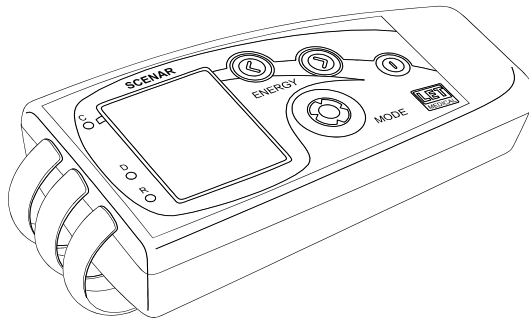


Neuroadaptive Electrostimulator SCENAR-COSMODIC EX715Ag User's Guide



Before operating the device, please read this User's Guide thoroughly, and retain it for further reference.

Neuroadaptive electrostimulators SCENAR-COSMODIC are approved for practical application by the Federal Agency for Public Health and Social Development of the Russian Federation.

Registration Certificate No. ΦC 02012006/4959-06.

Certificate of Conformance No. POCC RU.ME01.B04374.

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INTRODUCTION

Neuroadaptive electrostimulators SCENAR-COSMODIC (hereinafter referred to as “devices”) are basic facilities of state-of-the-art technology for highly effective and medication-free rehabilitation of health and improvement of the quality of life. They provide quick recovery of the body after illness due to focused activation of its inherent reserves.

The devices are used to prevent diseases, increase the body’s available inherent reserves and evoke its latent potentials. They provide better resistance of the organism to various disorders and harmful environment, prevent early aging, and produce a rejuvenation effect.

The action is effected with short-pulse low-frequency signals when the electrodes contact skin. Parameters of the acting signal and time of the procedure are set automatically through the biological feedbacks of the body.

SCENAR-COSMODIC series models are intended for use at home, at medical and rehabilitative institutions, at emergency stations, for first aid on board of ships, airplanes, trains and other transport, in beauty salons for cosmetic purposes (rejuvenation, smoothing out scars, etc.), tissue regeneration, and restoration of health.

ABOUT THIS GUIDE

This User's Guide provides main features, description of the basic elements of the device and their purposes, operation of SCENAR-COSMODIC EX715Ag, as well as typical observations and explanations, which should help the user understand the displays on the screen and effectively conduct therapeutic procedures, make preliminary analysis of the area which is going to be acted upon, determine the necessary procedure time, the most effective position of the patient, choose appropriate energy level, etc.

Depending on each individual case, the displays on the screen can be different and, thus, can be explained differently. Each case may also require various methods and techniques of action. Any questions, which are not covered in this User's Guide, and more details concerning particular cases, theory and practical application of the "LET Medical" devices, and new methods and techniques of SCENAR and COSMODIC therapy are discussed at regular seminars conducted by leading professionals of "LET Medical". For more details about where, when and how you can obtain training at such seminars, see the official web-site of "LET Medical" <http://www.scenar.ru>

The purpose of the present User's Guide is to introduce the user to the main features of the device and help effectively operate the model. This User's Guide does not guarantee any results while operating SCENAR-COSMODIC series model EX715Ag by the users, who have not obtained training at seminars provided by "LET Medical".

READ THIS FIRST

Copyright Notice

Research Laboratory of Medical Electronics “LET Medical” L.L.C. (Taganrog, Russia) is the inventor, patent owner, developer and producer of SCENAR and COSMODIC series models.

"ЛЭТ Медикал"®, "LET Medical"®, "КОСМОДИК"®, "COSMODIC"®, "СКЭНАР"® and "SCENAR"® are trademarks and service marks registered and owned by “LET Medical”.

International patents No.1053715 and No.1181951 in Europe.

“LET Medical” products are under continual improvement and we reserve the right to make changes without prior notice.

The materials used in this User’s Guide are the sole property of “LET Medical”. All rights reserved. No part of this publication may be transmitted or copied in any form whatsoever without the express written permission of “LET Medical”.

SAFETY REQUIREMENTS AND PRECAUTIONS

Before operating the device, please ensure that you read and understand the safety requirements and precautions described below. Always ensure that the device is operated correctly.

Remember that improper use or operation of the device and non-observance of this User's Guide instructions can deprive you of the right to warranty service and cause costly or irreparable damage to the device.

SCENAR-COSMODIC series devices should be used, operated and stored at nominal temperatures of +10°C (50°F) to +35°C (95°F) and relative humidity to 80% at +25°C (77°F).

SCENAR-COSMODIC series devices comply with exposure to mechanical influence requirements of Group 2 of GOST R 50444, with failure effects requirements of class V of GOST R 50444, and with reliability requirements of Class V of GOST R 50444 and RD 50-707. SCENAR-COSMODIC series devices meet the electric safety requirements and comply with GOST 30324.0 for medical electrical equipment with internal power supply, type BF.

Using Applications, Attachments and Accessories

SCENAR-COSMODIC series models are designed to perform optimally when used with genuine “LET Medical” brand applications, attachments and accessories.

You may connect and/or use non-“LET Medical” brand applications, attachments or accessories with these models. However, “LET Medical” makes no warranties concerning, and is not responsible for damages resulting from, connection and/or use of non-“LET Medical” brand applications, attachments and accessories. Connection and/or use of non-“LET Medical” brand applications, attachments and accessories with

SCENAR-COSMODIC series models of “LET Medical” **will result in loss of warranty service** provided by “LET Medical”.

For more details about purchasing the original “LET Medical” applications, attachments and accessories for SCENAR-COSMODIC series models contact your distributor or visit the official web-site of “LET Medical” <http://www.scenar.ru>

Operating the Device

Store this device out of the reach of children and teenagers. Misuse or accidental damage to the batteries could result in serious injury and cause malfunction of the device.

Do not attempt to disassemble or alter the whole device or any part of it, or the batteries. Disassembly or alteration may result in irreparable damage to the device or cause short circuit and fire. All internal inspections, alterations and repairs should be only conducted by qualified service personnel authorized by “LET Medical”.

Do not touch the electrodes with your hands or other sensitive parts of the body when using maximum energy level.

Never touch internal portions of the device that become exposed as a result of damage. This may destroy some functions or the whole device.

Stop operating the device and remove the batteries immediately if it emits smoke or noxious fumes. Failure to do so may result in fire. Confirm that smoke or fume emissions have ceased.

Be careful not to drop or bang the device or subject it to mechanical impacts or shocks, or load. Do not place heavy items on it. Stop operating the device and remove the batteries immediately if it is dropped or its casing is damaged.

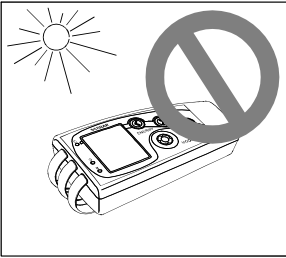


Do not touch the device with wet or moist hands or other parts of the body. Do not allow the device to come in contact with, or become

immersed in, water or other liquids. Do not allow the liquids to enter the interior. If water or other foreign substances enter the interior, immediately stop operating the device and remove the batteries. Continued use of the device may result in fire and cause damage to the device.

Do not operate the device in close proximity to sources of strong electromagnetic, UHF, vibration and other fields. This may cause mistuning, malfunctions or destroy the device.

It is not recommended to use the device in close proximity to sensitive electronics, cellular phones and other equipment. The device may produce noise or cause mistuning and malfunction of such equipment.



Do not use, leave or store the device in places subject to strong sunlight or high temperature. Exposure to intense sunlight and heat may lead to deformation of the casing or cause the batteries to overheat resulting in fire.

