

USER MANUAL

Lorem X

Whole-Body PEMFT

MACMED SA de CV

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Lorem X

Whole-Body PEMFT

V3

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MACMED SA de CV

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1. Introduction

1.1. *Foreword*

Congratulations on the purchase of your Lorem X Wellness set. Lorem X is a high-quality, robust, reliable, effective, efficient, and easy-to-operate whole-body Pulsed Electro-Magnetic Field (PEMF) device, designed to meet international regulations. It offers easy-to-use protocols, designed so it can be used in a household or similar environment, and no professional supervision is necessary.

This manual contains essential information for use and maintenance. Read the operating instructions carefully before using the product. In addition to this manual, your local Lorem X installer will provide personal instructions for use. Some additional information about the LOREM X PEMF Wellness Device can be found on our website: www.PEMFWholeBody.com

1.2. *Manufacturer*

Manufacturer of the:
LOREM X System
LOREM X DRIVER
LOREM X APPLICATORS



MACMED SA de CV
Calle 5ª Sur 211, 71980 Puerto Escondido
Mexico
Tel. Customer Service: +52 9545822951
www.PEMFWholeBody.com

1.3. *Glossary*

A: Ampere, a unit of electric current.

AC: Alternating Current.

AWG: American Wire Gauge.

B: Magnetic Flux Density.

dB/dt : The derivate of the magnetic flux density to the time.

DC: Direct Current.

EMC: Electromagnetic Compatibility.

EMI: Electromagnetic Interference.

Frequency: Cycles per second, unit is Hertz

Hz: Hertz, cycles per second.

KHz: kilo Hertz.

Lorem X Applicator: A passive inductor load to the Lorem X driver, generating a magnetic field.

Lorem X Driver: Amplifies the Samsung Tablet signal, making it suitable for the Lorem X Applicator.

Lorem X system: A set comprising:

- Samsung Galaxy Tablet
- Lorem X Driver
- Lorem X Applicator

Macmed: Macmed SA de CV, manufacturer of the Lorem X.

PEMF: Pulsed Electro-Magnetic Field.

PEMF: Pulsed Electro-Magnetic Field

PEMFT: Pulsed Electro-Magnetic Field Treatment.

T: Tesla, unit of magnetic flux density.



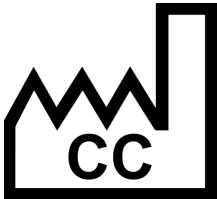


t: Time



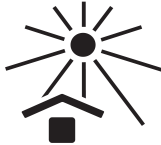



V: Voltage, unit of Electro Potential.



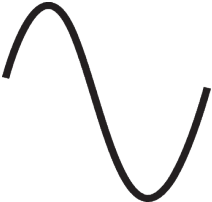



W: Watt, unit of Power.







1.4. *Symbol Glossary:*




This section provides an overview of the relevant symbols used in this manual or on the package. These symbols convey information about the safe and effective use of the Lorem X system and the transportation of the device.

Symbol	Title/Description
	<p>Manufacturer Indicates the device manufacturer.</p>
	<p>Importer. This symbol shall be accompanied by the name, address of the importer representative adjacent to the symbol.</p>
	<p>Made in-country Indicates the country where the device was manufactured. The 'CC' in the symbol is the country code per EN 1041+A1.</p>
	<p>Serial number Indicates the manufacturer's serial number to identify the specific device.</p>
	<p>CE mark Indicates a device conforms to European Directives and Harmonized Health, Safety and environmental Standards for products sold within the European Economic Area (EEA). The CE marking is also found on products sold outside the EEA that are manufactured in or designed to be sold in the EEA.</p>

	<p>Fragile, handle with care. Indicates a device that can be broken or damaged if not handled carefully.</p>
	<p>This way up. Indicates the correct upright position of the transport package.</p>
	<p>Keep away from sunlight. Indicates a device that needs protection from light sources.</p>
	<p>Keep dry. Indicates a device that needs to be protected from moisture.</p>
	<p>For indoor use only.</p>
	<p>Temperature limit. Indicates the temperature limits to which the device can be safely exposed.</p>

	<p>Consult instructions for use. Indicates the need for the user to consult the instructions for use in the user manual.</p>
	<p>Read the instruction manual before operating equipment. Function: To signify that the instruction manual/booklet must be read.</p>
	<p>Alternating current. Indicates alternating current.</p>
	<p>Direct current. Indicates direct current</p>
	<p>Caution. Indicates cautions.</p>
	<p>Warning. Indicates warnings.</p>

	<p>Warning Magnetic Field</p>
	<p>Warning Overhead Obstacle</p>
	<p>Warning Non-Ionizing Radiation</p>
	<p>Warning Electricity</p>
	<p>Caution Electric shock hazard.</p>
	<p>Prohibition No access for people with active implanted (cardiac) devices</p>

	<p>Prohibition Do not spray with water</p>
	<p>Prohibition Not for pregnant women</p>
	<p>Prohibition No activated mobile phone</p>

