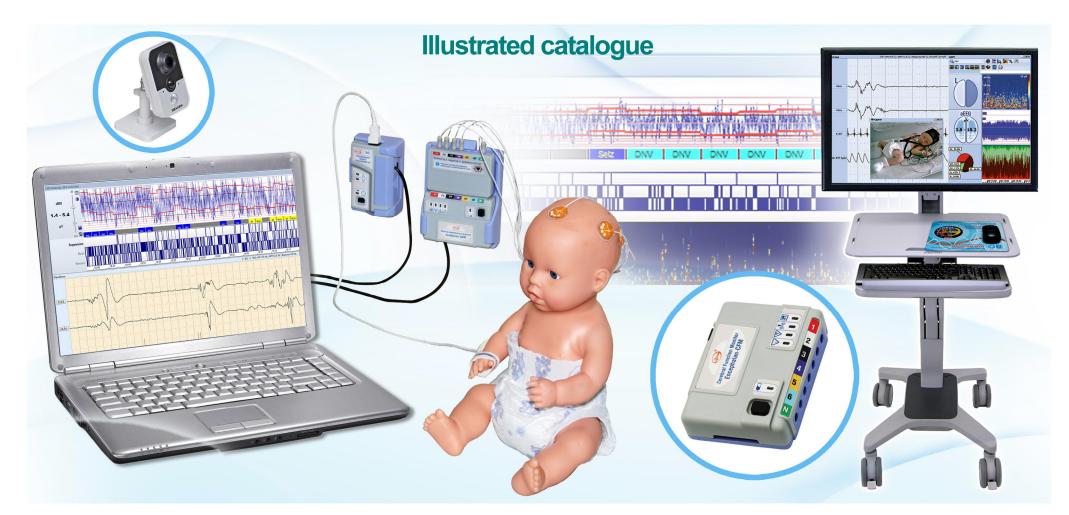
Cerebral function monitor "Encephalan-CFM"





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Cerebral function monitor "Encephalan-CFM" for use in neonatology.

• For portable version, the required equipment and laptop are fitted into one carrying bag.

• For mobile version, a computer, a monitor for displaying information, and a printer for documenting the monitoring results, as well as a video equipment kit for synchronized video monitoring, and stored components (autonomous patient transceiver-recorder, additional devices, sensors, gel, accessories) are all placed on a comfortable trolley.

Application modes of CFM monitor:

• autonomous-telemetric (data backup onto the memory card of the patient transceiver-recorder during telemetric registration).

There is an option of making up a sales package for data record from several patients (up to 4), who are in the same intensive care unit (ICU) with a single workstation located on the trolley, which also contains a large monitor that provides simultaneous display of the monitoring data.

Enhanced functionality and application of cerebral function monitor in clinical practice or for scientific research are provided by a basic autonomous transceiver-recorder ABP-5, additional wireless units, modules, sensors and accessories, along with methodical software (SW) from cerebral function monitor "Encephalan-CFM" set.

Software from the CFM monitor set

Software name	page	Medical purpose (briefly)
"Encephalan-NM" for neuromonitoring	11	Calculation and visualization of trends of the CNS and VNS physiological parameters and SpO ₂ in the same time scale for the continuous dynamic monitoring and state assessment.
"Encephalan-VLFA" software for analysis of very low frequency activity* (patented in RF #2252692)	11	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).
Video equipment kit and software EEG-videomonitoring "Encephalan-Video"	12	Completely synchronized recording of EEG and video data in daytime or at night, its analysis and archiving for the differential diagnosis of epilepsy.