Do not store the device in humid or dusty areas.

Do not use substances containing benzene, thinners, acetone and other flammable and solvent substances to clean the casing and electrodes.

Do not deform the electrodes and elements of the plastic casing.

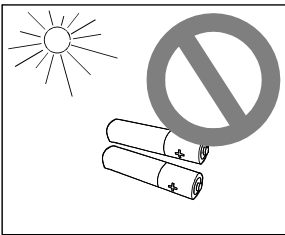
Avoid condensation (water droplets) formed on the surface of the device. This may cause malfunctions or damage to the device. Moving the device rapidly between cold and hot temperatures may cause condensation to form on its external and internal surfaces. You can avoid this by placing the device in warm cloth and letting it adjust to temperature changes slowly (over 2 or 3 hours) before removing it from the cloth.

Stop using the device and remove the batteries immediately if you detect condensation. Continued use may damage the device. You can only resume using the device after the moisture evaporates completely.

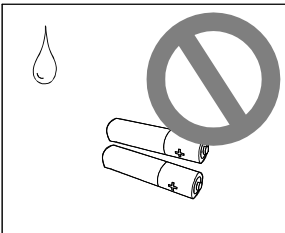
Using the Batteries

We recommend using AAA type rechargeable batteries (preferred), or AAA type alkaline batteries, as power source for the device. Please note that the device performance may decrease a little if you use alkaline batteries.

Do not use saline batteries as a power source for the device!



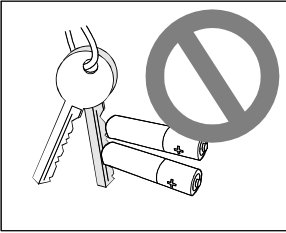
Do not place the batteries near a heat source or expose them to direct flame or heat. Avoid placing them in places subject to direct sunlight or high temperatures.



Do not immerse the batteries in water.

Do not attempt to disassemble, alter or apply heat to the batteries. There is serious risk of injury due to overheating. Immediately flush with water any area of the body – including the eyes and mouth, or clothing – that comes in contact with the inner contents of a battery. If the eyes or mouth contact these substances, immediately flush with plenty of water and seek medical assistance.

Avoid dropping or subjecting the batteries to severe impacts that could damage the casings.



Do not short-circuit the battery terminals with metallic objects, such as key holders. Cover the terminals with tape or other insulators, or use a case to transport or store the batteries.

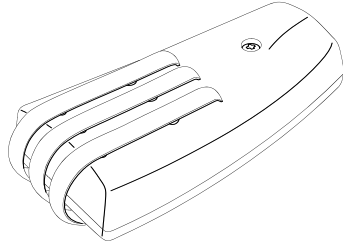
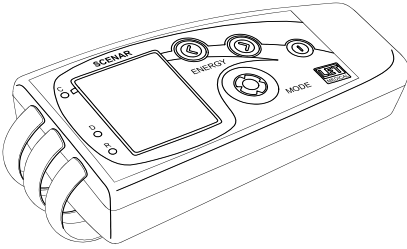
Before you discard a battery, cover the terminals with tape or other insulators to prevent direct contact with other objects. Contact with the metallic components of other materials or liquids in waste containers may lead to fire. Discard the batteries in specialized waste facilities if available in your area.

To charge the rechargeable batteries, use only the battery charger specified by the manufacturer.

When the device is not in use for a long time, remove the batteries from the battery section of the device.

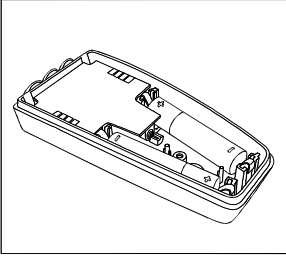
CHECKING THE CONTENTS

Model EX715Ag:



- Device
- User's Guide

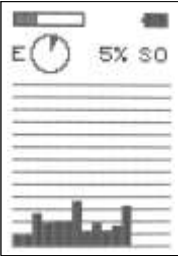
QUICK START



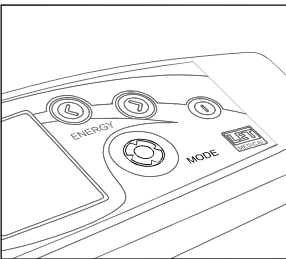
Install the batteries into the battery section of the device. Be sure you observe the polarity!

Switch the device on. To switch the device on, press and release the “ON/OFF” button.

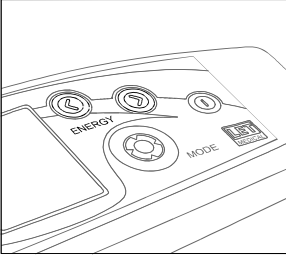
The device will switch on automatically, if you place the electrodes on the skin.



Make preliminary analysis.



Set the action mode.

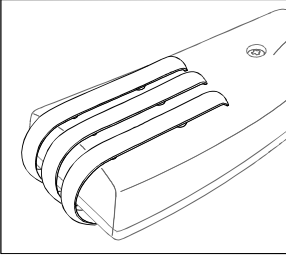


Set the action energy level manually if necessary.

Switch the device off when you finish the procedure. To switch the device off, keep the “ON/OFF” button pressed for about 2 seconds and then release it.

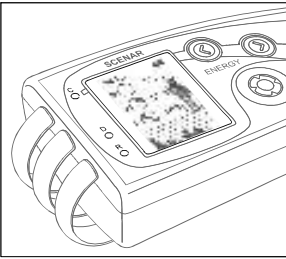
COMPONENTS GUIDE

Electrodes



Model EX715Ag employs a new technology of manufacturing of removable electrodes. The electrodes are made of silver of the 925th standard, which preserves the natural structure of silver. This provides additional healing effect and better penetration of the acting signal during treatment.

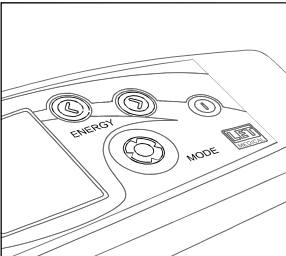
Indication



Graphic gray-shade OLED display shows action modes, action energy, activity of the area being acted upon, dosage, time of action upon the certain area and full time of action, menu, interactive help, and battery charge level. Additional LED and sound indication allows you to approximately define appropriate areas for

action, activation of dynamic adaptation block and proper contact of the electrodes with skin.

Control



You can operate the device with four buttons. They allow you to regulate the action energy level, set the necessary action mode and work with on-screen menu. All other settings are performed automatically.

Casing

The device is encased in a handy and ergonomic “SMART” series casing. Waterproof keyboard and sealants make disinfection and cleaning of the device easy. The casing is made of shockproof (3 mm thick) ABS plastic.

BASIC CONTROL BLOCKS AND UNITS

Dynamic adaptation block

- Allows managing the stimulation process during prolonged use. Automatically regulates actions and pauses between them, through biological feedback. Switches on automatically.

Microbioresonance block

- Detects microvibrations in the process of action and excites them through resonance conditions.

Action depth stabilizer

- Automatically provides optimal focusing of the acting signal.

First-aid module

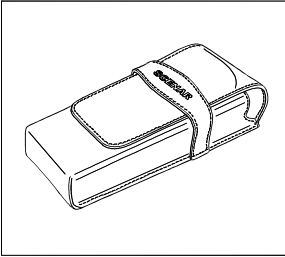
- Forms additional urgent-care pulse packet to act in the region of enlarged capillary network. Allows quicker elimination of edema and speeds up tissue regeneration. The module is activated instantly at switch on after having placed the electrodes onto the skin and switches off automatically.

