 channels by supplementing the patient transceiver-recorder ABP-26 with the patient transceiver-recorder ABP-10 in Poly-10 mode (up to 32 EEG derivations).
- **Registration of EEG and up to 50 or more other parameters by transforming electroencephalograph**
  using additional wireless units, modules and sensors.
- **Quality registration** using original EEG electrodes, electrode systems with elastic fixing caps, adapter cables and other accessories from EEG Electrode Set ES-EEG-10/20 "Encephalan-ES", which is included into electroencephalograph-recorder "Encephalan-EEGR-19/26" set, as well as other electrodes and sensors from electroencephalograph-recorder set.

Application modes for electroencephalograph-recorder:

- **telemetric** (wireless interface technology Bluetooth®);
- **autonomous** (recording data onto the memory card – Holter-type);
- **autonomous-telemetric** (data backup onto the memory card of the patient transceiver-recorder during telemetric registration).

Electroencephalograph-recorder is available in six models:

Model	Description
"Encephalan-EEGR-19/26" **T**	Telemetric mode with data transmission from electroencephalograph-recorder to the PC via wireless (Bluetooth® technology) communications channel. Registration of signals and parameters with polygraphic channels of wireless units and modules of electroencephalograph-recorder.
"Encephalan-EEGR-19/26" **AT**	Autonomous (saves data onto a memory card), telemetric or autonomous-telemetric (with data backup onto the memory card) study modes. Registration of parameters with polygraphic channels of wireless units and modules of electroencephalograph-recorder.
"Encephalan-EEGR-19/26" **AT-Video**	Provides additional registration of video data simultaneously with recording EEG and other parameters.
"Encephalan-EEGR-19/26" **AT-PSG**	Autonomous, telemetric or autonomous-telemetric EEG and PSG studies modes.
"Encephalan-EEGR-19/26" **AT-PSG-Video**	Autonomous, telemetric or autonomous-telemetric EEG and PSG studies modes with additional registration of video data simultaneously with recording EEG and other parameters.
"Encephalan-EEGR-19/26" **AT-PSG-Video-Poly**	Autonomous, telemetric or autonomous-telemetric EEG and PSG studies modes with additional registration of video data simultaneously with registration of EEG and increased number of parameters with polygraphic channels of wireless units and modules of electroencephalograph-recorder.

Enhanced functionality and application of electroencephalograph-recorder in clinical practice, sports, industrial and institutional medicine, psychophysiology and scientific research are provided by a basic autonomous transceiver-recorder ABP-26, additional wireless units, modules, sensors and accessories, along with methodical software (SW) from electroencephalograph set.

Software from the electroencephalograph-recorder set

Software name	p.	Medical purpose (briefly)
Main software for multichannel electroencephalographic and neurophysiological studies.		
Main software for EEG studies "Encephalan-EEGR", telemetric or autonomous-telemetric studies, "Elite" suite	**5**	EEG studies, visual data analysis, quantitative methods of EEG analysis, data record and synchronization from additional wireless devices, generation of EEG study report.
Software that extends the functionality of electroencephalograph-recorder during EEG studies		
"Encephalan-VLFA" software for analysis of very low frequency activity (patented in RF #2252692)	**27**	Analysis of very low frequency activity (DC potential) synchronously and simultaneously with the EEG recording from the same derivations for indirect assessment of cerebral energy exchange and reactivity (the dynamics of metabolic changes).
"Encephalan-FBA" software for functional brain asymmetry analysis	**27**	For diagnostics of hemispheric and intrahemispheric dysfunctions, identification of foci of pathological activity, treatment monitoring, studies of topical features and intercentral interaction with the various functional tests.
"Encephalan-3D" software for 3D localization of the electrical activity sources	**27**	The software presents the results of the inverse problem solution of EEG / EP to identify the probabilistic spatial source on three conditional cuts of the brain in the form of a cloud of equivalent dipoles.
"HRV" software for heart rate variability analysis	**28**	Assessment of autonomic nervous system and neurohumoral regulation of the patient based on a study of heart rate variability to assess the adequacy of the physical and psycho-emotional stress.
Software and accessories for long latency evoked potentials study		
"Encephalan-EP" software for EP-studies, "Basic" and "Professional" suite	**29**	Study of long-latency evoked potentials – visual, auditory, somatosensory, cognitive (CNV and P300), and the visual EP for chess pattern.
"Encephalan-AVS" software suite for EEG and EP studies (cognitive EP) using audiovisual stimulation	**30**	EEG and EP studies for various clinical and scientific tasks in neurology, psychophysiology, studies of the mechanisms of perception using cognitive stimulation.
Software of electroencephalograph-recorder for additional study types at continuous EEG monitoring		
"Encephalan-PSG" – somnological studies – polysomnography, "neurological" suite	**31**	Analysis of sleep phases, automatic building and manual editing of hypnograms, highlighting the sleep events, generation of reports on sleep stages distribution.
"Encephalan-PSG" – somnological studies – polysomnography, "maximal" suite	**31**	Analysis of sleep phases, automatic building and manual editing of hypnograms, highlighting the sleep events, generation of reports on sleep statistics, distribution of sleep stages, cardiorespiratory disorders, SpO2, etc.
"Encephalan-MPA" software for multiparameter analysis of signals from polygraphical channels in combination with EEG signals (patented in RF #2252692)	**31**	Calculation and visualization of trends, reflecting cardiocycle-to-cardiocycle (in conjunction with the ECG R-wave) dynamics of various physiological indicators of cardiovascular (CVS), autonomic (ANS) and central nervous system (CNS).
Encephalan-CFM" for cerebral functions monitoring	**32**	Dynamic aEEG analysis for neurophysiological monitoring at continuous EEG monitoring in neonatology, ICU and resuscitation department, and for scientific research.
"Encephalan-NM" for neuromonitoring	**32**	Calculation and visualization of trends of the CNS and VNS physiological parameters in the same time scale for the continuous dynamic monitoring and state assessment.
"Encephalan-CM" for cardiorespiratory monitoring and scientific research	**33**	Additional cardiorespiratory monitoring using 3 additional bipolar ECG channels and impedance-based pneumogram channel of a PG-ECG Connector synchronously with other recorded parameters of the CNS and ANS.
EEG-videomonitoring "Encephalan-Video"	**51**	Completely synchronized recording of EEG/PSG and data from one or more video cameras in daytime or at night, its analysis and archiving for the differential diagnosis of epilepsy and diagnosis of sleep disorders.
Additional software for psychophysiological analysis and testing, neurofeedback and biofeedback		
"Egoscop" objective analysis and testing, (patented in RF #2319444)	**55**	New innovative level of psychodiagnostics (paperless technology) with synchronous registration of motor activity parameters of the subject on the touch screen tablet, and physiological indicators that reflect the emotional reactions in the process of testing and data analysis in relation to the semantic clusters of tests
"Rehacor" software for functional biocontrol with biofeedback training	**58**	Procedures of functional biocontrol with BFB (biofeedback and neurobiofeedback) for improvement of neural regulation in various disorders, increasing stress tolerance, correction of the status, training skills of self-control and optimal functioning of the athletes, students, top managers and persons of responsible and stressful professions. Scenario Editor creates new procedures and provides the assessment of a procedure and course effectiveness.

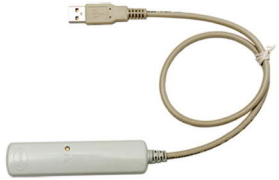
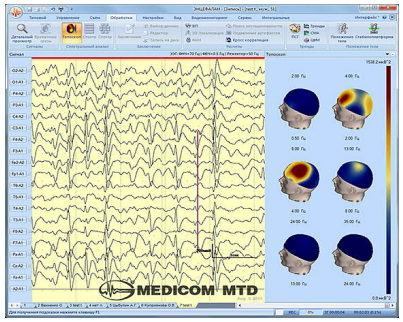
Contents of the illustrated* catalogue

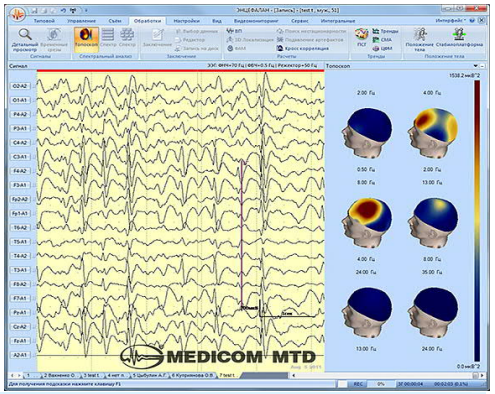
* ***The external appearance of the products is given as an example and may have some differences that do not affect functionality when delivered.***

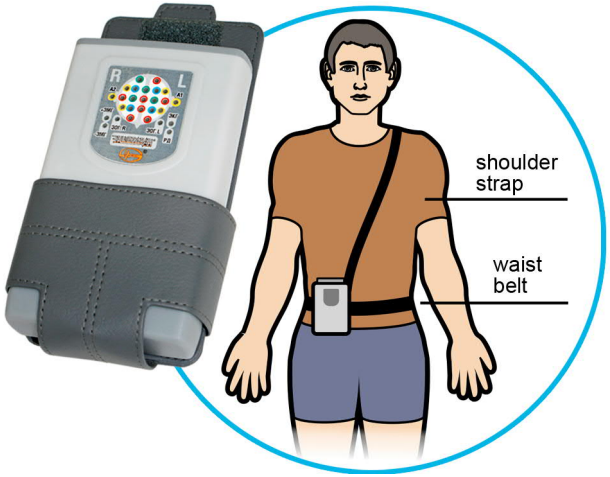
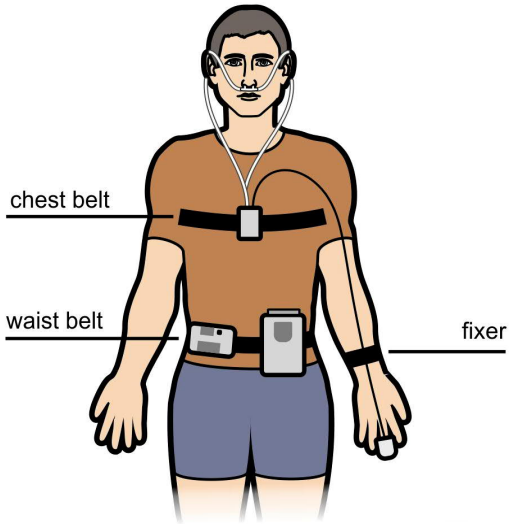
Item #	Ref. no.	Description and figure	Comments

Electroencephalograph-recorder computerized portable "Encephalan-EEGR-19/26"

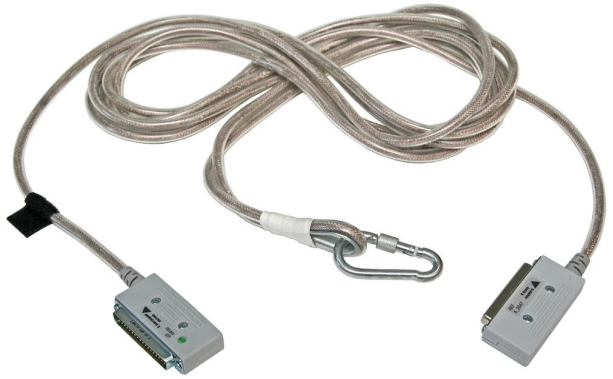
To form a sales package, select from this table a set of ABP-26, accessories, electrodes, sensors, additional modules and software.

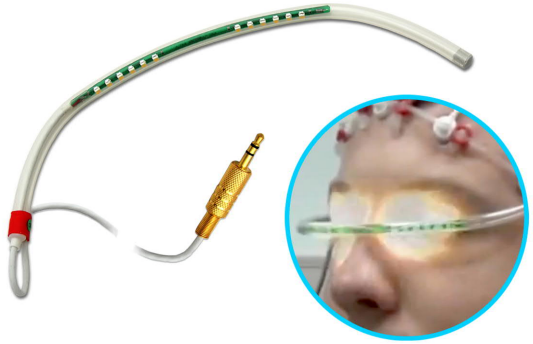
1.		**Sets of patient transceiver-recorder (ABP-26) with Software EEG studies "Encephalan-EEGR"** Select one of the ABP-26 equipment sets	
1.1.	**A_6422**	**"Autonomous-Telemetric" set includes:** • **Autonomous patient transceiver-recorder (ABP-26):** 26 channels providing registration of EEG, ECG, EMG, EOG and other indices, embedded body position sensor, integrated telemetric interface (Bluetooth®) of connection to PC and additional wireless modules, units or sensors of electroencephalograph-recorder. • **Memory card and function of autonomous data recording (Holter-EEG)** with further transmission to PC and analysis. • **Accessories:** wireless PC Adapter "IB-4" (USB–Bluetooth), rechargeable batteries set (type – AA, 8 pcs., including 4 additional), charger, calibrator, check lead, USB cable for data transfer. • **Operation documentation**. Patient transceiver–recorder ABP–26   Wireless PC Adapter IB–4 Charger  Rechargeable batteries set      Memory card Calibrator Check Lead Data Cable • **Software for autonomous-telemetric EEG studies "Encephalan-EEGR", "elite" suite.** Long-term telemetric registration, data recording on a memory card and export to PC, their visual analysis and processing, continuous measurement and record of electrode impedance and potentials, referential reconstruction of EEG data, split mode. Quantitative methods of EEG analysis: spectral and amplitude topographic mapping, coherent function, autocorrelation function, cross-spectrum, automatic search of non stationary fragments and epileptic activity, protocol of EEG studies forming, automatic artifact suppression on EEG, record, synchronization and visual analysis of data from additional wireless devices, export of study results to universal data formats, record of data and analysis results on a disk for further viewing and consultation, print manager for studies results. • **Patient data management – "Cardfile".** 	**Provides:** • **telemetric mode with data backup onto the memory card;** • **autonomous mode (Holter-EEG/PSG) with data record onto the memory card.** **Required:** • electrode systems and electrodes; • accessories; • cover bag for autonomous studies or connectors for stationary studies; • wireless units, modules and sensors; • computing hardware; • video equipment kit and software for EEG-videomonitoring; • additional software.

1.2.	**A_6675**	**"Telemetric+" set includes:** • **Autonomous patient transceiver-recorder (ABP-26):** 26 channels providing registration of EEG, ECG, EMG, EOG and other indices, embedded body position sensor, integrated telemetric interface (Bluetooth®) of connection to PC and additional wireless modules, units or sensors of electroencephalograph-recorder. • **Accessories:** wireless PC Adapter "IB-4" (USB–Bluetooth), rechargeable batteries set (type – AA, 8 pcs., including 4 additional), charger, calibrator, check lead. • **Operation documentation**. • **Software for telemetric EEG studies "Encephalan-EEGR", "elite" suite.** Long-term telemetric data recording, their visual analysis and processing, continuous measurement and record of electrode impedance and potentials, referential reconstruction of EEG data, split mode. Quantitative methods of EEG analysis: spectral and amplitude topographic mapping, coherent function, autocorrelation function, cross-spectrum, automatic search of non stationary fragments and epileptic activity, protocol of EEG studies forming, automatic artifact suppression on EEG, record, synchronization and visual analysis of data from additional wireless devices, export of study results to universal data formats, record of data and analysis results on a disk for further viewing and consultation, print manager for studies results • **Patient data management – "Cardfile".**  **The external appearance of "Telemetric+" set components (A_6675) is similar to the external appearance of "Autonomous-Telemetric" set components (A_6422).**	**The set does not include:** memory card; function of autonomous data recording onto a memory card and its export to PC; USB cable for data transfer. **Required:** accessories, electrode systems, electrodes, wireless units, modules and sensors, cover bag, connector, computing hardware; video equipment kit and software for EEG-videomonitoring; additional software.
1.3.	**A_6428**	**"Autonomous-Telemetric – Additional recorder" (EEG/PSG Holter) set includes:** • **Autonomous patient transceiver-recorder (ABP-26):** 26 channels providing autonomous registration of EEG, ECG, EMG, EOG and other indices, embedded body position sensor, integrated telemetric interface (Bluetooth®) of connection to PC and additional wireless modules, units or sensors of additional recorder. • **Memory card and function of autonomous (Holter-type) data recording onto ABP-26** for further transmission to PC and analysis. • **Accessories:** rechargeable batteries set (type – AA, 8 pcs., including 4 additional), charger, calibrator, check lead, USB cable for data transfer. • **Operation documentation.** **The external appearance of "Autonomous-Telemetric – Additional recorder" set components (A_6428) is similar to the external appearance of "Autonomous-Telemetric" set components (A_6422).** **Attention:** • Additional recorders (up to 8) can be used if the main electroencephalograph-recorder ("Autonomous-Telemetric" or "Telemetric+" set) and a computer (Real Time Work Station) with Installed Software Suite are purchased. • The computer is required for telemetric connection to control the quality of installation of additional recorder sensors, as well as to save and process data of autonomous study. • If there is no required software for additional recorders, it must be purchased and installed at the computer of the main electroencephalograph-recorder.	**Not supplied with the set:** • **wireless PC Adapter "IB-4" (USB–Bluetooth);** • **Software EEG studies;** • **Software "Cardfile".** **Required:** accessories, electrode systems, electrodes, wireless units, modules and sensors, cover bag, connector in accordance with the application (EEG, PSG studies).

2.		Accessories of electroencephalograph-recorder		
2.1.	**A_0347**	**Cover bag** for autonomous patient transceiver-recorder (ABP-26) **The set includes:** • shoulder strap; • waist belt for fixing cover bag on patient's body.		Used for portable application of autonomous patient transceiver-recorder ABP-26.
2.1.1.	**A_7652**	**Set of fixing belts** Used for fixing modules and units on patient's body at various studies **The set includes:** • chest belt (extension included); • waist belt (extension included); • cable fixers.		Required for fixing autonomous patient transceiver-recorder ABP-26, wireless pulse oximeter module and other modules at PSG studies, multiparametric data registration and EEG-Videomonitoring.
2.2.	**A_2732**	**Wireless Movement Sensor** (body position) **The set includes:** • battery (type – AAA, 2 pcs., including 1 additional); • chest fixing belt.		**Used at continuous EEG monitoring to detect body position –** when seating, standing, walking, lying on the side (left or right), prone or on the back, and evaluate patient movement activity

2.3.	**A_1715**	**Voice Event Marker DCM-32M** (specialized digital event marker) **The set includes:** • battery (type – AAA, 2 pcs., including 1 additional); • USB cable.		**For recording voice comments (study log)** and marking events during autonomous study with further synchronization of recorded data with data of EEG/PSG studies. Required for **autonomous** EEG studies (**Holter-type**)
2.4.	**A_2143**	**Memory Card** additional (spare) for autonomous patient transceiver-recorder ABP-26 ("Autonomous-Telemetric" or "Autonomous-Telemetric – Additional recorder" set) • Type – microSD; • class – 4 or higher; • recommended manufacturer – SanDisk; • capacity – up to 32 GB.		For autonomous recording of all registered data onto ABP-26 for more than 48 hours.
2.5.	**A_5440**	**Mains Supply Adapter** For ABP-26 powering from the mains (220V, 50Hz) or USB port		**For stationary use**, alternatively to autonomous powering from accumulators.
2.6.	**A_2329**	**SW-key (USB)**		Allows working with software at any additional PC, including network variant.

