

NLS - analysis systems

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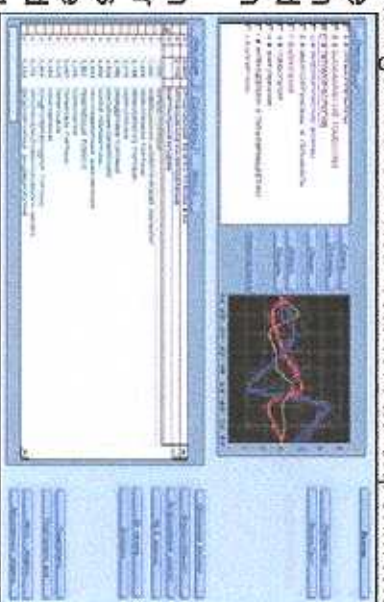
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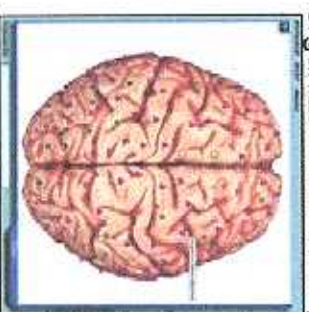
The Institute of Practical Psychophysics has produced analog-free investigation equipment that enables to trace any states of biological object according to a change in the wave characteristics of the body's tissues, individual cells, chromosomes and even separate ferments and hormones. Non-linear analysis systems (NLS) are the most advanced information technologies that can now, at the outset of the century, be considered the most remarkable and advantageous accomplishment of modern natural science. The diagnosis equipment based on the spectral analysis of vortex magnetic fields of biological organisms is quite unique and has no analogs in the world. Numerous experiments performed at the Institute of Practical Psychophysics confirm a close relationship between vortex magnetic fields and biological systems with these fields being used in biological systems as a means of extra - and intracellular interaction. The vortex magnetic fields plays an important part in information transfer and interaction with biological systems.

How do biological systems recognize and isolate the necessary information from the background noise and in what manner do extra- and intracellular communications take place? The research on energy fields around plants and animals done at the Institute has brought to the conclusion that there exists an extremely weak low-frequency vortex magnetic field around biological systems. In trying to figure out the world of energy fields of living organisms we drew close to the comprehension of the biofield phenomenon which people have known from time immemorial, with some of the evidence found in the Yajur - Veda and traditional Chinese medicine.

The scientific discoveries underlying this method are a technological addition to the centuries-old Oriental medicine based on energy conceptions of acupuncture as a means of the biological system control. If we turn to the Chinese meridian system we will learn of the mysterious tsi flux which in energy way reminds us of coherent photon flux. Experiments on rabbits showed that animals, just like man, have a system of extremely fine tubular structures (about 0.5 to 1.5 micron in diameter). American scientist B. Kim succeeded in making a discovery according to which the terminal points of an acupuncture meridian were found out to reach the cell nucleus. There are a great many means to influence the meridian system for a therapy purpose but their effect is not great enough. According to the Theory of quantum

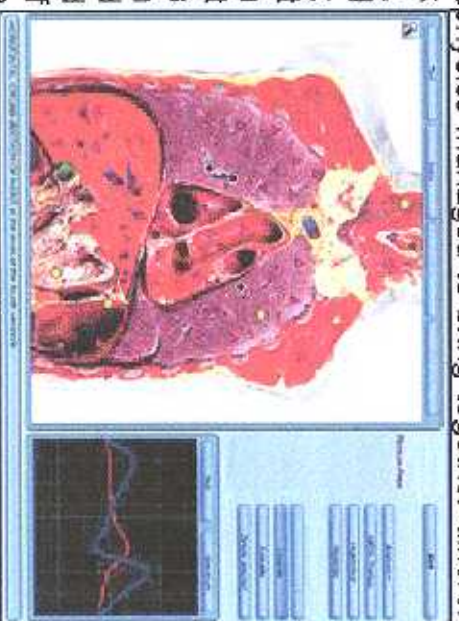


entropy logic the information exchange in any systems occurs distantly, associatively and selectively due to quanta of electromagnetic radiation which have energy equivalent to the energy breaking down the bonds of the system's elementary structure. The principles of the Theory of quantum entropy logic give grounds to assert that biological systems with existing pathologies there arise unstable (metastable) states in which make the system's destruction much more probable. The metatron 'Oberon', that underlies the implementation of the investigation system, functions according to the principle of amplification of the initiating signal with the disintegration of metastable systems involved.