Reliability system

- Provides short-time protection of the device from overload, short circuit of the electrodes, battery misplacement, etc.

ACCESSORIES

Leather case



The case is made of high-quality genuine leather. It protects the device from damage, dust and dirt during transportation and storage.

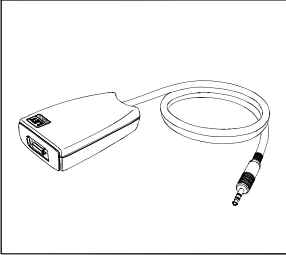
Gold Electrodes

For model EX715Ag you can order electrodes made of gold of the 750th standard (special compound of 75% of gold and 25% of silver) or gold of the 999.9th standard, hardened and structured according to a special technology. Gold provides the best conductivity of electrodes which, in its turn, guarantees deepest and most effective action. Gold is a biologically inert metal for the human body. The silver component in this alloy provides additional healing effect due to its antiseptic properties.

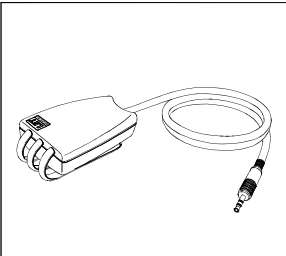
Gold electrodes can be easily installed instead of silver ones.

Remote Electrode Probes

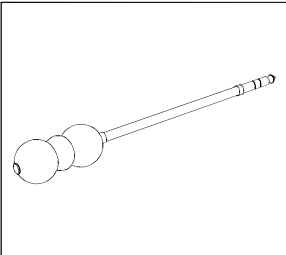
You can attach remote electrode probes to model EX715Ag.



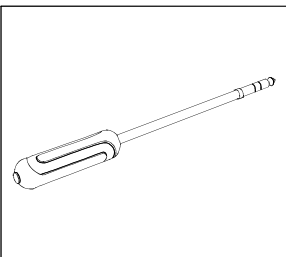
- remote probe with electrodes made of stainless steel is intended for action upon small areas.



- remote probe with silver and gold electrodes is mainly used for treatment of children, especially new-born babies, and for cosmetic purposes



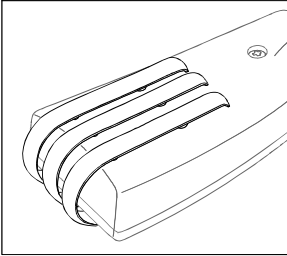
- remote probe with silver electrodes for vaginal action is used for treatment of diseases of genital organs and neighbouring organs and systems.



- remote probe with silver electrodes for rectal action is used for treatment of diseases of rectum, urogenital system, pathological conditions of small pelvis, etc.

ARRANGEMENT AND OPERATION

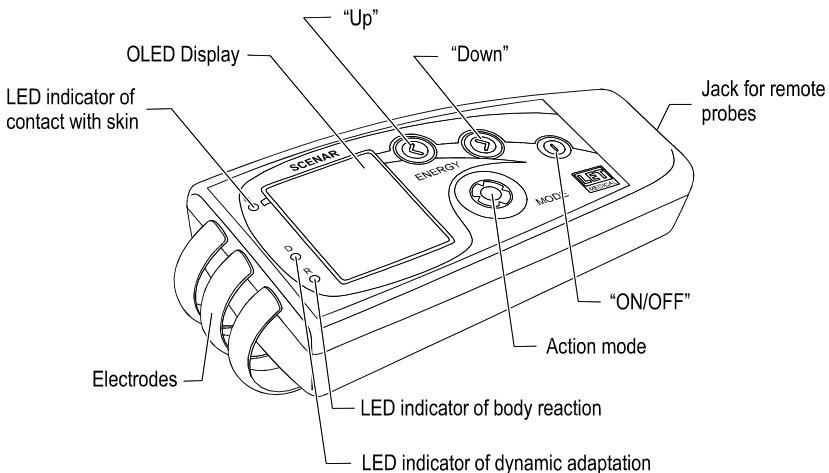
Model EX715Ag consists of the casing and electrodes.



Model EX715Ag has a special construction of removable silver electrodes. It allows taking the electrodes out of the casing (which makes disinfection and cleaning easier) and replacing the silver electrodes with gold ones.

All component parts except the batteries are placed on two circuit boards.

Visual indicators and operating controls are placed on the upper cover of the plastic casing:



A connector allowing attachment of remote electrode probe is placed at the end of the casing.

LED Indicators: C, R and D

Indicators placed under the keyboard provide additional monitoring during action. Flashing LEDs make action control much easier if the display of the device is out of sight.

C is a LED indication allowing you to control contact of the electrodes with skin. It lights up when the electrodes touch skin and is continuously on until the electrodes are removed from the skin surface.

The “C” indicator may not light up in some medical cases or conditions of skin, and when acting upon hairy areas of the body. In this case, moisten the skin or hair with a cotton wool slightly wet with water.

R is a LED indication of body reaction. Frequency of flashing is proportional to the body reaction.

During procedures, indicator “R” provides additional LED indication allowing you to control the action.

D is a LED indication of the dynamic adaptation mode. Indicator “D” lights up and is continuously on at activation of the dynamic adaptation block.

The dynamic adaptation block is activated in mode S1. It allows you to automatically regulate actions and pauses between actions, without removing the electrodes from skin. It is necessary for prolonged actions, when eliminating pain, or when the patient is lying on the electrodes, and in many other cases.

GETTING STARTED

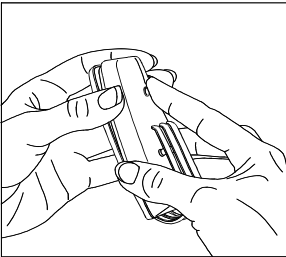
Power Supply

SCENAR series model EX715Ag can only operate on two rechargeable batteries (type AAA) or two alkaline batteries (type AAA).

Do not attempt to use any external power sources, line supplies or other power sources except those recommended in this User's Guide!

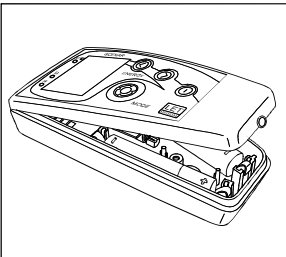
Installing the Batteries

The devices are supplied without any batteries. When you need to install the new or replace the old batteries, open the casing of the device.



1. To open the casing, hold the device so that the upper cover looks towards your palm, without touching it. With one hand hold the sides of the lower cover of the casing in the area of the button and with the other hand – in the area of the electrodes. Push the button with the forefinger of the other hand.

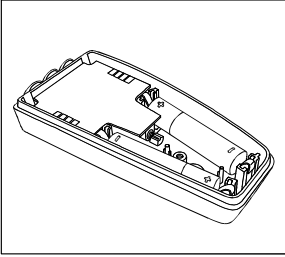
2. Turn the device so that the face panel looks upwards.



3. Carefully lift the upper cover, in parallel with the lower cover of the casing. The upper cover has plastic holders on its inner side, near the display. Be sure you do not damage them while lifting the upper cover.

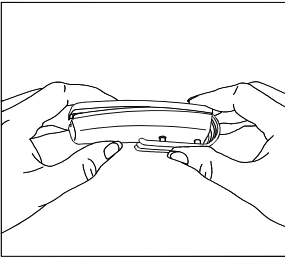
4. Remove the batteries.