2.7.	**A_2647**	**Patient cable PCP37/37-7P-6m** For stationary use of electroencephalograph-recorder within a room for continuous EEG monitoring. **Provides the connection** of electrode systems with group connector and connector EEG-20 (mobile) for electrodes with touchproof connectors **to a patient transceiver-recorder ABP-26 or stationary connectors EEG-20** Cable length 6 meters **The set includes:** • belt for fixation; • locking carabiner.		**From "Encephalan-ES" set** **Attention:** When using the cable, be aware of the limitations on the use of additional wireless modules, units and sensors, as their distance from ABP-26, located in the connector EEG-20 at the floor or table support should not exceed 3 m.
2.8.	**A_5527**	**Table support** for ABP-26 **The set includes** a clip and a holder		**At customer's option**

3.	Stimulator SFN/FO-04 for photo-, phono- and electro stimulation with accessories			
3.1.	**A_2624**	**Autonomous stimulator SFN/FO-04** with integrated LED matrix. Used for photo-, phono- and electro stimulation functional tests during telemetric EEG/EP studies, and for assessment of reactivity in ICU and resuscitation department **The set includes** rechargeable batteries (type – AA, 4 pcs., including 2 additional).		**Should be additionally supplied with:** • headphones for phonostimulation; • wireless electrostimulator; • LED tube for photostimulation; • power adapter from USB port or the mains 220V.
3.1.1.	**A_5447-2**	**Mains supply adapter** For stimulator powering from the mains (220V, 50Hz) or USB port		**For stationary use**, alternatively to autonomous powering from accumulators. From the set of additional patient transceiver-recorder ABP-10.
3.1.2.	**A_3149**	**Calibrated Headphones**		**For phonostimulation** Connected to the Stimulator SFN/FO-04. Used at EEG and auditory EP studies Cannot be used without SFN/FO-04.
3.1.3.	**A_2940**	**LED Tube FO-06 TD (children)** Fixed with elastic cap for electrode system or cover cap for adhesive cup EEG electrodes.		**For photostimulation** Connected to the Stimulator SFN/FO-04. If the LED tube is used, the LEDs matrix in the stimulator SFN/FO-04 is disabled. Cannot be used without SFN/FO-04.
3.1.4.	**A_3072**	**LED Tube FO-06 TV (adults)** Fixed with elastic cap for electrode system or cover cap for adhesive cup EEG electrodes.		

3.1.5.	**A_2991**	**LED goggles FO-03** (photostimulator) For flash visual EP studies. Allows changing flash intensity separately for the left and right eye.		**For photostimulation** Connected to the Stimulator SFN/FO-04. If the LED tube is used, the LEDs matrix in the stimulator SFN/FO-04 is disabled. Cannot be used without SFN/FO-04.
3.1.6.	**A_4008**	**Wireless Electrostimulator** for somatosensory stimulation **The set includes:** • strap fixer; • battery (type – AAA, 4 pcs., including 2 additional).		Used for assessment of reactivity in ICU and resuscitation department, as well as in long-latency somatosensory EP-studies (if the software "Encephalan-EP" is purchased). Cannot be used without SFN/FO-04.
3.1.7.	**A_6430**	**Floor Stand** For stationary use of stimulator SFN/FO-04		

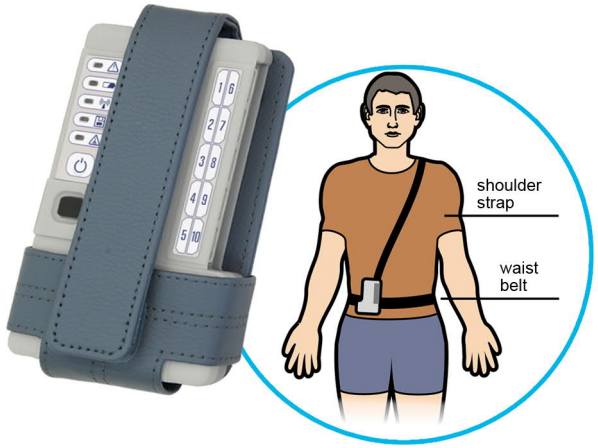
4.	**Sets of accessories with electrode systems for continuous EEG monitoring (including PSG studies) by 19 derivations (for baby –13 derivations)**			From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES"
4.1.	**The sets with electrodes for contact gel** **The sets include:** • **electrode systems ES-EEG-19-3A, ES-EEG-19-3C or ES-EEG-13-3B;** Electrodes are fixed in the eyelets of elastic fixing caps. Wires for electrodes are grouped in a common cable and have a group connector to ABP-26. Provides registration of 20 EEG (14 derivations for ES-EEG-13-3B), 2 EOG, 1 EMG, 1 non-standard ECG derivation (one ECG electrode relative to the reference EEG electrode). 1 polygraphic channel for sensors with micro-8 connector. • **set of additional cables** to connect disposable ECG, EMG, EOG electrodes to electrode system – 5 pcs.; • **set of elastic fixing caps ES-EEG** with eyelets for electrodes and covers for them – 5 sizes, fixer for elastic caps, chest fixing belt, syringe with plastic nozzles set for electrode gel insertion.			**Used with patient transceiver-recorder ABP-26** for EEG-Videomonitoring, Holter-EEG, PSG studies and neuromonitoring. **Required:** • electrode gel; • disposable ECG electrodes (for EOG, EMG, ECG). Chin fixer for cap ES-EEG can also be purchased (A_0497, A_0496). **Required for PSG studies:** • additional units, modules and sensors (**see recommendation on sales package selection:** Polysomnographs based on electroencephalographs "Encephalan-EEGR-19/26", main modification). Also required – ECG cable for bipolar derivation (A_8302).
4.1.1.	**A_2493-21**	**ES-EEG-13-3B "Baby" set** Sizes from 34 to 45.		
4.1.2.	**A_2493-22**	**ES-EEG-19-3C "Children" set** Sizes from 45 to 55.		
4.1.2.1.	**A_5007-2**	**Set of elastic fixing caps ES-EEG-19C** Sizes from 39 to 45 – 3 caps and covers. Additional to "Children" set for recording 19 EEG derivations in infants.		
4.1.3.	**A_2493-23**	**ES-EEG-19-3A "Adult" set** Sizes from 55 to 66.		

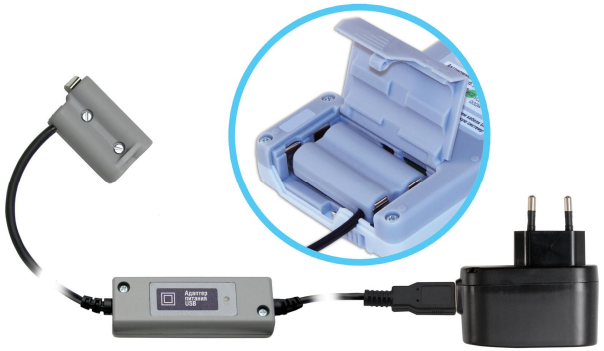
4.2.	**The sets with cup adhesive EEG electrodes** **The sets include:** • **electrode systems ES-EEG-19-3(c);** Wires for electrodes are grouped in a common cable and have a group connector to ABP-26. Provides registration of 20 EEG derivations, 2 EOG, 1 EMG, 1 non-standard ECG derivation (one ECG electrode relative to the reference EEG electrode). 1 polygraphic channel for sensors with micro-8 connector. • **set of reusable ECG, EMG, EOG electrodes** to electrode system – 5 pcs.; • **set of protective elastic fixing cover caps** – 5 sizes, fixer for cover caps, chest fixing belt; • **adhesive plaster** Omnifix – 1 pcs.; • color montages of electrode placement.			**Differs in a more reliable fixation of the electrodes and high-quality EEG recording.** For long-term monitoring at EEG/PSG studies, neuromonitoring and scientific research. **Required:** • electrode paste EC2, TEN-20 or similar; • glue-collodion (probe is provided), glue remover, compact hair-dryer for quick gel drying (purchased individually). Chin fixer for cover cap is purchased if necessary (A_0497, A_0496). **Required for PSG studies:** • additional units, modules and sensors (**see recommendation on sales package selection:** Polysomnographs based on electroencephalographs "Encephalan-EEGR-19/26", main modification). Also required – ECG cable for bipolar derivation (A_8302).
4.2.1.	**A_2493-25**	**ES-EEG-19-3C(c) "Children" set** Sizes from 45 to 55.		
4.2.2.	**A_2493-26**	**ES-EEG-19-3A(c) "Adult" set** Sizes from 55 to 66.		

5.	**Equipment and accessories for stationary EEG studies**			
5.1.	**Connector EEG-20**			
5.1.1.	**A_2801-1**	**Connector EEG-20** (for data registration **by 26 channels**) Provides connection of EEG electrodes of various types with touchproof connector for EEG registration by 10-20 system (20 EEG derivations), and connection of disposable or adhesive cup electrodes: • EOG – 2 derivations; • ECG – 1 non-standard derivation (1 ECG electrode referent to A1); • EMG – 1 derivation from 2 electrodes (chin); • one sensor to polygraphic channel with micro-8 connector – recommended are respiratory effort sensor or snap connector wire for 1 standard ECG derivation (A_8302) with the connection of three disposable electrodes or clips. Provides connection of electrode systems (up to 20 derivations by "10-20%" system) with the group connector from the "Encephalan-ES" set. **Intuitive color-coded marking** of slots of EEG-20 connector, connectors of EEG electrodes of various types and EEG electrodes provides fast preparation for a study.		**Required:** • floor support for stationary use **or** table support of VESA standard; • sets of EEG electrodes with touchproof connectors for 20 derivations and accessories to them **or** sets with electrode systems from the "Encephalan-ES" set; • respiratory effort sensor with micro-8 connector; • ECG cable for bipolar derivation with neutral electrode (A_8302); • set of ECG electrodes (clips) (A_2229).

5.1.2.	**A_2801-2**	**Connector EEG-20** (for data registration **by 36 channels**) For stationary use of the patient transceiver-recorder ABP-26 with the patient transceiver-recorder ABP-10 (in Poly-10 mode). **Connector EEG-20 can be used in two variants of EEG studies:** • **20 EEG derivations**, 2 EOG derivations, 1 non-standard ECG derivation (1 ECG electrode referent to A1), 1 EMG with additional registration of indices by 11 polygraphic channels using electrodes and sensors with micro-8 connector; • **30 (32) EEG derivations** with electrodes of various types with touchproof connectors. **When conducting a study by 32 EEG derivations,** provides the connection of disposable or adhesive cup electrodes for 1 non-standard ECG derivation (1 ECG electrode referent to A1), EMG – 1 derivations from 2 electrodes (chin), as well as the connection of any optional sensor to the polygraphic channel with micro-8 connector – recommended are respiratory effort sensor or snap wire (A_8302) for 1 standard ECG derivation (three disposable electrodes or clips). 2 EOG registration, if necessary, can be carried out due to a decrease in number of recording channels of EEG to 30. **Attention!** If a decrease of channels to 30 is undesirable, you can use optional wireless Poly-4 module, as well as 2 cables for bipolar EOG derivation (with micro-8 connector, disposable or adhesive cup electrodes). Sensors with micro-8 connector can be connected to 2 free polygraphic channels of Poly-4 module at customer's option. **Provides the connection of electrode systems** from "Encephalan-ES" set (up to 20 derivations by "10-20%" system) with the group connector instead of electrodes with touchproof connectors. **The set of EEG-20 Connector (A_2801-2) includes:** • a clamp for fixing the ABP-10 to the connector EEG-20; • a special connection cable "ABP-10 – Connector EEG-20". **Intuitive color-coded marking** of slots of EEG-20 connector, connectors of EEG electrodes of various types and EEG electrodes **provides fast preparation for a study.**	 ABP–26 ABP–10	**Required:** • additional patient transceiver-recorder ABP-10; • floor support for stationary use **or** table support of VESA standard; • sets of EEG electrodes with touchproof connectors for 32 derivations and accessories to them **or** sets with electrode systems from the "Encephalan-ES" set up to 20 EEG derivations; • sensors and electrodes with micro-8 connector for 10 polygraphic channels of ABP-10 in accordance with the selected additional studies (SW) at 20-channel EEG registration; • Wireless Module Poly-4 for registration of two EOG derivations at 32-channel EEG registration with the corresponding set of cables; • respiratory effort sensor with micro-8 connector; • disposable ECG electrodes; • set of ECG electrodes (clips) (A_2229).

5.2.	**A_5527-1**	**Table Support** (for Connector EEG-20) for stationary use of electroencephalograph-recorder		**For stationary use of EEG-20 connectors** **Attention!** Additional wireless modules and sensors (usually placed on a patient) from the electroencephalograph sales package can be applied at stationary use of ABP-26 with connectors EEG-20. Mounting of EEG-20 connectors to the Table Support and Floor Stand complies with the VESA standard. *The external appearance of the Table Support is given as an example and may differ when delivered.*
5.3.	**A_2800**	**Floor Stand** for stationary use of electroencephalograph-recorder		

6.	**Autonomous patient transceiver-recorder ABP-10 in Poly-10 mode additional to the basic transceiver-recorder ABP-26**			For models of AT and AT-PSG-Video-Poly
6.1.	**A_6436**	**Autonomous patient transceiver-recorder ABP-10** in Poly-10 mode Used as an additional module to the patient transceiver-recorder ABP-26 of the electroencephalograph-recorder main modification* to: • **increase** recording channels of different parameters from the electrodes and sensors with micro- 8 connector **by 10 polygraphic channels**; • **increase the number of recording channels of EEG to 32** with the main transceiver-recorder ABP-26. **Integrated telemetric interface** (Bluetooth®) provides the connection to the main patient transceiver-recorder ABP-26 of the electroencephalograph-recorder, transmission and synchronization of the recorded data. Recorded data is saved, depending on the application, onto the memory card of the main patient transceiver-recorder ABP-26 (unattended mode) or transmitted to PC in telemetric mode. **The set includes:** • rechargeable batteries set (type – AA, 4 pcs., including 2 additional); • calibrator. **These functions can be performed by electroencephalograph-recorder "Encephalan-EEGR-19/26" modification "Mini" in the application variant 2 in 1** due to switching operation modes: "Electroencephalograph" or "additional Poly-10 module". ***** * See quotation or an illustrated catalog on the electroencephalograph-recorder "Encephalan-EEGR-19/26" modification "Mini".		**Used at PSG studies and multiparametric data registration in clinical and scientific research** The main patient transceiver-recorder can work **with 2 additional ABP-10 to increase the number of polygraphic channels up to 20.** **Depending on the application**, requires the electrodes, sensors, adapters, connectors and accessories (including set of fixing belts), as well as additional software from this catalogue. **To register 32 EEG derivations,** requires a corresponding connector or adapter cable and a set of electrodes for EEG at customer's option.
6.1.1.	**A_4765**	**Cover bag** for patient transceiver-recorder ABP-10 **The set includes:** • shoulder strap; • waist belt for fixing cover bag on patient's body.		Used for portable application of autonomous patient transceiver-recorder ABP-10.

6.1.2.	**A_5447**	**Mains Power Supply Adapter** For ABP-10 powering from the mains (220V, 50Hz) or USB port.		**For stationary use**, alternatively to autonomous powering from accumulators.
6.1.3.	**A_5528**	**Table Support** additional to ABP-10 in Poly-10 mode **The set includes** a clip and a holder.		Can be used for convenient operation with polygraphic channels of ABP-10 in Poly-10 mode and sensors with micro-8 connector at stationary EEG registration.

<table>
<tr><td>7.</td><td colspan="2">Sets of cup EEG electrodes with touchproof connectors
For use with connectors EEG-20 in stationary variant</td><td rowspan="3"> 
</td><td>From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES"</td></tr>
<tr><td>7.1.</td><td>A_2493-94</td><td>Set of cup EEG Electrodes and accessories SEEG-8/21
for 20 EEG derivations

The set includes:
• cup EEG electrodes for contact electrode gel (electrode wire length 1.2 m) – 25 pcs., including 3 additional;
• set of EEG electrodes fixers "ear clips" – 4 pcs.;
• set of snap connector wires for disposable ECG, EOG, EMG electrodes – 5 pcs.</td><td rowspan="2">Electrodes for contact electrode gel fixed with silicone tube caps

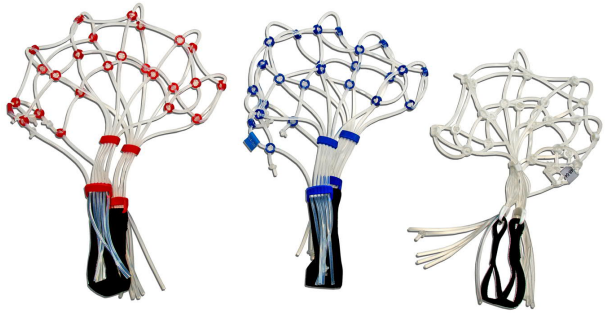
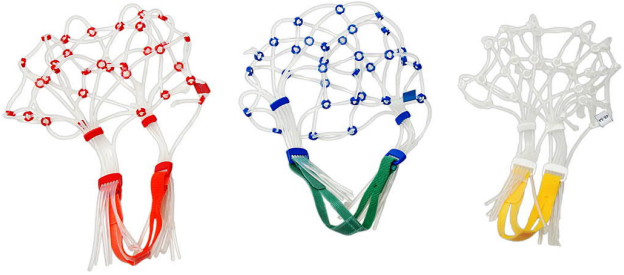
For routine EEG studies by 20 (32) EEG derivations with stationary or mobile connectors EEG-20.

Required:
• electrode gel;
• disposable ECG, EOG and EMG electrodes;
• set of silicone tube caps for 20 or 32 EEG electrodes (A_2804-4, A_2804-3).

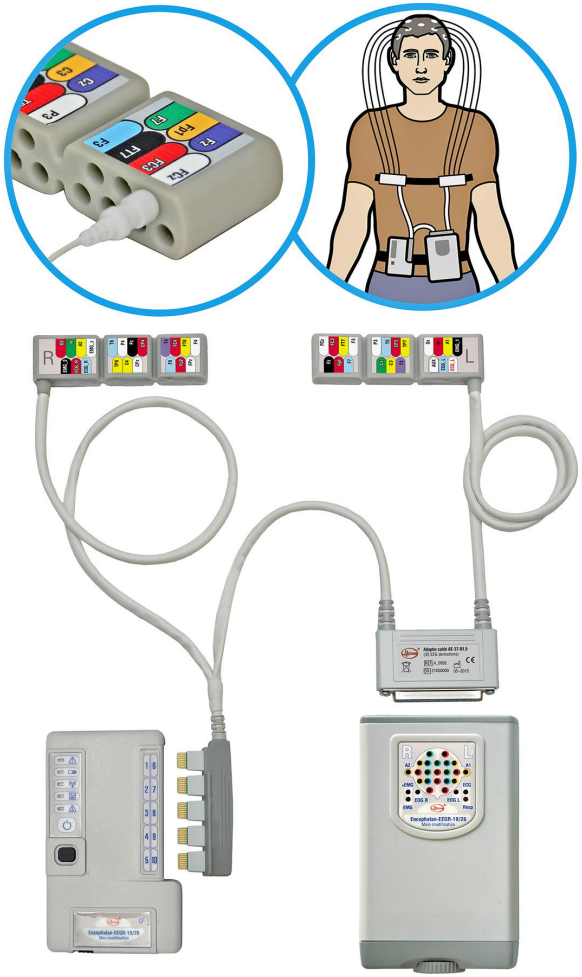
Attention!

