emWave Plus 2.0 User's manual

About manual

This manual is intended to review the features and capabilities of the device «EMWAVE PLUS». Before using, please read the manual.

The designations are used in the manual

Before using, please, examine the designations accepted in this manual:

📄 **Note** - notes, usage tips or additional information.

⚠️ **Warning/caution** – important information, situations, which can lead to damage or incorrect device work.

→ **Next step** - sequence of parameters selection or of menu items to perform a certain action.

Contents

Use and safety appliances

To avoid danger or violations of the law, and also for ensuring optimum work, observe the following precautions.

Safety warnings and important information on use of the device

Keep the unit out of the reach of children and pets

To avoid accidents, keep small parts of the device and its accessories out of the reach of children and pets.

Reducing the risk of damage and premature wear

When using do not compress it, do not put excessive physical and mechanical influences, do not press the buttons too hard. Do not clean the surface of the device abrasive detergents and cleaning products.

Do not use the device if the screen or the casing is damaged

Broken glass or acrylic could cause injury to your hands and face. As a result of damage of casing because of whack operation of the device may be incorrect.

Protect batteries, power supply and USB-cable from damage

• Protect the device from extreme temperatures (below 0 °C / 32 °F or above 45 °C / 113 °F). Too high or low temperatures reduce the capacity and lifetime of the battery.
• Not prevent batteries from contacting metal objects, as this may cause a short circuit the positive and negative contacts of the battery and lead to temporary or permanent violation of it work.
• Do not use a damaged power supply, USB-cable, batteries or accumulators.

Handle the device carefully and sensibly

• Do not disassemble the device: there is a danger of electric shock.
• Avoid getting moisture on the device.
Once inside the device, it can cause serious damage and incorrect operation. Do not touch the appliance with wet hands.
• Do not use or store the device in dusty, dirty areas.
• This device is a elaborate electronic device - impacts and rough handling to avoid serious damage and, as a result of incorrect operation of the device.
• Do not expose the device to magnetic fields, it may cause the damage. Do not use carrying cases or accessories with magnetic closures and avoid contact of the device with magnetic fields for a long time.

Do not use near other electronic devices

The device emits radio pulses packages that can interfere not protected from radio frequency electronic devices, such as pacemakers, hearing aids, medical devices, and other electronic devices used at home or in the car.

Correct disposal of this product

The device and its electronic accessories at the end of their useful life cannot be disposed of with household waste. To avoid harm to the environment and human health dispose your device and its electronic accessories separately from other waste. Information about the location and method of disposal of the device in accordance with the rules of conservation can be obtained from the appropriate government agency.

Correct disposal of batteries

The battery used in this device should not be disposed together with other household waste at the end of life. Please separate batteries from other types of waste and recycle them through your local, free battery return system.

Denial of responsibility

User fully assumes all obligations regarding respect careful treatment for the device, its correct operation and compliance with all requirements and guidelines on the use of resonant frequency therapy.

The manufacturer declines all responsibility in case of improper use by the user, and the use of its capabilities without the advice of a doctor.

Acquaintance with the device

In this part of the manual introduces you to the description of the main items and subitems of the device menu, as well as learn about its purpose and appearance.

Delivery set

The package includes the following components:

- portable generator of electromagnetic impulses «emWave Plus 2.0»;
- software for the generator «emWave Plus 2.0»;
- user manual with a warranty card;
- batteries (2 pcs.);
- micro USB cable.

Components of the package may vary depending on the accessories available in your region.

Accessories supplied with the device best suited for its operation.

Purpose of the device and general information

Device «EMWAVE PLUS» - a programmable electromagnetic wave generator that provides contactless antiparasitic and rehabilitation therapy using the resonance frequencies of methods Rife, Clark, Voll, Schmidt, Morrel, etc.

Contactless method using the resonant frequencies of the electromagnetic waves showed very high efficacy, availability and ease of use, has virtually no contraindications, can be used both as monotherapy and in combination with any drugs.

In memory of the device has recorded more than 5,000 programs with the possibility of adding.

If you add a new manufacturer of therapeutic frequencies and programs in the base of the device, the user can update it for free over the Internet.
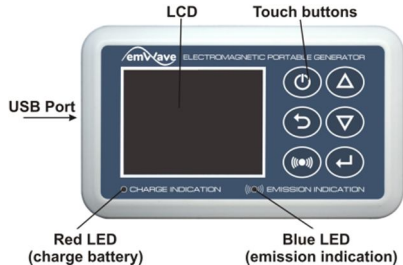
All programs and frequency of the item «*Antiparasitic and therapeutic programs. Frequencies Rife, Hulda Clark. 0.01 Hz-1 MHz*», recorded in the memory of the device correspond **CAFL 2008 and ETDFL 2020.**
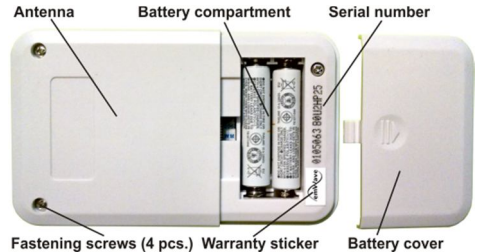
Appearance

