The catalogue of medical production
ANGIODIN-K

Classical computer based ultrasonic Doppler system for the investigation of blood streams under the controlled conditions of health care institutions. It is designed for differential diagnostic of diseases and functional conditions in neurology, general therapy, neurosurgery, vascular surgery, endocrinology, urology, and vertebrology.

ANGIODIN-K: basic kit:

- Electronic module (Doppler block; personal computer Pentium IV)
- Ultrasonic probes 2 MHz PW (trans-cranial), 4 MHz PW/CW (extra-cranial), 8 MHz PW/CW (peripheral)
- Diagnostic program Dopex® (frequency analysis of Doppler signal, review and analysis of investigation results)
- Data base WinPatientExpert® (creation of different medical reports, automatic generation of patient records, graphical representations, and production of reports)
- 17" TFT monitor
- Switchboard
- Pedal "start/stop"
- Instrument desk
- Black-and-white laser printer
- Line-operated decoupling transformer

Additional features:

- Ultrasonic probe 16 MHz PW (microvascular)
- Single channel pneumatic compressor with pneumatic seals
  - (hip - 800x210 mm, shank - 650x170 mm, arm - 540x140 mm)
- PW - pulsed wave radiation mode
- CW - continuous wave radiation mode

ANGIODIN-2K

Diagnostic system for the continuous bilateral monitoring of brain blood circulation, automatic detection of embolism, and also routine Doppler researches.

It is designed for use in vascular surgery, neurosurgery, cardio surgery, urgent neurology, and intensive care units:

- The analysis of the blood stream in the brain and the prevention of complications
- An estimation of the intraoperative picture of cerebral circulatory dynamics and processes of embolisms of vessels of a brain
- Pre-emptive action for normalization of blood streams and reduction of embolisms due to updated tactics of surgery, as well as modes of operation of the operational equipment
- A choice of effective tactics of surgical interventions within the limits of modern methods of minimally invasive cardiovascular surgery
- Establishment of clinical markers for development of an ischemia of a brain under intraoperative and out-patient conditions (quantity, frequency and duration of embolisms)

Additional features:

- Ultrasonic probe 1 MHz PW (trans-cranial)
- Ultrasonic probe 16 MHz PW (microvascular)
- Module non-invasive monitoring of arterial pressure with program Tonex®
- Module of capnography
- Module of invasive pressure
- Module of EKG (1 channel)
- Module of EEG (8 channels)
ANGIODIN-M

Ultrasonic Doppler system for daily research of trans-cranial, extra-cranial, and peripheral blood streams. It is structurally designed in the form of an external module connected to the personal computer of a user, and it is designed for equipping of offices for functional diagnostics.

Features:
- Multi frequency
- Shock-resistant aluminium case with the handle-support
- Multi channel
- Build in specialized computer
- Multi gate
- 8,4 " colour TFT screen
- Interface USB 2.0 for the connection to a personal computer

ANGIODIN-M, basic kit:
- Electronic module
- Ultrasonic probes 2 MHz PW (trans-cranial), 4 MHz PW/CW (extra-cranial), 8 MHz PW/CW (peripheral)
- Diagnostic program DopexUSB® (frequency analysis of Doppler signal, review and analysis findings of investigation)
- Data base WinPatientExpert® (creation of different medical reports, automatic generation of patient records, printing of patient records, graphical representations, and production of reports)
- Switchboard
- Pedal "start/stop"
- Line-operated decoupling transformer

Additional features:
- Ultrasonic probe 1 MHz PW (trans-cranial)
- Ultrasonic probe 16 MHz PW (microvascular)
- M-regime of Doppler examination
- Two-channel Doppler block for bilateral trans-cranial monitoring 2x2 MHz
- Single channel pneumatic compressor with pneumatic seals
- (hip – 800x210 mm, shank – 650x170 mm, arm – 540x140 mm)

ANGIODIN-PMD

Mobile system for the investigation of trans-cranial, extra-cranial, and peripheral blood streams, possessing all the functions of stationary Doppler systems. It is designed for daily work under hospital conditions (offices of functional diagnostics, operational, intensive care units), and for work outside of hospitals.

Features:
- Shock-resistant aluminium case with the handle-support
- Build in specialized computer
- 8,4 " colour TFT screen
- Film control panel
- Ability to connect to a standard monitor and printer
- Line supply 220 V, 50 Hz
- Overall dimensions of the block: 32.5x32x21 cm, weight - 7 kg

ANGIODIN-PMD, basic kit:
- Portable electronic block
- Ultrasonic probes 2 MHz PW (trans-cranial), 4 MHz PW/CW (extra-cranial), 8 MHz PW/CW (peripheral)
- Switchboard
- Pedal "start/stop"
- Diagnostic program Doppler Diagnostics® (automatic and manual calculation of 14 sanguimotory indexes of blood stream, frequency analysis of Doppler signal, program module for long monitoring), data base WinPatientExpert®

Additional features:
- Ultrasonic probe 16 MHz PW (microvascular)
- Doppler block for bilateral trans-cranial monitoring 2x2 MHz
- Special head helmet with two monitor’s probes 2 MHz PW
- Single channel pneumatic compressor with pneumatic seals
- (hip – 800x210 mm, shank – 650x170 mm, arm – 540x140 mm)
**ANGIODIN-PK**

Portable Doppler device for the examination of trans-cranial, extra-cranial, peripheral, and microvascular blood circulation.

- It is intended for daily work under hospital conditions (office of functional diagnostics, operational, intensive care units), as well as for work outside of hospitals in emergency situations.
- **Features:**
  - Automatic calculation of 8 indexes of blood stream
  - Special program with friendly interface
  - Ability to connect to a personal computer
  - Film control panel
  - Storing of up to 8 examinations in the memory of the device
  - Shock-resistant aluminium case with the handle
  - 5” colour TFT screen 320x240 pixels
  - Fast printing of results on built-in thermal printer 57 mm
  - Overall dimensions of the block: 32x32x16 cm, weight - 7 kg

**ANGIODIN-PX, basic kit:**
- Portable electronic block
- Ultrasonic probes 4 MHz PW/CW (extra-cranial), 8 MHz PW/CW (peripheral)
- Pedal “start/stop”
- **Additional features:**
  - Ultrasonic probe 2 MHz PW (trans-cranial)
  - Ultrasonic probe 16 MHz PW (microvascular)
  - Single channel pneumatic compressor with pneumatic seals
  - (shaft - 800x210 mm, shank - 650x170 mm, arm - 540x140 mm)
  - Measuring of arterial pressure and brachium-malleolar index

**ANGIODIN-PROCTO**

System for the effective treatment of haemorrhoids by a method of sutural ligation under the control of ultrasonic Doppler sonography.

**Advantages of the method:**
- Exact localization of haemorrhoidal arteries
- Minimal risk for the patient and the surgeon
- Minimal invasiveness
- Local anaesthesia
- Opportunity of out-patient application
- Fast restoration of work capacity
- Pain is not felt by patient
- Opportunity of application during any stage of the disease

**Features:**
- Disposable proctoscope of special design
- Continuous wave (CW) and pulsed wave (PW) operating modes for fast, exact and convenient search of haemorrhoidal vessels
- Spectral analysis of Doppler signal
- 5” colour TFT screen 320x240 pixels
- Storing of up to 8 examinations in the memory of the device
- Highly effective quartz-halogen source of cold light built-in the case of the device, and a flexible optical path provide high stable light exposure in the operative area

**ANGIODIN-PROCTO, basic kit:**
- Portable electronic block
- Special ultrasound probe 8 MHz PW/CW
- Pedal “start/stop”
- Disposable proctoscope
- Light pipe
- Needle holder
- Suture material
MINIDOP
- Small-scale Doppler-aural indicator of velocity of blood streams (portable Doppler for angiological screening).

Purpose:
- Operational Doppler-diagnostic of atherothrombotic peripheral vascular disease (ultrasonic transducers 4 MHz or 8 MHz) - angiology, vascular surgery
- Ultrasound investigation of phleboid and arterial blood stream (ultrasonic transducer 8 MHz) - vascular surgery, phlebology
- Measurement of the level of systolic blood pressure in shocked patients and new born children (ultrasonic transducers 4 MHz and/or 8 MHz)
- Detection of foetal heartbeats (ultrasonic transducer 2 MHz) - tocology and hynecology

Features:
- Sonic detection of velocity of blood streams
- High sensitivity
- Clip for attaching clamp on pocket/belt
- Duration of continuous operation - up to 10 hours

MINIDOP, basic kit:
- Electronic module with one fitted ultrasonic transducer (2/4/8 MHz)
- Battery charger
- Accumulators 1, 2 V - 2 pcs. (AA type)
- Procedure manual
- Ultrasound gel (250 ml)
- Case for transportation

Additional features:
- Electronic module with cut off point for the connection of two chosen ultrasonic transducers (2/4 MHz or 4/8 MHz)

ANGIODIN-Echo/M
- Echo-encephalographic module which can be connected to any modern personal computer.
- It allows conducting simultaneous one-dimension ultrasound investigation of the midline structure of brains.