At Customer's option set of cup EEG electrodes for contact electrode gel can be replaced by similar electrodes of another manufacturer subject to availability of Registration certificate of the Russian Federation.</td></tr>
<tr><td>7.2.</td><td>A_2493-97</td><td>Set of cup EEG Electrodes and accessories SEEG-8/21
for 32 EEG derivations

The set includes:
• cup EEG electrodes for contact electrode gel (electrode wire length 1.2 m) – 35 pcs., including 1 additional;
• set of EEG electrodes fixers "ear clips" – 4 pcs.;
• set of snap connector wires for disposable ECG, EOG, EMG electrodes – 5 pcs.</td></tr>
</table>

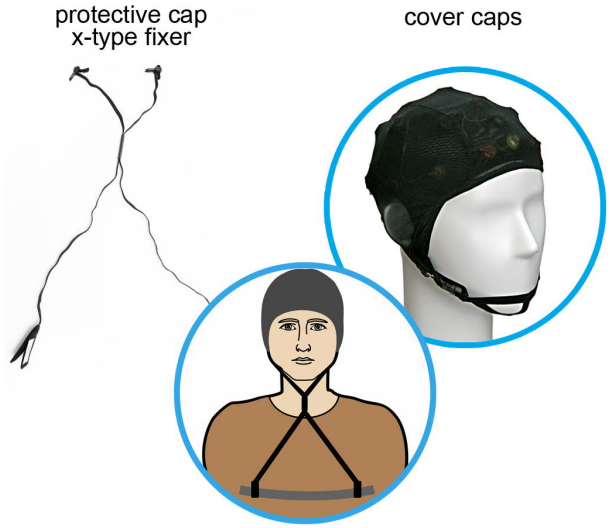
7.3.	**Set of silicone tube caps for EEG/REG electrodes**			
7.3.1.	**A_2804-1**	**Set of silicone tube caps** for 20 EEG electrodes (main set) **The set includes** 3 resizable caps with sizes 48-54; 54-58; 58-62		**Used:** • with cup EEG electrodes (for contact electrode gel); • with bridge EEG electrodes.
7.3.2.	**A_2804-4**	**Set of silicone tube caps** for 20 EEG electrodes (additional set) **The set includes** 2 resizable caps with sizes 38-42 and 42-46.		
7.3.3.	**A_2804-3**	**Set of silicone tube caps** for 32 EEG electrodes **The set includes** 3 resizable caps with sizes 48-54; 54-58; 58-62		
7.4.	**A_2229**	**Set of ECG electrodes** Used in stationary EEG studies conducted with a mobile EEG-20 connector or stationary connectors for 20 or 32 EEG derivations. Used with the ECG cable with micro-8 connector, which is connected to a polygraphic channel available to a user. **The set includes** 3 clips		ECG cable for 3 electrodes with micro-8 connector is required (A_8302). *The external appearance of the electrodes may differ when delivered.*

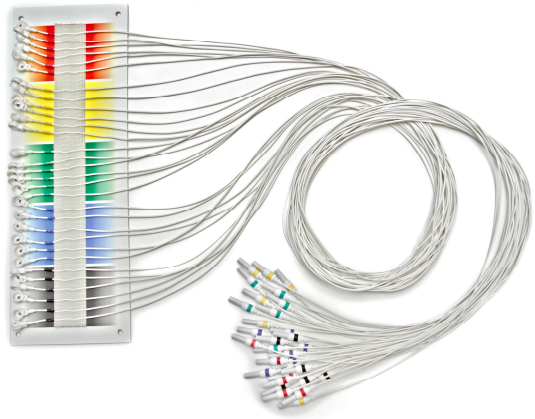
8.	**Sets of bridge EEG electrodes (20 or 32 derivations) with touchproof connectors** For use with connectors EEG-20 in stationary variant			
8.1.	**A_5891-4**	**Bridge EEG Electrodes set** for 20 EEG derivations **The set includes:** • **bridge EEG electrodes** – 22 pcs., including 2 additional; • **ear EEG electrodes** with a clip – 4 pcs., including 2 additional; • **pick-up cables for bridge EEG electrodes** with snap connector and color-coded marking (wire length 1.2 m) – 26 pcs., including 5 additional for disposable ECG, EOG or EMG electrodes.		**Fixed with silicone tube caps** **For routine EEG studies** with stationary or mobile connectors EEG-20 for 20 (32) EEG derivations. **Required:** • silicone tube caps (A_2804-1, A_2804-4, A_2804-3); • disposable ECG, EOG and EMG electrodes.
8.2.	**A_5891-5**	**Bridge EEG Electrodes set** for 32 EEG derivations **The set includes:** • **bridge EEG electrodes** – 34 pcs., including 2 additional; • **ear EEG electrodes** with a clip – 4 pcs., including 2 additional; • **pick-up cables for bridge EEG electrodes** with snap connector and color-coded marking (wire length 1.2 m) – 36 pcs., including 5 additional for disposable ECG, EOG or EMG electrodes).		

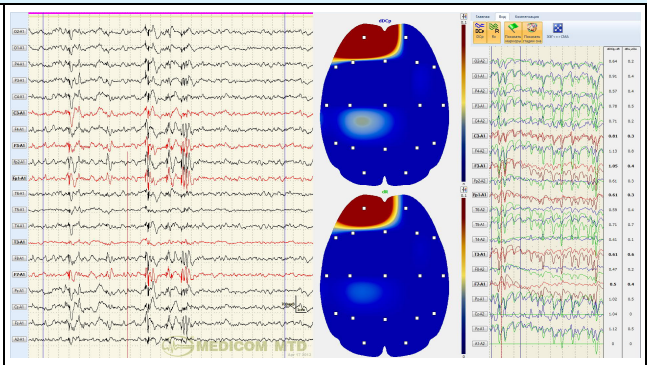
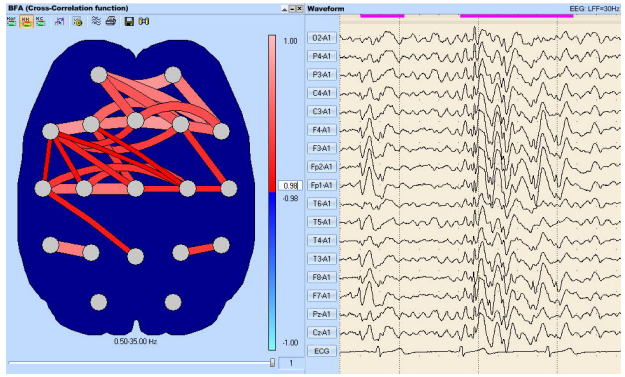
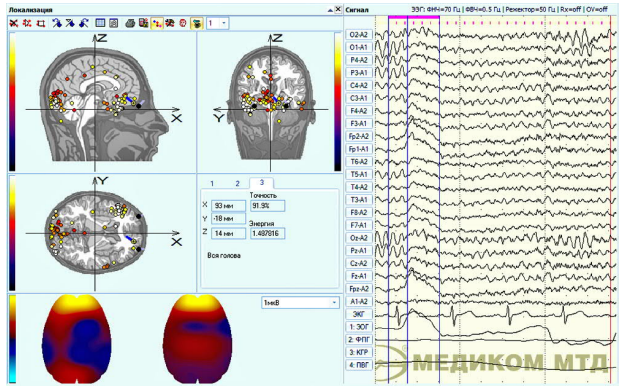
9.	**Additional equipment and accessories** For portable (mobile) application of patient transceiver-recorder ABP-26			
9.1.	**A_0692-2**	**AE-37 Adapter-cable** (for 32 derivations) **Provides connection of EEG electrodes with touchproof connectors by 10-10 system for EEG studies up to 32 derivations.** Group connectors of adapter cable are connected to the main transceiver-recorder ABP-26 and additional transceiver-recorder ABP-10 in Poly-10 mode (cable length from the patient transceiver-recorders to adapters – 0.8 meters). When conducting a study by 32 EEG derivations, provides the connection of disposable or adhesive cup electrodes for 1 non-standard ECG derivation (1 ECG electrode referent to A1) and 1 EMG derivation from 2 electrodes (chin). 2 EOG registration, if necessary, can be carried out due to a decrease in number of recording channels of EEG to 30. **Attention!** If a decrease of channels to 30 is undesirable, you can use optional wireless Poly-4 module, as well as 2 cables for bipolar EOG derivation (with micro-8 connector, disposable or adhesive cup electrodes). Sensors with micro-8 connector can be connected to 2 free polygraphic channels of Poly-4 module at customer's option. **Intuitive color-coded marking** of slots of AE-37 Adapter-cable for 32 derivations, connectors of EEG electrodes of various types and EEG electrodes **provide fast preparation for a study.** **The set** includes laminated color montages of electrode placement.		**From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES".** **Compact adapter is fixed to the chest belt of the patient from the set of fixing belts.** **Required:** • additional patient transceiver-recorder ABP-10; • set of cup adhesive EEG electrodes for 32 EEG derivations; • set of fixing belts A_7652; • Poly-4 Wireless Module for registration of 2 EOG derivations for 32-channel EEG record with the corresponding set of cables; • disposable ECG electrodes; • protective cover for conductors of EEG electrodes – **2 pcs.** (A_0129).

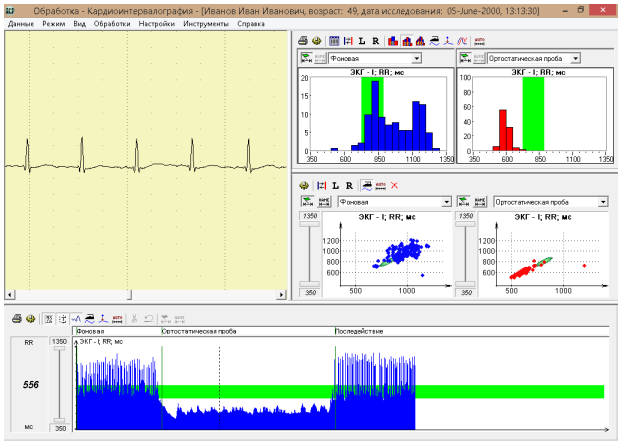
9.2.	**A_2801**	**Connector "EEG-20"** for portable (mobile) application of patient transceiver-recorder ABP-26 **Provides connection of EEG electrodes with touchproof connectors by 10-20 system for EEG studies up to 20 derivations, and connection of disposable or adhesive cup electrodes:** • EOG – 2 derivations, ECG – 1 non-standard derivation (1 ECG electrode referent to A1); • EMG – 1 derivation from 2 electrodes (chin); • one sensor to the polygraphic channel with micro-8 connector – recommended are respiratory effort sensor or ECG cable (A_8302) with snap connectors for 1 standard ECG derivation (three disposable electrodes or clips). **Intuitive color-coded marking** of slots of EEG-20 connector for mobile application, connectors of EEG electrodes of various types and EEG electrodes **provides fast preparation for a study**. The set includes laminated color montages of electrode placement.		**Required:** • EEG electrodes sets with touchproof connector for 20 derivations; • respiratory effort sensor with micro-8 connector; • ECG cable for bipolar derivation with neutral electrode (A_8302); • disposable ECG electrodes; • protective cover for conductors of EEG electrodes (A_0129).

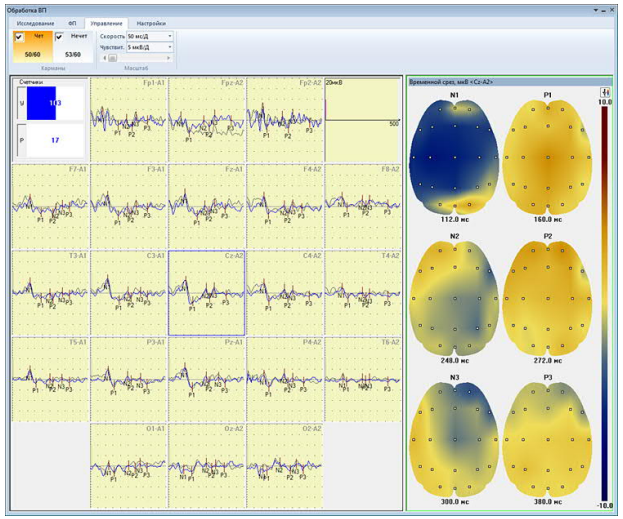
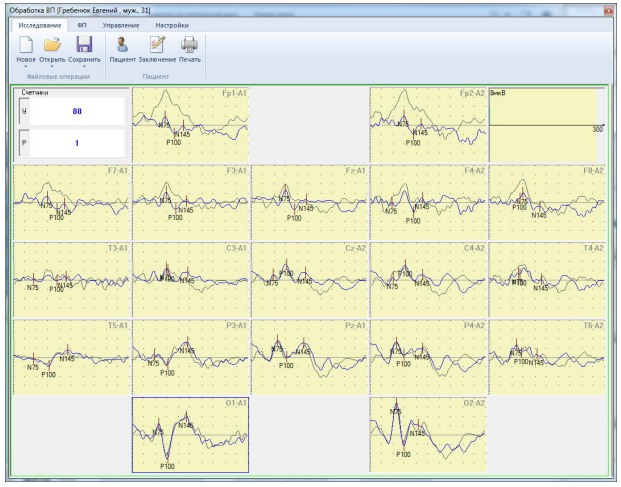
10.		**Set of Cup (adhesive type) EEG Electrodes with touchproof connector** For use with connectors or adapter-cables for continuous EEG monitoring (including PSG studies)		
10.1.	**A_5330**	**Set for 20 EEG derivations** length **1.2 m**. **The set includes:** • **cup electrodes for EEG**, EMG, EOG and ECG registration – 30 pcs., including 3 additional; • **adhesive plaster** Omnifix.		**Differs in a more reliable fixation of the electrodes and high-quality EEG recording.** **Used for continuous EEG monitoring, EEG/PSG studies, neuromonitoring and brain death statement.** **Electrodes are applied:** • with stationary connectors EEG-20, as well as with a mobile connector EEG-20 for 20 derivations; • with adapter cable A_0692-2 for 32 derivations (for children – wires 0.8 m, for adults – 1.2 m). **Required:** • electrode paste EC2, TEN-20 or similar; • glue-collodion (probe is provided), glue remover, compact hair-dryer for quick gel drying (purchased individually at pharmacy or shop); • cover cap (A_5018-3, A_5019-3 or A_5020-3); • protective cover (covers) for conductors of EEG electrodes from cover cap to mobile connector EEG 20 or adapter cable (A_0129); • accessory belt for fixing conductors of the electrodes when gluing (A_0130); • wall strap for electrodes arrangement (A_0145).
10.2.	**A_5330-1**	**Set for 32 EEG derivations** length **1.2 m**. **The set includes:** • **cup electrodes for EEG**, EMG, EOG and ECG registration – 38 pcs., including 1 additional; • **adhesive plaster** Omnifix.		
10.3.	**A_5330-4**	**Set for 32 EEG derivations** length 0.8 m. **The set includes:** • **cup electrodes for EEG**, EMG, EOG and ECG registration – 38 pcs, including 1 additional; • **adhesive plaster** Omnifix.		

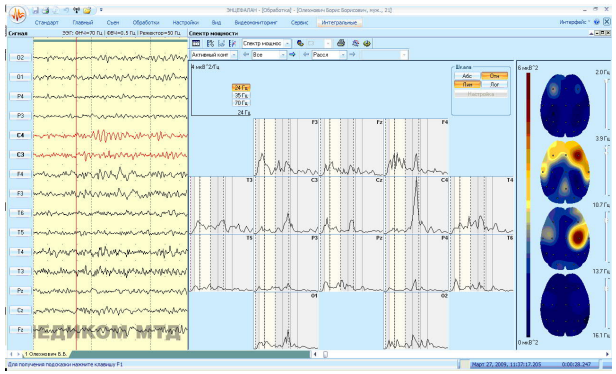
11.	**Additional accessories for adhesive cup EEG electrodes**			From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES"
11.1.	**Set of protective elastic fixing cover caps** for adhesive cup electrodes			**Meant for additional fixation and coverage of adhesive cup electrodes and conductors to them at continuous studies.** Protective cap x-type fixer can also be fixed to the chest belt of wireless body position sensor or to the chest belt from the set of fixing belts.
11.1.1.	**A_5018-3**	**Set of protective elastic fixing cover caps, "baby"** Sizes from 34 to 45 – 5 pcs. **The set includes** chest belt fixing to a baby diaper.		
11.1.2.	**A_5019-3**	**Set of protective elastic fixing cover caps, "children"** Sizes from 45 to 55 – 5 pcs. **The set includes** chest belts (2 pcs. of different sizes) and protective cap x-type fixer.		
11.1.3.	**A_5020-3**	**Set of protective elastic fixing cover caps, "adult"** Sizes from 55 to 66 – 5 pcs. **The set includes** protective cap fixer and fixing chest belt.		
11.1.4.	**Chin fixers** for elastic cap or cover cap			If necessary, the customer can additionally purchase a chin fixer for fixation of cap or cover cap alternatively to fixing belt and chest belt.
11.1.4.1.	**A_0497**	**Chin fixer "adult"**		
11.1.4.2.	**A_0496**	**Chin fixer "children"**		

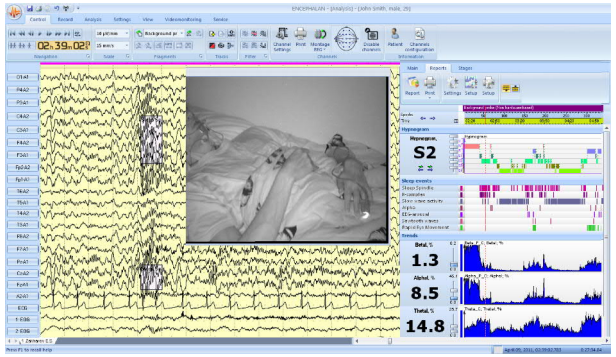
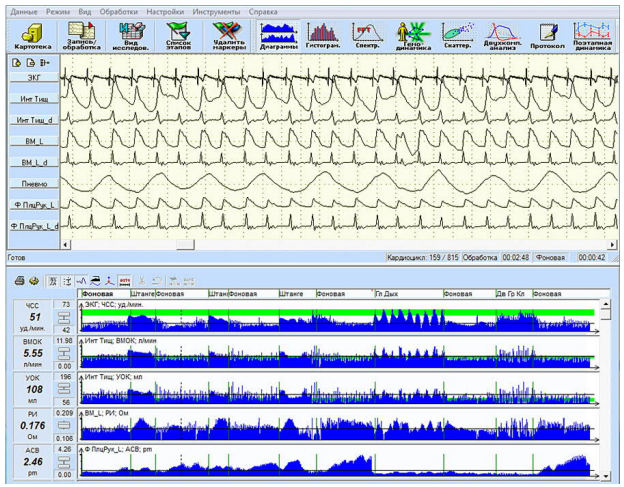
11.2.	**A_0129**	**Protective cover for conductors of EEG electrodes** Covers cable from cover cap to mobile connector EEG 20 or adapter cables.		For the sets of cup adhesive EEG electrodes
11.3.	**A_0130**	**Support belt for electrode gluing.** **The set includes** laminated color montages of electrode placement.		
11.4.	**A_0145**	**Electrode Storage Bar**		

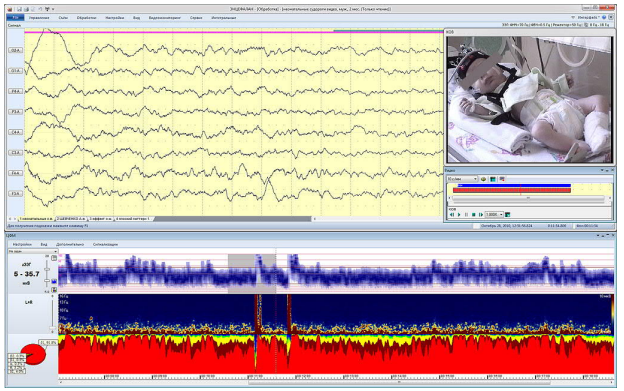
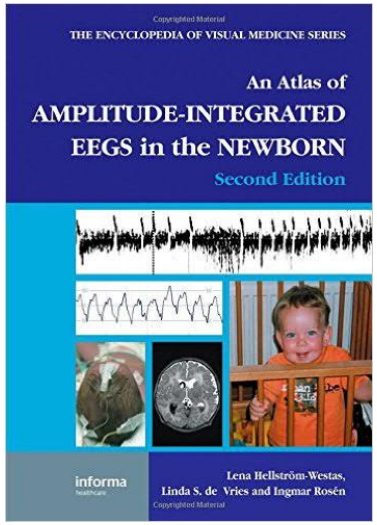
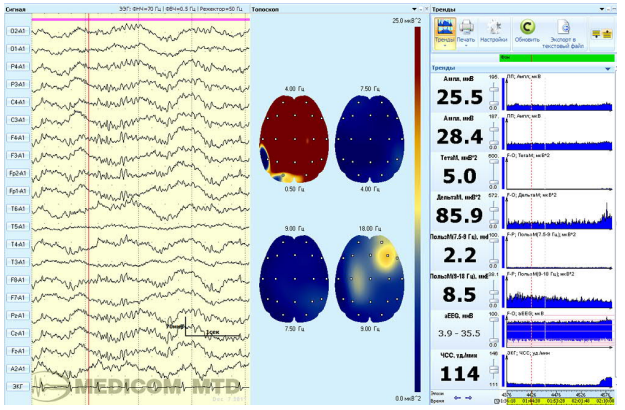
12.	Software that extends the functionality at EEG studies			
12.1.	**A_0836**	**"Encephalan-VLFA" Software for Analysis of Very Low Frequency Activity** *(patented in RF #2252692)* Software additionally provides analyzing of very slow EEG responses simultaneously with recording of EEG by the same derivations. Dynamic trends of very slow potentials and topographic maps of instantaneous values and reactive shifts of the DC-potentials level to functional tests or functional stresses at continuous EEG studies carried out allow a doctor or experimentalist-researcher to use obtained information for indirect evaluation of cerebral energy exchange and reactivity (metabolic change dynamics) and match it with EEG studies results and indices of cardiovascular system, CNS and ANS (if corresponding sensors and wireless devices are available). For scientific and clinical research in psychophysiology, sports medicine and somnology.		**Additional software which provides DC potential registration (up to 20 derivations) simultaneously with EEG registration** using electrode systems or electrodes for EEG registration.
12.2.	**A_1037**	**"Encephalan-FBA" Software for Functional Brain Asymmetry Analysis** Software provides visualization of intercentral connections maps (interhemispheric and intrahemispheric) on the basis of calculated matrixes of relative functions (cross-correlation, cross-spectrum, coherence function) by the set combinations of derivations, which gives a doctor additional information for solving scientific and clinical tasks of intra-and intercotical dysfunctions diagnostics, detection of pathological activity and control of the treatment, studies of topical features and intercentral cooperation in carrying out various activities.		**Additional software** which uses quantitative methods of EEG analysis. Analysis can be performed both in real time and at processing continuous EEG studies.
12.3.	**A_0382**	**"Encephalan-3D" Software for 3D Localization of the Electrical Activity Sources** Software presents the results of solving the reverse task EEG/EP to detect probabilistic spatial source of selected graph elements of EEG signal on three nominal brain cuts in the form of equivalent dipoles cloud. Such spatial localization gives a doctor additional information on supposed location of the EEG epileptiform activity focuses or EP components sources.		**Additional software** which uses quantitative methods of analysis for 20 EEG/EP derivations.