The top panel contains the following items:

On the bottom panel contains the following items:

Technical characteristics

1. Range of modulating frequencies – 0,0015 Hz – 1.3 MHz
2. Step setup of modulating frequencies over the entire range – 0,0015 Hz
3. Depth of modulation – 100%
4. Duty cycle – 50%, 60%, 70%
5. Carrier frequency – 27, 30 and 33 MHz
6. Radiation power, not less – 23dBm (200 mW).
7. Soft touch buttons.
8. Color display with a resolution 320x240 pixels.
9. Dimensions – 115x69x18mm.
10. Continuous operation from two NiMh batteries (1000mAh) – not less 30 hours.
11. Self-powered – alkaline batteries or Ni-Mh batteries, size AAA, 2 pcs.
12. External power supply and charge batteries through microUSB - 5V.
13. Monitoring of battery discharge each element separately by two independent channels.

The device's batteries

For power supply of the device are used NiMH batteries or alkaline batteries size «AAA» - 2 pcs.

For stable operation of the device, use a battery with low internal resistance, ensure reliable operation of the device with a pulse energy consumption.

Recommended actual capacity of battery - 800mAh, ensures continuous operation for at least 30 hours, 1000mAh capacity - of not less than 32 hours.

NiMH AAA-size batteries are widely distributed, always available for sale, and is able to operate at temperatures up to -20 ° C.

The device has a function to automatically switch from the internal power supply to an external source.

The device has the option to charge or replace the batteries without having to interrupt the operation of treatment programs, provided external power supply.

📄 Using rechargeable batteries with high internal resistance can lead to a sharp drop voltage across the battery terminals, disruptions in the power supply circuit and unstable work device at partial discharge batteries.

To charge the batteries out of the device, it is recommended to use a battery charger to ensure continuous operation and gentle care of your battery pack with the function «minus delta voltage» (-ΔV), which controls the end of charge voltage drop when the battery reaches its maximum capacity.

Power supply and built-in battery charger

For stationary use, the device can use an external stabilized power supply voltage of 5 V, 500 - 1000 mA (supplied or optional).

The device has a built-in battery controller and, if necessary, you can charge the batteries directly into the device by connecting it to a power source.

⚠️ **Warning!** Power supply from the unregulated voltage over of 5 volts can lead to failure of the device!

Features built-in charger:

Battery charge current is within 100mA to 180mA and applied for 5 hours, and is designed for slow charging the battery capacity 600 - 1000 mAh, then the charge is automatically disabled. In this mode, the battery charge provides durability. If the user place the batteries into the battery module of smaller battery's capacity, in this case need to choice the charging capacity in the "Battery capacity" (point Settings -> Battery capacity) for a specific capacity.

During battery charging on the top panel lights the red indicator, marked the "CHARGE".

If user place the old batteries with high internal resistance, that capacitance significantly lost, defective or place exhausted batteries, the device will ignore to charge them.

⚠️ **Warning! It is strictly forbidden to charge alkaline (Alkaline battery 1,5V) and salt batteries in the device!**
Charge of alkaline or saline batteries can lead to an explosion, electrolyte leakage from them and broken of the device!

General description of the main menu items

When you turn on device the displays menu is divided at five global items:

• User programs
• Sets of therapeutic programs
• Therapeutic programs. Voll, Schmidt, Morrel frequencies (0.01-100Hz).
• Antiparasitic and therapeutic programs. Frequencies of Rife, Hilda Clark (0.01Hz - 1MHz).
• Settings

📋 Therapeutic and antiparasitic program in items 5 and 6 are ordered according to areas of medicine in alphabetical order.
In item 6, the device displays the full name of the program in English language.
Long names of the programs take the form of scrolling text at the cursor.

Therapeutic and antiparasitic programs are sorted alphabetically.

In the section "Antiparasitic and therapeutic programs. Frequencies of Rife, Hilda Clark (0.01Hz - 1MHz), the display of the device simultaneously displays the full name of the programs in Russian and English.

Long names of programs take the form of a creeping line when you hover over them.

Item: User Programs

This section consists of 9 subsections:

1. User menu
2. My sets of programs
3. Scheduled programs
4. My programs
5. Entering frequencies (my programs)
6. Clear user menu
7. Clear programs on schedule
8. Remove my sets of programs
9. Remove my programs

Subsection: «User menu»

This subsection is intended for forming the current complex of programs, launching it or saving it into sets.

Subsection: «My sets of programs»

This subsection is intended for storing and launching the created sets of programs. A total of 50 sets of 60 programs.

Subsection «Scheduled Programs»

This subsection is intended for storing and deleting programs, the launch of which is scheduled for a user-defined time.

Subsection: «My programs»

This section stores programs with manual frequency input. A total of 50 programs with 25 frequencies. Adding programs to this section is carried out through the subsection "Entering frequencies (my programs).

Subsection "Entering frequencies (my programs)

This subsection is intended for manual entry of frequencies by the user.