Features:
- Connection to a stationary/portable personal computer and power supply of the module - USB interface
- Overall dimensions of the module: 18.5x10.5x3 cm, weight - 0.5 kg

ANGIODIN- Echo/M, basic kit:
- Electronic module echo-signals
- Ultrasonic echo-transducers 1 MHz - 2 pcs.
- Pedal "start/stop"
- Interface cable USB
- Diagnostic program WinEchoExpert® (modes: A, A+A, T-transmission, A+M scanning device, A+P pulsogram; automated analysis of medial, ventricular, average cellular indexes and brain mantle index)
- Data base WinPatientExpert® (creation of different medical reports, automatic generation of patient records, printing of patient records, graphical representations, and production of reports)

Additional features:
- Ultrasonic echo-transducers 2 MHz (for investigation of children)
- Line-operated decoupling transformer

Modification:
- ANGIODIN-Echo/M-ENT - module for conducting of sinuscopy
ANGIODIN-Echo/B
Stationary computer based echoencephalograph used extensively in neuroscience, neurosurgery, and traumatology.
It is designed for the detection of mass-lesions of the brain, changes after traumatic brain injury, distinguishing of hemorrhagic/ischemic nature of a poplectic attack, diagnostic of hemiatrophy of the brain by registration of echo-pulsogram.
ANGIODIN-Echo/B, basic kit:
- Electronic module (block of echo-signals; personal computer Celeron)
- Ultrasonic echo-transducers 1 MHz – 2 pcs.
- Diagnostic program WinEchoExpert® (operation modes: A, A+M scanning device, A+P pulsogram; automated analysis of medial, ventricular, average cellular indexes and brain mantle index), data base WinPatientExpert®
- 17” TFT monitor
- Pedal “start/stop”
- Instrumental desk
- Black-and-white laser printer
- Line-operated decoupling transformer

Additional features:
- Ultrasonic echo-transducers 2 MHz (for investigation of children)

ANGIODIN-Echo/P
Practical portable echoencephalograph, self-powered for full diagnostic of the midline structure of brains.
It is designed for efficient use both under hospital conditions and for emergency mobile consultations, in ambulances, and under field conditions.
Features:
- Light plastic case
- Operating mode: A-left, A-right, T-transmission with automatic insertion of tracer, A+P pulsogram, measurement of width of 3rd ventricle
- Automated analysis of medial, ventricular, average cellular indexes and brain mantle index
- Choice of probing depth (60/120/160/220 mm)
- Storing up to 100 examinations in the memory of the device
- Summary table of calculated indexes
- 5” monochrome TFT screen 480x320 pixels
- Fast printing of results on built-in thermal printer 57 mm
- USB-interface for connection with personal computer
- Mains and autonomous power supply (built in accumulators and battery charger)
- Overall dimensions of the unit: 24x22x8 cm, weight – 2.5 kg
ANGIODIN-Echo/P, basic kit:
- Electronic module
- Ultrasonic echo-transducers 1 MHz – 2 pcs.
- Pedal “start/stop”
- Case for transportation

Additional features:
- Ultrasonic echo-transducers 2 MHz (for investigation of children)
**ANGIODIN-Echo/U**
Practical portable echoencephalograph, self-powered for full diagnostic of the midline structure of brains.
It is designed for efficient use both under hospital conditions and for emergency mobile consultations, in ambulances, and under field conditions.

**Features:**
- Shock-resistant aluminum case with the handle-support
- Operating mode: A-right, A-left, T-transmission with automatic insertion of tracer, A+P pullegram, measurement of width of 3 ventricle
- Automated analysis of medial, ventricular, average cellular indexes and brain mantle index
- Choice of probing depth (60/120/160/220 mm)
- Storing up to 100 examinations in the memory of the device
- Summary table of calculated indexes
- 5” monochrome TFT screen 480x320 pixels
- Fast printing of results on build in thermal printer 57 mm
- USB-interface for connection with personal computer
- Mains and autonomous power supply (build in accumulators and battery charger)
- Overall dimensions of the unit: 30x30x20 cm, weight - 5 kg

**ANGIODIN-Echo/U, basic kit:**
- Electronic module
- Ultrasonic echo-transducers 1 MHz - 2 pcs.
- Pedal “start/stop”

**Additional features:**
- Ultrasonic echo-transducers 2 MHz (for investigation of children)

**ANGIODIN-Echo/P-ENT**
Portable sinuscope for ultrasound investigation of maxillary and frontal sinuses. It is designed for soft harmless diagnostic of frontal sinusitis and maxillary sinusitis.

**Features:**
- Light plastic case
- Operating mode: A+A left and right echogram - for detection of liquid and mass lesions in sinuses; M-echo (scanning device) - for detection of the level of liquid in sinuses.
- Identification of patients
- Storing up to 100 checks in the memory of the device
- USB-interface for connection with personal computer
- Mains and autonomous power supply (build in accumulators and battery charger)
- Overall dimensions of the unit: 24x22x8 cm, weight - 2.5 kg

**ANGIODIN-Echo/ P-ENT, basic kit:**
- Electronic module
- Ultrasonic probe 3 MHz
- Pedal “start/stop”
- Case for transportation
• ANGIODIN Echo/B-ENT
  Computer-based ultrasonic sinuscope. It allows conducting of harmless investigations of maxillary sinuses and frontal sinuses.
• Operating modes:
  • Echograms – for detection of liquid and mass lesions in sinuses
  • Measuring device for detection of the level of liquid
• ANGIODIN: Echo/B-ENT, basic kit:
  • Electronic module (echo signals block; personal computer Celeron)
  • Ultrasonic probe 3 MHz
  • 17" TFT monitor
  • Pedal "Start/Stop"
  • Instrumental desk
  • Black-and-white laser printer
  • Line-operated decoupling transformer
  • Diagnostic program WinSinusExpert® (displaying of patient data, results of measurements together with echograms of investigations, graphical representations of investigation results, transfer of obtained results to database WinPatientExpert®),
  • Database WinPatientExpert®

• Cardiological analyser EK9C-01
  • System for performing express-diagnostics of heart (Cardiovisor-6C) and registration, analysis of EKG on 12 deflections (with automatic interpretation).
  • The program "Cardiovisor-6C" uses a unique method of non-invasive express-control (less than 1 minute without removal of clothes from the patient) a functional status of the heart, based on computer calculation and 3D-visualization of "portraits of heart" based on low-amplitude fluctuations of standard EKG, registered by deflections of extremities.
  • The system allows:
    • During early stages to detect the presence of pathological changes of various diseases: coronary disease, hyperpiesis, cardiomiopathy, cardiac malformation, intoxications, etc.
    • To compare results of investigations over time
    • To print standard cardiograms and "portraits" of hearts
  • Scopes:
    • Cardiology
    • Military medicine
    • Preventive medicine
    • Sports medicine
  • Cardiological analyser EK9C-01, basic kit:
    • Amplifier EKG "CARDI 2/4"
    • Software for express-diagnostic of heart "Cardiovisor-6C"
    • Software for 12-channels EKG
    • Set of electrodes for extremities
• ANGIODIN-Sono/P
  - Portable universal ultrasonic scanning device with high quality of visualization.
  - Application fields: abdominal investigation, superficial disposed organs, gynecology, cardiology, urology, pediatrics, and veterinary science.
  - Features:
    - Electronic linear, convex, micro-convex scanning
    - Depth of scanning from 3 to 24 cm
    - B/B+/4B/M operation modes
    - Record/reproduction of cine loop
    - Dimensional scaling of ultrasonic image: from 60% to 600%
    - 32 channels beam former
    - Digital focusing
    - Operation modes: "Multyfocus", "Dynamic focus"
    - Measurements: distance, length, surface, volume, time, heart rate, velocity
    - Saving/loading of video and images in AVI, JPG, BMP, TIF, PNG formats
    - Unlimited amount of planned presets for different types of investigations
    - Sending of e-mail with attached images and ultrasonic video through Internet
    - Printing by any standard printer
    - Standard TV out port (SVIDEO)
  - ANGIODIN-Sono/P, basic kit:
    - Electronic module (1 port for connection of sensors, shock-resistant aluminium case, 8,4" colour TFT screen, specialized personal computer with Windows OS)
    - Ultrasonic 128 - element multi-frequency convex sensors
  - Additional features:
    - More than 30 types of multi-frequency sensors from 2 to 10 MHz
    - Bioptic adapters
    - Program modules:
      - ClearView – suppression of speckle noise and improving quality of image
      - PanoView – expansion of clinical capability of the system
      - 3DView - reconstruction of three dimensional images