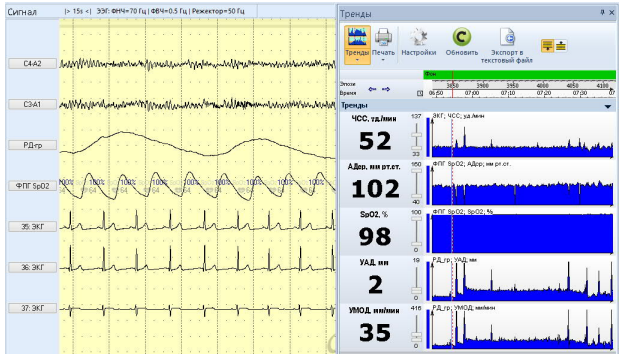
12.4.	**A_1964**	**"HRV" Software for Heart Rate Variability Analysis** **Software is used to assess the state of the autonomic nervous system and neurohumoral regulation of the patient, to evaluate the adequacy of physical and psycho-emotional stress taking into account the autonomic reactivity to a provoking effect, as well as to control the effect of medicinal drugs and efficiency of treatment prescribed.** Software uses standard recommended types of quantitative analysis and results representation in the form of cardiointervalogram trends (HR, RR), statistical and spectral parameters, hystograms and scattergrams (correlation rhythmograms) of RR-intervals allocation, spectrograms with frequency ranges that characterize the state of ANS and balance of sympathetic and parasympathetic sections (HF, LF, VLF). There is an option of forming the formalized protocol with initial state description and autonomic reactivity. Software allows analyzing selected fragments of continuous ECG records (24 hrs, night recording) at long-term EEG/PSG studies or multiparameter monitoring.		**It can be used both independently and as concomitant software, related to the basic study**, for example at PSG studies, neuromonitoring, multiparameter monitoring, epileptological studies with EEG-video monitoring. **Requires** purchasing ECG cable (A_4740) if it is not included into delivery set.

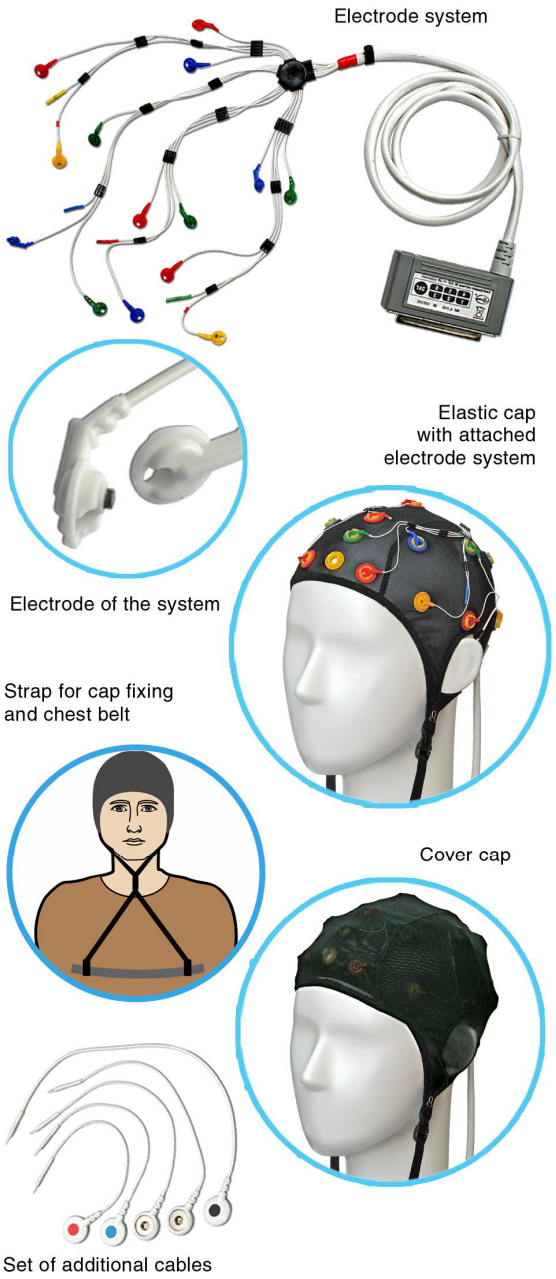
13.	Software and accessories for long-latency evoked potentials study			
13.1.	**A_0500**	**"Encephalan-EP" Software for EP-studies, "Basic" Suite** For long-latency EP studies: visual and auditory, somatosensory, cognitive EP (CNV and P300). Software generates specified stimulation scenarios of different modality, records and analyzes long-latency and cognitive EP for objective analysis of corresponding analyzers' state and highest cognitive functions to diagnose and treat pathologies of central character.		**The stimulating devices** (photo, phono- or somatosensory (electro-) stimulators from the stimulator SFN/FO-04 set) are required depending on the selected modality of EP studies. **Cognitive EPs require a button sensor.**
13.1.1.	**A_4009**	**Patient Button Unit (five button response pad)** For detecting patient's response (pressing the specified button, 5 buttons) on presented stimulus while using the "Encephalan-AVS" Software. **The set includes** battery (type – AAA, 4 pcs., including 2 additional).		Required for study of cognitive (CNV and P300, MMN) EP, and for EEG and EP studies with audio-visual stimulation
13.2.	**A_0650**	**"Encephalan-EP" Software for Evoked Potentials studies, "Professional" suite** (upgrading the "Basic" suite) For study of Visual Evoked Potentials (VEP) to Chess Pattern Reversion.		**Required:** • additional monitor (21'); • sensor of videostimulus synchronization.

13.2.1.	**A_4178**	**Videostimulus synchronization sensor** Provides accurate detection of videostimulus presentation moment.		It used at the study of the visual EP to pattern reversal and at EEG and EP study to audio-visual stimulation.
13.3.	**A_0712**	**"Encephalan-AVS" Software Suite for EEG and EP Studies Using Audiovisual Stimulation** **Software provides flexible forming and playback of scenarios of cognitive stimulation using graphic images, audio files and text information as stimuli.** Images can be of tiff, jpg, bmp, gif formats with any resolution, including FullHD; audio files – formats wav, mp3; text information can be customized by font color and size, background color, and area of visualization on the screen. **Option of unconscious stimuli presentation** with direct and inverse masking with control of responses (latent periods of button pressing). **Accurate synchronization** of presented stimuli and recorded physiological signals (EEG, EP), which allows carrying out EEG and EP studies (cognitive EP) to solve different clinical and scientific tasks in neurology, psychophysiology, studies of perception mechanisms, etc.		**Required:** • additional monitor for stimuli presentation; • headphones or acoustic system for audio stimuli presentation; • patient button unit and sensor of videostimulus synchronization.

14.	Software for additional study types at continuous EEG monitoring			
14.1.	**A_1627-21**	**"Encephalan-PSG" Software for Somnological Studies, "Neurological" Suite** Used mainly as an addition to EEG videomonitoring for epileptological studies. Software provides sleep stages analysis, automatic building and manual editing of hypnograms, marking sleep events, reporting for sleep stages distribution.		**Only data on EEG, EOG, EMG is analyzed.** **Attention:** Cardiorespiratory disorders, SpO2, snore, movement disorders are not analyzed.
14.2.	**A_1627-11**	**"Encephalan-PSG" Software for Somnological Studies, "Maximum" Suite** Software provides: sleep stages analysis, automatic building and manual editing of hypnograms, marking sleep events, reporting for sleep stages statistics, sleep stages distribution, cardiorespiratory disorders, SpO_2, etc. Analysis of data on 32, 20, 12 or 6 EEG derivations, 2 EOG, 1 EMG and other physiological signals registered with polygraphic channels of ABP and other additional wireless devices (SpO_2, breathing parameters, snore, legs movement, etc.). Sleep related breathing and movement disorders are analyzed.		**Required:** • electrode systems or adapter-cables with electrodes for PSG studies – 6, 11, 20 or 32 EEG derivations; • wireless pulse oximeter module with sensors, as well as modules, sensors and accessories for PSG studies.
14.3.	**A_0803**	**"Encephalan-MPA" software for multiparameter analysis of signals from polygraphical channels in combination with EEG signals** (patented in RF #2252692) Software provides calculation and visualization of trends which display beat-by-beat dynamics (dynamics of indices from cardio cycle to cardio cycle) of different physiological parameters of cardiovascular (CVS), autonomic (ANS) and central nervous system (CNS) in unified time scale which provides visual evaluation of the interrelations (signals from the list (if corresponding sensors are purchased): EEG, EOG, EMG, ECG, RespEff, SpO2, Rheo-CHD, REG, PPG, temperature, movement activity, etc.). Software allows analyzing recorded physiological signals, evaluating physiological shifts in response to provoking actions to detect weak and compensatory links in the systems of the body. Software allows carrying out statistical and spectral analysis, building histograms or scattergrams of selected quantitative parameters distribution by the specified study fragments, as well as generating automatic report with formalized results description and table data illustrating initial state and significant changes caused by functional tests during multiparametric telemetric monitoring or processing data on autonomous monitoring with "Encephalan EEGR" Software.		Used for psychophysiological and PSG studies, as well as for scientific and clinical studies. For system analysis of hemodynamics as an independent study, electrodes, sensors, wireless units and modules are required.

14.4.	**A_0803-3**	**"Encephalan-CFM" Software for Cerebral Functions Monitoring in ICU** **Software provides long-term dynamic aEEG analysis** for detection of epileptiform activity, for neurological prognosis for perinatal asphyxia in neonatology, for post-comatose unconsciousness in ICU, for neurophysiological control of ischemic strokes, and for evaluation of phasic sleep structure at PSG studies. Trends of amplitude-integrated EEG (aEEG), 3D representation of compressed spectral array (CSA), density spectral array (DSA), trends of EEG spectral indices, mirror spectrogram, automatic reporting with quantity characteristics of recorded phenomena allows identifying and classifying the specific aEEG patterns. Can be used at clinical and scientific research.		**If used in neonatology, requires:** • electrodes and accessories for low-channel cerebral functions monitoring; • mobile or stationary EEG-20 connector.
14.4.1.	**A_7478**	**Atlas of amplitude-integrated EEG in the newborns**		The text of the Atlas in English
14.5.	**A_0803-1**	**"Encephalan-NM" Software for Neuromonitoring** **Software provides calculation and visualization of trends** (duration of averaged parameters time quantum can be set in the range from 10 to 300 s) **of different physiological parameters** (if corresponding sensors and devices are present), CNS (amplitude and spectral EEG parameters, DCp values), ANS and cardiorespiratory system (respiration parameters, galvanic-skin response, heart rate, temperature, tonus of muscles and vessels, oxygen saturation SpO2, oculomotor manifestations, etc.), movement activity and body position changing in unified time scale in long multiparametric monitoring. Software gives an information in digital and graph form for long-term dynamic monitoring and evaluation of the patient's state in ICU and can be used at clinical and scientific research.		Trends are based on the signals recorded by means of electrode systems and electrodes for EEG registration, as well as sensors and wireless units and modules that are necessary for monitoring.

14.6.	**A_0803-2**	**"Encephalan-CM" for cardiorespiratory monitoring and scientific research** Building of averaged cardiointervalogram trends (dynamics of HR and RR-intervals), indirect systolic, diastolic, and mean arterial pressure obtained by calculation based on the pulse transit time (PTT) characterizing the rigidity of the arterial bed, and simultaneous with other indicators visual analysis. Detection of episodes of cardiac arrhythmias and latent ischemia in relation to respiratory disorders (apnea) for PSG studies. 3 additional bipolar ECG channels and channel of impedance pneumogram of PG-ECG Connector are used. ECG and impedance pneumogram signals are recorded synchronously with other indices.		**Additionally** used for polysomnography, neuromonitoring, multiparameter monitoring. **Requires purchasing the connector PG-ECG** and four free polygraphic channels.

15.	**Sets of accessories with electrode systems for continuous monitoring by 11 EEG derivations and 6 polygraphic channels**			From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES"
15.1.	**The sets with electrodes for contact gel** **The sets include:** • **electrode systems ES-EEG-11-3;** Electrodes are fixed in the eyelets of elastic fixing caps. Wires are grouped in a cable and have a group connector to ABP-26. Provides registration of 12 EEG derivations, 2 – EOG, 1 – EMG, 1 non-standard ECG derivation (one ECG electrode relative to the reference EEG electrode). **6 polygraphic channels for sensors with micro-8 connector.** • **set of additional cables** to connect disposable ECG, EMG, EOG electrodes to electrode system – 5 pcs.; • **set of elastic fixing caps ES-EEG** with eyelets for electrodes and covers for them – 5 sizes, fixer for elastic caps, chest fixing belt, syringe with plastic nozzles set for electrode gel insertion.			For EEG/PSG studies, neuromonitoring, psychophysiological and scientific research using **software for additional study types at continuous EEG monitoring.** **Required:** • electrode gel; • disposable ECG, EOG and EMG electrodes; • sensors for polygraphic channels depending on application. Chin fixer for cap ES-EEG is purchased if necessary (A_0497, A_0496). **Required for PSG studies:** • additional units, modules and sensors (**see recommendation on sales package selection:** Polysomnographs based on electroencephalographs "Encephalan-EEGR-19/26", main modification). Also required – ECG cable for bipolar derivation (A_8302).
15.1.1.	**A_2493-31**	**ES-EEG-11-3B "Baby" set** Sizes from 34 to 45.		
15.1.2.	**A_2493-32**	**ES-EEG-11-3C "Children" set** Sizes from 45 to 55.		
15.1.3.	**A_2493-33**	**ES-EEG-11-3A "Adult" set** Sizes from 55 to 66.		

15.2.	**The sets with adhesive cup EEG electrodes** **The sets include:** • **electrode systems ES-EEG-11-3(c);** Wires for electrodes are grouped in a common cable and have a group connector to ABP-26. Provides registration of 12 EEG derivations, 2 – EOG, 1 – EMG, 1 non-standard ECG derivation (1 ECG electrode referent to A1). **6 polygraphic channels for sensors with micro-8 connector.** • **set of reusable adhesive electrodes for ECG, EMG, EOG** to electrode system – 6 pcs.; • **set of protective elastic fixing cover caps** – 5 sizes, fixer for cover caps, chest fixing belt; • **adhesive plaster** Omnifix – 1 pcs.; • color montages of electrode placement.		
15.2.1.	**A_2493-34**	**ES-EEG-11-3B(c) "Baby" set** Sizes from 34 to 45.	
15.2.2.	**A_2493-35**	**ES-EEG-11-3C(c) "Children" set** Sizes from 45 to 55.	
15.2.3.	**A_2493-36**	**ES-EEG-11-3A(c) "Adult" set** Sizes from 55 to 66.	

Differs in a more reliable fixation of the electrodes and high-quality EEG recording.

For EEG/PSG studies, neuromonitoring, psychophysiological and scientific research using **software for additional study types at continuous EEG monitoring.**

Required:

- electrode paste EC2, TEN-20 or similar;
- sensors for polygraphic channels;
- glue-collodion, glue remover, compact hair-dryer for quick gel drying (purchased individually).

Chin fixer for cover cap is purchased if necessary (A_0497, A_0496).

Required for PSG studies:

- additional units, modules and sensors (**see recommendation on sales package selection:** Polysomnographs based on electroencephalographs "Encephalan-EEGR-19/26", main modification).

Also required – ECG cable for bipolar derivation (A_8302).

16.	Set of accessories and electrode systems for 6 EEG derivations and 6 polygraphic sensors for PSG studies			From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES"
16.1.	**The sets with electrodes for contact gel** **The sets include:** • **electrode systems ES-EEG-6-3;** Electrodes are fixed in the eyelets of elastic fixing caps. Wires for electrodes are grouped in a common cable and have a group connector to ABP-26. Provides registration of 6 EEG derivations, 2 – EOG, 3 – EMG, 1 – ECG derivation (2 electrodes for differential thoracic ECG derivation). **6 polygraphic channels for sensors with micro-8 connector.** • **set of additional cables** to connect disposable ECG, EMG, EOG electrodes to electrode system – 7 pcs.; • **set of elastic fixing caps ES-EEG** with eyelets for electrodes and covers for them – 5 sizes, fixer for elastic caps, chest fixing belt, syringe with plastic nozzles set for electrode gel insertion.			For EEG/PSG studies, neuromonitoring, psychophysiological and scientific research using **software for additional study types at continuous EEG monitoring.** **Required**: • electrode gel; • disposable ECG, EOG and EMG electrodes; • sensors for polygraphic channels depending on application. Chin fixer for cap ES-EEG is purchased if necessary (A_0497, A_0496). **Required for PSG studies:** • additional units, modules and sensors (**see recommendation on sales package selection:** Polysomnographs based on electroencephalographs "Encephalan-EEGR-19/26", main modification).
16.1.1.	**A_2493-60**	**ES-EEG-6-3B "Baby" set** Sizes from 34 to 45.		
16.1.2.	**A_2493-61**	**ES-EEG-6-3C "Children" set** Sizes from 45 to 55.		
16.1.3.	**A_2493-62**	**ES-EEG-6-3A "Adult" set** Sizes from 55 to 66.		

16.2.	**The sets with cup adhesive EEG electrodes** **The sets include:** • **electrode systems ES-EEG-6-3(c);** Wires for electrodes are grouped in a common cable and have a group connector to ABP-26. Provides registration of 6 EEG derivations, 2 – EOG, 3 – EMG, 1 – ECG derivation (2 electrodes for differential thoracic ECG derivation). **6 polygraphic channels for sensors with micro-8 connector.** • **set of reusable adhesive electrodes for ECG, EMG, EOG** to electrode system – 7 pcs.; • **set of protective elastic fixing cover caps** – 5 sizes, fixer for cover caps, chest fixing belt; • **adhesive plaster** Omnifix – 1 pcs.; • color montages of electrode placement.		
16.2.1.	**A_2493-52**	**ES-EEG-6-3B(c) "Baby" set** Sizes from 34 to 45.	
16.2.2.	**A_2493-55**	**ES-EEG-6-3C(c) "Children" set** Sizes from 45 to 55.	
16.2.3.	**A_2493-56**	**ES-EEG-6-3A(c) "Adult" set** Sizes from 55 to 66.	

Differs in a more reliable fixation of the electrodes and high-quality EEG recording.

For EEG/PSG studies, neuromonitoring, psychophysiological and scientific research using **software for additional study types at continuous EEG monitoring.**

Recommended for PSG studies.

