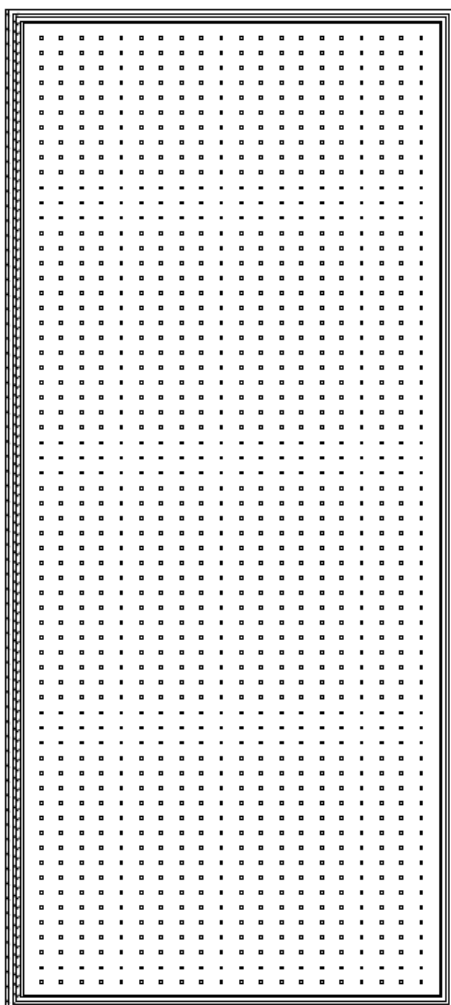


LightMat

XL

User Guide



by Weber Medical

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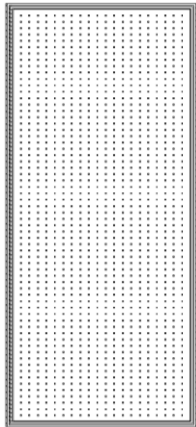
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1. General information

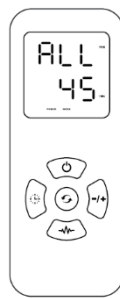
Your LightMat

Attention: Take a moment to carefully read all the important information in these instructions, especially the "Safety" chapter.

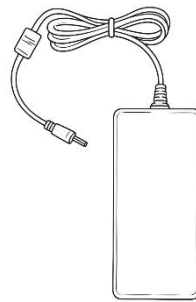
Accessories



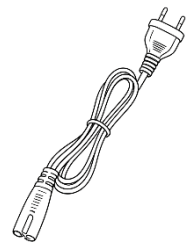
LightMat



Controller



Power adapter



Power cord



Safety goggles



Elastic Velcro strap



Storage bag



User guide

Intended use

The LightMat is a wired device that is based on the principles of photobiomodulation. It is designed for daily use of 30 to 60 minutes.

The LightMat has 1,280 combination LED diodes. Each diode can emit two wavelengths: 650 nm (red) and 850 nm (near-infrared).

The diodes emit light with the selected wavelength(s), different intensities and frequencies onto the body, depending on user settings.

The LightMat is intended for private use only and not for industrial/commercial use. According to the Product Safety Act, the LightMat is not a medical device but a wellness product. It is intended to improve general wellbeing and was not designed to diagnose, cure, alleviate, or treat any diseases, symptoms, or other medical conditions.

Please note that in the event of improper use, any liability is excluded.

Contraindications

Use by infants and children under 16 years of age, pregnant women and persons with pre-existing conditions only after consultation with a doctor.

Do not use the LightMat:

- over open or bleeding wounds.
- if you have cancer or if cancerous changes are suspected.

Consult your physician before using the LightMat if you:

- have a condition that may make you sensitive to light or sunlight.
- are using medications or products that increase the skin's sensitivity to light. Such products may include certain medications used for colds, allergies, pain relief, or infections.

2. Safety

Signal words and warning symbols



A WARNING message contains special safety emphasis and must be observed at all times. Failure to observe a WARNING message can result in serious personal injury.



