

# PHYSIOTHERAPY DEVICE OF VORTEX ELECTRIC FIELD (MISHIN COILS/EMITTERS) WITH AN ADDITIONAL FUNCTION OF CONTACT ANTIPARASITIC BIORESONANCE



**APPLICATION GUIDE AND DATASHEET**



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*Thank you for purchasing the “Live Sinus 6” kit - you made the right choice! We are sure that with its help you can significantly improve your health and the health of your loved ones.*

## I INTRODUCTORY PART

### 1.1 Advantages of the device “Live Sinus 6”

The “Live Sinus 6” is an innovative highly effective device of vortex implosive electric field physiotherapy. The “Live Sinus” emitters of Mishin coils are made universal and can operate in several modes, including the new, most efficient and safe high-voltage capacitive mode.

In addition, the generator has an additional function of contact antiparasitic bioresonance, the Zapper mode, implemented in accordance with the recommendations of A.N. Mishin to improve the efficiency of this type of devices.

#### **The use of modern technologies and microprocessor control provide:**

- high quality signal;
- automatic adjustment and maintenance of the specified parameters;
- ease of daily use, even for the elderly;
- the ability to connect to a computer (advanced functionality);
- operating modes: low-voltage and high-efficiency high-voltage;
- complex dynamic modulation along the Fibonacci series to enhance the healing effect.

#### **Regular, systematic use of the device:**

- helps to get rid of pain;
- stops allergic reactions;
- shortens the recovery time;
- increases the body’s defenses;
- stops inflammatory processes;
- restores joint mobility;
- cleanses the body of pathogenic bacteria and fungus;
- relieves from many diseases in acute and chronic forms;
- starts the processes of regeneration and rejuvenation.

All “Live Sinus” products are made strictly in accordance with the recommendations of A.N. Mishin, are of high quality and are guaranteed to serve you for many years. We are confident that it will become your faithful and reliable companion on the path to health ...

## 1.2 Kit Contents

In this section you can familiarize yourself with the standard basic configuration. The kit can contain different types of coils, emitters, cables and additional components (the contents of your kit, see section 4.6 “Kit Contents”).



1. DC power supply 18V, 0.7A;
2. “Live Sinus 6” generator;
3. electromagnetic field indicator (gray color);
4. electric field indicator (green color);
5. XLRmini – USB cable for connecting of coils in low-voltage capacitive mode;
6. color marked XLRmini – USB cable for connecting of coils in high-voltage capacitive mode;
7. USB-A – USBmini cable for connecting the generator to a PC;
8. flat universal coil “3 in 1”;
9. torus shaped capacitive coil;
10. contact electrodes;
11. XLRmini – Banana (x2) cable for connecting of contact electrodes



### 1.3 Generator connectors and power connections

#### Generator connectors are located on its rear panel:

- XLRmini connector for emitters and contact electrodes;
- DC connector for power supply;
- USB mini connector for computer.



#### Connecting the generator to the power supply:

- connect the DC connector of the power supply to the corresponding connector on the rear panel of the generator;
- connect the power supply to your home AC 110-220V.



When power is applied, a short beep is heard, the LEDs on the front panel briefly light up and go out, which indicates that the generator goes into standby mode, in which it can be for an unlimited time.

## 1.4 Front panel of the generator



### a) Control buttons

The **red “POWER” button** is: to turn on/off, power level selection, factory reset.

The **gray button “Fibonacci AM + FM”** is to turn on/off the complex (Amplitude + Frequency) dynamic modulation along the Fibonacci series.

The **gray button “TIMER”** is: select the off timer, change the waveform: sine/meander.

### b) LED indication on the front panel of the generator

**The top row contains 4 LEDs and has the following functions:**

- indication of the selected timer;
- color indication of one of three power level values;
- indication of the shape of the output signal (sine-meander) in the mode of operation with Mishin emitters.

**The bottom row contains 2 LEDs indicating the operating modes:**

- blue LED is an indication of high-voltage mode;
- yellow LED is an indication of complex (Amplitude + Frequency) dynamic modulation along the Fibonacci series.

