

biomag[®] Lumio 3D-e

en | Instructions for Use



























Pulsed Magnetic Therapy Device















1 SAFETY INSTRUCTIONS AND WARNINGS

- ⚠ WARNING** – The manufacturer is not responsible for improper use of the medical device!
- ⚠ WARNING** – Observe the Intended Purpose, Indications, Contraindications, and other provisions and instructions in this Instructions for Use.
- ⚠ WARNING** – Modifications to this medical device are prohibited.
- ⚠ WARNING** – Do not wrap the power cords of the medical device around your neck – there is a risk of strangulation.
- ⚠ WARNING** – The medical device may cause radio interference or interrupt the operation of nearby equipment. It may be necessary to take measures to mitigate this effect, such as reorienting or relocating the medical of the medical device.
- The medical device may damage nearby devices such as wristwatches during application, magnetic media, credit cards, etc. A distance of 1 m or more is safe.
- ⚠ WARNING** – Failure of the customer to ensure that the service check is performed at the specified intervals will void the warranty of the medical device and cause loss of responsibility for its continued operation by the manufacturer.
- Before using the medical device for the first time, read the Instructions for Use thoroughly!
 - The medical device must not be used for any other purpose and by other persons than described in this manual. The manufacturer is not liable for any damages. The risk is borne by the user.
 - The medical device may only be operated and handled by persons who meet the Operator Profile and, when using it, follow these instructions.
 - In case of missing product labelling, contact the dealer or manufacturer.
 - Do not plug in anything else than the original BIOMAG® applicators into the connectors on the device.
 - Protect the medical device from falling and damaging, paying particular attention to the device connectors and applicators.
 - Do not place the applied part (applicator) on broken skin (abrasions, bedsores, cuts, etc.), always use a protective layer, such as a disposable or other hygienic pad, when applying.
 - The medical device must not be soaked, washed with water or used in wet or humid environments (bathing, sauna, etc.). Do not expose the medical device to moisture.
 - If the medical device is used by several users, disinfection of the applicators is necessary before each subsequent use.
 - Do not place the medical device near heat sources.
 - Do not place the device near a light source for better legibility of the display.
 - Do not use the medical device if it is damaged.
 - Any tampering with the medical device is prohibited.
 - The medical device must be connected to a suitable electrical supply source with no signs of damage to the supply cable. If you are not sure, have an inspection performed by an inspection technician.
 - Do not use the medical device if the supply cables of the applicators are damaged. Have an inspection performed by a service technician.
 - Do not pull on the supply cables of the medical device.
 - Contact the dealer or manufacturer in case of damaged or missing parts of the instruction manual.
 - In case of doubt regarding the instructions in the instructions for use contact the manufacturer's customer support.

3.4 List of abbreviations and symbols used

List of symbols used on the label				List of abbreviations	
	Proceed according to the Instructions for Use		Alternating current (AC)	PEMF	Pulsed electromagnetic field (Pulsed ElectroMagnetic Field)
	Device with protection Class II		Direct current (DC)	LPMF	Low-Frequency Pulsed Magnetic Field
	BF type applied part		Caution, important warning	MIMI	Maximum Intensity of Magnetic Induction
	Power supply symbol		Keep safe from heat	mT	Millitesla = unit of magnetic induction
	Power supply symbol		Keep away from moisture	f	Frequency = pulse rate
	Electric equipment intended for indoor use		Temperature limitation	Hz	Hertz = frequency unit
	Environmentally friendly disposal of the device		Humidity limitation	min	Minute = time unit
	Applicator polarity symbol		Atmospheric pressure limitation	s	Second = time unit
	A product label by which the manufacturer indicates that the medical device is controlled by an authorised person and complies with the applicable requirements for being on the market in the European Economic Area				
2265					
	Manufacturer		Date of production	EMC	Electromagnetic compatibility
	Distributor		Serial number	*	Explanation provided
	Medical device		Catalogue name of the product		
	Unique Device Identifier (a series of numeric characters created based on a globally recognised standard for medical device identification and coding)				

List of used symbols on the medical device and in the Instructions for Use

	Gradual switch-on of inputs		3-pin connector		Basic setting
	Indications		2-pin connector / 1-pin connector		Language options
	Contraindications		Test		Audio setting
	Principle of biological action		PIN		Confirmation button
	Start		Stop		

Explanatory notes

Medical device = device with applicators
Device = electronic control unit
Applicator = attachable applied part of the device