Failure to observe a CAUTION associated with use can result in minor injury.



Please observe the following instructions carefully to avoid property damage.



NOTE: Please observe the information provided in this user guide. Do not use the LightMat without reading this guide.



Electrical voltage warning.



Do not dispose of the LightMat with household waste.

General



Basic safety precautions must be followed when using electrical equipment. Failure to follow these precautions may result in fire, electric shock, other injuries, damage to the LightMat or other property. Please read the following safety instructions carefully before use.

This information relates to the LightMat, the power adapter, the power cord, the wired controller, and all accessories.

Always keep these operating instructions readily available and store them in a safe place so that you can pass them on to the new owner if you sell the LightMat.

The user is responsible for the safe use of the LightMat. If it does not appear to be functioning properly, please refer to the troubleshooting section. Contact us if the problem persists.

Safety instructions

CAUTION

This hazard warning indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Skin reactions

Using the LightMat may cause skin irritation or allergic reactions. To help prevent this, always keep the device clean and dry.

If the irritation persists, stop using the LightMat, and contact your doctor if the symptoms continue for more than 3 days.

If you experience pain, numbness, burning or tingling during or after use, stop the session immediately.

Due to properties of infrared light, it is normal for the LightMat to generate heat (approx. 40 °C / 104 °F). If the LightMat becomes uncomfortably hot during use, or if it produces unusual noises or smoke, immediately remove it from your body and unplug it from the power outlet.

Physical discomfort

Consult your doctor and temporarily stop using the LightMat if you experience physical symptoms such as seizures, fainting, eye aches or headaches that you suspect may be caused by using the LightMat.

Product damage

If your LightMat is damaged, do not use it.

To avoid injury, do not attempt to open or disassemble the LightMat yourself.

Handling

Handle your LightMat with care. Do not drop it or expose it to an open flame.

Do not connect the LightMat to other equipment that is not described in this user guide, and do not modify it in any way.

WARNING

This WARNING contains valuable safety information and must be taken seriously at all times. Failure to follow this WARNING may result in serious personal injury.

Never look directly into the diodes. Visible and invisible light radiation may be harmful to the eyes. Please wear safety goggles when using the mat.

Operating the LightMat contrary to the instructions described in this guide may result in dangerous light radiation exposure.

Never unplug the power cord by pulling on the cord itself. Always pull from the plug.

Do not use the LightMat at high temperatures or in direct sunlight. Do not operate the LightMat under a blanket or pillow.



Suitable for mains supply voltages 110-240 V AC.

Authorized and non-authorized users

The LightMat may be used by children under 16 years of age and by persons with limited physical, sensory, or motor abilities as well as by inexperienced or untrained individuals, provided that they are supervised or instructed by a responsible adult regarding the safe use of the device and are aware of the possible risks. Use by children under 16 years of age is permitted only after consultation with a doctor.

Cleaning and care must not be carried out by children without supervision.

The LightMat must not be used as a toy. If the device is used by children or in their vicinity, supervise them closely. Children cannot always recognize potential hazards correctly.

Keep the LightMat away from newborns, infants, and young children. Packaging materials or loose components may pose a choking hazard.

The power cord poses a strangulation risk. Store it properly when not in use.



ADVICE: This notice indicates possible property damage that may occur if the safety measures are not followed.

ATTENTION! Please observe the following instructions to avoid property damage:

Do not attempt to open or disassemble the LightMat yourself to repair it. Failure to follow this instruction may result in the loss of guarantee claims or overheating. Always contact customer service if your LightMat requires repair or maintenance.

The LightMat offers no protection against water (IP rating: IP0X). Take care to prevent the LightMat from becoming damp or wet. Do not use it if moisture has penetrated the device.

Do not expose the LightMat to extreme temperatures or direct sunlight. It is designed for ambient temperatures between -20° C and 50 °C (-4 °F and 122 °F). Operating or storing the LightMat outside this temperature range may damage the device. Do not expose the LightMat to sudden changes in air temperature or humidity. The permissible relative humidity is 30 % to 80 %.