• IKRZ-1
  - Aural indicator of cardiology rhythm.
  - Designed:
    - for independent transfer of EKG by the patient via phone to the advisory centre for subsequent processing and decision-making
    - for listening to the heart rhythm of a patient
  - Features of application:
    - With auxiliary electrodes - maintenance high quality EKG and convenience to the patient
    - With disposable standard electrodes - for reliable definition of pulse in extreme conditions
    - Ability to transfer long duration EKGS (with duration up to 6 minutes), that increases the diagnostic value of the records for the analysis of arrhythmia and allows to perform statistical analysis of R-R intervals of EKG
    - Diminutiveness - size: 80x40x20 mm, weight 60 g
    - Profitability - the battery is enough for 1200 five-minute transfers
    - Simplicity of management - only the switch of a main-electrical breaker
  - IKRZ-1, basic kit:
    - for patients
      - Transmitter of EKG by phone with user instruction
    - for advisory centres
      - Receiver of EKG
      - Personal computer;
      - Software for processing of received EKG on CD
AVDAVD—1P

It is designed for the monitoring and analysis of the heart rhythm of a patient with the subsequent restoration of a regular heart rhythm during occurrence of life-threatening arrhythmia (fibrillations of ventricles) by electric discharge.

The device is connected to the patient by disposable self-adhesive electrodes for registration of EKG and performing of defibrillation.

In case of detection of fibrillation, discharge is confirmed by the operator.

Scopes:
- first aid, clinical medicine, medicine of accidents, military medicine, sports medicine.

Operating mode:
- Automatic
- Manual synchronous (cardiological version)
- Asynchronous

Features:
- Continuous registration and display of EKG
- Automatic detection of a non-stable heart rhythm
- Low traumatic bipolar impulse
- The choice of energy from 50 up to 350 J
- Voice help to the operator in automatic mode
- Support of the international report of cardiopulmonary resuscitation
- Record of EKG in the electronic memory, a surrounding sound, parameters of an impulse
- Daily auto-testing and indication of readiness

AVD-1P, basic kit:
- Electronic module with reusable accumulator battery
- Disposable self-adhesive electrodes for adults—3 sets
- Special protective bag
- Memory card 512 Mb
- Program for review of data on a personal computer
- Disposable razor

AVD-1P, basic kit:
- Program for review of data on a personal computer
- Electronic module with disposable battery
- Disposable self-adhesive electrodes for adults—3 sets
- Special protective bag
- Memory card 512 Mb
- Program for review of data on a personal computer
- Disposable razor

Features:
- Continuous registration and display of EKG
- Automatic detection of a non-stable heart rhythm
- Measurement and display of impedance of thoracic cage values, cardiac rate
- Low traumatic bipolar impulse
- The choice of energy from 150 up to 250 J (for children—50 J)
- Voice help to the operator in automatic mode
- Support of the international report of cardiopulmonary resuscitation
- Record of EKG in the electronic memory, a surrounding sound, parameters of an impulse
- Daily auto-testing and indication of readiness

AVD-1P, basic kit:
- Electronic module with reusable accumulator battery
- Disposable self-adhesive electrodes for adults
- Battery charger with power supply
- Special protective bag
- Memory card 512 Mb
- Program for review of data on a personal computer

Additional features:
- Disposable battery
- Disposable self-adhesive electrodes for children
- External infra-red thermal printer
- Device for reading of memory card
NEUROVIZOR-BMM

- 24 channel digital computer electroencephalograph for taking and visualization of biopotentials of a brain with subsequent analysis and storage of the obtained results.
- Purpose:
  - Routine clinical EEG in the field of functional diagnostics
  - Diagnostics of epilepsy and sleep disturbance
  - Investigation of acoustical, visual and cognitive induced potential
  - Fundamental neurophysiologic researches

NEUROVIZOR-BMM, basic kit:
- 24 channels Amplifier EEG "Neurovizor-24U"
- Light-emitting diode photic stimulator
- Set of accessories for registration of EEG (bridged or cap-type electrodes, ear electrodes, deflection cable, silicon helmet-net for fastening of electrodes)
- CD with software Neurotravel (software for registration and storage of EEG; amplitude, frequency, frequency analysis of EEG with topographic mapping)
- Support for EEG amplifier
- Support for photic stimulator
- Additional features:
  - Acoustic stimulator
  - Set of needle electrodes for intraoperational monitoring
  - Video EEG

TETOS

- Diagnostic-therapeutic system for trans-cranial electrotherapy with feedback, which restores impaired functions of the human organism, affecting the structures of the brain responsible for regulation of homeostasis by electro-signals.

Fields of application:
- Impairment of functional status (chronic fatigue, over fatigue) of practically healthy persons
- Neurasthenia, psychasthenia
- Somatophorm dysfunction of vegetative nervous system
- Acute stress response
- Post-traumatic stress disorder

As a result of TETOS-Therapy:
- Neurophysiological and neurohumoral regulations are normalized
- Increased stress level stability and working capacity of a person
- Increased precision and coordination of actions during performance of professional tasks
- Tenure at hospital decreased by 30-50 % and total amount of used medication decreased by 50-80 % whilst infected with psychosomatic and somatic diseases

Fields of application:
- cardiology (cardiac accident, hypertensive disease, circulatory collapse)
- gastroenterology (gastritis, peptic ulcer of stomach and duodenum)
- surgery (reduction of perioperative stress, stimulation of regeneration process)
- neurology (neuritis, neurodinia, radicular syndrome)
- Acceleration of recovery of damage, prevention of catarrhal diseases, acceleration of formation of motor skills

TETOS, basic kit:
- 8-channels electronic block
- Helmet with built-in electrodes
- EEG gel, syringes for gel
- Cable USB
- Support for electro stimulator
- Software runs under the Windows XP environment and provided on CD
Alton-03
The portable, small-sized, 3/12 channel electrocardiograph.

Main features:
- Qualitative and convenient registration recording of an electrocardiogram under all conditions of operation: from ambulances car up to service of functional diagnostics of cardiological hospitals
- Registration Recording of the channel of a rhythm channels
- Automatic calculation of HR and key parameters of electrocardiograms
- Ability to work in the vicinity of computerized workplaces
- Long duration of offline operation
- Low cost of paper and other consumables

Features:
- Opportunity of registrationAbility to create of long record of EKG records ("rhythm-channel") simultaneously with printing of 12 synchronously registered leads
- Presence of a built-in independent clock and calendar
- High memory capacity for the storing of recorded EKGs (used at work with a computer)
- Ability to print a copy of the last reordered EKG

Alton-03, basic kit:
- Electrocardiograph
- Cable for the patient
- Charger EPU (simultaneously it is a charger for the accumulator)
- Complete set of leads (4 for extremitiies and 6 for the chest)
- Lead gel
- Thermal paper
- Bag for storage and transportation

Additional features:
- Software CARDIS (abilities of the program are described in the product "Alton-12k")
- Adapter and cable for connection with a personal computer

Alton-06
Portable 3/6/12-channels electrocardiograph.

Main features:
- Automatic measurements and calculation of peak and time parameters of EKGs
- Registration Recording of "rhythm channel"
- Wide choice of formats for printing
- High volume capacity for recorded EKG

Features:
- Convenient formats of EKG type-layouts on paper
- Opportunity of registration of Ability to create long record of EKG records ("rhythm-channel") simultaneously with printing of 12 synchronously registered leads
- Presence of a built-in independent clock and calendar

Alton-06, basic kit:
- Electrocardiograph
- Cable for the patient
- EPU (simultaneously it is a charger for the accumulator)
- Complete set of leads (4 for extremities and 6 for the chest)
- Lead gel
- Thermal paper
- Bag for storage and transportation

Additional features:
- Adapter and cable for connection with a personal computer
- Software CARDIS (abilities of the program are described in the product "Alton-12k")

Added 24/08 still no advice from customer
Alton-12K
- 12-channel computer electrical cardioanalyser.
- Automatically performs the planimetric analysis of EKG during registration checks using 12 standard leads, enables ability to format and edit text of syndrome reports.