## II MISHIN EMITTERS (COILS)

### 2.1 Connecting Mishin emitters (coils) to the generator

a) the XLRmini connector of the cable is connected to the corresponding connector of the generator:



b) USB connector from the opposite end of the cable is connected to the USB connector of the coil:



If the coil is connected to the generator **with a cable without color marking**, this is a **low-voltage capacitive mode**, if the connection is made with a **color marking cable**, then this is a **high-voltage capacitive mode** (in this case, the generator automatically switches to high-voltage mode and when the generator is turned on, a blue LED on its front panel lights up, for more details see section 2.4).



## 2.2 Turning on the generator with Mishin emitters

The generator is switched on in resonance mode (work with Mishin emitters) by a single SHORT pressing of the red “POWER” button on the front panel of the device.



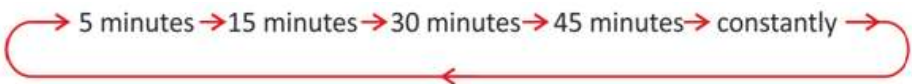
After a short press on the red “**POWER**” button, a short beep is heard and the LEDs on the generator panel begin to flash synchronously and rapidly, indicating the process of searching for the resonant frequency and measuring the electrical Q-factor of the connected coil. The successful finding of the resonant frequency is accompanied by a short beep. The end of the process of measuring the parameters of the connected coil is accompanied by another short sound signal. The generator enters the operating mode, frequent synchronous blinking of the LEDs (one or four) turns into slow, with a frequency of about 1 time per second, or continuous light (depending on what settings were in the previous turning on of the device).

If, when the generator is turned on, the resonant frequency is not found (a malfunction of the coil, connecting cable, the generator itself, or, possibly, its incorrect setting using an external software application), the generator is automatically turned off (transition to standby mode).

## 2.3 Timer, output power, waveform (sine or square wave)

### Setting the off timer

The choice of the required session time is made by short pressing the “TIMER” button after the generator has successfully switched to the operating mode. The timer is switched in a circle:



The timer value is indicated by the lighting of the corresponding LED on the front panel of the generator. In the “constantly” timer mode, all 4 LEDs on the timer line on the front panel of the generator blink synchronously (with a frequency of 1 time per second) or light up continuously.



## Output power

After turning on the generator and entering it into operating mode, you can set the required power from three fixed values: **50% - 100% - 200%**. The selection is made by short periodic pressing of the red **“POWER”** button on the front panel of the generator. The output current (power) level is indicated by changing the color of the timer LEDs:

green – 50%, yellow – 100 %, red – 200 %.



Some particularly sensitive people require a gradual increase in coil power even during one session. To implement such a possibility, one more mode has been added with a stepped auto-switching of 3 power levels during one session (**“Stage # 1”**). If this mode is selected, the timer time for the specified session (except for the **“Constantly”** timer, in which this mode does not work) is divided into 3 segments, each of which has its own power level. By default, the times of each step are equal, the power levels correspond to the levels of **50% -100% -200%**.

This mode is indicated on the front panel of the generator by frequent blinking of three (out of the available four) and usually unused LEDs. Automatic step change during a session is accompanied by a short beep (unless the sound was turned off in the generator settings).

In the program **“Live Sinus Pro”** for Windows, the corresponding fields have been added to the section **“Generator settings”**, which will allow, if necessary, to arbitrarily adjust the durations of the steps and their power levels.

In addition, in the same section “Generator settings” you can activate one more mode with stepwise switching of power levels during the session - “**Stage #2**”. Only after that it becomes available from the generator panel. In this mode, the power level changes every 30 seconds (by default). Unlike the previous step mode, this one also works on the “Constant” timer. The mode is indicated by sequential color change of the activated timer LEDs (**green-yellow-red**) on the generator panel with a frequency of about 1 time per second.



### Waveform at the generator output

By default, the generator is set to the “sine” waveform. For health sessions A. Mishin recommends only this waveform. For experimental purposes, the waveform (sine / meander) can be changed from the generator panel. **To switch over, press and hold the TIMER button for at least 5 seconds until a short beep is heard.** The LED indication on the front panel of the generator in the top row (on the timer line) will mean:

- flashes with a frequency of about 1 time per second this is a sine;
- permanently lit this is a meander.