The maximum operating altitude is 2,000 m above sea level, without pressure compensation.

Avoid contact with dust or sand.

Never use force when connecting a cable or plug as this may cause damage that is not covered by guarantee. Make sure that you use only the accessories provided and that the ports are free from debris.

To prevent the cables from breaking, roll them up after use instead of folding them.

Disposal



When the LightMat reaches the end of its service life, do not dispose of it in general waste. Instead, take it to an appropriate collection point for waste electrical and electronic equipment (WEEE).

Type label



Graphic 1: Type label

3. Your LightMat

Material

The fabric of the LightMat is made from neoprene, polyurethane, and ethylene-vinyl acetate (EVA) copolymer.

All materials are nickel-free.

Diodes

The LightMat uses combination LED diodes that can emit both red and infrared light.



Warning: Never look directly into the light and do not shine the light into anyone else's eyes, as this may cause serious eye damage. Please wear safety goggles when using the mat.

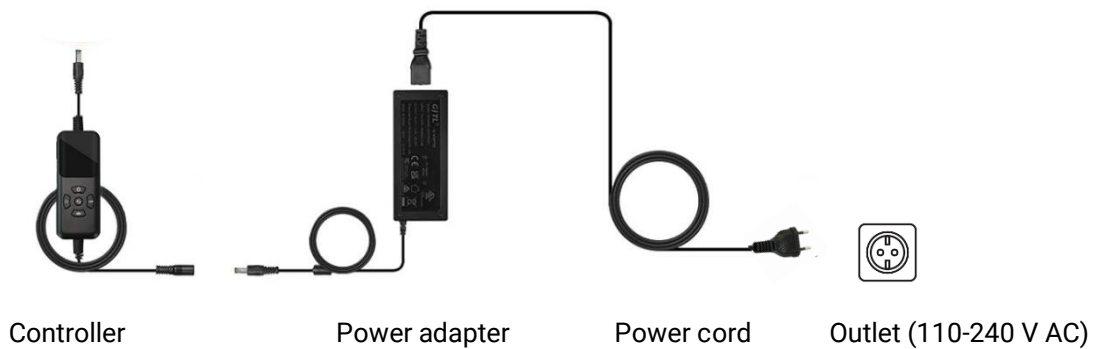
Controller

The LightMat features a controller with a display that allows you to set the duration, intensity, wavelength, and frequency.

4. Setup

Connect your LightMat

Connect the power adapter to the controller and the power cord. Connect the controller output to your LightMat and plug the power cord into a mains outlet.



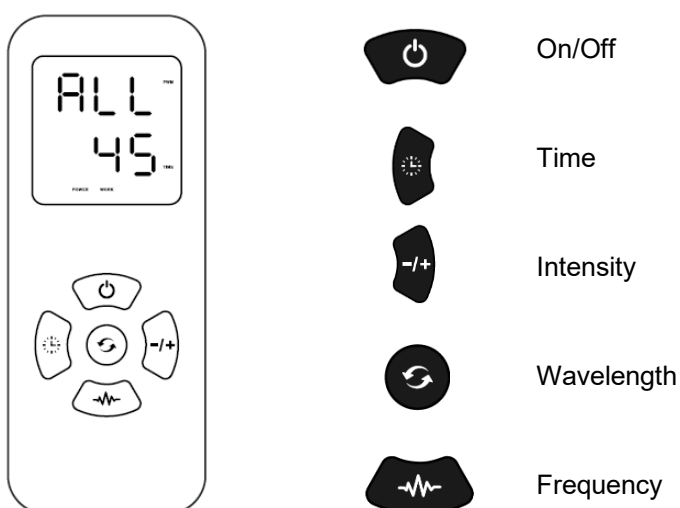
Graphic 2: Installation

Get ready for your session

Lie comfortably on the LightMat, either on your back or your stomach. If you wish, you can turn over after completing your first session and perform a second session on the opposite side of your body.

We recommend wearing as little clothing as possible to ensure direct contact between the light and your skin. Put on the safety goggles and make the desired settings.