Subsections 6,7,8,9 are designed to clear and remove stored programs from subsections:

• User's menu
• My sets of programs
• Scheduled programs
• My programs

Item: Sets of therapeutic programs.
Frequency Voll, Schmidt, Morrel. 0.01 Hz - 100 Hz

This menu contains the program for the treatment of the following diseases:

- Allergy
- Angina, laryngitis
- Arthritis, arthrosis
- Bronchial asthma
- Bronchitis
- Cholelithiasis
- Clearance of the organism
- Colitis
- Cosmetology
- Cystitis
- Diabetes mellitus, 2 type
- Diseases of the spine
- Dysmenorrhea
- Extension of the male libido
- Frequently ill children
- Gastritis
- Hypertension
- Insomnia
- Mammary glands
- Menopause
- Myoma
- Obesity
- Otitis
- Peptic ulcer
- Prostate (gland) adenoma
- Prostatitis
- Pyelonephritis
- SARS
- Sets for the regulation of vital systems
- Sinusitis
- The program for the study
- Urolithiasis
- Varicose veins
- Vision

📋 In this item, are located ready sets consisting of the frequencies of different therapeutic programs.

Sets of therapeutic programs are focused on solving the most common problems, and aimed at the restoration of organs and systems after or during the antiparasitic therapy.

By default, the operating time of each frequency in the set - 5 min (can change in the Settings).

⚠️ **Important**: During therapy by programs from item «Sets of therapeutic programs», the first program in the medical complex should always be «Activation of defense functions» and the last program - «Deep rectification/clearance of the organism» from subitem «Sets for the regulation of vital systems».

During therapy by programs from «Sets of therapeutic programs» must provide a daily intake of clean water for at least 30-40 ml per 1 kg of weight!

Item: Therapeutic programs.
Frequency Voll, Schmidt, Morrel. 0.01 Hz - 100 Hz

Programs in this item are organized according to the areas of medicine in alphabetical order:

- 7 chakras
- Acupunctur-neuralgia
- Acupunctur-thyroid gland
- Allergology
- Anatomy, physiology and histology
- Cardiology and cardiovascular system
- Dentistry
- Dermatology and cosmetology
- Endocrinology
- ENT
- Gastroenterology
- General energy, vitalization
- Gynecology and Obstetrics
- Headaches
- Hematology and Immunology
- Hepatology
- Infectious diseases
- Lymphology
- Mammalogy
- Narcology
- Neurology
- Oncology
- Ophthalmology
- Phlebology
- Physiological effects
- Proctology
- Psychology and Psychiatry
- Pulmonology
- Rheumatology
- Sexology
- Surgery, traumatology and arthrology
- Symptoms and syndromes
- Urology and Nephrology
- Vertebrology

Item: Antiparasitic and therapeutic programs.

Frequencies Rife, Hulda Clark. 0.01 Hz - 1 MHz

Program in this item are arranged in accordance

with the areas of medicine in alphabetical order:

1. Acarology
2. Allergy
3. Arthrology
4. Cardiology, Cardiovascular diseases
5. Dermatology
6. Detoxification, Toxicology
7. Diseases caused by bacterias
8. Diseases caused by helminths
9. Diseases caused by mycoses
10. Diseases caused by protozoan
11. Diseases caused by viruses
12. Effects
13. Endocrinology
14. Frequency of homeopathic preparations
15. Gastroenterology
16. Gynecology, Mammology
17. Hematology
18. Hepatology
19. Immunology
20. Infectious diseases
21. Influenza
22. Lymphology
23. Neurology
24. Oncology
25. Ophthalmology
26. Otolaryngology
27. Pain
28. Psychiatry
29. Pulmonology
30. Rheumatology
31. Stomatology
32. Surgery, traumatology
33. Symptoms, first aid
34. Syndromes, Congenital disorders, Hereditary diseases
35. Urology, Nephrology, Andrology
36. Vertebrology
37. Veterinary medicine

⚠ **Important**: The main programs in this item are the programs located in the «Diseases caused by bacteria / helminths / mycoses / protozoan / viruses».

Programs from other subitems are additional to the main program. Using only the additional programs as independent (main) for symptomatic therapy may be ineffective.

📋 Creation a medical complex programs should be based on the vegetative resonance test conducted by qualified personnel with extensive experience, as well as the data obtained by PCR, ELISA, etc.

Chance to make a correct medical complex of antiparasitic programs only on the basis of symptoms, without conducting clinical assays - minimal and usually does not lead to positive results.

Complexes treatment programs drawn up on the basis of the diagnosis of doctors who are not specialists in the field of frequency-resonance therapy, may have low efficiency.

⚠ **Important**: When an antiparasitic therapy is applied, the first program in the medical complex program should be «Drainage» from «Detoxification, Toxicology» subitem, and the last program in the medical complex program should be «Detox and lymphs» from the same subitem.

During antiparasitic therapy is imperative daily intake of clean water for at least 30-40 ml per 1 kg of body weight. This will help avoid intoxication decomposition products of dead parasites.