Features:
- Monitoring and registration recording of EKG on the screen of a computer with various system combinations of leads: 12 standard, according to the MacFee scheme, according to Parungao, bipolar orthogonal
- Saving any number of EKG fragments of required durations
- Saving results of investigations, reports and comments of a healthcare professional in the integrated electronic card index
- The new version of algorithms of analysis of EKG which have been checked and verified during over many years under real clinical conditions is used in electrocardiography
- Simultaneous viewing of several reports of any investigations for the comparative analysis
- Performing amplitude and time changes in both automatic and manual mode
- Expanded analysis of EKG: visual representation of vector cardiogram, calculation of variability of heart rhythm from short records, aerobic endurance, etc. (with the connection of additional modules offer the analysis of EKG)
- Flexible opportunities of adjustment of ability to flexibly adjust the printing format of the report of EKG investigation reports
- Alton-12K, basic kit:
  - Cardiounit Alton-12K
  - Set of reusable leads for EKG (4 for extremities and 6 for the chest)
  - Software

Additional features:
- Disposable leads
- Adapter for disposable leads
- Personal computer
- Printer
- Uninterruptible power supply unit
- Rack for the equipment
- Program modules for the expanded analysis of EKG: representation of vector cardiogram, calculation of variability of heart rhythm from short records, aerobic endurance

Alton-Test
- System for performing functional electrocardiographic tests.

Main features:
- Automation of electrocardiological tests
- Automatic tracking of dynamics of displacement of hear rate of S-T segment directly during performance of the test
- Convenient tools for formation and editing of test report
- Keeping Storing of card index of performed investigations

Features:
- Monitoring and registration recording of EKG on the screen of a computer of the EKG computer done by various systems configurations of leads: 12 standard, orthogonal according to MacFee, according to Parungao, bipolar orthogonal
- Automatic measurements of HR, displacement of segment S-T
- Performing amplitude and time changes in both automatic and manual mode
- Work with different models of EKG registrars
- Simplicity of installation and connection, convenience of use and data storage

Alton-Test, basic kit:
- Device for registration recording of EKG (12 leads)
- Medical bicycle ergometer SECA Cardiotest
- Set of reusable leads of EKG with a fixing belt
- Computerized workplace of the expert of the functional diagnostics, including a personal computer, printer, uninterruptible power supply unit
- Delivery with bicycle ergometer eBike (General Electric) or treadmill Valiant is possible. Upon request it can be completed by a vacuum system for fastening of leads, defibrillator, and rack for the equipment.
Bilitest 2000
Automatic transcutaneous screening analyzer of hyperbilirubinemia of newborns.

**Basic features:**
- Measurement via two optical channels and on two wavelengths
- Elimination of influence of haemoglobin and a significant decrease in the influence of skin pigmentation

**Features:**
- Automatic measurement during light pressure applied to the detecting head of the device on a baby’s skin
- Automatic calibration
- Beep at the end of measurement
- Automatic transition into standby mode
- Built-in control of measuring system
- Economic electronic scheme, increased resource efficiency of use of internal batteries (up to 1,000,000 measurements)
- Indication of batteries discharge

**Bilitest 2000, basic kit:**
- Analyzer of hyperbilirubinemia
- Case with standards for calibration and control
- Guide to operation manual and guidelines

Portable Inhaler compressor portable INKO-Med TeKo
It is designed for the treatment of diseases of the upper and lower respiratory tract, diseases of lungs by introduction pharmaceutical substances (such as bronchodilators, antibiotics, antiseptics, steroids, mucolytic agents, phyto-mixtures and mineral waters) in a pure form through the respiratory tract.

**Features:**
- Modern element base
- Presence of timer
- Presence of medicine counter
- Modern design

**INKO, basic kit:**
- Control unit and compressor
- Flask for a liquid with pulveriser
- Connecting tube
- Economizer
- Nasal adapter for children
- Nasal adapter for adults
- Bite-board
- Child breathing mask
- Adult breathing mask
AVL device VEGA-2-FACTOR
Portable AVL device for ambulance services, providing a wide range of methods of respiratory support methods for patients of different age groups during transportation and at the place of accident.

Main features:
- Normal frequency controlled artificial ventilation - compulsory and auxiliary
- High-frequency controlled artificial ventilation
- Anesthesia, oxygen therapy
- Applicable for adults and children (from 1 year)
- Built-in accumulator

Features:
- Saving in memory and fast evocation switching of three modes (with the adjusted parameters)
- Developed system of alarms with text helps
- Saving of work statistics of the device
- Wide opportunities range of adjustment of general parameters of the device

VEGA-2-FACTOR, basic kit:
- AVL apparatus
- Set of respiratory contours elements (for maintenance of work of the device in all modes)
- Power unit (220 V, 50 Hz)
- Cable for connection to the onboard network (12 V)
- Hoses for connection of an external pneumofeed
- Attachment for fitting of the device in the a car
- Bag-pocket for storage of accessories of the device in the a car

Additional features:
- Bag for transportation of 2 cylinders (1l or 2l)
- Cylinders (1l, 2l, for oxygen and nitrous oxide)
- Reducers (for oxygen and nitrous oxide)

CARDEKS MAR-02
Universal transport and bedside monitor designed for monitoring adults, children, and newborns.

Set monitored parameters correspond to modern requirements of safety standard in anaesthesiology and reanimation.

Field of application: anaesthesiology departments, reanimation, intensive therapy, and during transportation of the patient.

Features:
- 8.4 " colour TFT display, resolution 800x600 pixels
- Quantity of curves: 5
- Monitored parameters:
  - EKG – 3 or 7 leads, HR
  - SpO2, PR
  - EtCO2, FiCO2, breathing rate, capnogram
  - Blood pressure – non-invasive, oscillometric
  - Temperature (two channels)
  - Trends: 48 hours
  - Alarm for all monitored parameters separately
  - Sound and visual alarm signal
  - Interface with the printer
  - Interface with central station CARDEKS 800

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  - Sound and visual alarm signal
  - Interface with the printer
  - Interface with central station CARDEKS 800
**Cardeks MAR-03**
- Multiparametrical monitor designed for supervision of essential functions in anaesthesiology, reanimation and intensive therapy departments.
- The set of monitored parameters allows most quick control and recording of changes of breath and blood circulation of the patient.
- **Features:**
  - 12" colour TFT display
  - Resolution 800x600 pixels
  - Quantity of curves: 6
  - Monitored parameters:
    - EKG – 3 or 7 leads, HR
    - SpO2, PR, plethysmogram
    - EtCO2, FiCO2, breath rate, capnogram
    - Blood pressure – non-invasive, non-invasive, oscillometric
    - Blood pressure – invasive (two channels)
    - O2
    - Temperature (two channels)
  - Trends: 48 hours
- Alarm for all monitored parameters
- Interface with central station CARDEKS 800

**CARDEKS PO-02**
- Pulse oximeters CARDEKS PO-02 – it is a new step in development of portable devices for field and extreme medicine. Its small weight and size, the bright indicator and long term off-line operation make CARDEKS PO-02 the leader in this class of devices.
- The unique digital algorithm of allocation of useful signal DDA deserves special attention. The DDA algorithm allows solving the problem of “false alarms” and provides ensures the reliable work operation of the device at intensive interference during transportation of the patient.
- This new development of company OMID provides both fast and authentic determination of SpO2 and pulse rates (PR) for patients of any age from newborns to adults.
- **Features:**
  - Instrument range of PR, min: 30-240
  - Relative error of measurement of PR, min: 2
  - Instrument range of saturation (SpO2), %: 0-100
  - Absolute error of measurement of saturation, %: 2
  - Power supply:
    - from internal storage battery, for duration 24 h or 48 h
    - from airplane DC power of direct current, voltage 12-27 V
  - from AC network 220 V, 50 Hz
Computer-based cardioanalyser CARD

- It is designed for use as a multichannel electrocardiograph with the automatic analysis of EKG and an opportunity of the ability to keep an electronic archive of investigations.
- Assures:
  - Registration/Recording of 12 standard leads in the system, according to Neb, orthogonal system of Franc, monopolar leads of R or one differential lead R-L
  - Filtration (LF, HF, 50/60 Hz)
  - Automatic measurements and production of the conclusions
  - Automatic allocation of R-R intervals
  - Operative navigation along over a long record (on absolute time, schedule of R-R intervals, compact viewing)
  - Import/export of EKG and R-R intervals in standard file formats of files or through the interface buffer of exchange
  - Visual comparison of several records of EKG
  - Supports of a database of patients and investigations
  - Wide extensive opportunities for EKG printing
  - Work with a patient's database
  - Analysis of variability of HR in time and frequency areas (additional module)
- CARD, basic kit:
  - Amplifier of EKG CARDi2
  - Software
  - Set of leads