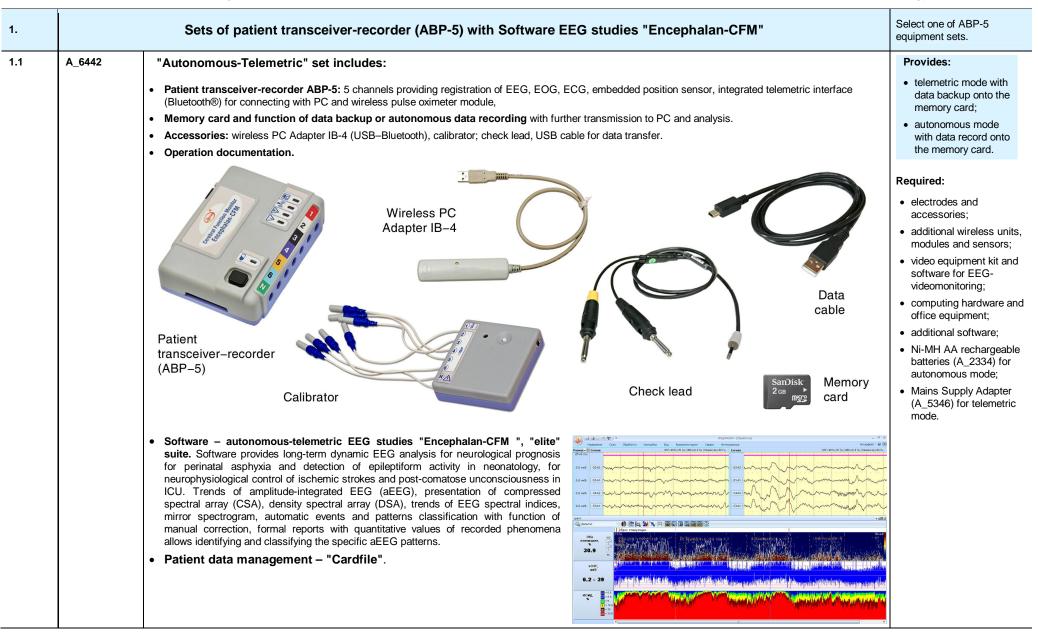
item	Contents of the illustrated* catalogue	page
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2	Additional accessories of cerebral function monitor	4
3	EEG-electrodes and accessories for cerebral functions monitoring using software "Encephalan-CFM"	6
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5	Software that extends the functionality of cerebral function monitor	
	(additional equipment and accessories are not required)	11
6	Video equipment kit and Software for epileptologycal studies with videomonitoring "Encephalan-Video"	12
7	Gels, disposable electrodes and accessories	14
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* The external appearance of the products is given as an example and may have some differences that do not affect functionality when delivered.

Item #	Ref. no.
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Cerebral function monitor "Encephalan-CFM"

To form a sales package, select from this table a set of ABP-5, accessories, electrodes, sensors, additional modules and software for use in neonatology



2.		Additional accessories of cere	ebral function monitor	
2.1.	A_2143	 Memory Card additional (spare) for patient transceiver-recorder ABP-5 ("Autonomous-Telemetric" set) Type – microSD; class – 4 or higher; recommended manufacturer – SanDisk; 	Santisk mesk	For autonomous recording of all registered data onto ABP-5 for more than 48 hours.
		capacity – up to 32 GB.		
2.2.	A_5346-1	 Mains Supply Adapter for powering from the mains (220V, 50Hz) or USB port. Connected to a mains (220V, 50Hz) or USB port of computer equipment Include: Mains Supply Adapter (A_7129) USB Power Supply Adapter (A_5360) 		For stationary use, alternatively to autonomous powering of patient transceiver-recorder ABP-5 or wireless pulse oximeter module from a rechargeabl batteries.
2.3.	A_2334	Ni-MH AA rechargeable batteries , low self-discharge (LSD), minimal capacity 2450 mAh, for example Panasonic Eneloop Pro.		Attention! When used in unattended mode, CFM monitor should be supplied with a charger
2.4.	A_2894	Charger BC-700 Charges 4 rechargeable batteries with control of the charge level and with function of accumulator restoration.		and rechargeable batteries for a patient transceiver-recorder ABP-5 (1 pcs.), stimulator (2 pcs.) wireless pulse oximeter module (1 pcs.) and Poly-4 module (1 pcs.). It is advisable to purchase a double set.
2.5.	A_2329	SW-key (USB)	SW-key [EEF] A.2329 [Stt] 03013001 Medicom MTD Ltd	Allows working with purchased software at any additional client's PC, including network variant with the main workstation o the monitor.