Explanation of abbreviations used in item 3:

1. Programs, which name is added of the designation **«1»**, «**2»**, **«3»**, **«4»** often contain newly discovered frequencies and can be most effective in some cases.

2. Programs, which name is added of the designation **«V»** - Vega sets of frequencies, originally developed by John Garvey, as well as the program of his successor Peter Kapetanakosa (www.carolinahealthcenter.com).

3. Programs, which name is added of the designation **«TR» -** developed in the TrueRife.com

4. Programs, which name is added of the designation **«secondary»** and **«tertiary»** - these are the sets of frequencies that may be useful to increase the effects of a main set of frequencies or to solve less common causes of disorder.

5. Programs, which name is added of the designation **«complex»**, **«general»** is a comprehensive set of frequencies that

include all or nearly all frequencies for this disease.

6. Programs, which name is added of the designation **«part1, part2, etc.»**, are a continuation of the program is divided into parts. In the «User Menu» you need to record all the parts of the program in order.

7. Programs, which name is added of the designation **«HC»**, developed by Hulda Clark, as well as researchers from the 9th and private clinics in Germany, and include in their set of frequencies up to 1 MHz.

Item: Settings

In this section, additional device settings are made:
1. On / Off. sound signal
2. On / Off. cyclical execution of a medical complex
3. Setting the signal duty cycle
4. Carrier frequency tuning
5. Setting the duration of therapy frequencies
6. Selecting the device language settings
7. Setting the time
8. Display brightness control
9. Display color scheme control
10. Choice of battery capacity
11. View battery status
12. Viewing the current software version

Main functions of the device

Functions of the buttons

The top panel contains the following keys:

$\bigcirc$ - on / off the device or exit from sleep mode (during program execution).
$\circlearrowleft$ - returns to the previous menu level; canceling.
$((\bullet))$ - start / stop program.
$\triangle\nabla$– navigation buttons to navigate through the menu (up / down).
$\hookleftarrow$ - entrance to the menu items; add / remove programs; confirm the action.

Turning on of the device

Before using the device, insert batteries or rechargeable batteries that are provided by delivery set, or connect it to the power network using a power supply and USB-cable.

To turn the device on, press and hold at least for 5 seconds key $\bigcirc$.

📝 If the device does not turn on, check for correct placement of batteries, clear their contacts, as well as check the battery level.

⚠ If the device does not start any program after turning on, or the time between pressing the button will exceed 60 seconds - it will automatically turn off.

Navigation of the the main menu

After turning on LCD displays the main menu, which consists of five global items:

• User programs
• Sets of therapeutic programs
• Therapeutic programs. Voll, Schmidt, Morrel frequencies (0.01-100Hz).
• Antiparasitic and therapeutic programs. Frequencies of Rife, Hilda Clark (0.01Hz - 1MHz).
• Settings

To navigate between items of the main menu, use the buttons △▽.

To enter the selected item, press ↵.

To return to the previous menu level, press ↺.

Single start the program from global items of the menu

📄 Before using of the device please read the information in the section «General description of the main menu items», for understanding of where and what programs is located and freely orient in the creation of a medical complex.

For a single start the chosen program, follow these steps:

1. Turn on the device by pressing the button ⏻.
2. Using the navigation buttons △▽, select the global item of the main menu and press ↵ for entrance.
3. Then, using the navigation buttons △▽, select the appropriate subitem and press ↵ for entrance.
4. Place the cursor on the chosen program and press (( )), holding it (3 sec.) to start the program.

Creation a medical complex in the user menu

While creation the medical complex in the user menu, you can load up to 60 programs.

To add a program to the user menu, follow these steps:

1. Turn on the device by pressing the button ⏻.
2. Using the navigation buttons △▽, select the global item of the main menu and press ↵for entrance.
3. Then, using the navigation buttons △▽, select the appropriate subitem and press ↵ for entrance.
4. Place the cursor on the chosen program and press ↵ to add it to the user menu.
5. Using the button ↺, go back to the needed menu level to add the next program.

📋 Adding each subsequent program is always made at the end of the list of medical complex and accompanied by a short beep (if beep is turn on in the Settings).

Start programs from the user menu

After creating a medical complex in the user menu, you can run programs or remove their.

In order to run the program from the created medical complex follow these steps:

- Turn on the device by pressing the button ⏻.
- Using the navigation buttons △▽, select the item «User menu» and press button ↵.
- Using the navigation buttons △▽, position the cursor on the program, which will be reproduced medical complex, press «●», and holding it (3 sec.) to start the program.

📋 By default, the programs in the user menu not reproduce cyclically. If you want to reproduce cyclically you need to enable the function of the cyclic recurrence in the «Settings» menu.

Stop/pause programs in the user menu

To reduce power consumption the device has a function of «sleep mode». Power save mode turning on after 10 seconds from the start of reproducing of the selected program, and the screen of the device is switched off.

If device continues to reproduce selected program blue LED blinks every 5 seconds.

In order to stop the execution of programs medical complex user menu, follow these steps:

1. Press button ⏻ to exit the «sleep mode» and the screen will display the progress of the current program.
2. Press button «•», and holding it (3 sec.) to stop the execution program or press button ↵, and holding it (3 sec.) to pause the execution program.