MAGNIT

- The A device for a magnetotherapy MAGNET-Med TeKo
- It is designed for medical influence by a low-frequency magnetic field in a wide range of frequencies, modulations, intensity of a field that promotes activation of blood circulation, metabolic processes, and stimulation of muscular activity, has an analgesic effect.
- Features:
  - Modern element base
  - Microprocessor programming system, management and the control of operating modes
  - Wide spectrum of setting parameters (induction, frequency, form of impulses)
  - Data display of high resolution
  - Flexible system of selection of various inductors and their identification
  - Simplicity in work and service
  - Modern design
- MAGNIT-MED TeKo, basic kit:
  - Electronic module
  - Holder of inductor (2 pcs.)
  - Replaceable parts:
    - Inductor №1 (with work surface 122 cm2)
    - Inductor №2 (with work surface 78 cm2)
    - Inductor №3 (with work surface 50 cm2)
    - Inductor №4 (intracavitary)
    - Inductor №5 (lumbar)
  - The indicator of presence of a magnetic field indicator
MAKDEL-02
- Compact professional device for laser therapy.
- **Field of application:** disaster medicine, surgery, reflexotherapy, arthrology, gynaecology, proctology, urology, gastroenterology, stomatology, ophthalmology, otolaryngology, therapy, pediatrics, neonatology, etc.
- **The most significant medical impacts:** anti-inflammatory, antiproliferative, immunocorrective, biostimulating, regenerative, protective, anesthetizing.
- **Apparent effects:** removal of angiospasm, increase of transport function of blood, improvement of cell structure, stimulation of reparative processes, anesthesia (during postoperative period).
- **Main capabilities:**
  - Choice of time of procedure within 1-400 sec
  - Choice of capacity within the limits of 5-200 mW (with continuous running)
  - Choice of frequency of recurrence of laser impulses within the limits of 0-2000 Hz
  - 3 possible wave lengths: 0.85 microns, 0.65 microns, 1.3 microns
  - Built in power control of power
- **Features:**
  - Timer with countdown
  - Mains and self-contained power supply

**MAKDEL-02, basic kit:**
- Device
- 3 nozzles
- Package of licensing documents and recommendations for application

**Additional features:**
- Set of optical nozzles
- Magnetic nozzle

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MAKDEL-08 “Spekl”
- The A device for laser therapy in ophthalmology.
- **Field of application:** sensory and accommodative disorders, sphincters, amblyopia, relief of visual fatigue, increase of visual acuity.
- **Main features:**
  - Radiation He-Ne laser is fed to the screen-head and produces speckle structure
  - Frequencies from 0 to 5 Hz
  - Built-in control of power
- **Features:**
  - Timer with countdown
  - Mains power supply

**MAKDEL-08:**
- Device
- Polyfiber cable
- Screen-nozzle
- Usage recommendations
MAKDEL

A compact device for the treatment of accommodative vision disorders (short-sightedness, weakness of accommodation, computer fatigue of eyes syndrome, presbyopia, etc.).

**Basic features:**
- Three modes of power of laser radiation, wave length - 1.3 microns
- Independent management of radiation on each eye
- Installation setup of distance of the centres accordingly to a reference point
- Continuous mode of laser action or choice of frequency of recurrence of impulses
- Exact installation setup of distance of the centres accordingly to a reference point
- Timer with countdown
- Mains supply

**MAKDEL-09, basic kit:**
- Device consist of 3 units (control unit, execution unit, radiation detector)
- Package of licensing documents and recommendations for application

**Additional features:**
- Tripod

**Features:**
- Automatic measurement at placing cuvette in photometric cell
- Automatic calculation and output of results of measurement to TFT display
- Automatic transition in standby mode
- Automatic calibration accordingly to the standard
- Autofine tuning of optical parameters
- Beep at end of measurement
- Measurement error of haemoglobin in reference range not more than 2 %
- Mains or internal batteries power supplies
- Increased resource efficiency usage of use of internal batteries (up to 1 000 000 measurements)
- Indication of battery discharge

**«MiniHEM+», basic kit:**
- Haemoglobin meter
- Optical glass cuvette
- Control actions for checking of efficiency of the device
- Mains power supply
- Batteries
- Guide to operations

MiniHEM+

Portable photometric haemoglobinometer for detection of haemoglobin in blood by haemoglobin cyanide, hemocromic and other methods at a wave length of 540 nm.

**Main features:**
- Calibration by standard and by the factor
- Open system, allowing to use domestic and foreign reagents
- Memory for 1 technique, storage in memory of the factor and concentration of the calibrator
- Opportunity of output of optical density of a solution without re-mastering of the device

**Features:**
- Automatic measurement at placing cuvette in photometric cell
- Automatic calculation and output of results of measurement to TFT display
- Automatic transition in standby mode
- Automatic calibration accordingly to the standard
- Autofine tuning of optical parameters
- Beep at end of measurement
- Measurement error of haemoglobin in reference range not more than 2 %
- Mains or internal batteries power supplies
- Increased resource efficiency usage of use of internal batteries (up to 1 000 000 measurements)
- Indication of battery discharge
- «MiniHEM+», basic kit:
  - Haemoglobin meter
  - Optical glass cuvette
  - Control actions for checking of efficiency of the device
  - Mains power supply
  - Batteries
  - Guide to operations
NEUROMIOGRAPH

- Diagnostic complex for performing of electromyography and registration of generated potentials.

Methods:
- Electromyography
  - Potentials of motor units
  - Investigation of individual muscle fibres
  - Conduction velocity of motor fibres
  - F-wave
  - H-reflex
  - Decrement test
- Visual generated potentials:
  - Visual generated potentials to flash
  - Visual generated potentials to pattern
- Auditory generated potentials:
  - Acoustic-brainstem generated potentials
  - Long latent auditory generated potentials
  - Medium delitescence acoustic generated potentials
- Somatosensory generated potentials:
  - Short delitescence somatosensory generated potentials
  - Long Short delitescence somatosensory generated potentials
- Endogenic generated potentials:
  - R300

MMK-Alton

- Multifunctional monitor of the patient.

Monitoring:
- EKG with up to 7 leads
- Noninvasive arterial pressure
- Pulse oximetry
- Capnometry (option)
- Temperatures (option)
- Breath

Features:
- Optimum set of functions (alarm, accumulation of results of measurements and many other options)
- Protection against faults of mains supply
- Built-in two-channel printer
- Bright colour screen with diagonal of 31 cm with wide viewing angle
- Set electrocardiographic filters allows to achieve comprehensible quality of the signal even at use of the electrosurgical tool
- Monitor keeps capacity for to work at even with switching-off of any probes and has control aids of contact in the circuits of leads. At the event of a occurrence of disrepair of probe fault probes there is a "technical" alarm
- System of customizable alarm provides the sound and light notifications which are executed according to the international standard in case monitored parameters exceed the bounds of set parameters

MMK-Alton, basic kit:
- Monitor with built-in printer
- Cable for the patient for the 7 leads of EKG
- Sensor of pulse oximeter
- Cuff for measurement of blood pressure
- Opportunity of additional probes
Neuro-MVP

It is a device in electromyography with functions for the investigation of visual, acoustic, somatosensory and cognitive (P300, MMN, CNV) generated potentials of the brain.

**Basic Features:**
- Electromyography (motor and sensor speed of conduction, F-wave, H-reflex (including pair stimulation), motor and sensor inching)
- Electromyography (spontaneous activity, interference curve, potentials of motor units)
- Neuromuscular transmission (rhythmic stimulation, jitter)
- Additional electromyogram techniques (wink reflex, sacral reflex, bulbocavernous reflex, T-reflex, generated skin sympathetic potentials)
- Somatosensory generated potentials of the brain
- Visual generated potentials of the brain
- Acoustical generated potentials of the brain
- Cognitive generated potentials of the brain (P300, MMN, CNV)
- Transcranial magnetic stimulation

**Neuro-MVP, basic kit:**
- Amplifier unit “Neuro-MVP” on desktop tripod
- Audiovisual stimulator unit “Neuro-MVP”
- Control unit of current stimulator “Neuro-MVP”
- Functional keyboard with the holder
- Unit of pedal control
- Button of registration recording of reaction of the patient
- Set of leads
- Set of stimulators
- Stereo speakers
- Additional supply of magnetic stimulator for diagnostics and medical influence on the motor zones of the cerebral cortex, stimulation of the a spinal cord and peripheral nervous system “Neuro-MS” is possible

BIS-monitor A-2000 XR

It is an independent device for estimation of the depth of the general anaesthesia and sedation.

**Main features:**
- Registration Recording of EEG of the patient
- Calculation and display of bispectral index (BIS) - parameter which provides direct measurement of effects of the general anaesthesia or sedation of brain

**Device assures:**
- To eliminate the risk of a premature anaesthesia recovery
- To reduce the amount of anaesthetics
- To decrease time of anaesthesia recovery
- To support the required depth of sedation

**A-2000 XR2, basic kit:**
- Monitor with built in accumulator
- Demountable network cable
- Digitizer of signal
- Cable of the patient
- Sensors
- Clip: it is used for fastening the monitor to the bed, the carriage and etc.