Required:

• electrode paste EC2 or similar;

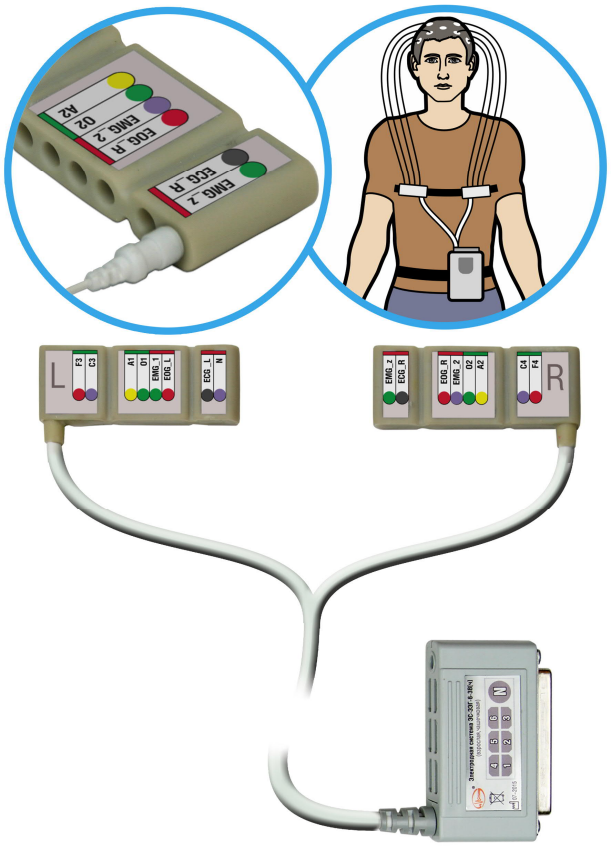
• sensors for polygraphic channels;

• glue-collodion, glue remover, compact hair-dryer for quick gel drying **(purchased individually).**

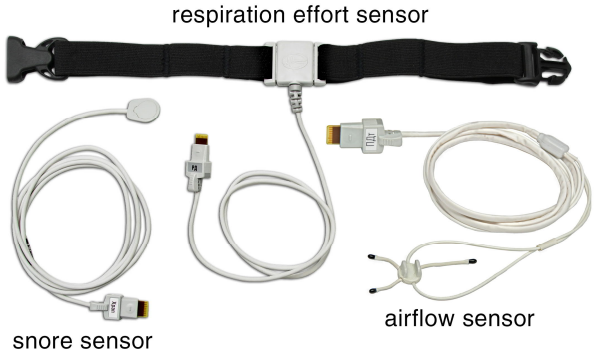
Chin fixer for cover cap is purchased if necessary (A_0497 or A_0496).

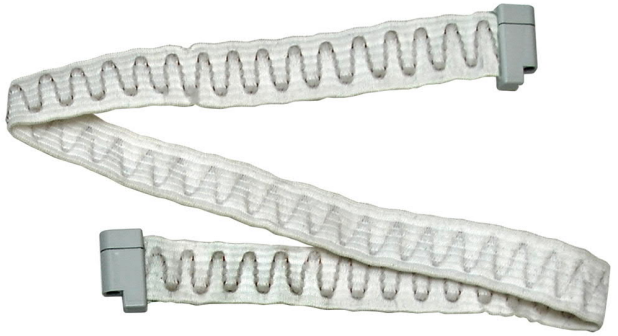
Required for PSG studies:

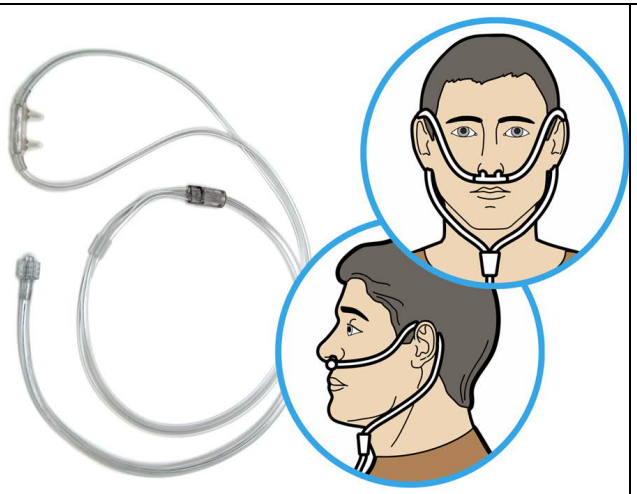
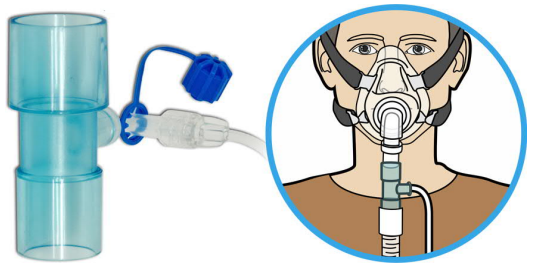
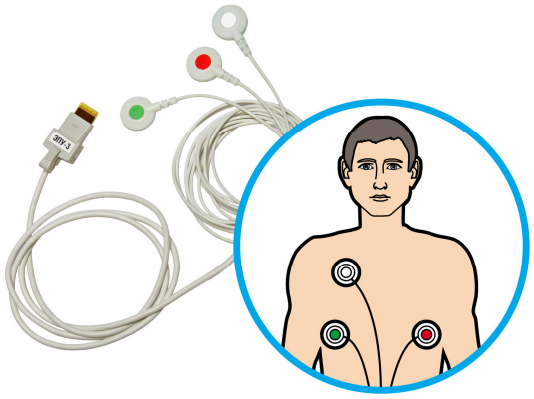
• additional units, modules and sensors (**see recommendation on sales package selection:** Polysomnographs based on electroencephalographs "Encephalan-EEGR-19/26", main modification).

17.	Accessories for PSG studies using 6 EEG derivations from adhesive electrodes with touchproof connectors and 6 polygraphic channels			
17.1.	A_0692-4	**AE-37 Adapter-cable** for EEG registration by 6 derivations from cup (adhesive type) EEG electrodes Cable with compact adapter with touchproof connector and group connector to ABP-26 (cable length from patient transceiver-recorder to adapter is 0.8 m). Adapters provide registration of 6 EEG derivations, 2 – EOG, 3 – EMG, 1 – ECG derivation (2 electrodes for differential thoracic ECG derivation). **6 inputs of polygraphic channels for sensors with micro-8 connectors.** **Intuitive color-coded marking** of slots of AE-37 Adapter-cable for 6 derivations, connectors of EEG electrodes of various types and EEG electrodes provides fast preparation for a study. The set includes laminated color montages of electrode placement.		**From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES".** **Adapter cables are used at PSG studies.** Group connector of adapter cable has **6 inputs of polygraphic channels** for sensors with micro-8 connector from the set of sensors and accessories for Wireless Respiration Module or from the set of electrodes, sensors and accessories for Poly-4 module (movement activity). **Required:** • corresponding set of cup (adhesive type) EEG electrodes with touchproof connectors; • set of fixing belts (A_7652); • protective cover for conductors of EEG electrodes – **2 pcs.** (A_0129); • additional units, modules and sensors (**see recommendation on sales package selection:** Polysomnographs based on electroencephalographs "Encephalan-EEGR-19/26", main modification).

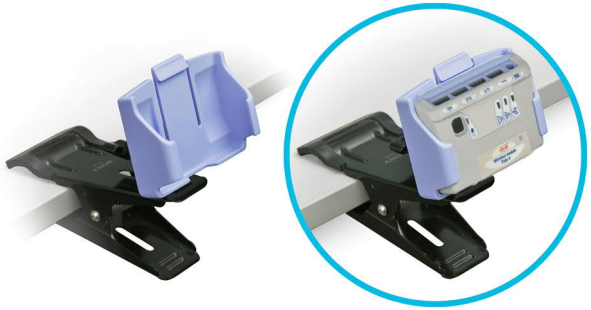
17.2.	**A_5330-7**	**Set of Cup EEG Electrodes** (adhesive type) for 6 EEG derivations (for adults) **Wires length – 1.2 m.** Touchproof connectors, color-coded marking. **The set includes:** • **cup EEG electrodes,** including electrodes for EMG, EOG and ECG registration – 16 pcs.; • **adhesive plaster** Omnifix.		**Differs in a more reliable fixation of the electrodes and high-quality EEG recording.** Adhesive cup EEG electrodes are used for PSG studies, continuous EEG monitoring, neuromonitoring, Used with adapter-cable for 6 EEG derivations. **Required:** • electrode paste EC2, TEN-20 or similar; • set of net elastic cover caps for children (A_5019-3) and adults (A_5020-3). **Additionally required:** • glue-collodion (probe is provided); • glue remover; • compact hair-dryer for quick gel drying (purchased individually at pharmacy or shop); • accessory belt for fixing conductors of the electrodes when gluing (A_0130); • wall strap for electrodes arrangement (A_0145).
17.3.	**A_5330-2**	**Set of Cup EEG Electrodes** (adhesive type) for 6 EEG derivations (for children) **Wires length – 0.8 m.** Touchproof connectors, color-coded marking. **The set includes:** • **cup EEG electrodes,** including electrodes for EMG, EOG and ECG registration – 16 pcs.; • **adhesive plaster** Omnifix.		

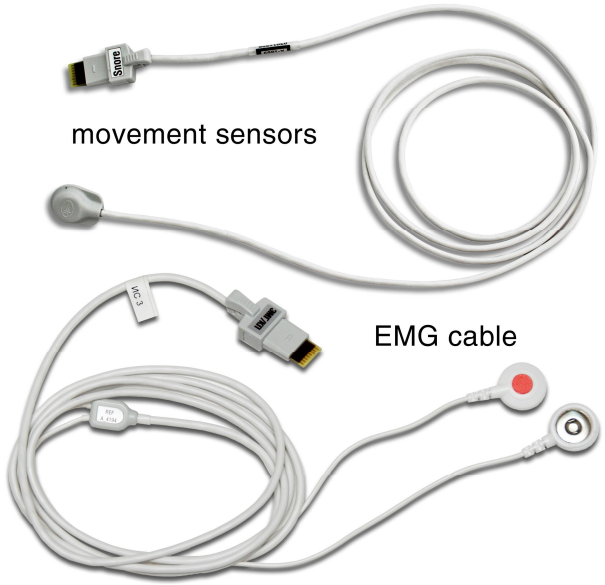
18.	**Units, modules, sensors and accessories for software for additional study types:** EEG/PSG studies, neuromonitoring, cerebral functions monitoring, clinical, psychophysiological and scientific research			
18.1.	**A_4404**	**Wireless Respiration Module** Provides synchronous with EEG registration of signals via 4 channels from respiratory sensors during PSG studies. **The set includes** rechargeable batteries (type – AA, 2 pcs., including 1 additional).		Used as an additional module at continuous PSG/EEG studies and multiparameter monitoring. Attached onto the patient's body with a set of fixing belts (A_7652).
18.1.1.	**A_4731**	**Simulator** Meant for technical verification of workability of WRM module channels, as well as to check the connection between the WRM module and the base transceiver-recorder ABP-26.		From the set of Wireless Respiration Module. At customer's option.
18.1.2.	**A_5365-1**	**Set of Sensors and Accessories for Wireless Respiration Module** **The set includes:** • **respiratory effort sensor** ("RespEff") with fixing belts – 2 pcs. cable length of the thoracal sensor – 0.9 m; cable length of the abdominal sensor – 0.65 m;; • **snore sensor** cable length – 1.2 m; • **oral-nasal thermistor airflow sensor** cable length – 1.2 m.		The set can be used for EEG/PSG studies with: • WRM module; • Poly-4 module; • polygraphic channels of electrode systems ES-EEG-11-3, ES-EEG-11-3 (c), ES-EEG-6-3 (c); • ABP-10 in Poly-10 mode.
18.1.2.1.	**A_7350**	**Small additional belt for respiratory effort sensor** For chest circumference of **40-80cm**.		

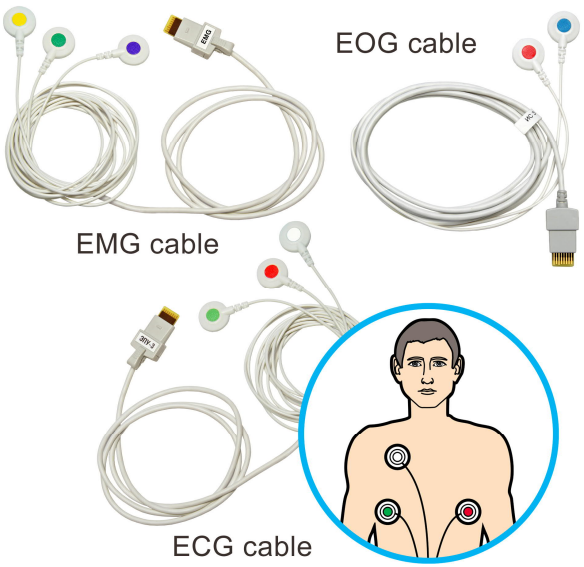
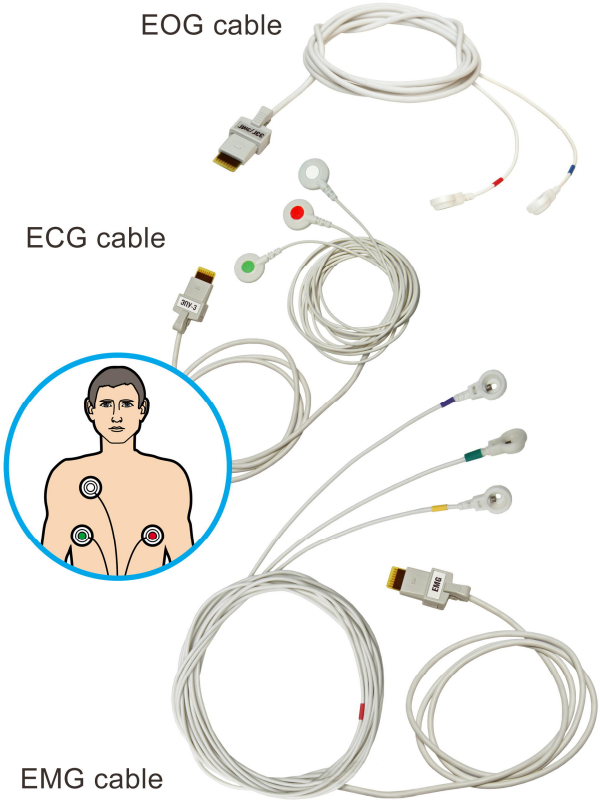
18.1.3.	**A_5365**	**Set of Respiratory Effort Sensors (inductive) and Respiratory Effort Sensor belts (inductive)**		
18.1.3.1.	**A_7869-5**	**Respiratory Effort Sensor (inductive, A)** Abdominal		
18.1.3.2.	**A_7869-6**	**Respiratory Effort Sensor (inductive, T)** Thoracic		
18.1.3.3.	**A_8891**	**Set of Respiratory Effort Sensor belts** Sizes - from **S** to **L**		
18.1.4.	**A_4406**	**Pressure Airflow Sensor** ("P-Flow") For evaluation of parameters of nasal respiration and detection of breathing disorders basing on pressure gradient		Sensor is connected to polygraphic channels with micro-8 connector. Nasal cannulas **are required.**

18.1.5.	**Respiratory airflow sensor cannula**			Type and quantity at customer's option. To connect to a wireless pulse oximeter module put the cannula tube, pre-cut to fit the size, onto the nozzle of pressure airflow sensor or Luer M nozzle.
18.1.5.1.	**A_4007-10**	**Nasal respiratory airflow sensor cannula** (children)		
18.1.5.2.	**A_4007-11**	**Nasal respiratory airflow sensor cannula** (adult)		
18.1.5.3.	**A_7624**	**T-adapter with a tube to connect P-Flow sensor to CPAP mask** *Adapter for CPAP connection* *Manufactured by BRAEBON Medical Corporation, Canada*		At customer's option
18.1.6.	**A_8302**	**ECG Cable** for bipolar derivation with neutral electrode 3 snaps for disposable electrodes. Length – 0.75 m.		**Used for:** • PSG studies with all electrode systems (except for ES-EEG-6-3) and connector EEG-20; • or if it is required to record ECG bipolar derivation in portable variant of ABP-26.

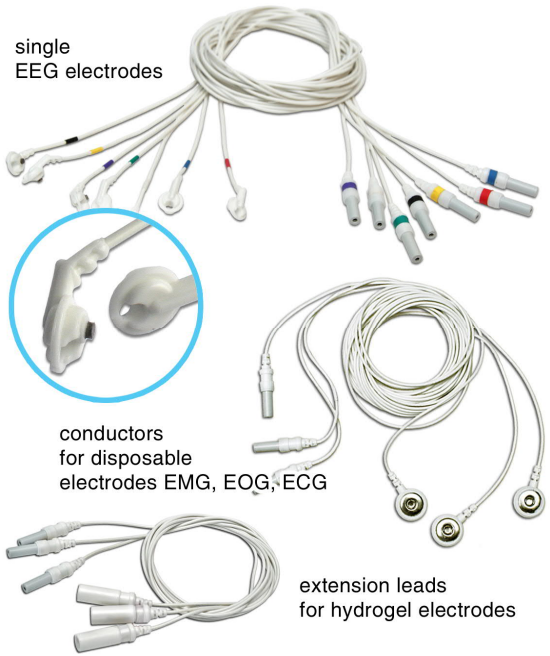
18.2.	**A_4163-2**	**Wireless Pulseoximeter Module** Provides synchronous with EEG recording of patient arterial blood oxygen saturation (SpO2), P-Flow, body position, as well as snoring evaluation in sleep. Used at PSG studies, cerebral function monitoring, neuromonitoring, clinical and scientific research. **Includes:** • rechargeable batteries (type – AA, 2 pcs., including 1 additional); • nozzle (4 mm) Luer M – 3 pcs.; • nozzle (6 mm) Luer M – 3 pcs.		Used for PSG studies, cerebral function monitoring and neuromonitoring. Attached onto the patient's body with a set of fixing belts. **Required:** • SpO_2 sensors; • nasal cannulas at customer's option; • set of fixing belts (A_7652).
18.2.1.	**Fingertip SpO_2 sensor**			Type and quantity at customer's option
18.2.1.1.	**A_4085-05**	**Fingertip SpO_2 sensor** RS-3227 (soft small)		
18.2.1.2.	**A_4085-03**	**Fingertip SpO_2 sensor** RM-3227 (soft medium)		
18.2.1.3.	**A_4085-04**	**Fingertip SpO_2 sensor** R-3227 (soft large)		
18.2.1.4.	**A_4085-06**	**Disposable SpO_2 sensor** Neonatal, for continuous monitoring		
18.2.2.	**A_4820**	**Table support** (fixer) for fixing Wireless Pulseoximeter Module		Recommended **for stationary** use of the module near the patient. Attached with 3M self-adhesive tape.

18.3.	**A_5359-2**	**Poly-4 Wireless Module** Provides synchronous with EEG registration of signals via 4 polygraphic channels at PSG studies, multiparameter (telemetric or autonomous) monitoring in sports medicine (at athlete's natural behaviour), scientific research, etc. **The set includes:** • rechargeable batteries (type – AA, 2 pcs., including 1 additional); • N-electrode cable. Poly-4 module in a **constant potential measurement** mode can provide data input by 4 channels. **Two Poly-4 modules** can be used within one set of electroencephalograph-recorder.		**Required** (depending on application): • set of electrodes, sensors and accessories for Poly-4 module; • PG-ECG connector with pick-up cables; • other sensors from this catalogue. Poly-4 module is attached onto the patient's body with a set of fixing belts (A_7652).
18.3.1.	**A_7511**	**Table support** (fixer) for fixing Poly-4 Wireless Module		Recommended **for stationary** use of the module near the patient.
18.3.2.	**A_4731**	**Simulator** Meant for technical verification of workability of Poly-4 module channels, as well as to check the connection between the Poly-4 module and the base transceiver-recorder ABP-26.		At customer's option
18.3.3.	**A_5346-1**	**Mains Power Supply Adapter** Connected to a mains (220V, 50Hz) or USB port of computer equipment		For stationary use, alternatively to autonomous powering of Poly-4 module from accumulators.

18.4.	**Set of electrodes, sensors and accessories for Poly-4 module** The set can be used with Poly-4 module, polygraphic channels of electrode systems ES-EEG-11-3, ES-EEG-11-3 (c), ES-EEG-6-3 (c), ABP-10 in Poly-10 mode, Poly-6 connector			
18.4.1.	**A_5364**	**Electrodes, Sensors and Accessories Set for Poly-4 wireless module** (movement activity registration) Meant for monitoring the movement activity in natural behavior and also to identify the symptoms of "restless legs" syndrome during PSG studies. **The set includes:** • wired movement sensor (1.85 m length) – 2 pcs.; • cable for 2 EMG derivations (1.85 m length) – 2 pcs.		**Disposable ECG electrodes** (for EMG registration) are required.
18.4.1.1.	**A_5117**	**Wet Sensor** To identify the cases of incontinence during studies.		Additionally to the electrode sets, sensors and accessories of Poly-4 module. Fixed to underwear by sanitary pad (placed into the cut).