Remove programs from the user menu

To remove a program from the created medical complex follow these steps:

1. Turn on the device by pressing the button ⏻.
2. Using the navigation buttons △▽, select the item «User menu» and press button ↵.
3. Using the navigation buttons △▽, position the cursor on the program that will be remove.
4. Press button ↵ and holding it about 2-3 seconds to delete the selected program.
5. If you want to remove several programs, repeat steps 3 and 4.

📋 Remove a program in the user menu is accompanied by a short beep.

If you want to remove all programs in the user menu, use the "Clear the user menu" in the «Settings» item.

Move programs in the user menu

To move a program in the created medical complex follow these steps:

6. Turn on the device by pressing the button ⏻.
7. Using the navigation buttons △▽, select the item «User menu» and press button ↵.
8. Using the navigation buttons △▽, position the cursor on the program that will be move.
9. Press button ⏻ (press first) and buttons △▽, to move up or down the selected program.

Frequency switching in the running program

The device has the ability to switch to the next frequency while the program is running.

To switch the frequency in the running program, follow these steps:

1. Press the button ⏻ to exit the «sleep mode» and the progress of the current program will be displayed on the screen.

2. Press the button △ and hold it (3 seconds) to switch the frequency in the current program.

Indication elements on the screen during generation of programs

During the program generation, the display device displays the following data:

1. Full name of the program.
2. Current frequency in Hz.
3. Number of the frequency list.
4. Current frequency time in minutes.
5. Total time remaining until the end of the work programs of the whole complex.
6. The time remaining until the end of the current program.
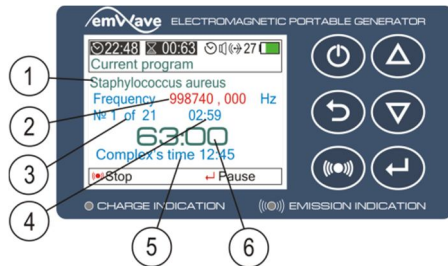
My programs / manual input of frequencies

In this item, store program with manual input frequency. Total 50 programs with 25 frequencies for each program.

Adding programs in this item is carried out through a «Entering frequencies» subsection, which is located in the global item «User programs».

In order to enter the frequency manually, follow these steps:

1. Switch on the device by pressing the button ⏻.

2. While in the «User Programs» section, using the navigation buttons $\Delta\nabla$, place the cursor on the «Enter frequencies (my programs)» item and press to enter ↵.

3. Using the navigation buttons $\Delta\nabla$, place the cursor on the «Create» and press to enter ↵.

Then a dialog box will appear for entering the name of the created program.

To add a program name, press the key ↵ and, using the navigation buttons $\Delta\nabla$, select the desired character, which will scroll up or down in alphabetical order. Each subsequent character is entered using the button ←.

After you finish entering the program name, press the button ↺ and use the navigation buttons $\Delta\nabla$ to move to the item «Default time». Then press the button ↵ and, using the navigation buttons $\Delta\nabla$ and adhering to the above algorithm for setting the value, set the duration time for all frequencies in the program by default in seconds.

After you finish entering the frequency time, press the button ↺ and using the navigation buttons $\Delta\nabla$ move to the «Next» item and press the button ↵.

Then the following dialog box will appear, which will have the following indication elements:

- The frequency number is (1).
- Frequency time - (2).
- Set the frequency in Hz (3).
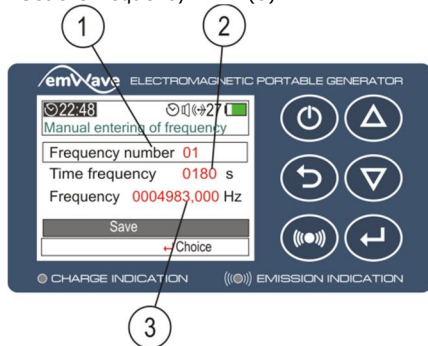
3. Set the parameters in each display element as follows: $\triangle\triangledown$ (select the display element to be edited) → ↵ (start editing) → $\triangle\triangledown$ (set the required values) → ↺ (finish editing).

4. To save the entered parameters, using the navigation buttons, move the cursor to the «Save» line and press the key ↵; then press the key ↺ to exit.

1. **Do not put the default time.** This parameter must be entered without fail otherwise the program will not allow to save the entered frequency. Error display on the screen:
   « ⚠ Default time».

2. **Invalid ordinal number of frequency.** The program does not allow to save the entered data, if the ordinal number is not with increments 1. I.e. after the ordinal number 1, have to be number 2, not 3, etc. Error display on the screen:
   « ⚠ Frequency number».

3. **Do not set the parameters of the frequency in Hz.** The program does not allow to save the entered data, if the frequency is equal to «0». Error display on the screen:
   « ⚠ Enter frequency».

⚠ *An example of correct input frequency*:
the frequency of 4983 Hz is shown as 0004983.000 Hz or frequency 2.65 - 0000002.650 Hz.