4 BASIC INFORMATION

4.1 Principle of biological action

Magnetic therapy is based on the influence of an artificial magnetic field of certain parameters on the human body. It is a physical therapy which generates a large-area low-frequency pulsed magnetic field. As is stated in the intended purpose, physiological changes in tissues after the application of magnetic therapy occur due to pain mitigation and vasodilation of capillaries and precapillaries, which leads to the following treatment effects:

- **pain-relieving** – analgesic, reduces pain
- **healing** – promoting regeneration, anti-inflammatory and anti-rheumatic effects
- **anti-swelling** – reduces swelling (oedema)
- **myorelaxing** – relaxes muscles
- **vasodilating** – improves microcirculation in particular
- **metabolic-detoxifying** – accelerates the elimination of toxins and metabolites

The low-frequency pulsed magnetic field (LPMF) acts on the cell membrane permeability, i.e., it improves and accelerates metabolism. It leads to the vasodilation of tiny capillaries and precapillaries at the application site and markedly increases blood perfusion and oxygenation of a body part (microcirculation improvement) to which the LPMF is applied.

It results in increased metabolic exchange and improved supply of exposed tissues with oxygenated blood and nutrients and creates optimal conditions for the healing and regeneration of damaged tissues. Due to joint influence these processes enable the above given healing effects. Pulsed electromagnetic field (PEMF) therapy goes through the entire body, affects each cell in the entire exposed tissues and can affect deep and surface structures when applied.

Pain-relieving effect

Due to electromagnetic induction, the PEMF determines the formation of current in nerve fibres. This induced current causes blocking of painful sensation from the painful site through the spinal cord to brain centres. As a result of this and some other mechanisms, pain is suppressed. These other mechanisms also include the increased formation of endorphins, suppression of inflammation and swelling.

Furthermore, the myorelaxing mechanism or myotonus release are applied. Increased production of endorphins and control of calcium ion transfer across the cell membrane also helps achieve vasodilation, and analgesic and calming effects. After applying PEMF, increased activity of lactate dehydrogenase in exposed muscles has been proven. Lactate dehydrogenase determines the removal of lactic acid, which stimulates nerve receptors and causes pain.

Healing effect

The healing and regenerative effect of the PEMF on bones and soft tissues is explained by the non-specific irritation of the cytoplasmic (cellular) membrane. In this membrane, the metabolic chain is activated and its key point is the ratio change between cAMP and cGMP, thus the ratio change between cyclic adenosinemonophosphate and cyclic guanosine monophosphate. In case of using the regenerative effect on bones, the applications lead to the increase of osteoclasts and to the subsequent start of the process of bone tissue regeneration. The PEMF considerably increases healing, activates the creation of new tissue, calcification and leads to increased sensitivity to parathormone which, besides other things, helps control the level of calcium in the body. Better blood perfusion of tissue and greater oxygen saturation helps the inflammation to reduce faster in all tissues and, at the same time, the effect of possible antibiotic treatment is potentiated.

Healing of damaged peripheral nerves is considerably accelerated, and the regeneration of neurofibrils (fibres in neurons) and the growth of central axons (fibres coming out from cells) also accelerate.

Anti-swelling effect

Swelling is caused by the failure of blood circulation at the level of blood capillaries with the subsequent accumulation of fluid between cells. The PEMF applications aim to counteract the main causes of swelling, i.e., increased blood pressure in capillaries (the smallest blood vessels in the body), the disorder of fluid outflow from tissue and also the possible increase in the permeability of the capillaries walls. Improved perfusion, i.e., better tissue flow, plays an important role in the anti-flow effect of PEMF. Accelerated metabolism after the application of low-frequency pulsed magnetic therapy enables faster re-absorption of swelling and significant anti-inflammatory and analgesic effects in the affected area.

Myorelaxing effect

The PEMF accelerates the flushing of acidic metabolites, which cause painful irritation in muscles and sites of chronic inflammation. The flushing of these metabolites is given by improved perfusion (flow through tissues) and the increased activity of lactate dehydrogenase, which conditions the degradation of lactic acid. PEMF applications considerably reduce muscle spasm (cramps). The therapy also decreases radicular (root) irritation, which often causes tingling and throbbing or burning pain. By suppressing pain the PEMF modulates reflexive changes in the body. Modulation of these reflexes in the body causes muscle spasms or contractures and cramps to relax. This relaxation results in additional pain relief. The PEMF application leads to the relaxation of skeletal muscles and improved mobility. This improvement of mobility enables further extension of therapy, e.g., in the form of easier physiotherapeutic exercises.