5. On the bottom of the battery section you can see a (+) sign. Insert the batteries so that the sign (+) on the battery aligned with the (+) sign on the bottom of the battery section.




Please be careful and observe the polarity!

Model EX715Ag has short-term protection from battery misplacement. But **misplaced batteries may lead to overheating of the protection system**, which may cause damage to the device.



6. To close the casing, with one hand press on the upper and lower cover in the area near display and electrodes. With the other hand press on the upper cover in the area near “ON/OFF” button and push the button on the lower cover of the casing.

Battery Discharge Level

Battery discharge level is displayed with sign  in the upper right corner of the display. Fully filled battery sign means 100% charged battery. Partially filled sign displays 75%, 50% and 25% of charge left in the battery. Empty sign means fully discharged battery.

Note: *When using fresh rechargeable batteries the battery sign may be filled partially but when using fresh alkaline batteries the battery sign is filled completely. This does not mean that rechargeable batteries are undercharged. Such phenomenon is connected with the voltage of fresh galvanic cells being different from the voltage of the fully charged rechargeable batteries. The initial voltage of fresh galvanic cells is typically 3 – 3.2 V, and the initial voltage of the fully charged rechargeable batteries is lower than that of the galvanic cells and is usually 2.4 – 2.5 V.*

Connecting Remote Electrode Probe

Remote electrode probe can be attached to the device through a connector on the end side of the plastic casing.

Remote electrode probe can be connected to the device at any moment it is needed, regardless of whether the device is on or off. LED indicator “C” may light up after connecting a remote electrode probe. The electrodes of the device switch off automatically after connecting the remote electrode probe.

OPERATING THE DEVICE

Switching the Device On and Off

Switching On

The device switches on automatically or with the “ON/OFF” button.

1. The device switches on automatically when the electrodes are placed on the skin. This function is essential when a person needs urgent help and in stress or shock conditions.
2. The device can be switched on manually. For that press and release the “ON/OFF” button.

Switching on of the device is accompanied by a sound signal and “LET Medical” logo appearing on the screen. At this moment the device tests itself. If the testing was successful, you will see a thin horizontal line (under the logo) moving from left to right and disappearing from right to left. After that, operating mode is activated.

Switching Off

To switch the device off, keep the “ON/OFF” button pressed until you hear a sound signal, see a graphic picture of the switch and the display turns off. Release the “ON/OFF” button.

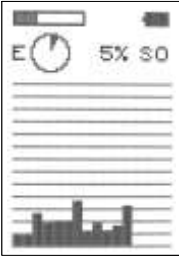
The device switches off automatically if it is not in use for approximately 2 minutes.

Preliminary Analysis

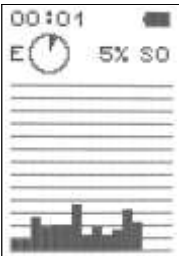
Active Area Search

Active area search function – mode S0 – allows defining the part of the area which the treatment should be started from. During 1 second it measures the activity level of the area part which contacts the electrodes. The electrodes should be kept on the skin without moving.

During active area search the display look as follows.



A horizontal bar being filled in the upper left part of the screen indicates measurement of activity level of the area. The measuring lasts for 1 second. It begins with a single short sound signal and ends with a double short sound signal when the horizontal bar is filled completely.



In the lower part of the screen the activity level of the area part being measured is indicated with a vertical bar at each measurement. Remove the electrodes from the skin when the measurement is finished, i.e. when the horizontal bar in the upper part of the screen is filled completely and you hear a short double sound signal. Wait until the "C" LED goes off and place the electrodes

on the next part of the area. All the measurements (vertical bars) are saved on the screen. It is necessary to measure the activity levels in the whole area which is going to be treated, to find out the most active part.

The higher the vertical bar, the more active is the area part. This way the highest vertical bar in the lower part of the screen indicates the most active area part the treatment should be started from. As a rule, the most active part of the area is represented with a vertical bar which is higher than the neighboring ones by a factor of 2-3 or more.

In active area search mode the action energy level is automatically set at 5%. This energy level is recommended for active area search when conducting prophylactic SCENAR-treatment. If during measuring activity level the vertical bars do not differ in height much, it is recommended to increase the action energy level, but the sensations should not be painful.

When conducting SCENAR-therapy for treatment of various diseases it is recommended to increase the action energy levels in active area search mode S0, but the sensations should not be painful. This allows defining the most active area part more effectively.

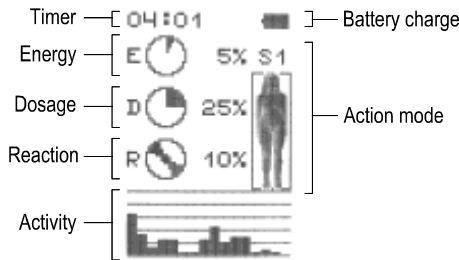
Note: *Even during 1 second of the measurement of the activity level the device produces effect of action upon the body. That is why, when measuring the activity level on the same place again the height of the bar may differ.*

Active area search mode can be switched on and off in the menu (For more details see “Menu” section)

Conducting the Procedure

Mode for treatment of various diseases – S1 is activated at switch on of the device. The initial timer displays are 00:00.

In treatment and massaging modes the screen looks as follows:



Timer

Timer displays both time of action upon the particular part of the area and total time of action during the procedure.

Action time upon the part of the area is counted during the whole time the electrodes contact skin. Time of action upon the part of the area is displayed during 2 seconds after the electrodes are removed from skin. After that the timer will show the total time of action during the procedure.

Action Energy Level



Action energy level is displayed with this sign.

When conducting the procedure in S1 mode the minimal necessary action energy level is set automatically individually for each area part. It may vary during action.

Automatic regulation

There are three modes of automatic energy regulation displayed in the upper part of the screen:


A1 – children. This mode is recommended for treatment of children and people with increased sensibility.

A2 – general. This mode is most often used for adults and children from 15 years old.

A3 – intensive. It is recommended for people with dry skin, low sensibility and for treatment of areas with rough skin (for example, sole of the foot).

To set the necessary mode of automatic energy regulation, keep the “MODE” button pressed until the mode changes. The mode of automatic energy regulation you last worked in before switching the device off is saved after you finish the procedure.

Manual regulation

You can increase or decrease the action energy with the help of “up” and “down” buttons. You will see the “hand” sign on the screen then .

Minimal action energy level is 5%, maximal level is 100%. If you quickly press and release the “up” or “down” button the action energy level respectively increases or decreases by 5% each time you press the button. If you keep pressing the “up” or “down” button the energy level will increase or decrease automatically until you keep the button pressed.

If you need to return to automatic energy level set the minimal level of 5% and then quickly press and release the “down” button. Then the action energy level will be set automatically for each part of the area being treated and the “hand” sign on the screen will disappear.

In the active area search mode S0 and in cosmetic massaging modes S2, S3, and S4 the necessary action energy level can only be set manually.

It is important that the patient develops a positive attitude to SCENAR device from the very beginning of the course of treatment. Much depends on how he feels SCENAR-action. Therefore, we recommend using such action energy level, which is most comfortable for the patient. As a rule, action energy level does not influence the result of action very much, but it

can provide additional positive psychological effects upon some patients, who need to feel the action physically.

Children should be treated using minimally sensed action energy levels.

While treating elderly and senile patients, you can use maximal action energy level.

Increased action energy levels are also used for urgent care, resuscitation, quick abatement or elimination of the problem (e.g. pain, shock conditions, frostbite, burn, etc.).