Start programs from the «My Programs» item and their addition in the user menu

All manually entered frequencies are stored in the «My Program» and can be run directly from this item or added to the medical complex in the user menu.

To run the program directly from the «My programs» item, follow these steps:
1. Go to «My programs» from the «User Programs» item.
2. Use the navigation keys to select the desired program and press ((•)) to start it.
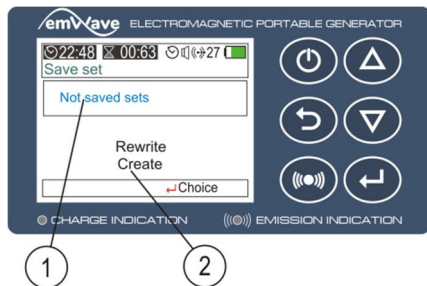
To add a program from the «My programs» item in the user menu, follow these steps:
1. Go to «My programs» from the «User Programs» item.
2. Use the navigation keys to select the desired program and press ↵ to add it.

My sets of programs / saving sets of programs

Save sets of programs is carried out from the user menu.

In order to save the program in a set, follow these steps:

1. Make a complex by adding the necessary programs to the «User menu» in accordance with the order of their following.
2. While in the «User Menu», press and hold two device keys: ⏻ (press and hold the first one) and ↵. Then the dialog

box «Create or overwrite a set» will open and the cursor will be set by default on the field «Saved sets» - (1).

3. Using the navigation buttons $\triangle\triangledown$, select the menu item «Create» - (2) and press the key ↵.

Then a dialog box will appear for saving the set, and the cursor will be set by default on the edit field of the set name - (3).

1.
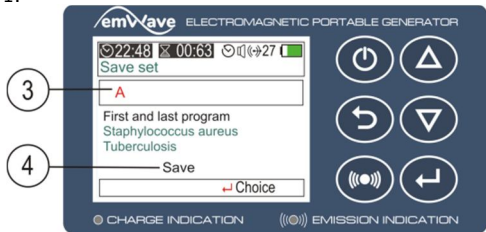
4. Press ↵ to start editing the name and use the navigation buttons $\triangle\triangledown$ to enter the name of your set, moving up or down alphabetically, alphabetically. Use the key ↵ to enter a character.
5. Click ↺ to finish editing the field and, using the navigation buttons $\triangle\triangledown$, move to the item of the «Save» dialog box - (4).

6. Press the key ↵ to save.
7. Press the key ↺ to exit the dialog box.

After you save a set of programs in a set, you can start it from the menu «My sets of programs», to do this, follow these steps:

1. Go to the subsection of the menu «My sets of programs», and using the navigation buttons $\triangle\triangledown$, select the desired set.
2. Press the key ↵ to view the programs in the set.
3. Using the navigation keys, move the cursor to the program that will start playing the set and press the key ((•)) for 3 seconds.

Overwriting sets of programs

Overwriting of program sets is performed from the user menu.

To overwrite a new set of programs instead of a previously saved one, do the following:

1. Make a complex by adding the necessary programs to the «User menu» in accordance with the order of their following.
2. While in the «User Menu», press and hold two device keys: ⏻ (press and hold the first one) and ↵. Then the dialog box «Save or overwrite the set» will open and the cursor will be set by default on the field «Saved sets» - (1).
3. Press ↵ to start editing data and using navigation buttons ∆∇, select the set you want to overwrite.
4. Press the key ↻ to finish editing the field and, using the navigation buttons, move to the item of the «Overwrite» dialog box - (2).
5. 5. Click ↵ to save.
6. 6. Press the key ↻ to exit the dialog box.

Schedule programs
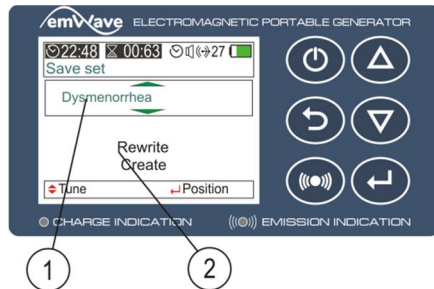
This item is designed for the storage and remove schedule programs, with launch on a user-defined time.

📋 To maximize the effectiveness of therapeutic programs is recommended to use them according to the time of organs activity.

⚠️ This option is only available for programs from the item «Sets of therapeutic programs» and «Therapeutic programs».

Programs that the user writes in the «Schedule programs» item will run automatically at a specified time. If the during alarm time for the

start of the schedule program will run any other program, then this program is suspending its work and, at the conclusion of «schedule program», its execution will continue.

If the device is turned off, and if it's time to work the schedule program, the device is turned on, and after completion of the program will automatically shut down before the next schedule program.

To add a schedule program, follow these steps:

1. Go to the global menu «Sets therapeutic programs» or «Therapeutic programs.» Select the chosen program using the navigation buttons $\Delta\nabla$, press simultaneously two keys of the device: ⏻ (press first) and ↵. After that opens a dialog box «Time for program.» By default the cursor position will be in the time edit field (**1**).
2. Press ↵ to start editing and using the navigation keys $\Delta\nabla$, set the required hours and minutes. To switch between the digits, use the ↵.
3. Press ↺ to finish editing and using the navigation buttons move the cursor in the dialog field «Set» (**2**).
4. Press ↵ for save, after that press ↺ for exit from dialog box.