## 2.4 Working with emitters (coils) in different modes

### a) low voltage capacitive mode

This is the standard mode of using Mishin coils and the first one proposed by A.N. Mishin. In this version, the coils (torus or flat in the form of a disk) are connected to the generator using an XLRmini - USB **cable without color marking**. In this mode, both a flat universal coil and a capacitive torus coil can work.



The electromagnetic field indicator (in a rectangular gray plastic case) in this mode glows brightly above the coil, the intensity and range of the indicator glow above the coil depends on the power level (output current) set on the generator.

**b) high voltage capacitive mode**

A mode in which the coil also operates in a capacitive mode, but at the same time the unwanted electromagnetic field is suppressed tens of times, and the useful electric field is amplified 3-5 times (for details, see the article on our website <https://live-sinus.com> in section "Information"). The connection to the generator is made via a color-marked cable. In this mode, both a flat universal coil and a capacitive torus can work. In this case, when the generator is turned on, it automatically switches to high-voltage mode, and a blue LED on the generator panel lights up to indicate that this mode is on.

In high voltage capacitive mode, the electromagnetic field indicator (in the gray case) is usually off (which confirms that the parasitic electromagnetic field is extremely weak). To check the coil in high-voltage mode, we recommend using another indicator - the green indicator of the electric field (green)



### c) high-voltage static mode (so-called “pure static” mode)

This, according to A. Mishin, is an auxiliary mode, which is usually effective only in certain cases, for example, with autoimmune diseases. The coil in this mode stimulates the immune system and the entire body as a whole.

*In this version of the device, the static cable is not included in the basic kit. The reasons are: the **high-voltage capacitive mode** took all the best from the **low-voltage capacitive** and **high-voltage static modes**, while free from their disadvantages. The level of the electric field (“static”) in the high-voltage capacitive mode is practically the same as in the static mode, i.e. in fact, the static mode has lost its relevance. And, in order not to confuse users with many options, it was decided to exclude the cable for static mode from the kit. However, for those wishing to use high voltage static mode, such a cable can be purchased separately on our website.*

## 2.5 Fibonacci Complex (AM + FM) dynamic modulation mode on the Fibonacci series

To increase the therapeutic efficiency, according to the recommendations of A. Mishin, the mode of complex (amplitude + frequency) dynamic modulation with acceleration along the Fibonacci series was added to the generator's operation. By default, this mode is enabled, as indicated by the yellow LED indication in the bottom row.



You can turn this modulation on or off with the middle button labeled **“Fibonacci AM + FM”** on the front panel of the generator. When **“Fibonacci AM + FM”** modulation is off, you can enable and configure fixed amplitude and / or frequency modulation via an external computer application, if necessary.

## 2.6 Using coils from other manufacturers or self-made ones

One of the advantages of the “Live Sinus 6” generator is its versatility, i.e. it can work with coils from different manufacturers, including homemade ones. To do this, it is necessary to ensure the identity of the connectors for connecting the coils (using the appropriate adapters, or re-soldering the connectors). It may be necessary to change the default search limits for the resonant frequency of the coil in the generator settings.

**Correct operation with third-party coils in high voltage mode is not guaranteed.**

## 2.7 Recommendations for the use of Mishin coils

The general principles are not complicated at all and have been repeatedly voiced by A.N. Mishin.

The main principle is “do no harm”, therefore, during the first weeks, work with coils should be started in a test, sparing mode for 15-30 minutes per session, 2-3 sessions per day. For elderly people and (or) with serious illnesses, the first sessions can be limited to 5-10 minutes. In the future, the duration of exposure can be selected independently, focusing on your own feelings. With intensive use, the total duration of the sessions can be up to several hours a day. For preventive purposes, one session lasting 15-30 minutes every other day is enough.

The coil can be applied to the naked body, or through clothing - there is no difference. Likewise, it doesn't matter at all which side of the coil is used.

It is important, and this applies primarily to the **low-voltage mode** (in which there is a strong undesirable electromagnetic field), so that in the immediate vicinity of the coil (20-30 cm) there are no metal objects, especially massive or closed ones (metal springs in the mattress, bracelets, chains, etc.). The metal absorbs the coil's field and drastically reduces its efficiency. Metal implants in the body tend to have a small area and reduce the efficiency of the coils only slightly. In the **high-voltage version** of the connection, the requirement (the metal should not be near the working coil) is no longer relevant.