Decreased action energy levels are also used for cosmetic purposes. Sensations produced by decreased action energy level should be comfortable.

Dosage



Dosage is indicated with this sign followed by percentage.

This is a minimal dose of action for the part of the area being treated. When the ball is filled completely and the percentage is 100% this means that the minimal action dose for this part of the area is finished. End of the minimal dose is accompanied by a sound signal. After that you can move to another area or continue acting upon this part of area (in this case do not remove the electrodes from the skin after the minimal dose is finished) until the full dose is complete.

Completion of the full dose is indicated with a sound signal. The picture of a woman on the right side of the screen will start blinking. Full dose means that there was enough action upon this particular part of the area during the procedure, i.e. you do not need to treat it again during the procedure.

If you continue acting after completion of the minimal dose, but do not reach the full dose soon, you can treat other areas but then return to this part of the area and treat it again. If after repeated treatment you cannot reach the full dose again, treat this part of the area at the next procedure.

Body Reaction



10%

Body reaction provides qualitative assessment of the body response upon the action. It is indicated with a sign (the “propeller” spins clockwise) on the screen followed by percentage. The percentage indicates activity of the body during action as compared with the initial activity when the electrodes first touch the skin. Body reaction at first second of action is always 100%. During action the reaction may decrease – the percentage will be less than 100% or increase – show more than 100%. When the reaction increases the “propeller” spins faster, when the reaction decreases – it spins slower.

No reaction or little reaction means that you need to find another, more appropriate area.

Activity of the Treated Area

Vertical bars in the lower part of the screen show dynamics of the body activity each second of action. This makes monitoring the treatment process easier, as the bars show changing of the activity for a period of time. The higher the bar during action, the higher the activity of the body. Changing of the height of the bar is accompanied by sound signal. The higher the bar the more frequent are the sound signals.

Note: *If the “R” percentage and height of the bars showing the activity of the body decrease and keep low for a long time, you can stop the action even before the minimal and/or full dose is finished and treat the next area.*

Choosing the Action Mode

You can set the action mode with the help of the “MODE” button. When you set the action mode the picture of a woman on the right side of the screen is framed the following way:

- mode S1: the whole body,
- mode S2: head, neck and breast area,

- mode S3: middle part of the body,
- mode S4: legs.

The device switches on in S1 mode by default. S1 is a universal mode for treatment of various diseases. It is also used for first aid when eliminating pain, bleeding, burns, edema, hematoma and other first-aid actions.

S2 is recommended for cosmetic massaging treatment on the face, neck, and breast area.

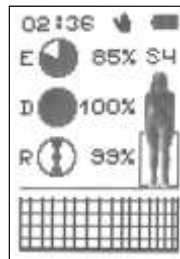
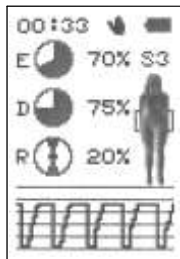
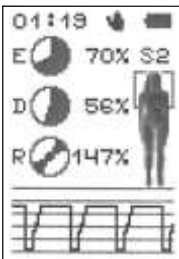
S3 is often used for cosmetic massaging treatment of the middle part of the body (stomach).

S4 is better for cosmetic massaging treatment of buttocks and legs.

To treat the back, S1 is used more often.

Cosmetic massaging modes S2, S3, and S4 can also be used for prolonged action upon the area when treating various diseases. The action mode you choose for this depends on the part of the body the disorder occurs in. For example, if you need to treat something in the region of the neck, it is recommended to use the S2 mode, for prolonged action upon the liver you can use S3 mode, etc.

In cosmetic massaging modes S2, S3, and S4 in the lower part of the screen you will see the action diagram displayed with curves for S2 and S3 or bars for S4 mode. The height of the curve or bars increases when the action energy level is increased.



The recommendations on using action modes described in the present User's Guide should be referenced to but are not obligatory or universal for all cases. You can use that action mode which is most comfortably sensed by the patient, or change the action modes, depending on each particular case. Individual peculiarities of the patient's organism and additional signs showing efficiency of action (in various modes, on various areas, using various methods, etc.) during procedures should be taken into account, as well.

To provide most effective rehabilitation of health, it is recommended first to act upon those body areas that manifest maximal pain. If there is no pain, it is recommended to start action from those body regions where the electrodes stick to skin while you are smoothly moving them over the skin surface.

When using vaginal and rectal-vaginal remote probe, the device automatically switches to a mode, specially adjusted for action upon mucous membranes. Instead of S1, S2, S3, S4 the device works in V1, V2, V3, and V4 respectively. The OLED display shows time of action, action energy level and battery status at the top of the screen. At the bottom of the screen you will see a timer which shows countdown of the time after which the device should switch off automatically. You can set the switch-off time through the menu – "switch-off timer".

UPDATE VIA RS-MMC FLASH MEMORY

Operation algorithms of the device can be updated. The updates are provided at service centers or by manufacturer.

You can also update your device via Internet downloading necessary information from the web-site of manufacturer to the flash memory card RS-MMC. Some additional updates will allow specializing the device for certain nosological forms of diseases or individual order.

RS-MMC card is optional.

To avoid any failures or errors when recording the update, be sure you are using fresh batteries or fully charged rechargeable batteries. Update to the device should be done away from powerful sources of electromagnetic interference.

Do not move, shake or apply any mechanical action to the device during update!

Failure during update may cause damage to the device requiring costly repair.

If you have several versions of update, you can record any of them. In case of need you can record the previous version after you have updated to the new version.

Recording update file

1. Free updates are available at www.scenar.ru or www.scenar-therapy.ru
2. Paid updates (by special orders) are provided by request.
3. To download the update file to RS-MMC card, follow the instructions on the web-site.

Installing RS-MMC flash memory card

1. To install RS-MMC flash memory card containing update file downloaded from the web-site, open the casing of the device. (See “Installing the batteries”).
2. Detach the adaptor from RS-MMC card.
3. Turn the card so that gold contacts on the card look upwards. Insert RS-MMC card into the slot so that the gold contacts look towards the slot.
4. Close the casing of the device.

Activating the update

1. **Install new batteries or fully charged rechargeable batteries into the battery section of the device!** (See “Installing the batteries”).
2. Switch the device on.
3. On the screen you will see: “New version of program found” and below: “N” – no, “Y” – yes.
4. To activate the update later, shortly press and release “ON/OFF” button, selecting “N”. The selected item should be framed. To get back to “N” in case you have selected “Y”, press the action energy decrease button (“down”).
5. To activate the update now, press the button of action energy increase (“up”) selecting “Y”. “Y” should be framed. Then shortly press and release the “ON/OFF” button.
6. On the screen you will see: “Loading...”.
7. Don’t press any buttons or switch the device off during update!
8. After update is finished the device will switch off automatically.

INTERACTIVE HELP



Interactive help is a short guide with pictures which allow you to quickly find appropriate areas for action.

Interactive help is recorded to the RS-MMC flash memory card (see previous section). RS-MMC flash memory card can be ordered additionally when purchasing the device or you can buy it separately and order the interactive help via Internet. In future you can update the help via Internet.

Using the Interactive Help

To use the interactive help, you need to enter the menu and select the help icon. For more details see “Menu” section.

You will see a list of directories on the screen (the number of directories depends on your order).

If you purchased only one directory, you will see the contents of it on the screen right away when you enter the help.

Below is an example of a directory you may see on the screen of your device.