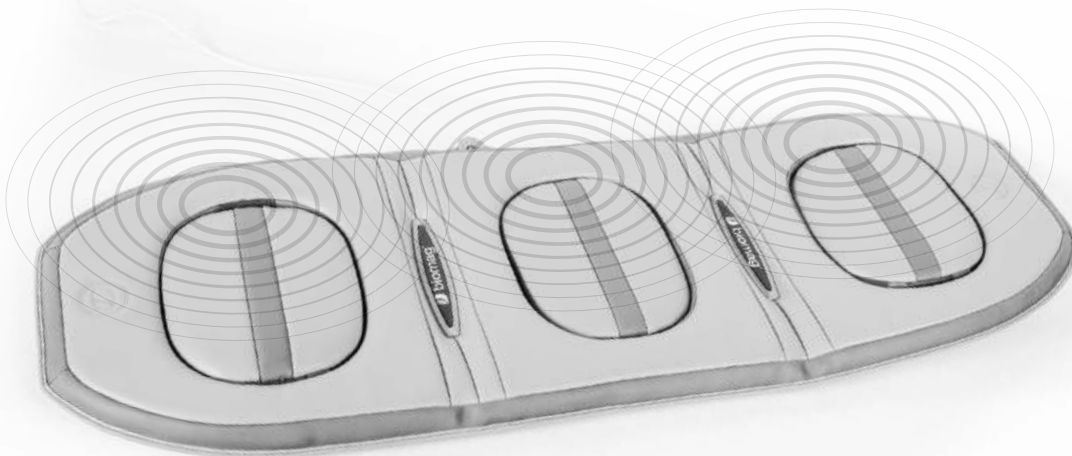
Vasodilating effect

With suitably set parameters the PEMF acts against blood sludging, i.e., agglutination of the erythrocytes that transport oxygen in blood. This results in the repeated dispersion of individual erythrocytes, thus the area of oxygen binding becomes larger. The blood which has passed through a suitable pulsed magnetic field thereby has a higher ability to bind oxygen and transport it to the tissues. Low-frequency pulsed magnetic therapy activates the parasympathetic nervous system and promotes the reflux of Ca^{2+} ions, which leads to relaxation of the blood vessel muscles (pre-capillary sphincters in particular) and to subsequent vasodilation.

The LPMF application affects the polarisation of red blood cells by positive charge. The polarisation of blood cells acts on the tone of fine vessels, arterioles and capillaries. It results in the enlargement of this blood pool (vasodilation and microcirculation improvement), thus in the better supply of tissues with oxygenated blood and nutrients. Improved microcirculation also contributes to the faster removal of toxic substances and metabolites out from tissues. PEMF also considerably increases partial pressure of oxygen and acts on blood cell plasticity or elasticity. More flexible blood cells can then pass through the blood pool better. In addition, with long-term applications of this method, neovascularisation also occurs and thus faster formation of new vessels. At the same time, the magnetic field reduces the risk of blood clots (thrombi).

Metabolic-detoxifying effect

PEMF passes evenly through human tissue and is one of the few methods that can also act at sites of internal inflammation. Where the PEMF is applied, it acts on each cell and induces weak electric currents in it. Due to this induction, the surface potentials of cells change. The basis of every detoxification process is a better supply of nutrients and better removal of metabolic waste from tissues.



4.2 Profile of a patient, operator and trainer

Patient profile

Who can use the medical device?

- **Patient over 9 years of age.**



The medical device may only be used to positively influence medical conditions that have been diagnosed by a physician after having competently ruled out all contraindications.

Operator profile

Who can use and operate the medical device?

- **Trained medical staff in health care institutions (doctor, physiotherapists, nurses) or according to the acts and regulations of the given country.**

Training is performed by the manufacturer's trained representative or the distributor's trained representative.

- **A lay operator (adult) or a patient (may be a lay operator) in a home care setting, and only after training in the use of the device and following the instructions and directions in the manual.**

Training is performed by the manufacturer's trained representative or the distributor's trained representative.

The medical device must not be handled by children and other unauthorised and untrained persons.

Familiarity with the characteristics of the medical device, the conditions of use and the operator profile shall be confirmed by the signature of the trained person.