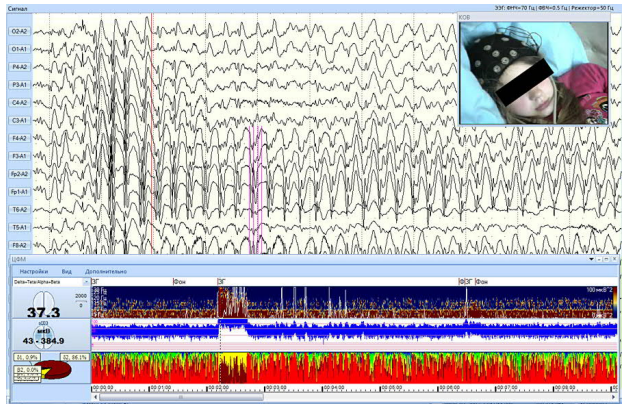
18.4.2.	**A_5364-2**	**Electrodes, Sensors and Accessories Set for Poly-4 Wireless module** at 32-channel EEG/PSG studies Provides additional registration of EOG and full-valid registration of EMG and ECG with disposable snap electrodes. **The set includes:** • cable for bipolar EOG derivation (1.2 m length, 2 snap electrodes) – 2 pcs.; • cable for chin EMG derivation (1.5 m length, 3 snap electrodes) – 1 pcs.; • cable for thoracic ECG derivation (0.8 m length, 3 snap electrodes) – 1 pcs.		**Used with:** • Poly-4 module for additional registration of EOG, EMG and ECG with disposable electrodes at 32-channel EEG/PSG studies using EEG-20 connector for 32 EEG derivations or adapter cable for 32 EEG derivations. **Required:** disposable ECG electrodes for ECG, EMG, EOG registration.
18.4.3.	**A_5364-3**	**Electrodes, Sensors and Accessories Set for Poly-4 Wireless module** at 32-channel EEG/PSG studies with adhesive cup EEG electrodes Provides: • additional registration of EOG and EMG with adhesive cup electrodes; • registration of ECG with disposable snap electrodes. **The set includes:** • cable for bipolar EOG derivation (1.5 m length, 2 adhesive cup electrodes) – 2 pcs.; • cable for chin EMG derivation (1.5 m length, 3 adhesive cup electrodes) – 1 pcs.; • cable for thoracic ECG derivation (0.8 m length, 3 snap electrodes) – 1 pcs.		**Used with:** • Poly-4 module for additional registration of EOG, EMG and ECG with adhesive cup electrodes at 32-channel EEG/PSG studies using EEG-20 connector for 32 EEG derivations or adapter cable for 32 EEG derivations. **Required:** • electrode paste EC2, TEN-20 or similar; • adhesive plaster; • disposable ECG electrodes; • glue-collodion (probe is provided); • glue remover; • compact hair-dryer for quick gel drying (purchased individually at pharmacy or shop, consultations on demand).

18.5.	**A_4768**	**PG-ECG Connector** Used: • for advanced cardiorespiratory monitoring, provides synchronous with the EEG recording of ECG parameters by 3 channels and impedance-based pneumogram via 1 channel for visual analysis of cardiorespiratory disorders in the process of EEG / PSG studies; • at multiparametric (telemetric or autonomous) monitoring in sports medicine (in the free behavior of the athlete), scientific research. For convenient attachment the conductors of the electrodes have different lengths – from 0.75 to 1 m.		PG-ECG connector can be applied with Poly-4 module or ABP-10 in Poly-10 mode. **Required:** • disposable ECG electrodes (takes 7 pcs. a study); • software "Encephalan-CM".
18.6.	**A_4742**	**Wireless GPS Sensor** For tracking **patient's location** and saving the **patient's track** in memory of ABP-26 during the autonomous studying synchronously with recorded data. **Includes** rechargeable batteries (type – AAA, 2 pcs., including 1 additional).		For scientific research in sports and occupational medicine if it is necessary to track movement coordination simultaneously with the registration of physiological parameters.
18.7.	**A_2732-3**	**Wireless Movement Sensor** For registration of data on the movements of the patient's legs at EEG and PSG studies. It provides data registration to identify the symptoms of "restless legs" syndrome. **Includes:** • battery (type – AAA, 2 pcs., including 1 additional); • foot fixing ribbon.		For PSG studies as an option to the standard EMG and movement activity registration from legs muscles. **2 sensors are required.**

18.8.		**EEG-electrodes and accessories for cerebral functions monitoring using software "Encephalan-CFM"**		From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES" Used with connectors EEG-20
18.8.1.	**A_2910-5**	**Set of single EEG electrodes ES-EEG-11/TP** Used for low-channel (up to 5 EEG derivations) cerebral functions monitoring with fixing cover caps with eyelets. **The set includes:** • set of EEG electrodes (length – 1.2 m) – 7 pcs.; • set of Snap Connector Wires for disposable EMG, EOG and ECG electrodes (wires length 1.2 m) – 3 pcs.ж • set of extension leads for hydrogel electrodes – 3 pcs.		**Used for low-channel (up to 5 EEG derivations) EEG studies for cerebral functions monitoring.** Electrodes are attached into fixing cover caps (elastic net) with eyelets. Used with connectors EEG-20. **Required:** • electrode gel; • set of fixing cover-caps at customer's option; • ECG (EOG, EMG) electrodes (hydrogel for babies (A_6753) and common disposable for children and adults (A_2714)).
18.8.2.	**Set of fixing caps** with eyelet holes and covers for them			Type and quantity at customer's option.
18.8.2.1.	**A_7408**	**Set of fixing caps ("Baby")** for neonatology **The set includes:** • caps and covers, sizes **from 34 to 45** – 5 pcs.; • belt for fixing caps to the baby diaper.		
18.8.2.2.	**A_7409**	**Set of fixing caps ("Children")** **The set includes:** • caps and covers, sizes **from 45 to 55** – 5 pcs.; • chest fixing belt.		
18.8.2.3.	**A_7410**	**Set of fixing caps ("Adult")** **The set includes:** • caps and covers, sizes **from 55 to 66** – 5 pcs.; • chest fixing belt.		

18.8.3.	**A_6753**	**Disposable ECG Electrodes** (hydrogel, neonatal) For ECG, EOG, EEG and EMG registration. Wire length – 0.5 m. 3 pcs. in a **pack**.		Used additionally with the set of single EEG electrodes ES-EEG-11/TP (3 pcs. per study) or electrode extension leads set (up to 7 pcs. per study).
18.8.4.	**A_6679**	**Electrode extension leads set** with touchproof connectors For disposable electrodes with short cable (0.5 m) for cerebral functions monitoring. Wire length – 0.7 m. **The set includes** 7 extension leads.		**From "Encephalan-CFM" set** Used with disposable ECG electrodes (conductor length – 0.5 m) and connectors EEG-20.

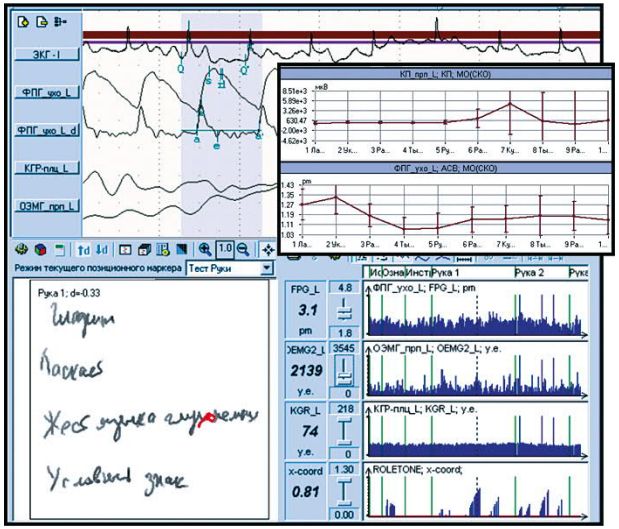
18.8.5.	**A_6434**	**Set of Cup Electrodes** (adhesive type) for EEG registration by 5 derivations Used for cerebral functions monitoring, continuous EEG monitoring, neuromonitoring. Touchproof connectors, color-coded marking, wires length – 1.2 m. **The set includes:** • cup adhesive EEG electrodes for EEG, EMG, EOG and ECG – 10 pcs.; • adhesive plaster Omnifix.		**Required:** • electrode paste EC2, TEN-20 or similar; • fixing bondage elastic (A_6901); • set of net elastic cover caps of required sizes (A_5018-3, A_5019-3, A_5020-3). Attachment with glue-collodion is also possible (not recommended for newborns).

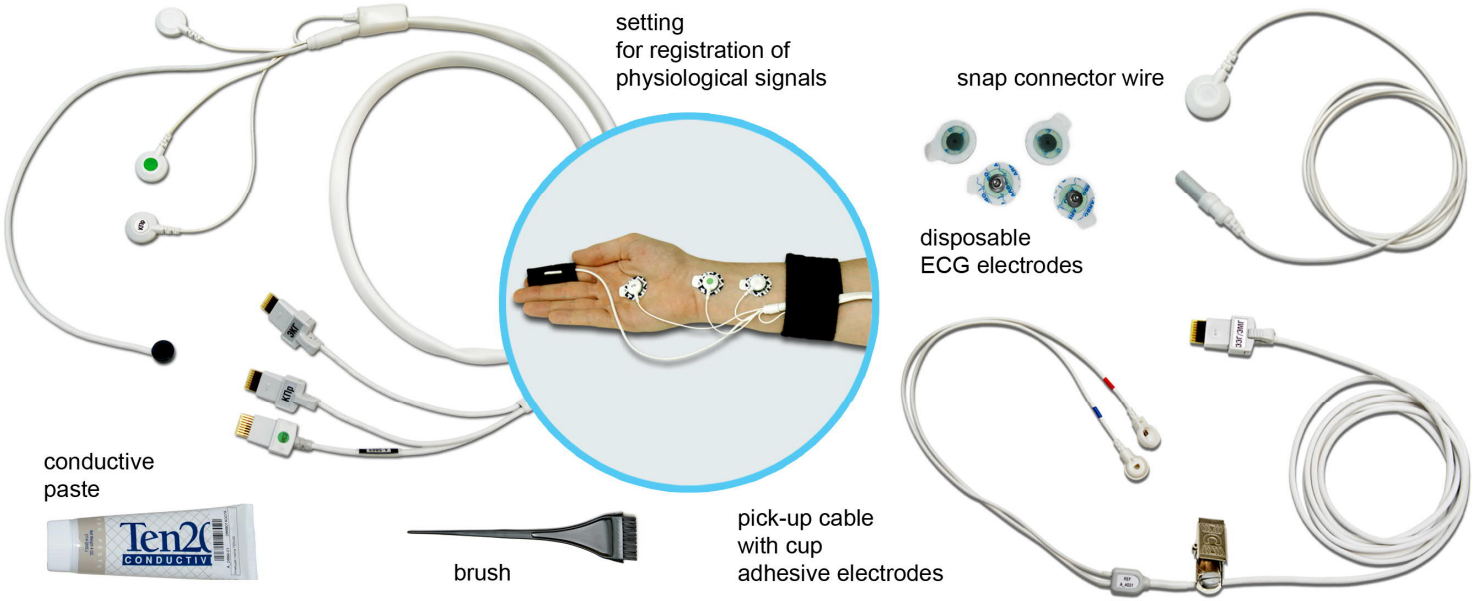
19.	Video equipment kit and Software for epileptologycal studies with videomonitoring "Encephalan-Video"			
19.1.	**The kit is used for continuous synchronized videomonitoring for EEG and PSG studies, CFM monitoring and additional study types.** **The kit includes adapted Software for epileptologycal studies with videomonitoring «Encephalan-video».** Software provides continuous synchronized EEG/PSG and video data recording, analysis and storage. Includes option of short video clip preparation (AVI format) for demonstration of pathological manifestations. Specialized "EEG Viewer" application allows viewing specified EEG fragments and video data on doctor's PC (onto CD/DVD discs or other storage devices) using main functions of visual EEG analysis.			**The manufacturer may replace the video cameras with similar ones with the same characteristics without prior notice.**
19.1.1.	**A_2310-42**	**Mobile Basic Economic kit (day-night)** **The kit includes:** • fixed digital HD video camera, built-in IR backlight and patient's microphone; • power injector for the camcorder with a set of cables; • Software for epileptologycal studies with videomonitoring "Encephalan-Video".		• Sensitivity – 0.07 lx @ F1.2; • day-night mode – a mechanical IR-cut filter; • resolution 1920x1080, 1280x720, 640x360, 352x288; • frame rate – 25 fps; • built-in IR illumination; • powering – 220 V (via injector); • built-in microphone.
19.1.1.1.	**A_2811**	**Portable stand for camera**		At customer's option

19.1.1.2.	**A_8233**	**A clip for camera fixation** Fixed on suitable objects of the surroundings		At customer's option
19.1.1.3.	**A_2310-45**	**Mobile Basic Autonomous kit (day-night):** **The kit includes:** • fixed digital HD video camera, built-in IR backlight and patient's microphone; • video camera network controller; • power injector for the camcorder with a set of cables; • portable stand for camera; • Software for epileptologycal studies with videomonitoring "Encephalan-Video".		• Sensitivity – 0.07 lx @ F1.2; • day-night mode – a mechanical IR-cut filter; • resolution 1920x1080, 1280x720, 640x360, 352x288; • frame rate – 25 fps; • built-in IR illumination; • powering – 220 V (via injector); • built-in microphone.

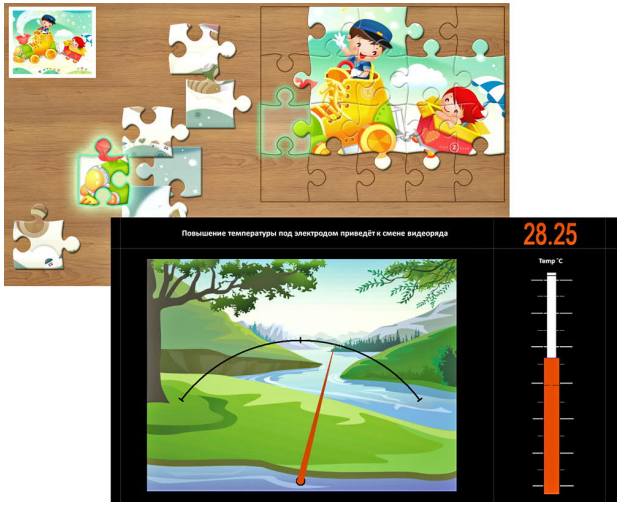
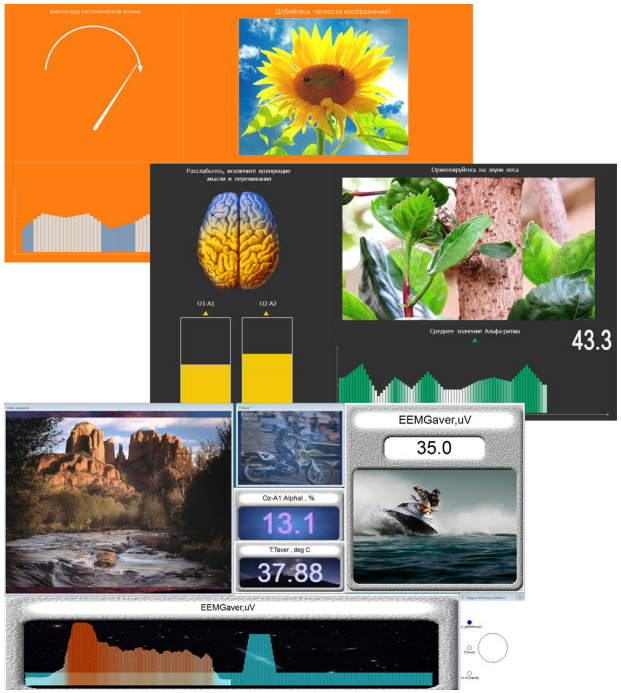
19.1.2.	**A_2310-33**	**Mobile basic advanced kit (day-night)** **The kit includes:** • advanced digital HD video camera with night mode – optical Zoom, rotator, built-in IR backlight for night mode; • video camera network controller; • power injector for the camcorder with a set of cables; • portable stand for camera; • Software for epileptologycal studies with videomonitoring "Encephalan-Video".		• Optical zoom – 10x; • day-night modes – a mechanical IR-cut filter; • sensitivity – coloured: 0.01 lx @ F1.6 (day), b/w 0 lx @ F1.6, 0 lx (IR, night); • resolution 1920x1080, 1280x960, 1280x720, 704x576, 352x288; • frame rate – 25 fps; • built-in IR illumination; • powering – 220 V (via injector); • built-in microphone (integrated in video camera network controller).
19.1.3.	**A_2310-34**	**Stationary basic advanced kit (day-night)** **The kit includes:** • advanced digital HD video cameras with night mode – optical Zoom, rotator, built-in IR backlight for night mode, wall bracket for video camera; • IR lamp for night mode. Provides soft IR light reflected from walls and ceiling, thereby improving the quality of the night video; • video camera network controller; • the patient's microphone (integrated in video camera network controller); • power injector for the camcorder with a set of cables; • Software for epileptologycal studies with videomonitoring "Encephalan-Video".		• Optical zoom – 10x; • day-night modes – a mechanical IR-cut filter; • sensitivity – coloured: 0.01 lx @ F1.6 (day), b/w 0 lx @ F1.6, 0 lx (IR, night); • resolution 1920x1080, 1280x960, 1280x720, 704x576, 352x288; • frame rate – 25 fps; • built-in IR illumination; • powering – 220 V (via injector); • built-in microphone (integrated in video camera network controller); • additional external IR illumination - included in a kit.

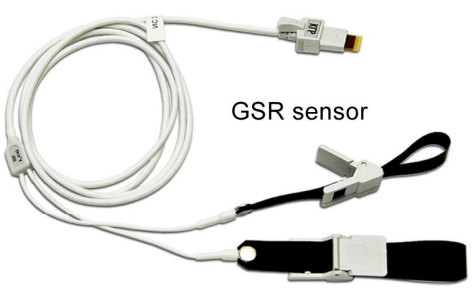
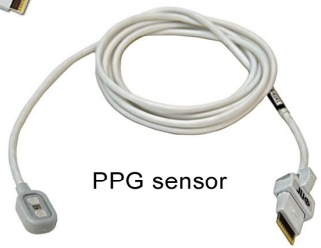
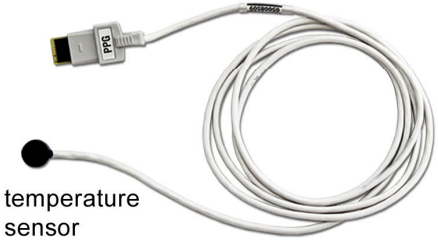
19.1.4.	**A_2310-35**	**Stationary Professional advanced kit** **The kit includes:** • **two** advanced digital HD video cameras with night mode – optical Zoom, rotator, built-in IR backlight for night mode, wall bracket for video camera; • IR lamp for night mode. Provides soft IR light reflected from walls and ceiling, thereby improving the quality of the night video; • video camera network controller; • the patient's microphone (integrated in video camera network controller); • 8-port IP switch with a set of cables; • Software for epileptologycal studies with videomonitoring "Encephalan-Video".		• Optical zoom – 10x; • day-night modes – a mechanical IR-cut filter; • sensitivity – coloured: 0.01 lx @ F1.6 (day), b/w 0 lx @ F1.6, 0 lx (IR, night) ; • resolution 1920x1080, 1280x960, 1280x720, 704x576, 352x288; • frame rate – 25 fps; • built-in IR illumination; • powering – 220 V (via switch); • built-in microphone (integrated in video camera network controller); • additional external IR illumination - included in a kit.
19.2.	**Additional accessories to video equipment kits:**			
19.2.1.	**A_6396**	**IR-lamp for quality video recording in darkness** Provides soft IR light reflected from walls and ceiling, thereby improving the quality of the night video. It can be placed anywhere in the room, without reference to other elements of the EEG-video monitoring kit. It has an independent mains power supply 220.		Included in stationary video equipment kits. It can be included into mobile kits at customer's option.
19.2.2.	**A_8598**	**Event marker (wireless)** For medical staff and patient.		It can't be used with mobile basic economic kit.
19.2.3.	**A_6386**	**Intercommunication system between patient room and doctor's workplace.** **It includes:** • loudspeaker with amplifier (connected to the video camera network controller of stationary kits); • doctor's microphone (connected to Real Time Work Station).		It can be used only with stationary video equipment kits.