**Additional features:**
- Printer
- A rack for installation of the monitor on a flat surface
**Rheograph Mitsar-REO**

Digital computer-based 4 channels rheograph with an internal power supply for investigation of vascular supply with use of stationary or portable computer. 4 channels rheogram, 4 channels differential rheogram, 1 channel of EKG.

**Purpose:**
- Recording and the analysis by rheoencephalography technique
- Recording and the analysis by renovasography technique
- Recording and the analysis by tetrapolar chest rheography technique
- Recording and the analysis by integral rheography of the body technique
- Recording and the analysis by impedance plethysmography, rheohepatography, rheooptalmography techniques

**MITSAR-REo, basic kit:**
- Transducer of bioelectric signals
- Leads and cables for rheoencephalography
- Leads and cables for tetrapolar chest rheography and integral rheography of the body
- Leads and cables for EKG
- CD with WinREO program software (the automatic analysis, probes, dynamic comparison, comparison with due values)

**Additional features:**
- Tripod for installation of transducer of bioelectric signals
- Leads and cables for rheohepatography and impedance plethysmography
- Leads and cables for rheoophthalmography
- Software for investigation of heart-rhythm disorders (cardiorhytmography)

**Fetal monitor “Soniomed-200”**

It is designed for cardiotocography investigations of monocyosis/bigeminal pregnancy, during both prenatal and intranatal periods.

**Main features:**
- Automatic analysis of cardiotocography
- Calculates following parameters of cardiotocography:
  - Basal level of fetal HR
  - Quantity of significant/insignificant accelerations and decelerations
  - Quantity of episodes of high/low variability of fetal HR
  - Variability of short/long intervals
- Marks by colour basic fragments of fetalfetal HR curve (accelerations and decelerations, episodes of high variability, etc.) allows doctor to supervise the analysis and considerably facilitates diagnostics

**Registration:**
- Recording of two fetalfetal

**Features:**
- Single fetalfetal monitor which allows choice of several variants of analysis of cardiotocography curve
- Control of fetalfetal monitor is performed by the a modern computer

**Sonomed-2002, basic kit:**
- Chassis of cardiotocograph
- Ultrasonic probe 1.5 MHz
- Ultrasonic probe 2.0 MHz
- TOCO probe (tensometric)
- Marker of fetalfetal movements
- Set of belts for fastening probes (4 pcs.)
- USB Cable
- Buckles for belts (4 pcs.)
- Ultrasonic gel (240 ml)
- Network adapter of chassis
- Electronic key HASP
• **System of EKG Holter monitoring Holter-DMS**
  - It is designed for the registration and analysis of EKG of freely moving patients on an outpatient basis and in stationary conditions during an extended period - from one to three days.
  - **Main features:**
    - Automatic analysis of heart rhythm disorders and conductivity, and also correction of results of the analysis by the doctor in a dialogue mode.
    - Analysis of changes of ST segment in each registered lead.
    - Analysis of parameters of QT interval.
    - Analysis of a rhythm taking into account work of artificial pacemaker.
    - Formation, viewing and printing of the report with results of EKG analysis.
    - Performance of functional test (reordering of EKG signals from the patient and their simultaneous input in the personal computer in order to estimate the quality of registered signals and their processing).
  - **Features:**
    - Installation of operating mode is possible without connection to the computer by navigating the menu and control panel.
    - Analysis of all EKG records can be supplemented by the automatic analysis of any separate site.
    - Dynamics of the form of QRST complex is analyzed in comparison to the form of reference QRST complex that allows to reveal effectively depression and elevation of ST segment, and also changes of parameters of QT interval at any site of EKG.

• **SOUZ**
  - **Complex of daily monitoring of EKG and blood pressure "SOUZ"**
  - It is designed for registration and processing of EKG and the blood pressure of freely moving patients in outpatient and stationary conditions during an extended period - from one to three days.
  - **Features:**
    - Functional variety of the system allows to record EKG at rest and to perform tests with physical activity.
    - Mode of EKG record taking into account work of different types of pacemakers.
    - Technical perfection: excellence of the monitor enables carrying out of functional test without connection to the computer.
  - **Additional features:**
    - Monitor MEKG-NS-02 for recording of EKG using by two/three chest leads.
    - Monitor MEKG-NS-03 for registration and recording of EKG using one/three orthogonal leads.
    - Monitor MDP-NS-02 for simultaneous registration and recording of blood pressure and PR by oscillometry method; monitor for registration and recording of blood pressure and PR by oscillometry method and auscultatory methods.
    - Monitor MEKG-NS-02 for simultaneous registration and recording of blood pressure and EKG using by two/three chest leads.
    - Monitor MEKG-NS-03 for simultaneous registration and recording of blood pressure and EKG using by three orthogonal leads.
    - Software for registration and analysis of EKG at rest using by three orthogonal leads (for monitors MEKG-NS-03, MEKG-NS-02).
Analyzer of the basic parameters of sperm fertility AFS -500

Field of applications:
- Allows fast and precise diagnostic of main disorders of man reproductive function
- Veterinary science

Main features:
- Absence of reagents and consumables
- Built in microscope allows visual control of sperm cells with determination of morphological changes, it is allows to insert photos and videos recorded from the investigated sample of ejaculate into the report.
- AFS-500, basic kit:
  - Case unit
  - Software
  - Cuvettes

MDP-NS-02

The A daily monitor of blood pressure and PR.
- It is designed for automatic measurement of systolic, diastolic, an average blood pressure, and pulse rates (PR) in daily activity conditions of the person during a long time intervals (about three days).
- Low level of noisiness and individual automatic selection of a level of inflating of air in the cuff, provide the maximal comfort for patients and high quality of diagnostics.

Features:
- Method of blood pressure measurement:
  - oscillometry (first variant)
  - oscillometry and auscultatory (second variant)
- Accuracy of blood pressure measurement accordingly to the requirements of international standards AAMI/ANSI (USA) and BHS (UK)
- Range of measurement of pressure in automatic mode - from 20 up to 280 mmHg.
- Record of more than 300 measurements (results of monitoring can be stored in memory for a long time even without accumulators)
- Ease and simplicity of control (adjustment and operation of the device is done by only one button: monitoring is accompanied by sound and light indication)
- Monitor can work without its programming from the personal computer with the use of default settings
- Ideally for measurement of blood pressure and pulse inof in children and adults

- Tester for the accumulator
SpiroS-100
Independent spirometer - spirometer
Main features:
- Modes of investigation: lung vital capacity, functional lung vital capacity, maximal pulmonary ventilation
- High accuracy and stability of work of the measuring channel
- Minimal resistance of breath and small volume of "dead space"
- There is no need for heating of the converter of air stream, simplicity of its disinfection
- Mode of drug test

Features:
- Automatically performs measurement and calculation of the most informative parameters of external respiration functions
- Calculation of due values of external respiration according to R.F. Klement's standards, ECCS, Knudson
- Performing drugs tests: opportunity of saving of spirometry results in the memory of the device, prior use of investigated drug and comparison with results of spirometry after application of the drug
- Design of the device provides high stability of parameters of a measuring path parameters
- Regular accumulator provides not less than 10 hours of independent work of the spirometer

SpiroS-100, basic kit:
- Spirometer
- Converter of air stream
- Set of holders
- Thermal paper
- Nose clip
- Adapter for mains

UHF 60-Med TeKo
The A device for UHF-therapy with step adjustment of power is designed for local exposure to an electric or a magnetic field of ultrahigh frequency.
- It is applied in therapeutic, neurological, surgical, psychiatric, obstetric-gynaecologic clinics and in other medical institutions.

Features:
- Modern element basesystem elements
- Flexible electrode holders combined with conductive feeders
- Modern design
- Relatively small weight and dimensions of the device

UHF 60-Med TeKo, basic kit:
- Electronic Unit
- Feeder-electrode holder (2 pcs.)
- Leads, d=120 mm (2 pcs.)
- Leads, d=80 mm (2 pcs.)
- Leads, d=36mm (2 pcs.)
- Indicator of presence of HF field
UZT

Device for ultrasonic therapy UZT-Med Te Ko

It is designed for generating ultrasonic mechanical fluctuations and their influence on local sites of the body.

Field of application: physiotherapy, cosmetology.

Purpose:

In medical and cosmetology institutions for medicinal and prophylactic purposes.

For treatment skin diseases of internal organs, musculoskeletal system, and nervous system.

Features:

- Modern element basesystem elements
- Control of contact with patient’s body
- Convenient control menu with TFT-display
- Modern design
- Relatively small weight and dimensions of the device

Med Te Ko," basic kit:

- Electronic module
- Oscillators IUT 0.88-1.01f (2 pcs.)
- Oscillators IUT 0.88-4.01f (2 pcs.)