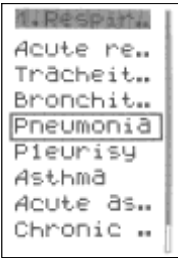
Directory “Systems” consists of three levels:

- list of nosological forms,
- list of diseases of each nosological form,
- pictures showing areas which need to be treated.

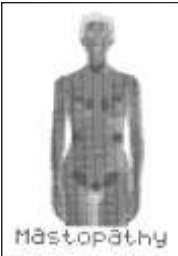


When you enter the “Systems” (quickly press and release the “MODE” button), you will see a list of nosological forms of the diseases. You can scroll the list with the help of buttons “up” and “down”. If the selected name of the nosological form does not fit in the screen width, the full

name of the form will be displayed with a creeping line in 1 second.



To see a list of diseases of the selected nosological form quickly press and release the “MODE” button. You will see a list of the diseases of the nosological form. The name of the nosological form will be displayed on the top of the list. You can scroll the list of diseases with the help of “up” and “down” buttons. If the selected name of the disease does not fit in the screen width, the full name of the disease will be displayed with a creeping line in 1 second.



To see the pictures showing areas which need to be treated for the disease selected in the list, quickly press and release the “MODE” button. You can look through the pictures with the help of buttons “up” and “down”. The pictures are displayed in the order the specified areas should be treated. If the name of the disease at the bottom of the picture does not fit in the screen width, the full name of the disease will be displayed with a creeping line in 1 second.

To get back to the list of diseases, keep pressing the “MODE” button for about 2 seconds until the list of disease will be displayed on the screen. To get back from the list of diseases to the list of nosological forms keep pressing the “MODE” button for about 2 seconds until you see the list of nosological forms on the screen. To get back to the menu or the list of directories keep pressing the “MODE” button for about 2 seconds.

All other directories of the help are used the same way.

You can switch between the treatment mode and interactive help at any moment it is needed. To do that quickly press and release the “ON/OFF” button.

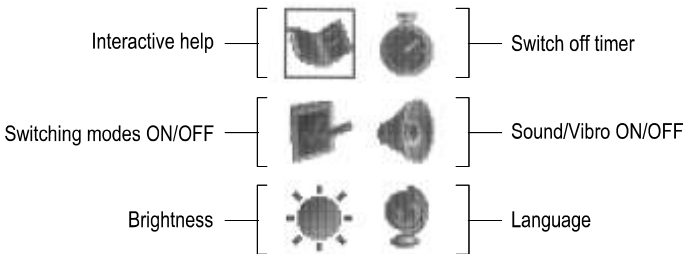
You can enter the interactive help during the action, without removing the electrodes from the skin. To do that quickly press and release the “ON/OFF” button and select the help icon in the menu.

The page of the help you are using at the moment is saved, so you can get back to it from the treatment mode, without removing the electrodes from the skin surface. Action mode settings are saved too while you are using the help.

MENU

Menu allows you to adjust some settings of the device: switch-off timer, active area search and action modes, sound, vibrosignal, brightness, and language.

To change the setting, enter the menu. To do that quickly press and release the “ON/OFF” button. You will see the following icons on the screen:



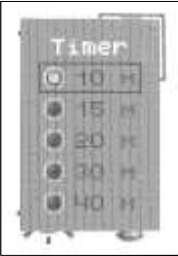
Select the necessary icon with “up” or “down” button. The selected icon will be framed. To enter the selected icon quickly press and release the “MODE” button. To return to the menu quickly press and release the “ON/OFF” button.

To leave the menu quickly press and release the “ON/OFF” button.

Switch off timer



Switch off timer automatically switches the device off after specified period of time. To set the necessary time after which the device will switch off, select the icon in the menu and quickly press and release the “MODE” button. You will see possible variants of the time after which the device will switch off automatically: 10, 15, 20, 30 or 40 minutes, or you can turn off this function, selecting “OFF”. Select the necessary item with “up” and “down”



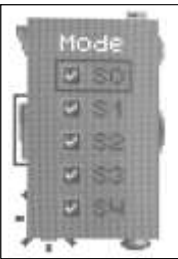
buttons. Quickly press and release the “MODE” button to tick the framed item. To leave the switch off timer and return to the menu, quickly press and release the “ON/OFF” button.

In the lower part of the display (where you see the bars or graphics when treating) the lowest horizontal line will be filled from left to right – it will become brighter than the other lines. This will remind you that you have set the switch-off timer and allow you to see approximately how much is left before the device switches off.

Switching action modes on and off



You can switch the active area search mode S0 and action modes S1, S2, S3 and S4 on and off. To do this, select the icon in the menu and quickly press and release the “MODE” button. You will see a list of action modes. Select the necessary modes with the help of “up” and “down” buttons. Quickly press and release the “MODE” button to tick the framed item. You can select those action modes which are necessary for the procedure and switch off those which you are not going to use. You cannot

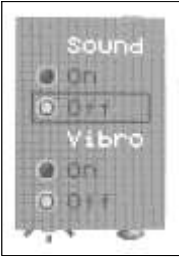


switch off all the modes. In this case S1 mode will be ticked and switched on automatically. To return to the menu quickly press and release the “ON/OFF” button.

Sound and vibrosignal

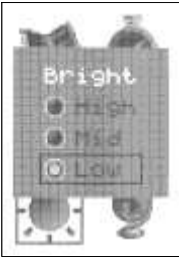


This function allows switching sound and vibrosignal on and off. You can switch off both the sound and vibrosignal, switch off the sound and switch on the vibrosignal, switch on both the sound and vibrosignal, switch on the sound and switch off the



vibrosignal. To do that, select the icon in the menu and quickly press and release the “MODE” button. You will see a list of on/off variants. Select the necessary items. Quickly press and release the “MODE” button to tick the framed item. To return to the menu, quickly press and release the “ON/OFF” button.

Brightness



Setting the brightness level may be very useful when working at different lighting or when the brightness level of the screen decreases with the time. To set the brightness, select the icon in the menu and quickly press and release the “MODE” button. Select the necessary brightness level with the help of “up” and “down” buttons. Quickly press and release the “MODE” button to tick the framed item. To return to the menu, quickly press and release the “ON/OFF” button.

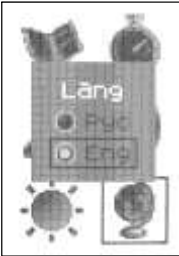
It is recommended to choose low level of brightness. This will prolong the service life of the display and significantly save charge in the batteries.

Note: In this model OLED (organic LED) display is used. During the first hours or days of operation brightness of the display may decrease. This is a technological peculiarity of the display in the beginning of its work which is not a defect.

Language



You can set either English or the Russian language for the on-screen settings. To do that, select the icon and quickly press and release the “MODE” button. Select the language with “up” and “down” buttons. Quickly press and release the “MODE” button to tick the framed item. To return to the menu, quickly press and release the “ON/OFF” button.



Note: *All the changes made in the menu during the procedure are saved after finishing treatment and switching the device off. However, if the device switched itself off during the procedure due to insufficient battery charge, all the changes made in the menu during the procedure will not be saved.*

STATISTICS

Date of sale, warranty and resource data, total time of operating the device and total time of action are registered in the device.

Date of sale is registered by distributor when you purchase the device. If your device is supplied directly from manufacturer, date of sale is registered by the manufacturer.

To view statistics, switch the device on with the “ON/OFF” button. While you keep the “ON/OFF” button pressed, press the “MODE” button at the same time.