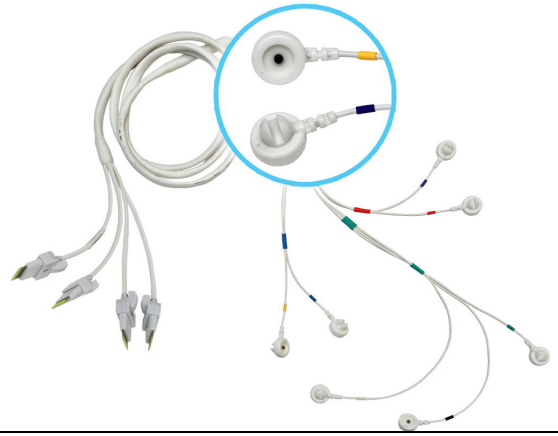
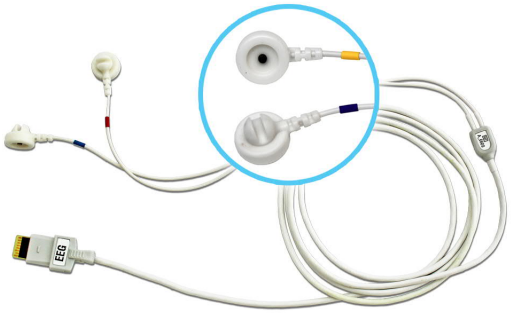
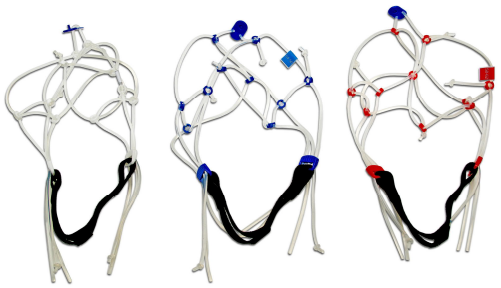
20.	Additional software "Egoscop" for objective psychological analysis and testing; required equipment and accessories			
20.1.	**A_1531-11**	**Software Objective psychological analysis and testing "Egoscop"** *(patented in RF#2319444),* **"maximal" suite** 1. The possibility of independent creation of scenarios for the psychological (tests, projective techniques), psycho-physiological and cognitive tests in different languages on the basis of tools (embedded software and scripts), allowing the use of text and graphics, audio and video files when creating scenarios; 2. Synchronous auto documentation of processes of psychological and psycho-physiological testing and parameters of motor activity of the subject on the touch-screen tablet, which uses electromagnetic resonance technology, and reflects psychomotor and physiological reactions during the test process; 3. The software builds additional profiles of psycho-emotional responses in relation to different semantic clusters of the performed scenario and evaluates individual emotional significance of various semantic categories; 4. The export of native physiological signals and calculated psychophysiological and psychomotor parameters into common formats (text format ASCII, Excel) for the possibility of their mathematical processing with external programs; 5. The library of English samples of scenarios consists of the following ones: – tests to evaluate sensorimotor responses - SVMR, CVMR); – tapping test to assess the strength and lability of nervous processes; – reaction to the moving object to estimate the balance of the nervous system by the degree of balance of excitation and inhibition (Time / Movement Anticipation - TMA); – assessment of the spatial co-ordination on the basis of tests of static and dynamic tremor; – assessment of static and dynamic physical endurance with carpal dynamometer (grip strength dynamometer test); – red and black tables to estimate the focus parameters (Red and black table by Shultz-Platonov); – critical flicker-fusion frequency test; – continuous test to evaluate the dynamic properties of attention (Continuous Performance Test); – Hospital scale of anxiety and depression.		**Required:** • touch graphical input device – a tablet monitor Wacom CINTIQ 13HD, 13,3” or similar; • electrodes, sensors and accessories of the ABP-Egoscop kit; • Poly-6 connector for connecting sensors to the polygraphic channels of ABP-26. The list of tests is available on request, subjected to change as agreed with the customer.

20.1.1.	**A_4627**	**Kit of electrodes, sensors and accessories ABP-Egoscop**	
20.1.1.1.	**A_6543**	**Setting for registration of physiological signals (a set)** includes ECG, PPG, skin conductance (EDA) sensors with micro-8 connectors, and accessories: • pick-up cable with cup adhesive electrodes to register 1 EEG (EMG) derivation; • snap connector wire; • adhesive electrode paste; • disposable ECG electrodes – 50 pcs; • brush for electrode cleaning.  	**Setting is connected to the polygraphic channels of ABP-26:** • via connector Poly-6; • with electrode systems or adapter cables from "Encephalan-ES" set, which have six polygraphic inputs. Connector Poly-6 is required..
20.1.1.2.	**A_6354**	**Pad for tapping test and test from "Egoscop" library** Connected to the polygraphic channel of ABP-26. 	For tapping test

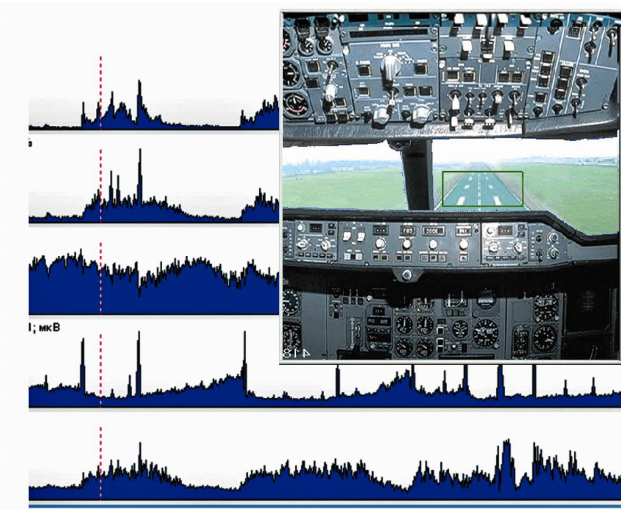
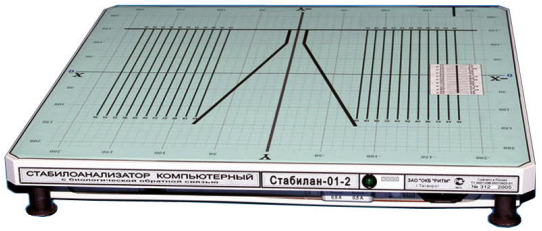
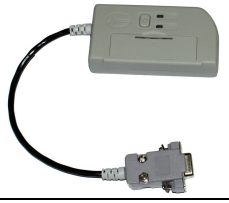
20.1.1.3.	**A_6423**	**Oculomotor tubus for critical flicker-fusion frequency test and test from "Egoscop" library** Connected to the USB port of a computer (Real Time Work Station or Data Analysis and Storage Station).		For critical flicker-fusion frequency test
20.1.1.4.	**A_6008**	**Dynamometer medical electronic manual and test from "Egoscop" library** Used as carpal electronic dynamometer to test power endurance with BFB. Connected to the polygraphic channel of ABP-26.		For power endurance test with BFB
20.1.2.	**A_5743**	**Connector Poly-6** Connected to ABP-26 or connector EEG-20		Provides connection of the setting to the polygraphic channels of ABP-26 for registration of physiological signals and other sensors and electrodes from the ABP-Egoscop kit or ABP-BFB kit for "Rehacor" software.
20.1.3.	**A_4074**	**Special touch screen monitor Wacom CINTIQ 13HD, 13,3”** **A device for accurate touch graphical information input by the patient at the psycho-physiological testing (connected to "Egoscop" system PC).** Connected to the computer (Real Time Work Station or Data Analysis and Storage Station). Graphical input device ensures the input of information by a patient* during testing, as well as accurate registration of: • pen moving (resolution – 0.005 mm or 5080 lines per inch); • pressure on the pen (2048 levels of pen pressure sensitivity); • pen report rate (133 points/sec) **While distance between the pen and the screen is no more than 5 mm*		Graphical input device from the catalog of the company Wacom (www.wacom.ru) at customer's option. **If purchased individually, the device type must be agreed with the manufacturer of electroencephalo-graphs – Medicom MTD Ltd.**

21.	**Additional software "Rehacor" for functional biocontrol with biofeedback; required equipment and accessories**			
21.1.	**A_1010-01**	**"Rehacor" Software for Functional Biocontrol with Biofeedback Training,** "Basic" Suite Software provides procedures of functional biocontrol with biofeedback (BFB training) to train skills of self-regulation and train the state with the control of various physiological parameters. The procedures library and ability to create new procedures for non-medicated restoration of damaged functions, improvement of nerve regulations in different diseases, phobias, pathological addictions, improvement of stress resistance, for control and correction of psychophysiological state in different situations and sicknesses, as well as forming the optimal state for performance for sportsmen, persons with stressful and responsible jobs, to overcome the attention deficit hyperactivity disorder (ADHD) in children and adolescents, etc.		**Required purchasing of electrodes, sensors and accessories from the ABP-BFB kit.** Sensors and accessories from the ABP-BFB kit are connect to the polygraphic channels of a patient transceiver-recorder ABP-26 by using the connector Poly-6, which should be available or purchased. **To work with biofeedback training procedures by circulatory parameters (ICG and impedance plethysmography), purchase additional impedance adapters with sensors.**
21.2.	**A_1010-02**	**"Rehacor" Software for Functional Biocontrol with Biofeedback Training,** "Professional" Suite Extended suite of procedures library, using features of ABP-26 for multichannel EEG and other parameters registration. In addition to "Basic" suite it contains neurofeedback procedures – multiparametric training for brain functional asymmetry, optimization of brain rhythms and zonal differences of alpha-rhythm, very low frequency brain activity, combined training for brain electric activity and cerebral blood flow (REG), as well as multiparametric training for correction of psycho emotional state and psychological tension.		Procedures of EEG-biofeedback training are carried out by means of electrode systems and accessories from the set of EEG electrodes ES-EEG-10/20 "Encephalan-ES", including the electrode system ES-EEG-4K-3A(c). **Should be additionally purchased:** • impedance adapters with sensors to work with biofeedback training procedures by circulatory parameters (ICG and impedance plethysmography); • movement sensor (Move) wired for procedures of movement activity (tremor) regulation.

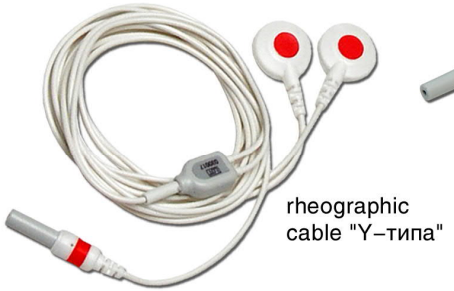
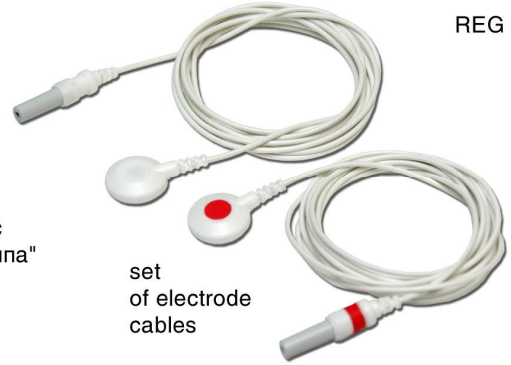
21.2.1.	**A_4626-1**	**ABP-BFB electrodes, sensors and accessories kit** – for "Rehacor" software **Includes:** • GSR sensor (length – 1.2 m); • respiratory effort sensor (length – 1.2 m) – 2 pcs.; • PPG sensor with fixers (length – 1.2 m); • skin conductance sensor (length – 1.2 m); • envelope EMG sensor (length – 1.2 m) – 2 pcs.; • EMG or Skin Conductance cables from disposable electrodes (length – 1.2 m) – 2 pcs.; • EEG bipolar cables with adhesive electrodes (length – 1.5 m) – 2 pcs; • cable for 1 ECG derivation for disposable electrodes (length – 1.5 m); • temperature sensor (length – 1.2 m) – 2 pcs; • adhesive electrode paste; • ECG, EMG disposable electrodes – 50 pcs.; • brush for electrode cleaning; • adhesive plaster Omnifix.  GSR sensor  respiratory effort sensor  skin conductance sensor  EMG or Skin Conductance cables  PPG sensor  envelope EMG sensor  temperature sensor  cable for 1 ECG derivation  cable for EEG bipolar derivations  ECG, EMG disposable electrodes  conductive paste  adhesive plaster  brush	Optional supply of sensors at customer's option from this catalogue. Cable length can be changed on request.

21.2.1.1.	**A_2229**	**Set of ECG electrodes** **The set** includes 3 clips		It can be used in biofeedback training with the use of the ECG, as an alternative to disposable electrodes
21.2.2.	**A_6595-8**	**Electrode system ES-EEG-4K-3A** 4 monopolar EEG derivations with cup electrodes for silicone tube caps for biofeedback procedures (nerofeedback) on brain functional asymmetry, optimization of brain rhythms and zonal differences of alpha-rhythm, very low frequency brain activity from "Professional" procedures library.		**From "Encephalan-ES" set** **Required:** • electrode gel; • set of silicone tube caps for EEG/REG electrodes attachment (A_2804-2).
21.2.3.	**A_5202-1**	**Bipolar EEG Cable** with electrodes for contact gel **Electrodes are fixed with silicone tube caps.** The cable contains 2 recording electrodes, there is no neutral electrode. 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. To register the EEG during biofeedback training (software FBC with biofeedback «Rehacor»). Electrode gel and set of silicone tube caps for EEG/REG electrodes attachment **are required** (A_2804-2).
21.2.4.	**A_2804-2**	**Set of silicone tube caps for EEG/REG electrodes** Silicone tube caps to attach a small amount of EEG electrodes for contact gel and REG derivations for biofeedback procedures. **The set includes** caps of 3 sizes from 48 to 62.		For electrode system ES-EEG-4K-3A or electrodes with a cable for 2 EEG bipolar derivations.

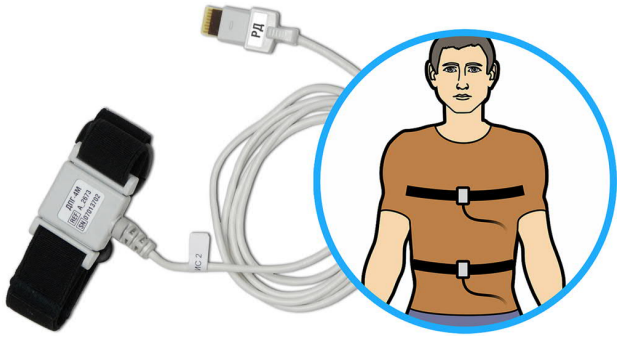
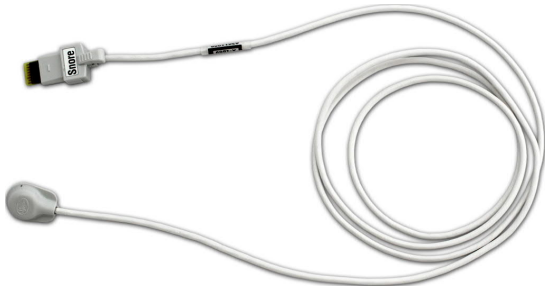
21.2.5.	**A_6595-2**	**Electrode system ES-EEG-4K-3A(c)** with adhesive cup electrodes 4 monopolar EEG derivations with adhesive cup electrodes for biofeedback procedures (nerofeedback) on brain functional asymmetry, optimization of brain rhythms and zonal differences of alpha-rhythm, very low frequency brain activity from "Professional" procedures library. **The set includes** adhesive plaster Omnifix.		**From "Encephalan-ES" set** For EEG registration in BFB training ("Rehacor" Software for Functional Biocontrol with Biofeedback Training). **Required** electrode paste EC2, TEN-20 or similar. Protective cover caps (A_5018-3, A_5019-3, A_5020-3) of required sizes are **recommended**. Glue-collodion for additional fixation, glue remover and compact hair-dryer for quick gel drying (purchased individually at pharmacy or shop, consultations on demand).
21.2.6.	**A_4008-99**	**Wireless Electrostimulator** **The set includes:** • biofeedback procedure of stress resistance training; • battery (type – AAA, 4 pcs., including 2 additional).		Procedure of stress resistance training additional to the "basic" or "professional" library.

21.2.7.	**A_1010-1**	**Procedure of Combined Operator's Activity (adaptive model)** Software provides the combination of biofeedback training and following the moving objects on screen with logical tasks solving. Parameters of activity model are adaptively changing according to the efficiency of procedure performing, which allows evaluating the functional capabilities of a test person.		Additional to the "basic" or "professional" library. Can be performed with a mouse. **Joystick is recommended to be purchased.**
21.2.7.1.	**A_5590**	**Joystick**		It is used in biofeedback training procedure at the combined operator's activity.
21.2.8.	**A_6473**	**Stabiloanalyzer** For additional diagnostics and BFB procedures for stabilogram.		**Purchasing** the wireless adapter for wobble platform **is required.**
21.2.8.1.	**A_4813**	**Wireless adapter for wobble platform** Provides the connection of stabiloanalyzer and data transmission to software for EEG studies "Encephalan-EEGR" and "Rehacor" software for functional biocontrol with biofeedback training.		

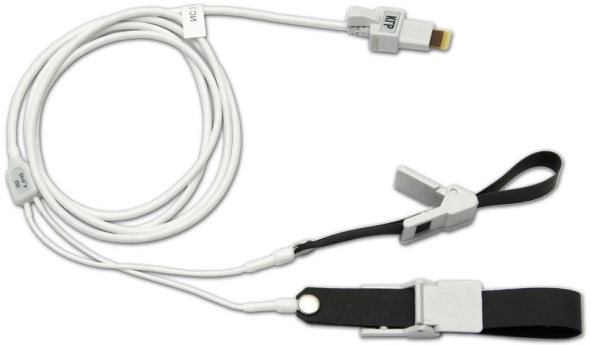
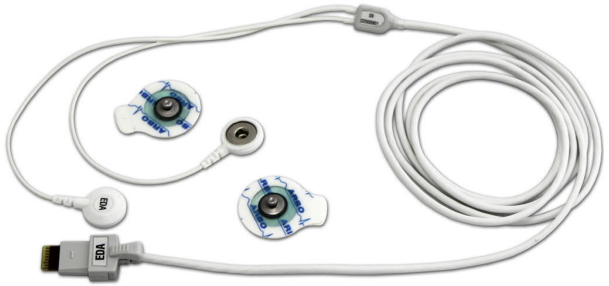
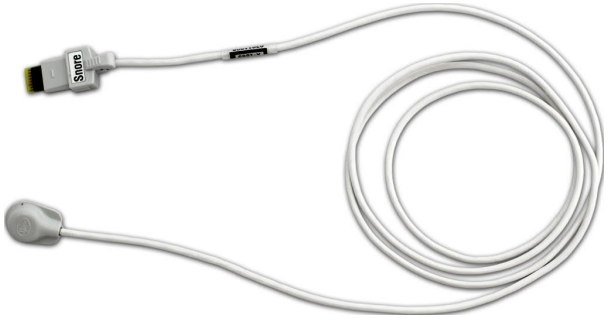
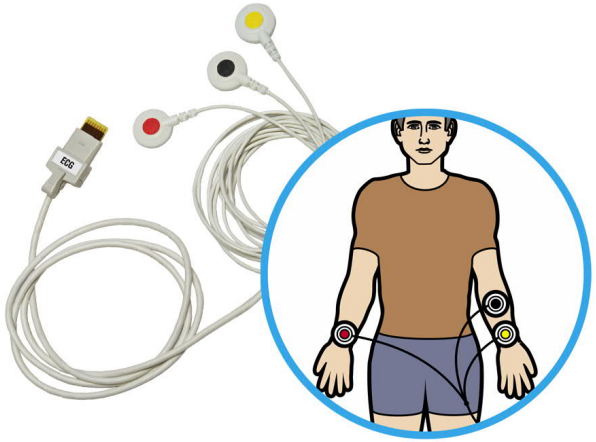
21.2.9.	**A_8133**	**Wireless Movement Sensor (for movement activity)** **The set includes:** • movement sensor (Move); • wobble platform; • procedure of BFB training for maintaining vertical posture on the platform.		Biofeedback training on sustainability for maintaining vertical posture on the wobble platform. Works with the "basic" or "professional" library of "Rehacor" software.
21.2.10.	**A_6354-2**	**Pad for tapping test and procedures of biofeedback training "Rhythmo-BFB" additionally to procedure libraries of "Basic" and "Professional" Suites** **The set includes:** • pad for tapping test with a stylus; • procedures of biofeedback training "Rhythmo-BFB". Evaluation and training of the ability to perceive and reproduce sound patterns of varying complexity. Developing a sense of rhythm and time. Increasing the success of cognitive activity and rehabilitation of various brain dysfunctions. **For children:** improvement of attention, motor control and coordination, speech development, improvement of auditory perception, reducing behavior problems (impulsivity, aggressiveness, hyperactivity, emotional contact difficulties). **For adults:** cognitive and motor rehabilitation after traumatic brain injuries, stroke, Parkinson's disease, spinal cord injuries, etc.		Additional to procedure libraries of "Basic" and "Professional" Suites of "Rehacor" Software for Functional Biocontrol with Biofeedback Training