In terms of physics the metatron is a system of electronic oscillators resonating at the wavelength of electromagnetic radiation whose energy is equivalent to the energy breaking down the dominant bonds that maintain the structural organization of the organism under investigation. The magnetic moments of the molecular currents, affected by external physical fields, lose their initial orientation which causes disalignment of the spin structures of delocalized electrons of admixture center of cortex neurons; that, in turn, gives rise to their unstable metastable states whose disintegration acts as an amplifier of the initiating signal. The hardware-software complex developed at the Institute of Practical Psychophysics enables to produce a preset bioelectrical activity of brain neurons, with this activity as a background it becomes possible to selectively amplify signals hardly detectable against the statistical fluctuations and isolate and decode the information they contain. In a way the apparatus 'Oberon' takes bearings of this radiation just where it originates in order to then decode and display it on the computer screen where a virtual model of the organ is produced in certain colors. If, following the rules of quantum chromokinetics, we represent entropy values of any system as spectrum colors the tints will change from light yellow (minimum entropy values), through orange to red and purple, nearly black (maximum entropy values). More accurate theoretical calculations done by means of a computer enable to single out a number of stationary states corresponding to a certain entropy potential and selectively interacting with the spectrum of electromagnetic radiation. Computer models can give physicians a threedimensional projection of internal organs foreshortened as desired. Colored marks that are placed upon the picture make it possible for the physician to determine the site of a pathological process on the organ's model. By comparing the range of colors of the marks and their arrangement on the organ's computer model and also dynamics of their change with time one can judge how the processes of disintegration of biological structures go on and make health prognoses. In order to define a pathology area the physician goes on investigating separate models of organs on continually decreasing scale produced on the screen by the computer until he or she localizes a pathology nidus to degree of accuracy. It's for the first time that the most advanced information technologies in the field of active homeostasis control have been introduced into the world market. The research workers of the Institute of Practical Psychophysics have made a breakthrough in the development of information preparations for the correction of the disturbed balance-homeostasis within the body and the neutralization of environmental and infection pathological agents - they have put a new superactive homeostasis control program on the market. The researchers at the Institute were the first to succeed in producing most effective equipment that is capable of tuning to the frequency of master pulses automatically, without human interference, as well as of detecting and correcting defects and pathologies in organs and body cells on its own through a combination of different