On the screen you should see the following:

version – e.g., “Ver. 1.03”,

date of sale – “Sale date” (day, month, year),

warranty – “Warranty

resource – “Resource

total time of operating the device (hours, minutes) – “Total work”,

total time of action (hours, minutes) – “Action”.

HOW TO PLACE THE ELECTRODE

1. Along muscles and skin folds.
2. Along the segment.
3. On projection of the treated organ.
4. It is recommended to press the electrode to the skin surface to obtain best effect of action.
5. In any position, just for a variety of action if you have to act upon the same part of the area for a long time.

ACTION TIME, INTERVALS AND THERAPY PERIOD

Action Time

The procedure may last from 10-15 minutes (for example, when eliminating toothache) to several days of continuous action (for example, in case of extreme or severe injuries, when it is necessary to save and restore an organ, etc.).

Usually a procedure takes 40-60 minutes (minimum – 15-30 minutes).

If at the first procedure the action dose is not performed within 20 minutes, you can stop acting upon this part of the area even before the dose will be completed, and place the electrode onto the next part of the area. It is also not recommended to use any additional methods of treatment at the first session of SCENAR-therapy.

Action Range

Action range, i.e. how many areas to act upon during one procedure, depends on the following:

1. Physical condition, abilities, body potential and age of the patient. The procedure should not be exhausting.
2. Rehabilitation stage – how many procedures have been already conducted. The more procedures have been done before, the more areas can be acted upon during one procedure. It is not desirable to act upon the areas that have been acted on at the previous procedure. However, it is possible to act upon the same areas every other procedure.
3. Analyze the changes on the display.
4. It is not recommended to act upon more than 3 large areas during one procedure.

5. **Trigger areas** should be acted upon before any others. Trigger areas can be defined by graphic displays on the screen during preliminary analysis of the area – these are parts of the area with the highest activity level. During procedures trigger areas are those where the skin becomes red and where the electrodes stick to skin while you are smoothly moving them over the skin surface.

Finishing the Procedure

1. The first procedure should not exceed 20-30 minutes, except in cases of extreme injuries or serious conditions.
2. The following procedures may last up to 1.5 hours, but usually – 40-60 minutes, except in cases of extreme injuries or serious conditions, such as traumas, burns, frostbites, shock conditions, heart attack, etc. In such cases, the action can be conducted for a longer period of time.

Action Intervals

Intervals between the procedures depend on how severe or pronounced the pathological process is. In acute conditions, SCENAR-therapy procedures should be conducted every day or several times a day. However, the intervals between the procedures should not be less than 3 hours. The more chronic, advanced or sluggish the disease, the longer should be the intervals between procedures (every other day or 2-3 procedures a week).

Everyday procedures are usually recommended in the following cases:

- Acute conditions;
- Pronounced active complaints;
- When a patient is pressed for time for the therapy.

There may occur pronounced acute conditions during the first procedures

Procedures **every other day** are usually recommended in the following conditions:

- Chronic compensated pathological conditions in middle-aged and elderly patients;
- Stroke (insult).

Slight exacerbations are possible during first procedures.

Procedures **2 times a week** are often recommended in the following cases:

- Chronic compensated pathological conditions. During the intervals between SCENAR-therapy procedures, additional health-improving actions can be conducted.

Acute conditions may occur during the first procedures, but not often.

The above recommendations can be referenced to, but are not obligatory for all conditions. Each particular case may require special methods and techniques of action. Such details are discussed and explained at the regular seminars on SCENAR-therapy conducted by leading professionals of “LET Medical”.

Number of Procedures in a Course

A course of SCENAR-therapy can make up from 1 to 25 procedures, but typically it is 10 to 14 procedures.

The number of procedures in a course of SCENAR-therapy depends on how the patient’s body responds to action and how fast its normal functioning is restored. As a rule, when the symptoms and manifestations of the disease disappear and the patient feels well, the action can be

finished. Note that each case is individual and may require its own number of procedures necessary for a course of SCENAR-therapy.

The more recent the disease, the sooner will be the recovery. For rehabilitation of health in acute conditions, one course of SCENAR-therapy is usually enough. Patients suffering chronic pathological conditions can feel better even during the course of treatment, but the final result should be expected about a month after the course of therapy. Therefore, if the patient needs a repeated course of SCENAR-therapy, it should be conducted at least a month later, so that the effect of the previous course could manifest in full.

If after the first course of SCENAR-therapy the patient experiences recurrence, the repeated course can be started earlier than one month interval. If one or two procedures are enough to eliminate the recurrence, it is not necessary to conduct the complete course. The next course should be started one month later.

POSITIONS OF THE PATIENT DURING ACTION

Positions of the patient can be varied. First of all, the position of the patient during action should be most comfortable and least painful for the patient and at the same time provide optimal accessibility to the areas, which should be acted upon.

Stand-up position (while the therapist is sitting)

This position is recommended for patients suffering radiculitis. Pains the patients experience in this condition do not allow acting effectively in other positions. This position is also recommended for action upon inguinal areas.

Advantage

In this position of the patient it is possible to monitor important details, signs and processes, which cannot be noticed in other positions.

Disadvantage

In this position the patient may get tired, feel uncomfortable, or not be able to relax. Massaging with the device may be difficult. Some patients may consider such therapist-patient position not very esthetic

Sitting position

This position is very convenient to act on the cervical section of the spine and head.

Advantage

In this position the cervical section is more moveable, than in the lying position. The head of the patient can be easily bent in various directions.

Disadvantage

Buttocks, back surface of knees and inguinal areas are inaccessible for action. Massaging is difficult and inconvenient.

Lying position

This position is recommended for bed-patients and for the patients whose condition allows conducting action only while lying. Such position is also very convenient for action on the face.

Advantage In this position most areas are easy to reach. Patients prefer this position most often. It provides maximal relaxation of the patient. When the patient is lying, the electrode can be pressed harder to the skin surface. Allows better massaging and deeper action signal.

Disadvantage If the patient is lying on a low couch, the therapist has to bend over the patient, which is inconvenient for him. It is recommended to use the adjustable couch allowing regulation of its height.

Knee-elbow position

This position is recommended for the patients suffering pathological conditions of sacrum, coccyx, and buttocks. It can also be most convenient for action if pathological conditions are accompanied by pains, which in this position are least pronounced. Such position may also be the only one allowing action in pathological conditions of skin (injuries, burns, rash, etc.) or in conditions when action in other positions is difficult.

Advantage This position allows most effective action upon the lower part of the thoracic section and lumbosacral section of the spine.

Disadvantage This position does not allow acting upon some areas.

PRIMARY CONDITIONS FOR ACTION

The sooner you start rehabilitation of health with SCENAR-therapy, the better will be the result of it.

SCENAR can often turn the fastest and most effective means than any other actions or methods of treatment, which can effectively and timely help in rehabilitation of health. Therefore, it is recommended to use SCENAR before the patient can be administered help with any other methods of treatment or rehabilitation of health. Such cases are as follows.

1. Any cases of extreme injuries or severe conditions occurring in the body: traumas (any injuries, especially sporting accidents, their complications and after-effects, multitrauma, fracture of the spinal column and fracture of ribs, etc.), vascular disorders (acute disorders of cerebral circulation, stroke, intracerebral bleeding, cardiac infarction, acute occlusive vascular damage, trombophlebitis, phlebothrombosis, etc.) , physicochemical injuries (burns, frostbites, poisoning, etc.), pain, bleeding, faint, etc.;
2. Posttraumatic hemorrhage into internal organs, muscles, subcutaneous fat (bruise);
3. Physical and mental deficiency in children and teen-agers;
4. Neonatology (diseases of the newborns);
5. Epilepsy and epileptic syndrome in children and teen-agers;
6. Rehabilitation after critical overstrain;
7. Self-treatment, when the patient is pressed for time to visit doctors and cannot afford being ill (important work, urgent project, business trip, etc.).