Portable deivce for d'arsonvalization ELAD-Med Te Ko

It is designed for medical prophylactic massage by pulse alternating current of average frequency in the form of high-voltage electric discharges.

Field of application: physiotherapy, stomatology, cosmetology

Features:

- Portability
- Gas-filled long-lasting leads
- Ergonomic
- Modern design
- Simplicity and reliability during operation

ELAD-Med Te Ko, basic kit

- Device
- Mushroom lead
- Punctuate lead

- Comb lead
Transesophageal and endocardial pacemaker EZOTEST

Purpose:
- Revealing the any latent coronary deficiency
- Estimation of the reserve of a myocardium
- Determination of the functional condition of sinus node
- Determination of the character of sinoauricular and atrioventricular conduction
- Research of the functional condition of various sites of conducting system of heart conducting systems
- Induction and relief of supraventricular disorders of a rhythm in order to specify their electrophysiological mechanisms
- Selection of effective antianginal and antiarrhythmic therapies

Features:
- Automatic setting of mode and rhythm after at turning switching on the device
- Regulator of amplitude allows to increase smoothly, and if necessary sharply reduce tension
- Minimal discomfort and distortions of EKG at stimulation of auricles
- Automatic light and sound indication of the category of the accumulator
- Simplicity of control and modern design
- Protection against short circuit in esophageal lead

Ezotest, basic kit:
- Pacemaker
- Network cable
- Lead cable

Electroencephalograph Mitsar EEG-202

Purpose:
- Registration and the analysis of quantitative EEG
- Registration and the analysis of additional signals on polychannels
- Work with acoustical, visual and cognitive generated potentials
- Long synchronous EEG-video monitoring
- Diagnostics of epilepsy and sleeping disorders
- Biological feedback by EEG channel
- Polysomnographic researches
- Analysis of superslow activity

Additional features:
- Portable light-emitting diode photostimulator
- Phonostimulator with loading sounds
- EEG-helmets ElectroCap for 19 channels EEG
- Synchronous EEG-VIDEO monitoring
- Software BrainLoc
- Software BOS (BrainTuner)
- Software for investigation of disorders of heart rhythm (cardiorythmography)
- Normative database of spectrums, coherence and generated potentials (7-60 years)
Electroencephalograph Mitsar EEG-03/35-201
- Digitally computer-based 19 or 21 channel electroencephalograph with an internal power supply for recording, ordering, processing and storage of EEG investigations using stationary or portable computer, for work in complex under varied conditions without a shielded room.

Purpose:
- Recording and the analysis of quantitative EEG
- Work with acoustical, visual and cognitive generated
- Long synchronous EEG-video monitoring
- Diagnostics of epilepsy and sleeping disorders
- Biological feedback by EEG channel

MITSAR-EEG-201, basic kit:
- 19 or 21 converter of bioelectrical signals
- Tripod for converter of bioelectrical signals
- Portable light emitting diode photostimulator
- Bridged or cap-type EEG leads
- Helmets, grids for installation of EEG leads
- Software EEG-200 on CD (band filtration, peak, frequency, spectral analysis with topographical mapping of spectrums)

Additional features:
- Permanent photostimulator on tripod
- Phonostimulator
- EEG-helmets ElectroCap for 19 channels EEG
- Extended version of Win EEG software for work with generated potentials
- Synchronous EEG-VIDEO monitoring
- Software BrainLoc

ELECTRORETINOGRAPH
- Complex system for registration recording of bioelectric activity of the retina and brain.
- Scopes: ophthalmology, neuroophthalmology, neurosurgery, neurology, therapy, endocrinology, haematology, toxicology, paediatrics

Features:
- Registration Recording of various types of electroretinogram (standard ISCEV)
- Opportunity of performing stimulation by flash, light-emitting diodes, pattern-stimulator
- Non-standard techniques of researches:
  - Local electroretinogram on red, dark blue and green stimulus
  - Electroretinogram-investigation depending on intensity of stimulus
  - Electroretinogram-investigation depending on duration of stimulus (ON-OFF)
- Registration Recording electroretinogram in wide big range of angular sizes of stimulating light (approximate visual acuity)
- Keeping database of patients

ELECTRORETINOGRAPH, basic kit:
- 6 channels amplifier
- Original electrodes for electroretinogram (a lens-sucker with white, red, green and dark blue light-emitting diodes; Gancfeld-lens, light-scattering, for maximal electroretinogram; piliform electrodes rods-hooks which are not deforming the signal, for a pattern-electroretinogram and for registration recording of electroretinogram of children)
- Photostimulator
- Pattern-stimulator on an adjustable rack
- Computer with laser or jet printer and the monitor
- Software under their Windows environment
- Workplace of the doctor
- Set of accessories
ELESKULAP Med TeKo

Purpose:
- Promotes blood circulation, metabolism processes, simulation of muscular activity
- Improves functional conditions of vegetative nervous system
- Other analgesic effect

Field of application:
- Physical medicine
- Exercise therapy
- Orthopaedics
- Out-patient treatment of patients with a pain
- Sport medicine
- Cosmetology

Main features:
- Opportunity to generating practically any operating modes, in electrotherapy and stimulation of muscles
- Modern microprocessor techniques
- Modern element base
- Convenient indicator panel for programming and displays of current parameters
- Modern design

ELESKULAP-Med TeKo® basic kit:
- Electronic module
- Leads
- Collar accordingly to Shcherbakov
- Lead "Mask" RTS 68

LTD «Макена-Мед»
3/5 bld.5, 4-th Syromyatnicheskiy per., Moscow, 105120
+7 (495) 698-51-03, 917-10-70, Fax: +7 (495) 698-51-41,
info@makena-group.com
www.makena-group.com
First-aid treatment means

Drag stretchers HB-01

Carrying and transporting injured people on the grass, snow ground. Collapseable dismountable rack board with headrest and blanket to secure injured people inside.

Inflatable mattress for immobilisation МВИ-01

Immobilisation in cases of spinal injury and femoral bone fracture. Paediatric and adult.

Inflatable mattress for immobilisation МВИ-02 “The Cocoon”

Immobilisation in cases of spinal injury, femoral bone fracture, pelvic bone fracture, multiple injuries, internal bleeding. Paediatric and adult.
Transversely and axially collapsible stretchers НПЦ

Moving and transporting injured people.

Splint Stretcher ЩИ-01

Patient immobilization and transport after spinal injuries

Foldaway rack stretchers for immobilization НИРС-01

Moving and immobilization injured people after spinal injuries and injuries of lower extremities. Allows taking out the injured from places of difficult access.

Foldaway splint apparatus ЩС

Immobilization of the cervical and thoracic area of the spine, thigh and lower leg.
Set of transportation vacuum splints КВСТ-01

Immobilization of the cervical area of the spine, arm, thigh and lower leg. Paediatric and adult.

Splint for immobilization of thigh with traction Diterichs type ШД-31

Transport immobilization of lower extremities with elements of femoral traction for the injured with fracture of thigh and lower leg.

Set of ladder type transport splints КШП

Arm splint, leg splint.

Stretcher strap ЛН

Transporting of injured people (by one or two bearers).
Set of cardboard, flat-packed, single-use transport splints КЭШТ

Instant splints making for immobilization of the cervical area of the spine, forearm, lower leg and thigh (with femoral traction). Allows administration of instant assistance to several injured people.

Search and Rescue sleds «Akia» CCA-31

Transporting injured people downhill in snow-bound and mountain situations
Set of transportation neck braces KUBT

Immobilization of the cervical area of the spine, four sizes, paediatric and adult.

Set of collapsible transport splints KUTC

Arm splint, leg splint, sling, paediatric and adult.

Frameless stretchers НП-02

Transporting injured people, fitted with adjustable shoulder materials for transporting the injured in the sitting position.

Stretcher Rag KН-01

Quilted bed with soft padding and blanket with zip closures, if required may be used for transporting the injured both in sitting and lying position.
Foldaway dressing table **HCO.CP-01** (basic kit)

- **HCO.CP-01(k1)**: basic kit + handholds + sheet holder
- **HCO.CP-01(k2)**: basic kit + feet holds + sheet holder
- **Dimensions (mm)**: 1900x560/705/955, when folded away — 1080x550x230
- **Weight (kg)**: 22.0
- **Bed load carrying capacity** — 150 kg

Foldaway examination couch **HCO.KC-01**

- **Dimensions (mm)**: 1800x515x558,
  when folded away — 1080x515x200
- **Weight (kg)**: 15.0
- **Bel load carrying capacity** — 150 kg
Paramedic defibrillation equipment НИСП-02

- Intubation kit, hand-operated air sac for artificial respiration, equipment for infusions and injections, storage bag for 74 ampoules, bandaging materials, blood-staunching dressings, disinfectants, instruments, rescue blanket. Framed bag with foldout, adjustable work surface.