2.6.	A_7478	Atlas of amplitude-integrated EEG in the newborns	Cognitive Maderial THE ENCYCLOPEDIA OF VISUAL MEDICINE SERIES	The text of the Atlas in English
			An Atlas of	0
			AMPLITUDE-INTEGRATED	
			EEGS in the NEWBORN	
			Second Edition	
			Image: Control of the second secon	
2.7.	A_5451	Defibrillation Proof Connector		Protects the equipment
		for connection up to 7 electrodes with touchproof connectors (including depth, adhesive cup		and the patient from the possible effects of electronic
		or cortical EEG electrodes) to ABP-5.	Standing Transformers Alto Standing Transformers	current at CPR.
2.8.	Table sup	port (for fixing patient transceiver-recorder)		
2.8.1.	A_5362-2	Table support (for fixing patient transceiver-recorder)		At customer's option
		Patient transceiver-recorder ABP-5 with defibrillation proof connector.	8° 000 10	Attached with 3M self- adhesive tape for fixing
		The set includes 3M self-adhesive tape.		the horizontal and verti surfaces.

2.8.2. A_5362-1	Table support (for fixing patient transceiver-recorder)		At customer's option.
	Patient transceiver-recorder ABP-5 (for ABP-5 only).		Attached with 3M self- adhesive tape for fixing on the horizontal and vertical surfaces.
	EEG-electrodes and accessories for cerebral fu using software "Encephalan-CF		From EEG Electrode Set ES-EEG-10/20 "Encephalan-ES"
.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.; set of extension leads for hydrogel electrodes – 3 pcs. 	single EEG electrodes conductors for disposable electrodes EMG, EOG, ECG electrodes EMG, EOG, ECG extension leads for hydrogel electrodes	Used for low-channel (up to 5 EEG derivations) EEG studies for cerebrai functions monitoring. Electrodes are attached int fixing cover caps (elastic net) with eyelets. 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)).

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3.2. A_7	7408	 Set of fixing caps ("Baby") for neonatology The set includes: caps and covers, sizes from 34 to 45 – 5 pcs. (sizes 28 and 31– optionally); belt for fixing caps to the baby diaper. 	Type and quantity at customer's option.
3.3. A_6	6753	Disposable Electrode (with a cable) (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).

3.4.	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" monitor set Used with disposable ECG electrodes (conductor length – 0.5 m).
3.5.	A_6434	Set of Cup Electrodes (adhesive type) for EEG registration by 5 derivations Used for cerebral functions monitoring, continuous EEG monitoring, neuromonitoring. Touchproof connector; 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.	Image: constraint of the sector designs of the sector des	Required: • electrode paste EC2, TEN-20 or similar; • disposable ECG electrodes; • 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).

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3.6.	A_5018-3	Set of protective elastic fixing cover caps, "baby" for adhesive cup electrodes Sizes from 34 to 45 – 5 pcs. (sizes 28 and 31– optionally); The set includes chest belt fixing to a baby diaper.	protective cap x-type fixer	cover caps	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.
4.		Wireless Pulseoximeter Mod	ule with accessories		
4.1.	A_4163-3	Wireless Pulseoximeter Module Provides synchronous with EEG recording of patient arterial blood oxygen saturation (SpO ₂). The set includes rechargeable batteries (type – AA, 2 pcs., including 1 additional).			Additional software (A_0803-1) should be purchased to use Wireless Pulseoximeter Module. Attached with a fixer. SpO ₂ (Envitec-Wismar GmbH) sensors set is required.
4.1.1.	A_5346-1	Mains Supply Adapter for powering from the mains (220V, 50Hz) or USB port. Connected to a mains (220V, 50Hz) or USB port of computer equipment Include: • Mains Supply Adapter (A_7129) • USB Power Supply Adapter (A_5360)			For stationary use, alternatively to autonomous powering of wireless pulse oximeter module from a rechargeable batteries.

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4.1.2.	A_4085-05	SpO ₂ sensor SoftTip small RS-3227	
4.1.3.	A_4085-07	SpO ₂ sensor MultiSite Y-3227	
4.1.4.	A_4820	Table support (fixer) The set includes 3M self-adhesive tape.	Recommended for stationary use of the module near the patient. Attached with 3M self-adhesive tape for fixing on the horizontal and vertical surfaces.