Though SCENAR is so multi-purpose, always remember that it is not a panacea. It does not mean that all you need is SCENAR.

Defining the necessary method of rehabilitation or therapy usually takes some time. While the doctors are trying to find the most effective method of treatment, using SCENAR will make the further rehabilitation of health much easier and quicker.

In critical situations time may be the determining factor for the patient. SCENAR can administer timely help, eliminate or manage pain, shock, bleeding, burns, frostbites, heart attack, etc. and prevent complications in critical conditions, while the ambulance is on its way.

SPECIFICATIONS

Type of the device	Personal use device for medication-free therapy.
Acting pulse	Bipolar two-phase spike without constant component. Duration of the first phase: 4-100 mcsec, Duration of the second phase: 12 mcsec. Amplitude: 220V.
Action modes	S0 – active area search mode S1+ dynamic adaptation – treatment mode S2 – cosmetic massaging mode S3 – cosmetic massaging mode S4 – cosmetic massaging mode
Display	Organic LED display (OLED) 96x64 pxl.
LED indication	LEDs: C – contact with skin R – body reaction D – dynamic adaptation
Sound signals	Signal of body reaction End-of-minimal-dose signal End-of-full-dose signal
Electrodes	Silver of the 925 th standard.
Connectors	Mini-jack 2.5 for removable electrodes of the device Min-jack 2.5 for remote probes

Power supply	Two AAA type batteries.
Size	74.5x47x24mm
Weight (without electrodes and batteries)	75g
Accessories	Remote probe with steel electrodes. Remote probe with silver electrodes. Remote probe with gold electrodes. Remote probe with silver electrodes for rectal and vaginal action. Remote probe with silver electrodes for vaginal action. Genuine leather case for the device.

WARRANTY

“LET Medical” guarantees compliance of its devices with the requirements of TU 9444-004-24225399-2006.

The service life (resource) of SCENAR series model EX715Ag is 4 years (48 months) from the date of production, provided that all instructions of the present User’s Guide are strictly followed. Depending on how intensively the device is used, this period can be longer. When the service life of the device is over, the statistics will show:

“Resource ”

You can continue using the device even after its resource is over. However, precise functioning of automatic settings of the device is not guaranteed.

The warranty period of the device is 1 year (12 months) from the date of sale, but not longer than 1 year and 3 months (15 months) from the date of shipment for sale, provided that all instructions of the present User’s Guide are strictly followed. Depending on how intensively the device is used, this period can be shorter. When the warranty period expires, the statistics will show:

“Warranty ”

If the device proves to be defective during the warranty period, the repair and replacement of the defective parts is free. Postage is not included in the warranty service and is to be covered by the buyer.

The warranty is only valid for the internal parts of the device – electronic block inside the plastic casing. “LET Medical” cannot guarantee preservation of the initial state of the parts exposed to external environment and natural wear-out, such as plastic casing of the device, lock button on the lower part of the casing, faceplate, electrodes and contacts in the battery section, during the whole period of use of the device.

The warranty service shall not be provided in the following cases:

- if the device was damaged during transportation after the purchase,
- if the device has no, or has a false, trade mark and/or serial number,
- if the warranty seals have been damaged,
- if the device was attempted to be modified and/or repaired by an unauthorized person/personnel,
- if the defects resulted from connection to, and/or use together with, non-“LET Medical” brand accessories, attachments and applications,
- if the device was used and operated carelessly, safety requirements and precautions were not observed or the instructions of the present User’s Guide were not followed,
- if the device was used for the purposes it is not intended for,
- if the warranty period has expired.

“LET Medical” provides paid post-warranty servicing of its devices during the whole service life of the device.

While every effort has been made to ensure that the information contained in this User’s Guide is accurate and complete, no liability can be accepted for any errors or omissions.

“LET Medical” in no event shall be liable for using SCENAR and COSMODIC series devices for commercial purposes, and for consequential, incidental or indirect damages (including but not limited to damages for loss of business profits and business interruption) resulting from non-functioning of the device and/or during the repair period.

APPENDICES

Transportation

The devices can be transported by any kind of enclosed vehicle, except aircraft non-heated bays, in accordance with the requirements of GOST R 50444 of the Russian Federation and rules of freight.

Climatic category of the devices is UHL 4.2 of the Russian Federation. During transportation the package enclosing the device should be protected from atmospheric precipitation and mechanical damage.

The devices can be stored in their original packages according to the storage requirements of GOST 15150 of the Russian Federation. The packages enclosing the devices can only be piled in two rows up.

Care and Maintenance

After each procedure the plastic casing of the device and the electrodes should be wiped with a cotton wool slightly moistened with medical antiseptic solution 95% (solutio medicinalis antiseptica 95%).

The silver electrodes can turn black in the process of action. To clean them, apply any cleanser used for gold and silverware.

After cleaning, it is recommended to store the device in its original leather case, which can be purchased additionally (see the price-list on <http://www.scenar.ru>).

Never use substances containing benzene, thinners, acetone and other flammable and solvent substances, synthetic cleansers or water to clean the casing and electrodes of the device. These substances may damage or distort the device.

Never rub or press strongly on the display. These actions may damage it or lead to other problems.

Construction of the silver electrodes in SCENAR series model EX715Ag allows taking them out of the casing which makes cleaning and disinfection easier. It also allows easy replacement of the silver electrodes with gold ones.

To remove the electrodes, take a long thin object (e.g. a pen or a pencil), wrap it with a soft cloth and put it under the rounded part of one of the side electrodes. Slightly lift the rounded part of the electrode with the help of a pen or pencil covered with a soft cloth. The same way lift the part of the electrode on the lower cover of the plastic casing. Get back to the rounded part of the electrode and lift it slightly again, then lift the part of the electrode placed on the lower cover of the device. Continue doing so until the electrode can be easily pulled out of the casing. After you remove one of the side electrodes, remove the middle electrode and then the left electrode, the same way. Remove each electrode step by step: first – its rounded part, then the part on the lower cover, so as not to damage or deform the casing or electrodes. Do not press strongly on the device while removing the electrodes.

After the electrodes have been cleaned (or while replacing them), insert them back one by one, each exactly in the same place.

To install the electrode back, first insert the pin in the opening near the battery section, and then the pin in the opening near the front end of the device. Continue doing so until the electrode is installed in the opening completely. Then insert the middle and the other side electrodes the same way.

Regularly wipe the metallic terminals in the battery section with a cotton wool slightly moistened with medical antiseptic solution 95% (solutio medicinalis antiseptica 95%). Too dirty terminals can be cleaned with a rubber eraser.

Do not use metal or pointed objects to clean the battery section terminals.

Troubleshooting

Problem	Cause	Solution
The device will not turn on	No batteries in the battery section or the battery charge is insufficient	Insert or replace the batteries
The device will turn off during operation	Poor batteries	Replace the batteries with high-power ones
The device will turn off after shaking it	Poor contact between battery section and battery terminals	Carefully bend the terminals of the battery section and wipe them with a cotton wool moistened with medical antiseptic solution 95% (solutio medicinalis antiseptica 95%)

If you have other problems, please contact “LET Medical” company through your distributor.