Profile of trained instructor

Who can instruct and train for the medical device?

- **An authorised employee of the manufacturer or a representative authorised by the manufacturer with written confirmation (e.g. distributor).**

The record of training may be part of the purchase contract; the training is recorded separately for additionally trained persons.

CAUTION

The medical device must not be used for any purpose or by any person other than that described in this chapter or in any manner other than that described in these Instruction for Use.

The manufacturer is not responsible for possible damage. A user bears the responsibility themselves.

Serious adverse events must be reported to the manufacturer and to the relevant authority of the Member State.



5 TECHNICAL SPECIFICATIONS: MEDICAL DEVICE, DEVICE AND APPLICATORS

5.1 Technical description of the medical device

Medical device designed for non-continuous operation. It is constructed for the application of pulsed magnetic fields of low frequency (the scope of frequency is 4–81 Hz), the new model is based on the previous series.

The medical device consists of a device and attachable applicators. The device is a control unit from which electric pulses of specified parameters are sent to the applicators, which are equipped with a cable and a connector, with which the applicators are connected to the device outputs. The applicator is the applied part of the medical device.

Standard equipment:


- Device with an adapter
- 2 applicators standard issue
- Instructions for Use, holder, tester
- Bag


The content can be enlarged according to the requirements and needs of a user.

5.2 Technical description, parameters and device software


5.2a) Technical description of the device

The device is an electronic control unit that is housed in a plastic box, with an information display on the top. At the bottom of the device there is an input for the power connector and 3 outputs for applicators.

The back side includes a label with identification data of the system and the manufacturer. The device itself is equipped with control software with 6 programs. The application is ended when the selected program has finished. The software version can be displayed on the display before starting the device by pressing the  button for 3 seconds. All indications and controls are located on the front of the device in the chapter **Description of the device**.

Technical design is based on the medical devices Pulsed Magnetic Therapy Device BIOMAG®. The medical device features **3D technology** . The 3D technology is described in the marketing materials as being based on controlled sequential switching on of the individual outputs for the applicators on the device, so that the power of the device is directed to only one output at any given time. Thus, during the application the output is transferred to the applicator gradually; each applicator is switched on separately. This cycle repeats continuously, so each application is maximally effective and optimally efficient.

The radiation of the magnetic field from such separately switched-on parts takes place undisturbed at the moment of the pulse and is not adversely affected by the radiation of adjacent or opposite parts. It is necessary to stress that this connection does not mean a new property of the magnetic field, but only the provision of the more effective transfer of the magnetic field (energy) to the patient. The speed of the magnetic field direction to individual parts of the applicator is pre-set to the maximum, but it is possible to reduce it.

In order to take advantage of this feature of the medical device, special applicators have been designed in which the sequential engagement of their parts is structurally secured. These applicators are connected to the device by the special 3-pin connector .




Because the full power of the device goes to each output separately, connecting multiple standard applicators provides more efficient performance than medical devices without this technology. Medical device standard setting secures the gradual, regular alternation of pulses on individual outputs, always between each pulse.

The device has one mode:

The BIOMAG® Lumio 3D-e with applicators is designed with its setting options for the needs of patients in home care, but also for health care providers who want to use the setting options of the device.

5.3 Technical description and specifications of applicators

We always select from the applicator offer the most suitable ones for the particular therapeutic intention in terms of size and shape. When assessing the suitable use of individual applicators, we concentrate on the applicator to be placed on the body comfortably and as close as possible to the affected place. Some applicators can be fixed to the affected part of the body with an elastic strap.

The applicators are an applied part of the medical device consisting of air coils wound with enamelled copper or other wire into a special construction. During the operation, applicators produce quiet tapping sounds in the rhythm of pulses. The applicator surface is made of quality artificial leather. All applicators are provided with plastic clips holding labels with the manufacturer's logo. The applicators have 1-pin connectors , 2-pin connectors , 3-pin connectors , which are used to connect them to the device.

▪ Round applicators

The applicators of the solenoid type have a hollow cylinder shape. They are used where we put emphasis on even magnetic field action. We use them for deep applications according to their diameter by putting them on the given part of the body.

▪ Flat applicators

The applicators have a board or pad shape and we place them on the larger parts of the body according to their size. They are used where we put emphasis on the size and possible bending of individual parts. We use them for the application to the entire body or limbs.