During the session, the coil is applied to problem areas (where it hurts). It is advisable to set aside a few minutes for working with the kidneys (apply the coil to the lower back) - it is through the kidneys that the main stream of toxins excreted from the body will go. For those who are heavily slugged or have kidney problems - the first sessions can only be started with them. At the same time, to facilitate the work of the excretory system, you should drink more ordinary pure water.

### **Flat coil and torus shaped coil**

These are simple analogies: a flat coil "shines" with its field, like a round bulb – wide in all directions, therefore such a coil should be used to influence large organs and the whole organism. The flat coil is available in 2 sizes: medium and large. Medium diameter is about 150 mm, large – 225 mm. A large coil has, accordingly, a larger field size, in addition, the coil winding is made of high-quality copper stranded fluoroplast-insulated wire. This option significantly improves the parameters of the coil and increases the strength of the useful electrical field ("statics"). The electrical figure of merit of such a coil (in the low-voltage mode) is about 110–120 or more (for a medium coil, this parameter is usually in the range of 30–40).

The torus-shaped coil has less power, but due to its shape, like a flashlight, it "shines" with a narrower "beam", therefore such a coil is much more effective against point "sores" (warts, polyps, papillomas, herpes, joints, kidney / liver stones, local burns, ear inflammation, etc.).

In the first weeks of working with the coils, various reactions can occur - from "I don't feel anything" to a strong "hangover syndrome" (intoxication from toxins and pathogens released into the bloodstream under the influence of the fields of the coils). In the second case, this means that there is a rapid cleansing of the body. There are a large number of intermediate reactions between these extreme



reactions: for example, heaviness in the head, pressure surges, increased drowsiness, or vice versa - a surge of strength and vigor, a feeling of a metallic taste in the mouth, sometimes a sensation of pulsations, tingling, or even movement in the area of the coil's impact. A skin rash may appear for a short time, because the skin, along with the kidneys, liver and lungs, performs excretory functions. Sometimes, a temporary exacerbation of chronic diseases can occur. This is a normal reaction and you shouldn't be afraid of it. It is imperative to monitor any unusual reactions in your body. In case of painful manifestations, one should either reduce the time of sessions, or reduce their number, you can make a temporary pause in the sessions. As in any business, when working with the device, regularity, consistency and patience are important. Some problems go away in 1-2 sessions, while others may take months of persistent work. As a rule, the older, slugged and sick person, the stronger the body's reaction to the fields of Mishin coils. That is why recommendations for the elderly and weakened people are to start working with coils in the first weeks literally in a "test" mode.

**"Live Sinus" coils are made universal** and therefore they can work in different modes, depending on the option of connecting to the generator.

According to A. Mishin, the main health-improving one is the coil in the capacitive low-voltage mode (in our case, this is when the coil is connected to the generator using a cable without color marking).



**The new high-voltage capacitive connection mode** (see the article on our website <https://live-sinus.com> in the Information section) is the safest (**the parasitic electromagnetic field is suppressed tens of times**) and, at the same time, the most effective (**useful electric field (“Static”) increased by 3-5 times**). **Therefore, the recommendation is to use this particular mode as the main health-improving one.**

To do this, the coil (flat or torus) is connected to the generator using a cable with a blue marking (in this case, the blue LED on the front panel of the generator lights up in operating mode). In some cases (with a strong slugging of the body or with increased sensitivity to electric fields emitted by the coils) this mode may be too strong and causes a quick reaction, the so-called “overdose”. In this case, you should: reduce the session time, use the minimum power, or temporarily switch to a less efficient low-voltage capacitive mode (when the coil is connected to the generator using an uncolored cable). After successfully passing the cleaning period of the first weeks, it is **the high-voltage capacitive mode** (and the flat coil) that can be further used in long sessions. You can place the coil all night in close proximity to the bed or even under the mattress, as close as possible to the problem area, because the coil is in safe mode (the unwanted electromagnetic field is extremely low, almost at the noise level), while the healing electrostatic field works effectively at a distance of about 0.5-1 meters.