Appearance dialog box for storing schedule programs:
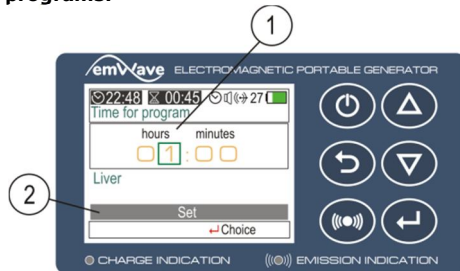
For this item are also available functions to run programs and their remove.

In order to run the program at any time from the menu «Schedule programs» follow these steps:

1. Go to the menu «Schedule programs».
2. Using the navigation buttons $\Delta\nabla$ select desired program and press ⦅•⦆ for start it.

In order to remove the program from the menu «Schedule program» follow these steps:

1. Go to the menu «Schedule programs».
2. Using the navigation buttons $\Delta\nabla$ select program, which you want to remove and press ↵, holding it about 2 seconds.

📋 Main errors when you add a schedule program:

1. **Wrong start time of the program.** The device does not allow to set the program on time, which is already in use by another program. For example, the previous program is set to 12-00 and goes on 1 hour. When you set the following programs at 12-30, error display on the screen: « ⚠ Time is busy».
2. **Current program ends later than the next begins, previously stored.** For example, if the user set the program on 12-30 with a duration of 40 minutes, and the previously stored program should begin in 13-00, error display on the screen: « ⚠ Wrong duration».

Working with the «Settings» item

In this item is located additional settings of the device:

1. Beeps control
2. Control parameter of cyclically programs
3. Selection of the fill factor (duty cycle)
4. Carrier frequency selection
5. Setting the frequency of therapy programs
6. Language selection
7. Time setting
8. Adjust display brightness
9. Choice of color scheme
10. Choice of battery capacity
11. Battery condition
12. Internal firmware version.

In order to enable / disable the beeps, follow these steps:

1. From the «Settings» item and using the navigation keys △▽ move the cursor to «Sound».
2. Press button ↵ to enable / disable beeps.

To enable / disable cyclically reproduced programs, follow these steps:

1. From the «Settings» item and using the navigation keys △▽ move the cursor to «Cyclic recurrence».
2. Press button ↵ for enable/disable cyclically reproduced programs.

To change duty cycle of modulation, follow these steps:

☒ From the «Settings» item and using the navigation keys △▽ move the cursor to «Duty cycle».
☒ Press button ↵ for switching duty cycle. On the screen will display current value.

To change carrier frequency of modulation, follow these steps:

1. From the «Settings» item and using the navigation keys △▽ move the cursor to «Carrier frequency».
2. Press button ↵ for switching carrier frequency. On the screen will display current value.

📝 The value of the carrier frequency should be changed only when using multiple devices in the same room.

In order to change the therapy programs time parameter, follow these steps:

1. From the "Settings" section and using the navigation keys △▽, position the cursor on the "Time for therapeutic programs" item.
2. Press the key ↵ to change the time of the therapeutic program. At the same time, the current value will be displayed on the screen.

📝 This parameter needs to be increased if the default time (5 minutes) is not enough to saturate biologically active points. For further clarification, you must contact your doctor.

To change the language, follow these steps:

1. While in the «Settings» section and using the navigation keys $\triangle\triangledown$, position the cursor on the «Language selection» item.
2. Press button $\hookleftarrow$ to change the instrument language. The current value will be displayed on the screen.

To adjust the brightness of the display, follow these steps:

1. From the «Settings» item and using the navigation keys $\triangle\triangledown$ move the cursor to «Brightness LCD».
2. Press button $\hookleftarrow$ to change the display brightness. The brightness will vary cyclically.

To change the color scheme of the display, follow these steps:

1. From the «Settings» item and using the navigation keys $\triangle\triangledown$, position the cursor on the "Select color scheme" item.

2. Press button $\hookleftarrow$ to change the color scheme. The current value will be displayed on the screen.

To select the capacity of the batteries installed in the device, follow these steps:

1. From the "Settings" item and using the navigation keys $\triangle\triangledown$, position the cursor on the "Capacity battery" item.
2. Press button $\hookleftarrow$ to change the battery capacity setting. At the same time, the current value will be displayed on the screen.

📄 This parameter should be set only if the batteries will be charged in the device. Otherwise, this parameter can be left unchanged.

To check the condition of the instrument's batteries, follow these steps:

1. From the "Settings" item and using the navigation keys $\triangle\triangledown$, position the cursor on the "Battery condition" item.

3. Press button $\hookleftarrow$, then the screen will display the current state of the batteries.

Set the time in the device

⚠️ If time is not set, or is set incorrectly, the program from the menu «Schedule program» will not reproduced correctly.