▪ Combined applicators

The applicators have a flat shape with openings. They are used where universal properties are important. We use them for application to the selected part of the body as a flat applicator or put them on the particular part of the body as a round applicator.

▪ Local applicators

The applicators have a round or oval shape pointing towards the point. They are used where we put emphasis on intensive magnetic field action. We use them for application to the targeted local part of the body.

5.3a) Common parameters and instructions for all applicators

- 1 | Output CYLY cable 4x0.50 mm, 1.60 m in length
- 2 | Cable ending connector JACK 3.5 mm (1x, 2x or 3x – according to the applicator type)
- 3 | The applicator is the BF type applied part.
- 4 | Operation temperature (applicator warming) max. 41°C
- 5 | Ambient operation temperature +5°C to +35°C
Ambient operation temperature for the A6P2, A15P applicator +5°C to +28°C
- 6 | Operating position unlimited
- 7 | Recommended application method through a disposable or other hygienic pad
- 8 | Most of the flat applicators can be attached with fixation aids

Important warning

It is forbidden to use non-original applicators with the medical device, except for accessories authorised by the manufacturer. Do not switch the magnetic field direction of the A6P2 applicator during ongoing application.




Biomag tester

Using the tester you can detect magnetic pulses coming from the applicator and vibrating in the rhythm of frequencies. The north polarity of the applicator is indicated on the nameplate by a circle with a letter **N**.








Additional accessories










You can find all additional accessories (cases, straps, strips, bags, etc.) at your distributor or manufacturer on request.

6.2 Operation – commissioning the medical device

- 1 | First, **connect the applicators** to the device and turn on the device by connecting **the power adapter** to the device and the power supply.
You will hear acoustic signal, and then press the button .
- 2 | The name **LUMIO 3D-e** appears and, after that, **WELCOME**.
- 3 | The screen will gradually show the following information:
Adhere to safety guidelines, indications, contraindications and other instructions in the user manual.
Confirm by pressing the button .
- 4 | **Last choice** of programme is displayed.
- 5 | Next, we choose required program by holding the button .
Choice is confirmed by releasing the button.

ADVICES AND TIPS

- 2-pin connectors  and 3-pin connectors  are correctly inserted when the part of the **connector with the logo**  is facing upwards.
- Hold this button  to shift the menu.
- Press this button  to confirm your selection.
- You can interrupt the program at any time by pressing the  button.
- Press the  button again to continue with the application.
- The program will stop after timeout is shown on the display.

- Before starting the application, you can adjust the selected program such as the reduction time setting intensity or the **3D program**  with time-extended rotation **3D extended** (if part of the equipment).
Follow the instructions displayed on the display.
- Program adjustments will be saved in the device memory even after the application has finished.
Make the changes with a repeated program setting.
- While running the application, double-click  for automatic program repetition (Repeat 4 times, Repeat 3 times, Repeat 2 times, Do not repeat).
- **Device setting by PIN** .
Hold the  button for 3 seconds and simultaneously connect the power adapter to the network.
Release the  button and the display shows Enter PIN.
The menu appears: language selection, test, change of volume and basic setting.
- Change the language by selecting **Language options** .
- Check medical device functionality by confirming the **Test**  item.
- Change the volume in the menu with the **Audio setting**  (Loud / Click / Quiet).
- Confirm the default program setting by the item **Basic setting** .



7 APPLICATION – WHEN AND HOW OFTEN TO APPLY

7.1 Recommended number of applications – how often to apply

2x a day; in more severe cases it can be performed 3 times a day on average or more often, usually for at least 2 weeks, in case of chronic conditions significantly longer. Pre-set times of 20 minutes in individual programs are the recommended time for the induction of the relevant effect and can be extended up to 90 minutes. The minimum recommended number of applications is 10, the maximum number of applications and maximum recommended application times are not stipulated and the applications can be repeated according to the doctor's recommendation on a long-term basis.

7.2 Applicator selection and taking a position before application – how to apply

As for the applicators in our offer (chapter **Technical description and specifications of applicators**), we always select the most suitable one for the particular therapeutic purpose, and place it as close to the surface of the treated part of the body as possible. If pain reduction is needed, it is better to place the applicator on the treated part of the body with the north polarity, when other symptoms should be eased it is better to place the applicators with the south polarity. Polarity marking is given on the production label and described in technical specifications. The north polarity is always the darker side of the applicator and the lighter one is the south polarity.