A. Mishin’s recommendations for low-voltage capacitive mode of coils: current 50-150 mA RMS. For the generator “Live Sinus 6” this corresponds to 50-100% power (green and yellow indication on the generator panel). For high-voltage modes, when the parasitic electromagnetic field is almost at the noise level, you can safely use higher power levels, for example, 200% (red indication color), which corresponds to 300 mA RMS (you can set an even higher current through an external program for Windows). At the same time, you always need to listen to the reactions of your body and, in case of unpleasant sensations, the first thing that should be done logically is to reduce the power level.

**The Live Sinus 6 kit can be used not only for humans, but also effectively for animals and plants.**



### III CONTACT ELECTRODES: ANTIPARASITIC BIORESONANCE MODE (ZAPPER)

#### 3.1 Connecting contact electrodes to the generator

- a) XLRmini connector of the cable for electrodes (with two Banana connectors on the opposite end) is connected to the corresponding connector of the generator:



- b) Banana connectors from the opposite end of the cable are connected to the electrodes:



#### 3.2 Switching on the generator in contact bioresonance mode

The generator is switched on to work with contact electrodes **by pressing and holding the red “POWER” button for 3 seconds**. When the generator is turned on in this mode, 4 short beeps are heard with simultaneous synchronous blinking of the timer LEDs - this is a warning for the user that a bioresonance therapy (BRT) session will begin now and contact electrodes must be applied to the body (or taken with hands), having previously connected electrodes to the generator output connector on its rear panel. Further, the LED indication on the front panel of the generator turns into “walking”, with a frequency of 1 time per second (timer LEDs) - this is a sign of a started session.

### 3.3 Session recommendations

The duration of one session with standard settings is approximately 7-8 minutes. The usual scheme for using the device is as follows:

**session: 7-8 minutes**

break: 20 minutes

**session: 7-8 minutes**

break: 20 minutes

**session: 7-8 minutes**

It is recommended to conduct BRT sessions at the same time, plus or minus two hours.

For better contact of the electrodes with the body, you can either slightly moisten the skin in the place where the electrodes will be applied, or wrap them with a damp cloth.

*During the session, a slight tingling sensation is possible at the points of contact of the electrodes with the skin, which is normal and does not pose any danger. It is caused by the flow of a weak electric current. Typically, this tingling sensation is felt by people with sensitive skin. In such cases, you can wrap the electrode with a damp cloth or paper to increase the contact area. At the same time, the absence of such sensations is also completely normal. The efficiency of the device does not depend on the presence or absence of any sensations. You can check the presence of voltage on the electrodes by touching both electrodes to the tongue (the most sensitive part of the body) - a slight tingling will be felt.*

The position of the electrodes on the body can be any, but it is not recommended to keep them too close to each other, because in this case, the therapeutic effect can be reduced. The most common and simple options are to hold the electrodes, one in each hand, or one electrode in the hand, and the other under the foot (keep the electrodes according to the scheme: left leg, right hand, and then change: right leg - left hand).

For prophylactic and health-improving purposes, it is recommended to undergo a 2-3 week course of daily use of the device in bioresonance mode for both adults and children, and then conduct BRT sessions once every 1-3 days. In the case of serious chronic diseases, BRT sessions should be performed twice a day for at least a month.

It is necessary to understand that even complete suppression of the activity of pathogens for a certain time does not guarantee automatic recovery, because with weakened immunity, re-infection and activation of microbes and parasites

easily occur. The device, suppressing the activity of pathogens, provides a respite to the body's defenses, giving them the opportunity to recover and complete sanitation.

Restoration of immunity is a fairly long-term organic process. A systemic use of the device is required in order to bring immunity to a qualitatively new level, although in most cases even a single use of it brings a tangible improvement in well-being for a certain time (from several hours to several days in case of chronic diseases). At the same time, it is necessary to continue to comply with all medical recommendations, if any, and, of course, try to lead a healthy lifestyle.

**Possible complications:** complications during BRT may be associated with the manifestation of intoxication due to the rapid death and release of decay products of pathogenic organisms into the blood. To reduce the manifestations of intoxication syndrome during a pause and during the day, an increased intake of liquid (1-1.5 l) is recommended, preferably low-mineralized purified water.