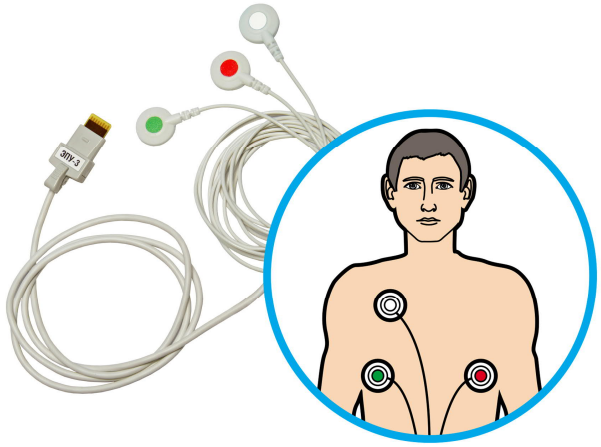
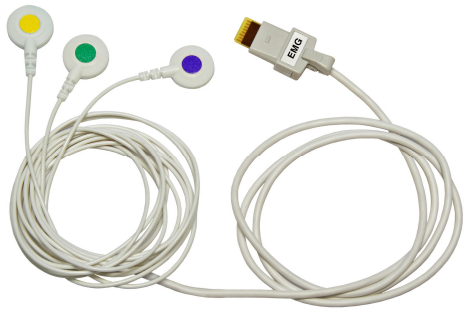
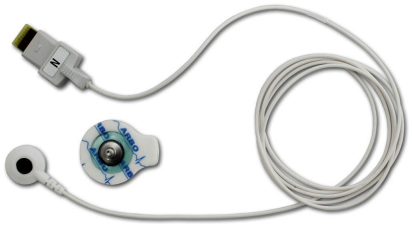
22.		**Adapters, electrodes and sensors with "Micro-8" connector for polygraphic channels of electroencephalograph-recorder and its modules**		
22.1.	**A_4771**	**Bipolar ICG Adapter (RB) for brain impedance plethysmography, rheovasography (RVG) and integral rheogram by Tischenko** For evaluation of cerebral (brain impedance plethysmography) and peripheral (RVG) blood circulation, which characterizes pulse blood filling, variable diameter vessels tone and venous drainage state, as well as for evaluation of central hemodynamics parameters and heart's pumping ability by Tischenko integral rheogram (stroke/minute volume, stroke and cardiac index, etc). Connected to polygraphic channels of ABP-10 or Poly-4. Cable length – 0.4 m.		For system analysis of hemodynamics with the software "Encephalan-MPA" and functional biocontrol with biofeedback "Rehacor". Set of electrodes and accessories for RB adapter **is required to be purchased.**
22.1.1.	**A_5339**	**Accessories and Electrodes Set for ICG Adapter RB.** Allows recording brain impedance plethysmography, RVG and ICG by Tischenko using RB. **Includes:** • rheographic cable "Y-type" (length – 1.5 m) – 2 pcs.; • set of electrode cables (length – 1.5 m) – 2 pcs.; • REG Electrode with a snap connector – 2 pcs.; • ribbon electrode (length – 0.4 m) – 4 pcs.; • REG electrodes fixing ribbon.  rheographic cable "Y–типа"  set of electrode cables REG Electrodes  ribbon electrodes 	Electrode gel **is required to be purchased.**

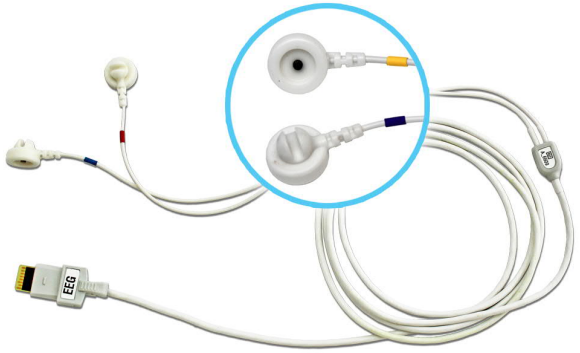
22.2.	**A_4772**	**Tetrapolar ICG Adapter (RT) for ICG by Shramek** For evaluation of central hemodynamics and heart's pumping ability parameters by Shramek. If used with RB, simultaneously evaluates brain impedance plethysmography and CHD. Connected to polygraphic channels of ABP-10 or Poly-4. Cable length – 0.4 m.		For system analysis of hemodynamics with the software "Encephalan-MPA" and functional biocontrol with biofeedback "Rehacor". Accessories for RT adapter **are required to be purchased.**
22.2.1.	**A_5338**	**Accessories for ICG Adapter RT** Records ICG by Shramek. **Includes:** • rheographic cable "Y-type" (length – 1.5 m) – 4 pcs.; • Electrode Jumper Cable PTR-10 to register REG and carry out studies by integral rheograhy by Tischenko.		Disposable ECG electrodes **are required to be purchased.**
22.3.	**A_4406**	**Pressure Airflow Sensor** ("P-Flow") For evaluation of parameters of nasal respiration and detection of breathing disorders basing on pressure gradient. Cable length to polygraphic channels of ABP-10 or Poly-4 – 0.3 m.		Used to control pressure airflow. Sensor is connected to polygraphic channel with micro-8 connector. **Nasal cannulas are required.**

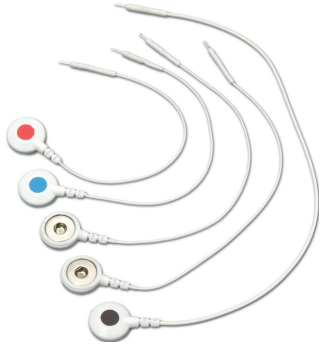
22.4.	**A_2673-5**	**Respiratory Effort Sensor** ("RespEff") For evaluation of parameters of abdominal and thoracic respiration (breathing rate and amplitude, duration of in- and exhalation phases). Cable length – 1.2 m. **The set includes** belts for children and adults.		Thoracic and abdominal breathing registration requires 2 respiratory effort sensors.
22.4.1.	**A_7350**	**Small additional belt for respiratory effort sensor.** For chest circumference of **40-80cm**.		
22.5.	**A_2326-3**	**Oro-Nasal Airflow Sensor** (Thermistor "T-Flow") For evaluation of parameters of oro-nasal respiration (breathing rate and amplitude, duration of in- and exhalation phases) and detection of breathing disorders. Can be used with respiratory airflow sensor cannula. Cable length – 1.25 m.		Additional sensors at customers' option for various applications, as well as for multiparameter registration in sports medicine, psychophysiology, clinical and scientific research.
22.6.	**A_1869**	**Snore Sensor** ("Snore") For detection and quantitative evaluation of snoring during sleep. Cable length – 1.2 m.		

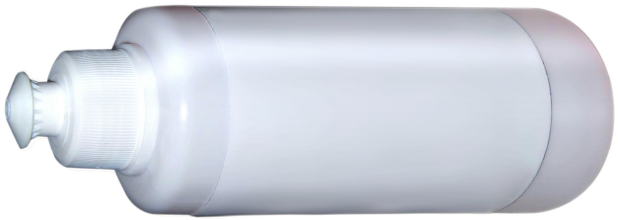
22.7.	**A_4141-3**	**Photoplethysmogram (PPG) Sensor** For evaluation of parameters of peripheral blood circulation which characterize pulse blood filling and tone of variable diameter vessels. Cable length – 1.2 m. **The set includes:** • finger cuff; • sensor fixer "ear clip".		Additional sensors at customers' option for various applications, as well as for multiparameter registration in sports medicine, psychophysiology, clinical and scientific research.
22.8.	**A_4139-1**	**Temperature Sensor** For evaluation of skin surface temperature in selected body area. Cable length – 1.2 m.		
22.9.	**A_4142**	**Envelope EMG Sensor (double)** For evaluation of tone of selected muscle basing on envelope EMG measurement. Cable length – 1.2 m.		
22.10.	**A_5731**	**Envelope EMG sensor (triple)** For evaluation of tone of selected muscle basing on envelope EMG measurement. Cable length – 1.2 m.		

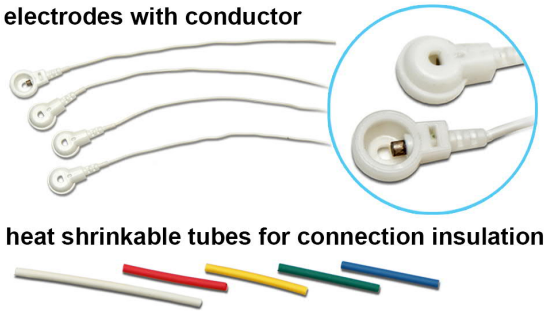
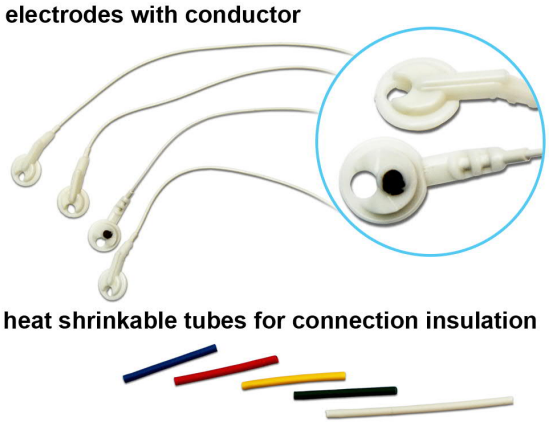
22.11.	**A_4143**	**GSR Sensor** ("GSR") For evaluation of vegetative manifestations and emotional stress basing on the measurement of GSR phase component. Cable length – 1.2 m.		Additional sensors at customers' option for various applications, as well as for multiparameter registration in sports medicine, psychophysiology, clinical and scientific research.
22.12.	**A_5119-1**	**Skin Conductance Sensor** (EDA-ElectroDermal Activity) For evaluation of vegetative manifestations and emotional stress basing on the measurement of phase and tonic components of skin conductance. Cable length – 1.2 m.		
22.13.	**Movement sensor (Move) wired**			
22.13.1.	**A_5361**	**Movement sensor (Move) wired** 1.2 m long		
22.13.2.	**A_5361-1**	**Movement sensor (Move) wired** 2 m long		
22.14.	**A_4740-1**	**ECG Cable** for bipolar derivation with neutral electrode 3 snaps for disposable electrodes. Cable length – 1.5 m.		**Used for:** • BFB training (software "Rehacor"); • heart variability analysis (software "HRV"); • record under stationary conditions.

22.15.	**A_8302-1**	**ECG Cable** for bipolar derivation with neutral electrode 3 snaps for disposable electrodes. Cable length – 0.75 m.		**Used for:** • PSG studies with all electrode systems (except for ES-EEG-6-3) and connector EEG-20; • or if it is required to record ECG bipolar derivation in portable variant of ABP-26.
22.16.	**A_3294**	**3-electrode cable EMG/EDA** 3 snaps for disposable electrodes. Cable length – 1.85 m.		To register surface EMG/EDA.
22.17.	**A_3817**	**Cable for Disposable N Electrode** Cable length – 1.2 m.		To connect to ABP-10, in the variant of Poly-10 use. Used if there is no N electrode when registering signals with 2-electrode EMG, EOG, EEG, GSR, EDA cables.
22.18.	**Bipolar Cable for EMG/SP Channels** The cable contains 2 recording snap electrodes, there is no neutral electrode. Can be applied for EOG registration. For disposable electrodes.			Used with N-electrode attached onto the patient and connected to the same registration unit to which these cables can be connected to.
22.18.1.	**A_4194-3**	**Bipolar Cable** 1.45 m long		
22.18.2.	**A_4194-4**	**Bipolar Cable** 1.85 m long		

22.19.	**A_4031-1**	**Bipolar EEG Cable** **Cup, adhesive electrodes.** Length – 1.5 m. The cable contains 2 recording electrodes, there is no neutral electrode.		Used with N-electrode attached onto the patient and connected to the same registration unit to which these cables can be connected to. To register the EEG during biofeedback training (software FBC with biofeedback «Rehacor»). **Required:** • electrode paste EC2, TEN-20 or similar; • adhesive plaster (A_1302); • glue-collodion (probe is provided); • glue remover**;** • compact hair-dryer for quick gel drying (purchased individually at pharmacy or shop).
22.20.	**A_5202-2**	**Bipolar EEG Cable** with electrodes for contact gel **Electrodes are fixed with silicone tube caps.** The cable contains 2 recording electrodes, there is no neutral electrode. 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. To register the EEG during biofeedback training (software FBC with biofeedback «Rehacor»). Electrode gel and set of silicone tube caps for EEG/REG electrodes attachment **are required** (A_2804-2).

22.21.	**A_4817-2**	**Set of conductors (with a snap and touchproof connector) for disposable electrodes** Quantity – 7 pcs. Length – 0.75 m.		
22.22.	**A_8750**	**Set of cup electrodes (adhesive cup with touchproof connector)** Quantity – 5 pcs. Length – 1.2 m		
22.23.	**Set of additional cables** To connect disposable ECG, EMG, EOG electrodes to electrode system for contact gel (with elastic caps) or systems with adhesive cup electrodes. The set includes 5 cables.			Type at customer's option. The sets are applied for all types of electrode systems except ES-EEG-6-3 and ES-EEG-6-3(c). Sets (7 cables) for ES-EEG-6-3 or ES-EEG-6-3(c) – on demand.
22.23.1.	**A_5000-1**	**Set of additional cables** "baby"		
22.23.2.	**A_5001-1**	**Set of additional cables** "children"		
22.23.3.	**A_5002-1**	**Set of additional cables** "adult"		
22.24.	**Set of reusable electrodes** To connect disposable ECG, EMG, EOG electrodes to electrode system for contact gel (with elastic caps) or systems with adhesive cup electrodes. The set includes 5 cables.			
22.24.1.	**A_4099-2**	**"Baby" set**		
22.24.2.	**A_4099-1**	**"Children" set**		
22.24.3.	**A_4099**	**"Adult" set**		

23.		Gels, disposable electrodes and accessories		
23.1.	A_2669	**Ten20 Conductive Paste** For adhesive cup electrodes (114 g).		
23.2.	A_6532	**Electrode Cream EC-2** or similar For adhesive cup electrodes (100 g).		
23.3.	**Electrode gel** • for cup EEG electrodes for contact electrode gel; • for EEG electrodes from removable electrode systems with fixing EEG electrodes in eyelets.			
23.3.1.	A_1854	**Electrode gel** 250 ml bottle		
23.3.2.	A_1854-1	**Electrode gel** 1 L bottle		
23.4.	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 at PSG studies or neuromonitoring
23.5.	A_6901	**Fixing bondage elastic Peha-haft, self-fixing**		It is recommended to fix the wires and sensors on the legs and arms at continuous studies, as well as to fix the adhesive electrodes in neonatology at the CFM study.

23.6.	**A_2714**	**Disposable snap ECG Electrode** (for EOG, EMG) 50 pcs. in 1 pack		
23.7.	**Repair set of electrodes and materials**			
23.7.1.	**A_1390-6**	**Repair set of electrodes and materials** for electrode systems with adhesive electrodes **Set includes:** • **4 electrodes with conductors;** • heat shrinkable tubes for connection insulation – 5 pcs.		Designed to replace the failed electrode from the electrode system. When ordering repair sets for previously purchased electrode systems, it is necessary to clarify the conductor thickness of the electrode system purchased by a user.
23.7.2.	**A_1390-5**	**Repair set of electrodes and materials** for electrode systems with fixing caps **Set includes:** • **4 electrodes with conductors;** • heat shrinkable tubes for connection insulation – 5 pcs.		

24.	Required computing hardware and office equipment			
24.1.	**Real Time Work Station** Software of electroencephalograph-recorder is installed on the computer in accordance with selected sales package.			**Configuration and characteristics are approximate and should be specified when order.** **Minimal requirements:** • Intel Core i5; • RAM 4GB; • HDD 500GB; • monitor 15"; • OS Windows 10. If the customer requires and is able to purchase the improved characteristics, inform the manufacturer about it: advanced characteristics should be approved by the manufacturer.
24.1.1.	**A_2380**	**Real Time Work Station** (Portable Computer). **One** additional monitor is connected.		
24.1.2.	**A_2380-1**	**Real Time Work Station** (Portable Computer). **Two** additional monitors are connected.		
24.1.3.	**A_4305**	**Real Time Work Station** (Stationary Computer). **One or two** additional monitors are connected.		

24.2.	**Data Analysis and Storage Station** Software of electroencephalograph-recorder is installed on the computer in accordance with selected sales package.		
24.2.1.	**A_4309**	**Data Analysis and Storage Station** (Portable Computer). **One** additional monitor is connected.	
24.2.2.	**A_4309-1**	**Data Analysis and Storage Station** (Portable Computer). **Two** additional monitors are connected.	
24.2.3.	**A_4308**	**Data Analysis and Storage Station** (Stationary Computer). **One or two** additional monitors are connected.	
24.3.	**Additional accessories and software for Real Time Work Station and Data Analysis and Storage Station**		
24.3.1.	**A_6843**	**Mobile HDD 1000 GB**	
24.3.2.	**A_4300**	**Computer Acoustic System** (2.1, 3.1 or quality closed type headphones – at customer's option) **Required if FBC with biofeedback "Rehacor" software is present in sales package**	
24.3.3.	**A_5109**	**Antivirus application "Kaspersky Internet Security".** Recommended to protect PC from viruses	
24.3.4.	**A_4319**	**MS Office ENG. Recommended to be installed at PC.** Required package contains Word and Excel	
24.3.5.	**A_2604**	**Bag for laptop transportation**	
24.3.6.	**A_4299**	**Uninterruptible power supply**	

Configuration and characteristics are approximate and should be specified when order.

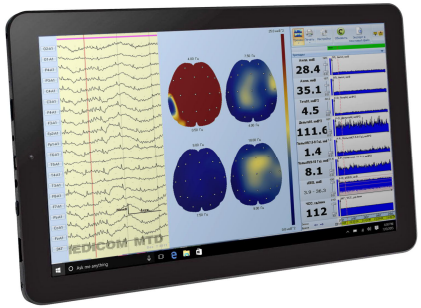
SW-key (USB) is required.

Minimal requirements:

- Intel Core i5;
- RAM 4GB;
- HDD 500GB;
- monitor 15";
- OS Windows 10.

If the customer requires and is able to purchase the improved characteristics, inform the manufacturer about it: advanced characteristics should be approved by the manufacturer.

24.4.	**A_0687**	**Additional LCD monitor (minimal diagonal 23”)** resolution 1920x1080, aspect ratio16x9.		The monitor can be used with any of the computers (real-time work stations and data analysis and storage stations). **Monitor is required if the following software is present in sales package:** • FBC with biofeedback "Rehacor"; • "Encephalan-AVS"; • "Encephalan-EP".
24.5.	**A_5563**	**2D/3D video projector**		
24.6.	**A_5564**	**2D/3D goggles-monitor (a cap)** (Oculus Rift type)		

24.7.	**A_5565**	**Digital widescreen TV-set**		At Customer's option if the following software is present in sales package: FBC with biofeedback "Rehacor".
24.8.	**A_3750**	**Electronic tablet**		OS Windows 10. Required for operational control of data record at free state of a test person.
24.9.	**A_4087**	**Printer** **Laser Black-And-White A4 format**		Another printer type supply – by agreement.

24.10.	**A_4088**	**Equipment Trolley**		Equipment Trolley is adapted according to the computer and office equipment from the sales package
24.11.	**A_4088-4**	**Equipment Trolley** with a drawer