Function overview



Graphic 3: Controller buttons

Turn on

Briefly press the **ON/OFF button**. When the mat is turned on, initial presets are as follows:

Duration: 45 minutes

Intensity: P1

Wavelength: 650 & 850 nm (ALL)

Frequency: Continuous (0 Hz)

Please note: The device does not have a memory function.

Set the desired duration

Press the **Time button** repeatedly to select the desired duration: **15 | 30 | 45 | 60 minutes**.

Set the desired intensity

Press the **-/+ button** to adjust the desired intensity: P1 | P2 | P3 | P4

P1 = Power output of 32.5 W

P2 = Power output of 65 W

P3 = Power output of 97.5 W

P4 = Power output of 130 W

4 levels average irradiance (The temperature changes when the intensity is adjusted. The higher the intensity, the higher the temperature.)		
Average Irradiance Levels	650nm	650nm+850nm
P1	26mW/cm²	56mW/cm²
P2	41mW/cm²	84mW/cm²
P3	55mW/cm²	112mW/cm²
P4	65mW/cm²	130mW/cm²

Graphic 4: Intensity overview

Select the desired wavelength(s)

Press the **Wavelength button** to select the desired wavelength(s): ALL | 650

ALL = Red light (650 nm) and infrared light (850 nm)

650 = Red light (650 nm)

Set the desired frequency

Press the **Frequency button** to select the desired frequency: H05 | H10 | H40 | Continuous

H05 = Pulsed mode: The light slowly fades in and out.

H10 = 10 Hz: The diodes switch on and off 10 times per second.

H40 = 40 Hz: The diodes switch on and off 40 times per second.

Continuous mode: The light remains continuously on (0 Hz).

Please note: The PULSE indicator appears on the left side of the display whenever a frequency (H05, H10, or H40) is set. In continuous mode (0 Hz), the PULSE indicator is not displayed.

Once you have made your settings, the display shows the remaining time until the diodes switch off.

Turn off

The LightMat switches off automatically once the selected time has elapsed. You can end the session at any time by pressing the **ON/OFF button**. The display will show OFF.

Unplug the power cord from the mains outlet by pulling on the plug. Disconnect all cables and store the LightMat and its accessories properly in the provided bag.

Please note: Due to residual electrical charge, the display may remain on for a few seconds after the device has been disconnected from the power supply. It will then switch off automatically.

5. Recommendations for use

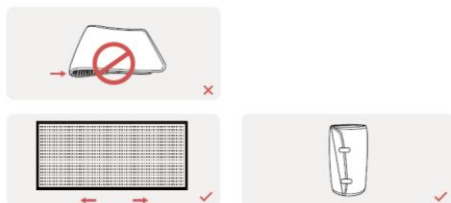
Use your LightMat whenever you want to support your wellbeing in everyday life. We recommend one session per day with 15-30 minutes per side of the body.

At the beginning, start with a low intensity (P1) and/or a shorter duration (15 minutes) and observe how your body responds. You can then gradually increase the intensity and duration from session to session, depending on how you feel.

6. Storage and cleaning

Roll up your LightMat after use and secure it with the Velcro strap to protect it from dust and dirt. You can store it in the provided storage bag.

Do not fold the LightMat, as this may cause damage to the product that is not covered by guarantee.



Graphic 5: Proper storage

Perspiration may develop during the session. We recommend cleaning the transparent PTU film after use. Use an abrasion-resistant, lint-free cloth for cleaning. You can moisten the cloth with water or cleaning alcohol (e.g. 70 % isopropanol). Spray the cleaning solution onto the cloth first, never directly onto the LightMat. Make sure that the cloth is damp, not wet.

Damage caused by the ingress of liquids or solvents is not covered by the manufacturer's guarantee. Use of other cleaning products may damage your LightMat.

The LightMat should only be cleaned when it is switched off.



CAUTION: Do not use cleaning products containing ammonium chloride. These chemicals may cause cracks in the material.