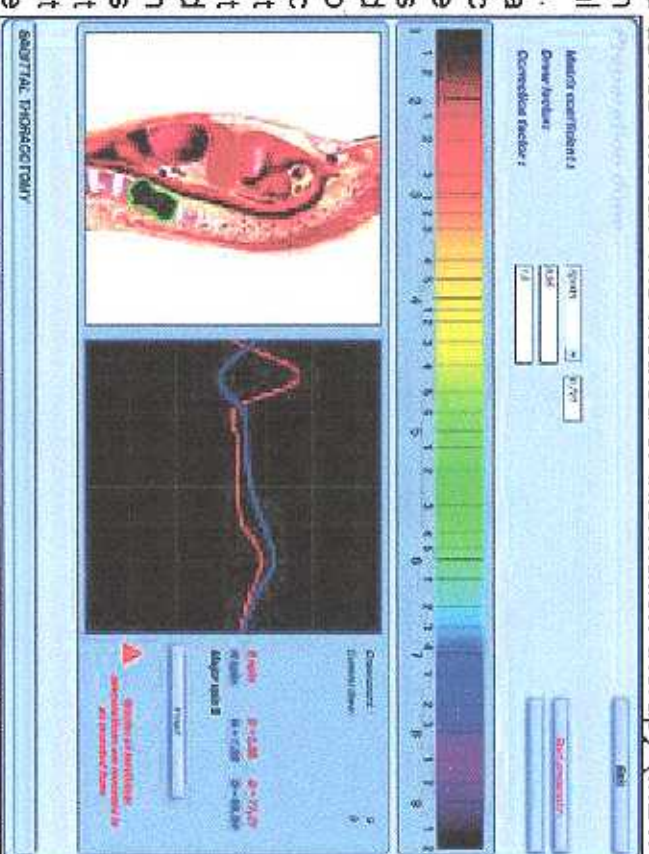
specifically modulated magnetic oscillations recorded on a matrix. The fundamental concept in the development of this equipment was a hypothesis that the human body has an electromagnetic information framework which is able to respond to external radiation. The staff of the Institute of Practical Psychophysics managed to bring together different separate trends of valeology and thus actually make a quantum leap - work out a method of active homeostasis control. They dealt with homeopathy, Chinese acupuncture with its further elaboration by Folle, Morell and Schimmel; the Indian Yajur -Veda and the theory of chakras; spin theory; phytotherapy and other methods. Theoretical and experimental work that made it possible to produce apparatus 'Oberon' - a nonlinear quantum generator was initiated by Nikola Tesla, a man of genius in electronics at the end of XIX century. Later it was carried on by some other scientists who are worth mentioning. J. Lakhovsky, an outstanding French researcher, studied the effect of adiofrequencies on animals' health and the plants condition. American scientist of genius R. Rife conducted research not only on the effect of radiofrequencies but also on the effect of electrical frequencies on the human biofield. In 1950 in Germany R. Folle discovered and worked out a system of electrotesting by acupuncture points of the human body. Unlike Folles' electropuncture diagnosis method in which the energy potentials of organs and systems get measured through biologically active points (BAP) reflecting the body condition indirectly (often with a considerable error), the NLS-analysis method developed at the Institute of Practical Psychophysics makes evaluation of the organ condition directly due to the resonance amplification of radiation of the organ under investigation and to the non-contact taken by means of trigger sensors. Every organ and every cell have their own, distinctive of them only oscillations which are stored in the computer memory and can be displayed on the screen as a certain graph which represents the conditions of the information exchange between the organ (tissue) and the environment. Every pathological process has also an individual graph distinctive of it only. Stored in the computer memory are a great number of pathological processes with a degree of pronouncedness, age, sex and other variations taken into account. After reading the frequency characteristics of the biological object the investigation apparatus can compare the degree of their spectrum similarity to reference processes (healthy, pathology-affected tissues, infection agents) and define the closest pathological process or a tendency to its origin. With combined processes the virtual diagnosis mode enables to make a differential diagnosis of each process. Another wonderful opportunity offered by the NLS-analysis method is medicinal testing. The investigation system has unique opportunities to record frequency fluctuations of any preparation and make a computer comparison at the same moment among the spectral characteristics of all preparations stored in the computer memory (the number may to a few thousands) and the characteristics of the pathological process and thus find out the most efficient remedy. In the light of what was said above any disease can be represented as a disturbance of harmonic synchronization in a biological object. The disturbance may be brought about by different kinds of causes which in some cases, in turn, can be regarded as disharmonizing electromagnetic oscillations that make blocks (noise) and interfere