A temporary exacerbation of the underlying and/or concomitant diseases is possible (similar to that described in the section on working with Mishin emitters), which is an indirect confirmation of the correct therapy.

**Contraindications:**

- pregnancy;
- use of a pacemaker;
- use with caution in case of heart disease in the stage of decompensation.

Persons suffering from cardiovascular diseases (especially arrhythmias) or pronounced neurovascular dystonia are not recommended to hold the electrodes in their hands (both at the same time) or apply one of the electrodes to the heart area. If unpleasant sensations arise, it is recommended to change the location of the electrodes.

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For more information see the book by Hulda Regehr Clark: "The Cure for All Diseases"

**Important note:** contact electrodes are made of chemically pure copper, which itself has bactericidal properties. It is strictly unacceptable to use electrodes made of metal alloys, for example, brass or stainless steel, which may contain toxic impurities (lead, chromium, etc.).

### 3.4 Electrode voltage level, default settings

The level of the signal amplitude on the electrodes during the BRT session can be selected from 3 fixed values. Switching, as when working with Mishin emitters, is made by short pressing the red “POWER” button on the front panel of the generator, while the color indication on the generator panel changes:

 green is the minimum level;

 yellow is the middle level;

 red is the maximum level.

In the generator’s default settings, the bioresonance mode covers the maximum possible frequency range (rectangular signal of positive polarity with a frequency from 10 kHz to 900 kHz). These settings are universal and will suit the vast majority of people for preventive and therapeutic sessions. If desired and necessary, all parameters of this mode can be easily reconfigured using the “Live Sinus Pro” program for Windows: frequency range, number of swing periods, number of periods in antiphase (“shock”), discreteness (step) of frequency change, total number of cycles, waveform. In addition, for convenience, you can activate the reminder function of the end of the 20-minute pause between sessions.

## IV GENERAL PROVISIONS

### 4.1 Turn off and saving the current generator parameters

The generator is turned off by pressing and holding the **POWER** button for 2 seconds

- the device will turn off and go into standby mode. In addition, the generator can be turned off by disconnecting it from the mains.

**The device can also be turned off automatically:**

- after the expiration of the specified timer;
- when the generator loses /does not find the resonance frequency, in the case of working with Mishin emitters (for example, when the electrical connection is broken, or when the electrical Q-factor of the connected coil is extremely low).

In 20 seconds after any parameter change using the buttons on the generator panel, new values (level and waveform, timer, Fibonacci AM + FM) are automatically written into the generator's non-volatile memory. The same happens when you turn off the generator using the "POWER" button. The next time the generator is turned on, it will start working with exactly the parameters that were specified (using the buttons on the generator panel) in the previous session.

## 4.2 Software application

If desired / necessary, the generator "Live Sinus 6" can be connected using a Windows program for a PC. In this case, the external device:

- a) becomes a monitor on which all parameters of the generator, coil and signal can be monitored;
- b) allows you to directly control the operation of the generator, i.e. becomes an external control panel. The "Live Sinus Pro" program for Windows can work with individual presets, as well as with scripts.
- c) allows you to completely change the generator settings for your specific needs, including activating additional functions that are not available from the generator panel.

The current version of the program, the firmware update file, instructions can be found on our website: <https://live-sinus.com/>

## 4.3 Factory reset

After updating the microcontroller firmware or to return to the factory settings (if the settings were changed using an external application), it is recommended to perform a general reset of the generator. To do this, press and hold the "POWER" button for at least 8 seconds. This can be done both in the standby mode of the generator and in the working one.