📝 When remove the batteries from the device, the current time is not reset to zero within 12 hours.

If you do not use the scheduled program function, you can skip the current time setting.

To set the time, follow these steps:

- From the «Settings» item and using the navigation keys △▽ position the cursor to «Clock setting» and press ↵. After that opens a dialog box «Time setting». By default the cursor position will be in the time edit field (**1**).
- Press ↵ to start editing and using the navigation keys △▽, set the required hours and minutes. To switch between the digits, use the ↵.
- Press ↺ to finish editing and using the navigation buttons move the cursor in the dialog field «Set» (**2**).

- Press ↵ for save, after that press ↺ for exit from dialog box.

Appearance dialog box time setting:
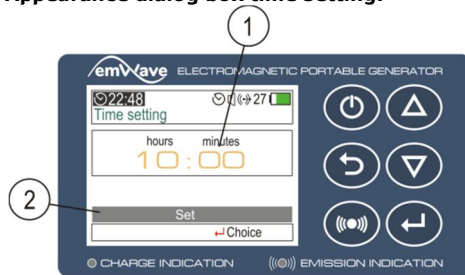
Item battery status

This item is required for diagnostic purposes. In the process of charging the batteries, selecting the item «Battery status», you will see the voltage on each battery, as well as current and charge time.

⚠️ If the values of the voltages on the batteries are very different from each other, then it is recommended to check the actual capacities of these batteries in the external charger. It is recommended to use batteries with the same actual capacity and internal resistance.

High internal resistance of the battery means that the battery is running out of battery life. The value of high internal resistance also shows that this battery has lost its original capacity. In fact, high internal resistance is equivalent to loss of capacity and end of life.

Designation of icons on the device screen

On the screen of the device, there are two fields time indication.

In field «1» displays the following icons and their meanings:
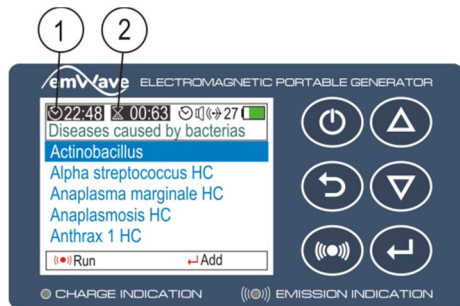
1. 🕐 - icon representing the current time, which is specified in hours and minutes beside it.
2. 🕐 - icon representing the time execution of all programs in the user menu.
3. 🕐 - icon representing the time at which the schedule program is set.

In field «2» displays the following icons and their meanings:
- icon representing the time of the current program (or program on which the cursor), which is indicated in minutes beside it.

Firmware and base of medical programs updating of the device

Uninstall previous versions driver (Start-> Settings-> Control Panel-> Program and Features-> Virtual COM Port Driver).

To update the firmware, follow these steps:

1. Install the driver on your computer by selecting the appropriate file according of your operating system (Choose folder Win7 or Win8,10 and than STMVCPSetup for 32-bit system or STMVCPSetup_x64 for 64-bit system).

2. Run the UpdateUtility program on your computer.

3. Remove the batteries from the device. Press the «Enter» key ↵ and connect the USB cable to the device. After that, red LED on the front panel will flash.

4. In the UpdateUtility dialog box, click the Find Device button, and then in the lower-left corner of the dialog box you will see Device Found, it means that the device is detected.

5. Select the language from the drop-down list and click Update Flash. After that, the process of firmware update will be started, as indicated by the flashing red LED on the front panel and filling the update status line in the UpdateUtility dialog box. After the end of the firmware update cycle, the red LED on the front panel stops blinking.

To update the base of medical programs, follow these steps:

1. Install the driver on your computer (if not already installed).

2. Run the UpdateUtility application on your computer and turn on the emWave device by holding the «On/Off» button ⏻.

3. Connect the device to the computer with a USB cable.

4. In the UpdateUtility dialog box, click the Find Device button, and then in the lower-left corner of the dialog box you'll see Device Found, it means that the device is detected.

5. Select the language from the drop-down list and click Update Base. Then on the screen of the EmWave Plus device the inscription Update Base will be displayed. During the database update, the blue LED will flash and filling the update status line in the UpdateUtility dialog box. At the end of the update, the blue LED on the front panel will stop flashing and the status bar will be completely full. After updating the base, turn off the device by pressing the «On/Off» button ⏻.

Safety instructions

1. The device is made in accordance with the requirements for products with an internal power source «By way of protection against electric shock».
2. If you find a problem with the device, turn it off immediately.
3. Do not use the device with clearly visible violations of its appearance (broken case, broken display).
4. Do not place the device near open sources of fire.
5. Do not leave the device in direct sunlight for a long time.
6. Keep the device out of the reach of children.
7. Do not use the device in bathrooms and wet rooms.
8. Use of the device in children is permitted only under adult supervision.
9. Do not place the apparatus inside microwave ovens.
10. Do not separate the apparatus into parts.
11. Do not immerse the device in water.
12. Do not drop the device.
13. Do not drop other objects onto the device.