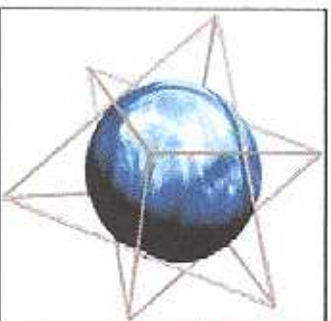
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with normal functioning of the body. One can try to solve the problem of elimination of originating disharmonic oscillations proceed from some laws of physics. Apparently, the most simple way would be to use electromagnetic oscillations with the opposite sign in order that the algebraic sum of disharmonic and inverted electromagnetic oscillations would become equal to zero. Guided by these conclusions, in the mid '70s Dr. F. Morell along with electronics engineer E. Ratchet, invented a method and a device 'MoRa'. The method of information therapy (META-therapy) is a further advancement of the method 'MoRa' in the solution of problems with restoring the body's normal functioning in the cases of acute or chronic diseases. META-therapy is a means to influence the body through a combination of different modulated electromagnetic oscillations emitted from the apparatus 'Oberon'. The scientists of the Institute got interested in the experiments by Prof. S. Smith from Manchester University who proved that water could 'remember' coherent frequencies to whose radiation it was exposed in a variable magnetic field, and in its structure it retains the information about those frequencies for a certain period of time. That enabled us to make an effective correction of the disturbed balance within the body by means of information preparation recorded on a matrix. Information preparations (metazodes) are specific combinations of coherent frequencies found by the computer and are used to get ready-made dosage forms with a directed effect. They are produced by means of the apparatus that transfers the frequency (spectral) information taken from the pathology nidus onto a matrix (water, alcohol, lactose) used in the course of treatment. The effect of metazodes consists in the awakening of the body's hidden reserves. This accounts for a wide scope of influence of preparations and absence of harmful side effects and contraindications when prescribed in parallel with conventional remedies.

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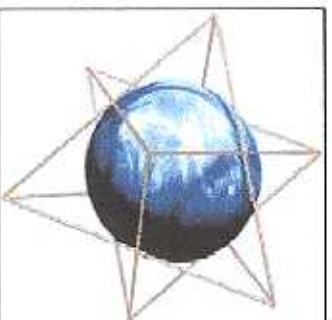
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The principles of operation of the «**OBERON**» apparatus that is related to the class of «brain machines» (metatrons) are based on the basic postulates of the Nesterov-Van Hoven theory of quantum entropy logic.



In accordance with the quantum entropy logic theory the exchange of information between the systems is carried out distally, associatively and selectively, at the expense of quanta of electromagnetic radiation that possess energy adequate to the energy of the disintegration of bonds of the system elementary structure. The principle of the entropy logic theory allows to ascertain that in physical systems, in the course of information exchange, unstable (metastable) conditions occur under which a probability of their disintegration increases significantly.

The intensity of information exchange of two information-exchanging systems A and B increases as the order in either of these systems gets disturbed.

The degree of orderliness of any system is equivalent to the quantity of information it contains; therefore, the order destruction in one of the systems (A) with a parallel transfer of the information to the second system (B) delineates the law of conservation of information postulated by the theory of quantum entropy logic.

The theory of entropy logic established that these statements are true in terms of physics only if A- and B-systems are quantum systems, and the aggregate of A and B parts may be characterized by one quantum state. This stipulates the availability of initially existing information exchange that occurs prior to the destruction of one of the systems and this, within the framework of the entropy logic, combines both parts in a single quantum system since this complies with the effect of Einstein - Rosen - Podolski.

The theory of quantum entropy logic makes it possible to explain many of the details of fundamental psychophysical mechanisms that are involved in the long-distance transfer of information between two objects spaced from one another. The theory reveals mechanisms that

form associativity, information selectivity and other characteristics of an exotic channel of data transfer like this. The apparatus operates on the basis of amplifying an initiating signal at the disintegration of metastable structures. Under the action of external magnetic field magnetic moments of molecular currents in the admixture centers of cortex nerve cells lose their initial orientation, and because of this, spin structures of delocalized electrons get disordered, thus resulting in the occurrence in them of unstable metastable conditions with their disintegration acting as an amplifier of the initiating signal. From the viewpoint of physics the apparatus is essentially a system of electron oscillators (cadistors) resonating at the wavelengths of electromagnetic radiation with their energy being adequate to the energy of the destruction of dominating bonds that support the structural organization of a biological object. Information of biological object specific condition is taken up by way of non-contact method with the aid of a «trigger sensor» developed with the use of new information and microcircuit technologies, this sensor detects slightly detectable signal fluctuations that are emitted from average-statistical noise characteristics of fields and converted into a digital sequence processed with the aid of a microprocessor for transferring via an interface cable to a computer.