## 4.4 Technical specifications

- generation method: DDS (Direct Digital Synthesizers);
- generated signal form:
  - sine;
  - meander;
  - triangle
- operating frequency range (sine):  
10 kHz ... 1 MHz
- maximum load current (at 24 V supply voltage):  
700 mA RMS;  
1960 mA RMS;  
(3 power levels at the load are available from the front panel of the generator: 50, 100, 200% (the current 141 mA RMS of the standard generator is taken as 100%);
- maximum output voltage of the generator (at 24 V supply voltage):  
7 V RMS;  
19,8 V (peak to peak);
- auto-tuning modes:
  - AUTO mode:**
    - a) continuous auto-tuning to the resonance frequency (according to the maximum current to the load);
    - b) continuous auto-tuning of a given current through the load;
  - PROFI mode (this mode is used by default):** periodic automatic adjustment of frequency and current after a user-specified time (default 30 sec.);
  - ENGINEERING mode:** automatic adjustment of frequency is disabled, automatic adjustment of current is enabled by default;
- dual mode timer:
  - a) off timer (5 fixed values are available from the front panel of the generator);
  - b) timer of periodic switching on at a given time interval (available from an external application);
- phase shift (voltage relative to current): there is any value in the range of  $\pm 90^\circ$  (in AUTO mode, the phase shift is not adjustable and by default it is always  $0^\circ$ );
- modulation of the main (resonant) frequency:
  - AM + FM complex dynamic with acceleration along the Fibonacci series (not configurable);**

**AM fixed: amplitude modulation:**

- a) envelope shape: sine, meander, triangle;
- b) AM depth: 0 - 100%;
- c) envelope frequency: 0.1 Hz - 1000 Hz;

**FM fixed: frequency modulation (sweep):**

- a) modulating shape: sine, meander, triangle;
- b) depth (range) FM: 0.1 kHz - 1000 kHz;
- c) frequency (speed) FM: 0.1 Hz - 1000 Hz.

Fixed modulations AM and FM are independent of each other and can be applied separately or simultaneously.

**• Communications:**

- USBmini connector - for communication with an external program on a PC (Windows) and / or firmware updating;
- XLRmini connector - for load (emitters, electrodes) connecting;
- DC connector (2.1x5.5 mm) - for power supply connecting;

**• Power supply: 12–24 V stabilized or unregulated DC voltage, recommended supply voltage: 18–20 V**

- Power consumption, less: 12 W
- Electrical class: Class II
- IP rating: IP30
- Weight and dimensions: 220 g, 135x109x40 mm
- Operating conditions: ambient temperature from + 5 ° C to + 40 ° C, relative humidity up to 80%

## 4.5 Safety requirements

- The device is designed to provide adequate safety for the user.
- It is forbidden to use the device without first studying this manual.
- Do not switch on the device with an open housing.
- Do not block the ventilation openings on the instrument case.
- Opening and repair of the device is allowed only by specialists with the required qualifications.
- Do not use a defective device.
- Do not use the device in damp rooms (for example, in a bathroom) or when moisture gets inside the case.
- In the event of a malfunction of the device and in emergency situations, immediately turn off the device and contact the dealer from whom the device was purchased, or directly to the manufacturer.



#### 4.6 Contents of delivery

Item	Parts	Qty
1	Generator "Live Sinus 6"	
2	Power supply	
3	Low Voltage Capacitive Mode Cable (XLRmini-USB)	
4	High Voltage Capacitive Mode Cable (XLRmini-USB), color marked	
5	USB-A - USBmini cable (for connecting the generator to a computer)	
6	Electromagnetic field indicator (gray)	
7	Electric field indicator (green)	
8	Capacitive torus coil	
9	Universal reel "3 in 1", 15 cm, plastic / plywood	
10	Universal coil "3 in 1", 22.5 cm (copper stranded with fluoroplastic insulation), plastic / plywood	
11	Universal "3-in-1", dual-frequency coil, 15 cm, plastic	
12	Step-up capacitive torus with 2 additional connectors (for connecting spikes and labyrinth coil)	
13	Emitter "Spikes" 15 cm	
14	Emitter "Spikes" 22.5 cm	
15	Emitter "Double Labyrinth" 22.5 cm	
16	Set of two electrodes for BRT	
17	Cable for connecting electrodes (XLRmini - Banana-x2)	
18		
19		
20		
21		

#### 4.7 Acceptance certificate, warranty

The set of vortex electrostatic physiotherapy "Live Sinus 6" has been manufactured and approved for use.

The manufacturer's warranty for all components of the kit is 1 year from the date of sale. The manufacturer reserves the right to make changes in the design of the product that do not impair its consumer properties.

Date of issue: \_\_\_\_\_ Date of sale: \_\_\_\_\_

Controller: \_\_\_\_\_ Seller: \_\_\_\_\_

Manufacturer:

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