Preparation before application and the actual application are performed according to chapter **Example of correct connection medical device**. Prior to the actual application, we have to ensure that we know all of the safe operation rules and there are no contraindications (chapter **Safe operation rules** / chapter **Contraindications**).

When selecting the program, it is possible to find out the information on its effects in the description of manifestation and effects of individual programs given in chapter **Principle of biological action**.



7.3 Program selection

Program No. 1 – PAIN-RELIEVING EFFECT

= ANALGESIC

(dominant effect is pain-relieving)

Preferably used in case of all types of pain where the pain is one of the main symptoms of disease and we have to ease it as a matter of priority.

After achieving pain relief, we go over to healing and regenerating programs.

This program can also be used in the following cases:

- with all diagnosed problems where the dominant manifestation is pain;
- with radicular (root) and pseudoradicular syndromes (sciatica, compression of nerves for various reasons);
- if the pain relief must precede, e.g., rehabilitation exercises, locomotive therapy, etc.;
- to relieve special types of pain.

Program No. 2 – HEALING EFFECT

(the dominant effect is healing promoting regeneration, anti-inflammatory and anti-rheumatic effects)

Preferably used in case of speeding up the healing process and regeneration of damaged tissue using anti-inflammatory and anti-rheumatic effects.

This program can also be used in the following cases:

- with rheumatic joint and soft tissue disease;
- with all impairment where acute pain was relieved during the previous phase and it is suitable to continue in follow-up treatment and healing.

Program No. 3 – ANTI-SWELLING EFFECT

(the dominant effect is anti-swelling)

We can use it to promote the remission of swelling for various reasons.

This program can also be used in the following cases:

- disorder of fluid outflow from tissue, improvement in perfusion, flow through tissues, acceleration of metabolism, faster swelling absorption, considerable anti-inflammatory and pain relieving effects;
- in case of all post-traumatic and postoperative conditions to promote perfusion, accelerate absorption of swellings and to promote healing.

Program No. 4 – MYORELAXING EFFECT

= ANTISPASMODIC

(the dominant effect is myorelaxing)

We use it for the targeted requirement to promote the reduction of spasms (cramps) in cases where the dominant manifestation is not pain but mobility disorder and other problems.

This program can also be used in the following cases:

- in persons with muscle spasms and stiffness limiting the total mobility of limbs and neurodegenerative disorders with the manifestation of muscle stiffness.

Program No. 5 – VASODILATING EFFECT

(the dominant effect is vasodilating)

We use it for problems with the requirement for improving microcirculation (vasodilation) in ischaemic manifestations for various reasons.

This program can also be used in the following cases:

- ischaemic diseases of upper and lower limbs for various reasons;
- with non-healing varicose ulcers and all disorders of blood perfusion issues, e.g., bedsores, etc.;
- reducing the risk of clot formation.

Program No. 6 – DETOXIFYING EFFECT

(the dominant effect is metabolic-detoxifying)

We use it for promoting metabolism and detoxification, i.e., in case of the requirement for faster removal of toxic substances and metabolites from tissues, reducing internal inflammations and simultaneous requirement for increasing nutrient intake.

This program can also be used in the following cases:

- need for general detox for various causes;
- to induce local detox effects achieved by applying the applicator to the problem area – muscle, joint, etc.

Note:

All the programs induce a different extent of all therapeutic effects with the fact that the parameters of individual programs are set so that they purposefully induce the **dominant action of one or two effects.**

Based on the **Intended Purpose**, the medical device is used for the application of pulsed magnetic fields.

7.5 Example of correct connection of the medical device before starting the application

The operator, user or patient are familiarised with the principles of safe operation. The application will provide its effect when meeting all of the conditions given in the **Patient profile / Operator profile**.


Before the application, contraindications must be professionally excluded.

1. The selected applicators are placed at the application site or sites and the patient is in a comfortable position (lying or sitting). The patient is dressed or has a disposable or other hygienic pad inserted between the applicator and the applied body part.
2. The device is connected to the mains and is placed on a stable pad within the reach of the patient's application position.
3. The selected applicators are properly connected to the device. The device is switched on and the patient receives the selected application program.



7.6 Operation of the device and other possible settings

1 | Switching on the device



We connect the power adapter to the medical device .
Plug the adapter into the mains.
The device will beep and the its name and introductory information will be displayed.

LUMI O 3D-e

When you start the appliance for the first time, the name of the first program will appear, and the Last selected item will be displayed upon any subsequent start.