If, guided by the rules of quantum chromokinetics, the entropy values of any system is represented as spectrum colors, the hues will be changing from pale yellow (entropy values are minimum) through orange to red and purple, nearly black (entropy values are maximum). More accurate theoretical calculations carried out with the use of a computer make it possible to single out a series of stationary conditions corresponding to a certain entropy potential that selectively interact with the spectrum of electromagnetic radiation.

Comparative analysis of the hues of the color range and their arrangement on the object computer-based model, and also of the dynamics of their change as a function of time, makes it possible to make assessments on how the disintegration processes of material structures go on and to make forecasts about the stability of these structures with time.

Given below is the representation of those principles which, being realized, are the means of functioning of this system as a diagnostic system.

For each variety of cells there is its own specific destructive energy, typical of certain intracellular molecular bonds.

By changing accordingly the radiation characteristics of the electromagnetic generator - metatron (cadistor) it is possible to cause the destruction of bonds of intracellular structures (and associated spin orientation of biomolecular compounds) in the cells of any tissues of an organism.

It is very obvious that the more unstable and, therefore, already damaged state are the tissues under examination, the greater will be the response in compliance with the quantum entropy logic.

In this case scanning frequencies will coordinate the response position, and this, combined with the response value, will outline the general geometry of disturbances built up in the organism. And, since the response is detected at the expense of psychophysical phenomena functioning, we have additionally introduced a series of physical impacts to activate the examinees' brain function and resonance-tune it (visualization of organs being positioned on the computer display, use of associativity principles).

An energy dispatch that breaks the typical molecular bonds that is used in the positioning process, is always coupled with the resonance of corresponding electronic transitions in the cadistor structure. And on the basis of this resonance and the released energy (at the destruction of the spin organization), due to the origination of metastable nonlinear processes in the cadistor structure, quantum excitation occurs that generates the amplification of a response signal emitted by the organism.

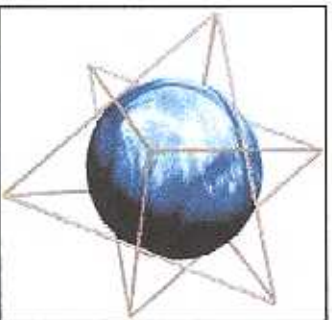
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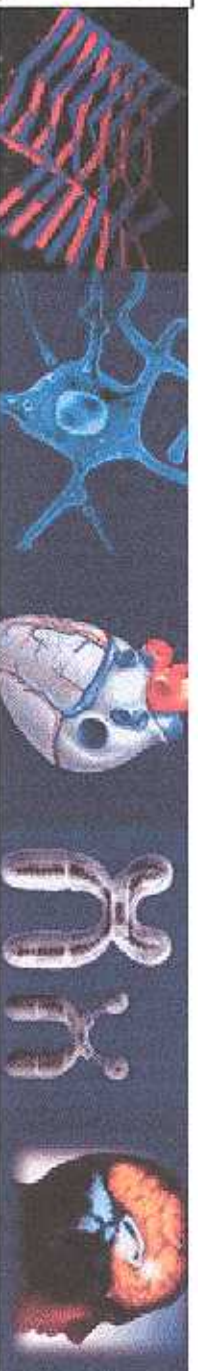
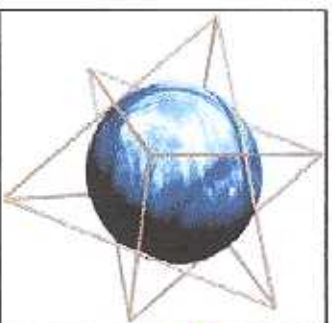
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Device Oberon

Device arrangement and principle of operation

Device design, major parts:
an electronic unit with a three-conductor power supply cord;
software on CD-ROM.