7. Product lifespan

The LightMat is designed to provide a long service life under normal use.

The expected safe service life for the device is 20,000 operating hours.

The device contains parts that are subject to natural wear and tear (e.g., the fabric). The service life of these parts depends either on the frequency of use or may be limited in time. If necessary, these parts may be replaced by our service team.

8. Troubleshooting

Problem	Possible cause	Solution
The LightMat ...		
does not turn on.	The diodes are operating in infrared mode (850 nm). The LightMat is on, but the infrared light is not visible to the human eye.	No action is required.
	The cables are not properly connected.	Follow the connection instructions on page 8 and try again.
	One of the cables is defective.	Contact customer service to have it replaced.
gets very hot. (Slight warming is normal)	The device is overheated.	Unplug the LightMat from the power supply. Allow it to cool down completely before using it again.
does not respond to button presses.	The controller is defective.	Unplug the LightMat from the power supply and disconnect all cables. Then reconnect all cables and plug the power cord into the mains outlet. Try again.

If troubleshooting does not resolve the problem, please contact customer service.

9. Warranty and guarantee

Warranty

We provide a 24-month warranty. The warranty covers manufacturing defects in your LightMat that were already present at the time of purchase. The warranty period begins on the date of purchase.

Guarantee

What is covered by the guarantee?

The guarantee period for material and manufacturing defects under normal use is one year and begins from the date of purchase. The guarantee applies to both the LightMat and its accessories.

Repairs or replacements do not restart the guarantee period.

What is not covered?

The guarantee does not cover the repair or replacement of a product if the defect is caused by:

- accidental damage resulting from improper care or misuse, as well as negligent use or operation that does not comply with this user guide.
- use of the product beyond "normal use", defined as more than one hour per day.
- use of parts that have not been assembled or installed in accordance with the manufacturer's instructions.
- use of parts or accessories from other manufacturers.
- repairs or modifications that have not been made by the manufacturer or its authorized service partners.
- incorrect setup.
- normal wear and tear.

Please contact our service team if you are unsure whether a particular case is covered by the guarantee.

Replacement or repair of defective devices during the guarantee period

During the guarantee period defective devices or device components may be sent to one of our service addresses. The manufacturer reserves the right to decide whether the LightMat will be repaired or replaced.

Before returning a device, please contact us and have your purchase receipt or delivery note ready. Please keep your invoice and delivery note in a safe place as proof of purchase. Without proof of purchase, you may be charged for the costs of the services provided.

We will then inform you about the next steps.

Replacement or repair of defective devices after the guarantee period

Even after the guarantee period has expired, you can send the defective device to us for repair. Please contact us first before sending in the device.

Repairs or replacements carried out after the guarantee period has expired are subject to a charge.

10. Manufacturer and service contact details

Manufacturer address:

Weber Medical GmbH
Sohnreistr. 4
37697 Lauenförde
Germany
Website: www.webermedical.com

Service address for USA:

Vitality Systems, USA
Attn: Repairs
1926 Bonus Drive
San Diego CA 92110
USA
Email: Support@vitalitysystems.com

General service address for all other countries:

Weber Medical Systems GmbH
Sohnreistr. 4
37697 Lauenförde
Germany
Tel.: +49 5273 389 4506
Email: info@wmedicalsyste.ms.com
Website: www.wmedicalsyste.ms.com

If you require assistance with the setup, use, or maintenance of your LightMat, or if you wish to report unexpected operation or incidents, please contact the **general service address**.

11. Product specifications

Diode color	Diode type	Quantity	Wavelengths
Red/Infrared	LED	1,280	650/850 nm

Max. total output power	130 W
Max. power density	130 mW/cm ²
Frequency	0 10 40 Hz or pulsed
Timer	15 30 45 60 minutes
Input voltage	110-240 V AC
Output voltage	24 V DC
Output current	7.5 A
Permissible environment temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Permissible relative humidity	30 % to 80 %
Dimensions	1,800 x 800 x 25 mm
Weight	3.3 kg