Paramedic defibrillation equipment НИСП-04

- Kit for intubation and tracheotomy, hand-operated air sac for artificial respiration, storage bag for 74 ampoules, portable suction pump with tapered end fitting, bandaging materials, blood-staunching dressings, disinfectants, instruments, rescue blanket. Framed bag.

Paramedic defibrillation equipment with artificial respiration set НИР-01

- Operated artificial respiration unit on a removable frame, hand-operated air sac for artificial respiration, kit for intubation and tracheotomy, equipment for infusions and injections, storage bag for 74 ampoules, storage bag for 20 ampoules, portable suction pump with tapered end fitting, frame backpack with detachable inner bag, instruments, rescue blanket.
- Kit design:
  - comes in a framed bag with foldout work surface
  - frame rucksack with swing panels and anatomic suspension; chest size and length can both be adjusted.

Doctor’s first aid kit НВСП-01

- Storage bag for surgical instruments, bandaging materials, blood-staunching dressings, disinfectants, instruments, equipment for infusions and injections, pulsimeter with phonendoscope.
- May be fitted with collapsible drip stand.
- Framed bag with work surface, detachable storage trays for 100 ampoules and 4 bottles.
Set of equipment for administering urgent medical aid before hospitalisation НИЭМП-01 (up to 30 people)

- Bandaging materials, blood-staunching dressings, disinfectants, equipment for intubation, immobilisation equipment, instruments, equipment for intubation and injections, rescue blanket, blood pressure monitor.
- Frame rucksack with detachable inner bag.
- Straps and rear of the rucksacks are anatomically designed (adjustable to size and length).

Doctor sleeveless jacket НИТ-01.1мр

- Bandaging materials, blood-staunching dressings, disinfectants, equipment for intubation, immobilisation equipment, instruments.
- Twelve pockets for medical supplies, one suspended pocket for medicines in aerosol spray-can, two inner pockets - for ampoule bag and for documents. Chest size and length can both be adjusted.

Sleeveless military medical jacket НИТ-01мр

- Bandaging materials, blood-staunching dressings, ALV mask, immobilisation equipment.
- Eight pockets for medical supplies, storage trays for 9 unit-dose syringes, pockets for ammunition, arms, radio and documents.
- Chest size and length can both be adjusted.

Emergency paramedic aid kit in medical bag НИЭМП-01.3

- Bandaging materials, blood-staunching dressings, disinfectants, immobilisation equipment, instruments.
- Detachable and outer pockets. Detachable shoulder strap may be used as stretcher strap.

The bag for a gunnery orderly

- Bandaging, binding materials and blood-staunching dressings, ALV mask, slippers, storage trays for 15 unit-dose syringes, shoulder strap and belt.

Set of equipment for emergency medical care for special mission units НЭПС-01пс

- Bandaging, blood-staunching dressings, antistunming materials and disinfectants, artificial respiration equipment, surgical instruments, immobilisation equipment.
- Rigid storage trays for ten unit-dose syringes.
- Compact frame rucksack of anatomic design (adjustable to size and length), detachable shoulder strap.
Plants of the UZOLA family are intended for purification, aftertreatment and disinfection of water in compliance with SanPin 2.14.1374-01 Potable Water.

Certificate of Conformity GOST R No POCC RU.08.20.008:1999 22.03.2007 17.03.2009
Conformity certificate No POCCRU 0001.03 346-H000/00, issued by Emergency Control Ministry (EMERCOM) Russia on 29.07.2005.
Packed No 2209328 for the invention of water purification and disinfection method (Priority 16.02.2001).

Features:
- purification and disinfection of water from any natural sources, boreholes, wells as well as water pipelines
- no need for external power source
- no need for commissioning and qualified service personnel
- low cost of one liter of purified water with guaranteed quality

Design and principle of operation
The plant consists of filter element, base frame and plumbing fixtures with mechanical prefilter.
The mechanical prefilter clears water from coarse suspension.
The filter element is column-type, filled with combination of granular and fibrous sorbents and consists of a line of chambers.

Water is supplied to the filter from bottom to top. The filter element design makes water flow path longer thus increasing the time of water contact with charge, which contributes to finer purification and disinfection.
Depending on the quality of source water the plants may be supplied with additional filter elements ensuring better water purification with regard to the required parameters.

Materials used in manufacturing of the filter element comply with the list of Materials, Agents and Small-Scale Purification Arrangements Allowed for Use in Utility and Drink Water Supply Practice by the RF State Sanitary and Epidemiological Supervision Committee.

Maintenance
The plant provides for multiple reactivation of the sedimentation chamber by water return flow.
Operation conditions: ambient air temperature, °C from +5 to +40, source water temperature, °C from +5 to +30.

Purification and disinfection performance
<table>
<thead>
<tr>
<th>Controlled parameter</th>
<th>Purification rate, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>100</td>
</tr>
<tr>
<td>Opacity</td>
<td>85</td>
</tr>
<tr>
<td>Suspended matter</td>
<td>100</td>
</tr>
<tr>
<td>Permanganate demand</td>
<td>90</td>
</tr>
<tr>
<td>Residual active chlorine</td>
<td>100</td>
</tr>
<tr>
<td>Nitrogen-bearing</td>
<td>96</td>
</tr>
<tr>
<td>Iron</td>
<td>96-98</td>
</tr>
<tr>
<td>Heavy metals</td>
<td>96-98</td>
</tr>
<tr>
<td>Bacteria, viruses, parasites</td>
<td>100</td>
</tr>
</tbody>
</table>

Product
Utros B 4-249-80 L2
Series ____________________

Water supply method
(A- independent, B- pipeline)

Number of purification stages ____________
Capacity, l/h __________________________
Lifetime capacity, m³ __________________
Version ______________________________

**Self-contained plants**

**Uzola A4-40-30**
- Capacity (l/h): 40.0
- Lifetime capacity (l): 30,000
- Dimensions (mm): 250 x 300 x 1400
- Weight (kg): 07.0

The filter element is fitted with source water tank. No connection to water pipeline is required. Water is gravity fed to the plant from the source water tank or brought in by a manual or mechanical plant.

Application: in locations far from central water supply systems — country houses, agricultural lands and forests, bus stops and stations etc., as well as natural and man-made emergency elimination zones.

**Pipeline plants**

**Uzola B4-60-20**
- Capacity (l/h): 60.0
- Lifetime capacity (l): 20,000
- Dimensions (mm): 380 x 300 x 620
- Weight (kg): 22.5

The filter element is fitted with control panel and plumbing fixtures.

Application: treatment of pipeline water in household conditions, catering locations, health care institutions, kindergartens, schools, universities, sports centers etc.

**Uzola B4-209-70**
- Capacity (l/h): 206.0
- Lifetime capacity (l): 70,000
- Dimensions (mm): 500 x 280 x 1770
- Weight (kg): 60.0

**Multifunctional pipeline plants**

**Uzola B4-129-40**
- Capacity (l/h): 129.0
- Dimensions (mm): 540 x 300 x 670
- Weight (kg): 99.0

R-module

**Uzola B4-240-86.02**
- Dimensions (mm): 540 x 300 x 620
- Weight (kg): 99.0

**Uzola B4-310-30.03**
- Dimensions (mm): 540 x 300 x 1240
- Weight (kg): 69.0

Composition of Uzola B4-129-40 (dimensions, mm: 540 x 300 x 670, weight, kg: 99.0) and any number of resource-modules (dimensions, mm: 540 x 300 x 620, weight, kg: 49.0).

R-module (R-module) is a filter element on a base frame serving for the expansion of multifunctional systems and increasing system operation capacity by 120 l/h and lifetime capacity by 40 tons. Modules can be boosted together in three positions: by length (L), by breadth (B) and by height (H), which contributes to plant installation in crowded locations.

Application: treatment of pipeline water in household conditions, catering locations, health care institutions, kindergartens, schools, universities, sports centers, cottages etc.
Our company makes up and supplied mobile medical units for:
- military hospitals;
- hospitals of Emergency Control Ministry, including airborne ones;
- mobile medical detachments;
- autonomous camps.

Types of medical care:
- pre-hospital care
- first medical aid
- qualified aid
- special aid

The units may based on:
- vehicles
- railway transport
- aircraft
- as well as tents, container bodies of permanent and variable volume and prefabricated pneumatic frame structures.

Purpose of units:
At peacetime – medical care provision to population in emergency situations, natural, man-caused calamites etc.
At wartime – medical care provision to the armed forces, as well as to civilians affected by military action.
Depending on the target the units are divided into surgical, therapeutic, neurological, multipurpose, sorting evacuation etc.
The units are additionally completed with domestic inventory, communication and warning systems, self-contained life support systems: power supply, heating, air conditioning, ventilation, water purification systems.