Removable components:

magnetoinductors - right (R) and left (L) encased in headphones;
an infrared scanner;

a resonator;

an interface cable.

Accessories:

a device to fix and adjust the infrared scanner.

Means of packing:

the apparatus, its removable parts and a set of Operational Documentation are supposed to be encased it polythene and packed in a packing suitcase.

The apparatus should be complete with Operational Instructions in accordance with GOST 2.601-95, including:

operational manual;

user's guide on CD-ROM.

Apparatus dimensions, mm: width - 225; length - 180; depth - 65.

Weight of the apparatus in assembly - not more than 2.8 kg.

Magnetic intensity on the surface of the magnetoinductors - 20 mT \pm 1.

Type of modulation in the magnetoinductors' circuit - from 1.8 to 8.2 Hz.

Interruption rate control pitch - 0.1 Hz.

Pulse ration from 0.5 to 95% with a 5% pitch.

Modulation frequency: Low-frequency modulation - 240 Hz. High-frequency modulation - 1.5 - 4.5 GHz.

The sensitive element is a noise-voltage generator (with constructively revised 2F401B diode



Service conditions

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used as a noise source). The element is energized by constant direct current with a value of several microamperes. The current value is selected at the bench in the course of adjustment.

The information signal is picked up off the sensitive element and is passed along an amplification path.

The gain factor of the differential amplifier is not less than 30 dB.

The frequency band for processing information spikes in the noise signal is in the range of 10 to 200 kHz.

The toggle frequency of the shift register is 1.0 ± 0.1 MHz.

Power supply characteristics:

The apparatus operates from AC mains with a frequency of 50 ± 1 Hz and a rated voltage of 220 V, the supply voltage can fluctuate $\pm 10\%$ from the rated value.

The power consumed by the apparatus is under 20 W.

Time characteristics:

Time for setting the operating duty after the apparatus has been switched on does not exceed 30 s.

Time for switching off the apparatus is about 1 s.

The apparatus is supposed to provide recurrent short-time duty with cyclic recurrence - 60 min. in operation followed by a 5-minute break for 12 hours with a subsequent 30-minute interval.

Control unit characteristics:

The control unit consists of a microprocessor unit and a pulse duration modulation circuit.

The interaction of the computer, apparatus and peripherals is determined by a program incorporated in the microprocessor.

The diagnosis procedure is controlled from a keyboard and by means of a mouse.

Requirements for the apparatus software:

The program is supposed to receive control information from the head program from IBM PC via RS232 standard interface and convert it into control signals.

Besides, the program receives information from the peripherals and transmits it to the head program in IBM PC through the standard interface.

The program is materialized and stored in the internal flash memory of the microprocessor (single-chip microcomputer) and comprises:

the main program body;

a program that receives control information;

a program that analyses control information;

a subprogram that produces master pulses;

a subprogram that reloads the real-time timer;

a subprogram that receives information from the noise sequence;

an information output to the head program.

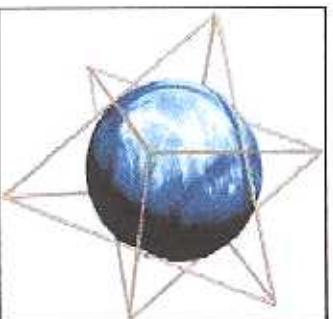
The head program was developed using Borland Delphi programming medium, realized and recorded on IBM PC hard disk and can operate under the operational systems Windows 98/2000/Millennium/XP.

The information used by the program during the operation is stored in Paradox tables and binary files.

The program is secured from unauthorized copying. The program can only be installed and started with the apparatus 'Oberon' switched on.