Last choice

2 | Connection of applicators




Connect the applicators  provided by the manufacturer to the device.
The outputs  for applicators are at the bottom of the device.

1 Output

2 Outputs






3 Outputs

3 | Program selection



Hold the  button and select the required program.
When the required program appears on the display, release the button immediately.
Briefly press the  button to start the selected program .

PAI N-RELI EVI NG

4 | Program setting options



Adjust the program setting by double-clicking on the  button. Individual items roll when holding the , then press the  to confirm the selection.
The setting range is given on p. 17.
Use the rear PIN  and confirm the Basic setting to put the program into the original setting .

5 | Interruption of application

During the application , briefly press the  button to interrupt the program.

Program halted

6 | End of application

The program ends after the timeout.
The end of application is indicated by an audio signal.
To end the application before the timeout displayed on the screen, interrupt the program  and hold the  button to continue, e.g., by selecting another program.

End program

7 | Switching off the device

Unplug the adapter to switch the device off.

8 | Output error

When disconnecting the applicator during operation or in case of failure, the display will show:

Output error

8 INFORMATION FOR MEDICAL DEVICE USERS

8.1 Safe operation rules

- 1 | Read the instructions for use thoroughly before using the medical device for the first time!
- 2 | The medical device may only be operated and manipulated by persons who meet the **Operator profile** and who follow these instructions for use.
- 3 | Pulsed magnetic fields can affect functional disorders, not fixed pathological changes.
The therapy is non-addictive, meets all safety standards and uses a completely user-safe method.
- 4 | The first five applications should be made, if possible, on the following days.
- 5 | If no treatment response occurs with the initial applications, continue therapy anyway. Positive effects may occur later.
- 6 | If there is a slight worsening of the condition during the initial days of treatment, these are known processes in the reactive phase. It is recommended continuing applications after consulting a physician.
With further applications, the pain usually disappears and significant improvement occurs.
- 7 | Metal implants are not contraindicated for therapy.
- 8 | Do not apply the applied part (applicator) to broken skin (abrasion, bed sore, cut, etc.), always use a protective layer, such as a disposable or other hygienic pad, during application.
- 9 | In case of use of the medical device by several patients, disinfection of the applicators is necessary before each use by another patient.
- 10 | Do not plug anything else than the original applicators into the connectors on the device.
- 11 | Do not remove the applicator from the device connector when the application program is running.
Exit the program first or wait for the application to finish.
- 12 | Protect the medical device from dropping and damage, paying particular attention to the device connectors and applicators.
- 13 | The medical device must not be soaked, rinsed in water or used in wet or humid environments (bathing, sauna, etc.).
Do not expose the medical device to moisture.
Do not place the medical device near heat sources.
- 14 | Do not use the medical device if it is damaged.
- 15 | Any tampering with the medical device is prohibited.
- 16 | The medical device must be connected to a suitable electrical supply without any signs of damage to the supply cable.
If you are unsure, have an inspection performed by an inspection technician.

- 17 | Do not pull on the supply cables of the medical device.
- 18 | Portable and mobile radio frequency communication devices may affect the medical device. No wireless communication equipment should be operated within a distance of 3.3 m, it could affect the operation of the medical device.
- 19 | The medical device may cause radio interference or interrupt the operation of nearby equipment that is located next to or in a block with other equipment.
It may be necessary to take measures to mitigate this effect, such as reorienting or relocating the medical device.
- 20 | Applicators may damage nearby devices such as wristwatches, magnetic carriers, credit cards, etc. during application.
A distance of 1 m from the applicator is already safe.
- 21 | When using multiple applicators within a single treatment, ensure that the applicators are spaced apart so that they do not interfere with each other.

WARNING – The manufacturer is not responsible for improper use of the medical device!

NOTE – When using the medical device in therapeutic applications, respect the legal standards of the individual countries.

NOTE – Check the website <https://www.biomag-medical.com/info/> for current and other important information and user instructions, including warranty extension options.

8.2 Health protection during work with low-frequency pulsed magnetic field

There is no restriction when working with LPMF. It is advisable to follow the Operator's Profile and the Instructions for Use. When using the medical device, observe the Safe Operation Rules together with the Contraindications and operate it in accordance with the specified environmental conditions.

In other cases, consideration of the operator's current medical condition and mode of operation may be recommended. Furthermore, the regulations for working with electrical equipment must be observed when operating and handling the medical device.