5.	Software that extends the functionality of cerebral function monitor					
5.1.	A_0803-1	"Encephalan-NM" Software for Neuromonitoring Software provides calculation and visualization of trends (duration of the time quantum of averaged parameters can be set in the range from 10 to 300 s) of the amplitude and spectral parameters of the EEG, DCp values, ANS (heart rate), oxygen saturation SpO ₂ , etc. Software provides information in digital and graphic form for long-term dynamic monitoring and assessment of a patient's condition in addition to the data of the SW "Encephalan-CFM" in the intensive care unit and can be used in clinical and scientific research.	March Production Ref 12 TAC RD	Trends are based on the signals recorded by means of electrodes for EEG registration, wireless pulse oximeter modules from the illustrated catalogue.		
5.2.	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. 	ран (1993) (1993) (1994) (1994) (1994) (1994) (1995) (DC-potentials are registered with ABP-5 (up to 5 EEG derivations) with electrodes for EEG registration. NOT for neonatology!		

6.	Video equipment kit and Softw with videomonitoring					
6.1.	neuromonito The kit inclue video». Softw Includes optio Specialized "E	ed for continuous synchronized videomonitoring ring. des adapted Software for epileptologycal studie vare provides continuous synchronized EEG and vide n of short video clip preparation (AVI format) for dem EG Viewer" application allows viewing specified EE 0 discs or other storage devices) using main function	s with videomonitoring «Encephalan- eo data recording, analysis and storage. nonstration of pathological manifestations. G fragments and video data on doctor's PC			Video cameras may be replaced with similar ones with the same characteristics without prior notice.
6.1.1.	A_2310-80	ME - "mobile economical" Included: HV-E Video-Unit (A_3359) Injector USB / PoE (A_8769) Ethernet Patch Cable Cat.5e 10m. (A_6357) Operation manual (A_6397) Software for epileptologycal studies with videomonitoring "Encephalan-Video".	Optional: Wall mount for HV video-unit (A_8824) Clip Mount (A_8233) Tripod (A_2811) Events Marker (A_8598) IR Lamp (A_6396) Video-unit bag (A_2893)	HV- Vide injector USB / PoE	-E eo-Unit Ethernet Patch Cable Cat.5e 10m	 Main characteristics Sensitivity – 0.07 lx @ F1.2; day-night mode – a mechanical IR-cut filter; resolution 1920x1080, 1280x720, 704x576; frame rate – 25 fps; built-in IR illumination; powering – 220 V (via injector); built-in microphone.
6.1.2.	A_8598	Event marker (wireless) For medical staff		2 2		

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6.1.3.	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.
6.1.4.	A_8233	Clip Mount	
6.1.5.	A_2811	Tripod	

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7.		Gels, disposable elect	rodes and accessories
7.1.	A_2669	Ten20 Conductive Paste For adhesive cup electrodes (114 g)	
7.2.	A_6532	Electrode Cream EC-2 or similar For adhesive cup electrodes (100 g).	Remain Crass Revenue and a doct many Brown a doct many product of the control
7.3.	-	gel EG electrodes for contact electrode gel; electrodes from removable electrode systems with fixing EEG electrodes in eyelets.	
7.3.1.	A_1854	Electrode gel 250 ml bottle	
7.3.2.	A_1854-1	Electrode gel 1 L bottle	
7.4.	A_1302	Adhesive plaster (OMNIFIX elastic or similar) To fix electrodes and sensors. Dimensions 10 m x 5 cm.	Recommended for adhesive EEG electrode (with EC2, TEN-20 or similar paste) in order to preliminary fix the electrodes before collodion gluing at neuromonitoring.

7.5.	A_6901	Fixing bondage elastic Peha-haft, self-fixing	It is recommended to fix the eigs and arms at continuous studies, as well as to fix the adhesive electrodes in neonatology at the CFM study.
7.6.	A_2714	Disposable snap ECG Electrode (for EOG, EMG) 50 pcs. in 1 pack.	
7.7.	A_0343	Brush	

8.	Required computing hardware and office equipment			
8.1.	A_2380-2	Notebook (HP EliteBook 840 G5) include mains power supply		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 of CFM monitor, inform the manufacturer about it: advanced characteristics should be approved by the manufacturer.
8.2.	A_0687	 Additional Monitor (Philips 241) include mains power supply and HDMI cable. 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).
8.3.	A_4303-1	Additional HDD with USB cable		

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8.4.	A_4087	Printer Laser Black-And-White A4 format	Another printer type supply – by agreement.
8.5.	A_4088	Equipment Trolley	Equipment Trolley is adapted according to the computer and office equipment from the sales package.
8.6.	A_4088-4	Equipment Trolley with a drawer	

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