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Device Oberon

Device arrangement and principle of operation

The device is safe for the patient and the attending staff who are admitted to operate or service it as stated both during the trouble-free operation and in the cases of a failure or preventive maintenance. In terms of electrical safety the apparatus corresponds to the requirements of GOST P 50267.0-92 standard (for class 1, type B goods) and GOST P MEK 601-1-1-96 standard.

The apparatus is supposed to be provided with a power supply plug manufactured as a whole with the power cord. It is to be plugged into an AC power stationary outlet having a contact with a protective grounding conductor of the fixed wiring according to GOST P 50267.0 standard (drgs. 1 and 5, item 52.2).

Technical requirements

The design of the apparatus ensures safety when the power supply is interrupted and then resumed unless the interruption is made on purpose, according to GOST P MEK 601-1-1 standard.

Software versions

Requirements for electromagnetic compatibility.

The level of radiofrequency emission produced by the apparatus with the magnetoinductors switched on meets the requirements of GOST P 50267.0.2, paragraph 36201 and does not exceed the values specified in the standards.

GOST P 23450 and Norms 5B-80 for high-frequency equipment.

GOST 29216 for information technology equipment.

The apparatus meets the requirements for noise immunity in accordance with GOST P 50267.0.2, paragraph 36.202.

The apparatus and its components can reach extreme temperatures according to the requirements of GOST P 50267.0, paragraph 42.

The corrected sound power level produced by the apparatus at a distance of 1 m does not exceed 60 dB.

The materials and coating used for the apparatus do not give off harmful substances and are permitted for everyday use.

Reliable requirements.

According to the effect of possible failure the apparatus should be referred to Class B in compliance with ПД50-707-91.

The average failure-free service time is not less than 3.000 hours.

The average life time till the apparatus becomes unfit for use is not less than 5 years.

The rated probability of continuous trouble-free operation of the apparatus is $P(T)=0.85$ with $T=600$ hours.

Design requirements

Protective and decorative coating of the apparatus ensures corrosion resistance of all units and parts for UHL 4.2 operation conditions according to GOST 15150 and is applied in compliance with the requirements:

- metal and non-metal covering according to GOST 9.301;

- varnish and paint coating according to GOST 9.032, IV or over.

- Electronic unit dimensions - not more than 255x180x65 mm.

- Weight of the apparatus complete with the peripherals - about 2.8 kg.

The apparatus has a connector to be plugged into the serial computer port by means of a standard cable.

The device for installing and fixing the infrared scanner enables to move the scanner with three degrees of freedom and a radius of up to 60 cm.

The design meets the modern requirements for ergonomic aesthetics.

Patent cleanliness has been ensured in the RF, USA, Czech Republic, Germany, Bulgaria, Japan, Korea, Netherlands and Belgium.

Requirements for Technical Documentation.

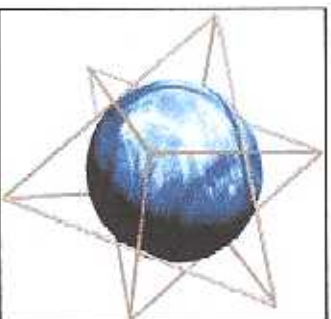
The technical documentation for the apparatus includes:

- project TY according to GOST 2.114-95;

- operational manual according to GOST 2.601-68.

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The apparatus is resistant to changing weather conditions during operation or storage in accordance with

GOST P 50444 standard for YXII class 4.2 enclosure.

In terms of mechanical influence the enclosure corresponds to GOST P 50444 standard, group 2. The external

surfaces of the apparatus are disinfection-resistant according to OST 42-21-2-85 standard.

The apparatus can be transported by any sheltered means of transport, excluding non-heated plane compartments.

The apparatus resistant to:

- mechanical influence according to GOST P 50444 standard for group 2 goods;
- weather conditions according to GOST P 50444 standard for type 5 storage conditions.

Requirements for the engineering staff.

Preventive maintenance and repairs to the apparatus are supposed to be carried out by an electronic engineer.

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