1.5. *Cautions, Instructions*

CAUTIONS

- Read this **Manual** carefully before operation, **READ ALL INSTRUCTIONS BEFORE USING**,
- Keep this Manual in a safe place.
- This manual serves as a reference. The instructions in this manual are not intended to supersede the health care professional's instructions regarding using the Lorem X.
- The operator should read and understand this entire manual before using the Lorem X.
- Keep this Equipment away from **water** and moisture.
- **Clean** it only with dry or damp cloth. Do not use solvent or other chemicals. Always unplug the power cord from the wall outlet to avoid electrical shock before cleaning the device. Do not immerse the device in any fluids. Keep Surfaces Clean and Dry.
- Always use a clean sheet on the mattress, and a clean pillow.
- Provide Adequate **Ventilation**. Do not cover any cooling openings. Inadequate ventilation may cause an increase of temperature in the LOREM X DRIVER, which would cause damage to the instrument.
- **Unplug** this equipment when unused for long periods of time or during a storm.
- Professional users must observe local laws and regulations.
- **SAVE THESE INSTRUCTIONS.**

1.6. *Warnings, Instructions, IMPORTANT SAFEGUARDS,*

WARNINGS

- **Power Cords** are designed for your safety. If the plug does not fit your AC outlet, seek advice from a qualified electrician. Protect the power cord and plug from any physical stress to avoid risk of electric shock. Do not place heavy objects on the power cord and keep the cord away from heated surfaces. This could cause electric shock or fire.
- Use a Proper Power Cord, delivered with the LOREM X DRIVER and authorized for use within the destination country. For replacement, check user manual.
- Be sure to route the power cord to prevent the power cord from being tripped over. Also, avoid any interference of the power cord with chairs or other furniture. When using extension cords: use a cable of at least 3x16 AWG and connectors in good condition. Extension cords must have an ground extension, meaning being a three wire extension cord that has a three-blade grounding plug, and a three-slot receptacle that will accept the plug of the product.
- Periodically check Power Cords and cables for damage or signs of wear. Discontinue use and replace if damaged.
- To prevent fire and damage to the product, use only the recommended **fuse** type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.
- Please check your Lorem X regularly for visual **damage**. Immediately replace any damaged parts!
- If you notice any unexplained **changes** in the performance of this device. If it is making unusual or harsh sounds. If it has been dropped or mishandled. If water is spilled on it. If the enclosure of the generator is broken. Then disconnect the power cord, discontinue use, and contact your distributor.
- Do Not Operate With Suspected **Failures**.
- **Repairs**, adjustments, and opening of the generator must be performed by authorized service personnel only. Unauthorized service could cause injury, void the warranty, or result in costly damage. To avoid electrical shock, do not open or attempt to repair the device yourself. Refer all

service to authorized qualified service personnel only. Do not perform any servicing other than those instructions contained within this User's Manual.

- Electronic components used in this device are subject to damage from static electricity. Repairs to this device must be performed only in an Anti-Static, or Electro-static Discharge (ESD)-protected environment.
- Do not use any **accessories**, detachable parts (such as the coils, applicators), or materials that are not original or do not have an original adapter. Incompatible parts or accessories could cause injury, degraded performance, malfunctioning, damage, destroy compliance with EMC requirements and void the warranty.
- **Active implanted devices** are contraindicated for use with Lorem X.
- **Pregnancy** is contraindicated for use with Lorem X.
- **Mobile RF communications equipment** may affect Lorem X and is contraindicated for use with Lorem X, and must be kept at least 30 cm away from any part of Lorem X.
- **Consult your physician** before using Lorem X if you are under medical care, especially if you are suffering from cardiac diseases.
- If you feel the treatment is too strong or experience adverse reactions, stop using Lorem X and consult your physician regarding what Lorem X parameters have to be modified. Your physician may contact us. Users might experience dizziness, be careful getting out of the device.
- Do not **mis-use** Lorem X! Lorem X may not be used for purposes other than those mentioned in this manual.
- Only use approved Lorem X **protocols**.
- Lorem X is **not a toy**. Children must be supervised when using Lorem X.
- Users with limited physical, sensory, or mental capabilities or lack experience and knowledge must be supervised when using Lorem X.
- Keep your Lorem X out of reach of **pets**.
- Never leave LOREM X unattended when switched on.
- Do not **modify** Lorem X without authorization from the manufacturer, modifications of any kind will void the warranty.
- Never block the air openings of the LOREM X Driver, keep the air openings free of lint, hair and the like.
- The manufacturer is not responsible for any damage resulting from **improper use**. The user is solely responsible for any risk due to improper use, use this product only for its intended use as described in this manual.
- Lorem X must be placed on a hard and flat **floor**. The floor can be made of wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
- Do not place the device directly onto carpet, fabric, or other flammable materials.
- Lorem X must not be used in a **wet or damp room**, Operating humidity should be between 30-60% RH. Do Not Operate in Wet Conditions.
- Do not use this device outdoors, do not operate where aerosol products are being used.
- **Condensation** may damage the device. If this device has been exposed to very hot or cold temperatures, allow it to adjust to room temperature (operating temperature) before starting therapy. Do not operate the device outside the operating temperature range: 10-50°C.
- Do not use this device when the LOREM X DRIVER is wet, are when liquid drops are observed.
- Do not use this device if the room **temperature** is warmer than 50° C (122° F).
- Do Not Insert Objects into the Air Ventilation openings.
- Do not use the device in the presence of a **flammable mixture** or the company of nitrous oxide.
- Do not use the device near a source of **toxic or harmful vapors**.
- Do Not Operate in an **Explosive Atmosphere**.
- When re-locating your LOREM X System, Please handle with care during transportation to avoid damage **or contact your local dealer for help**.

- *SAVE THESE INSTRUCTIONS.*

1.7. Warnings, *GROUNDING INSTRUCTIONS*

WARNINGS

- *This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with a grounding plug.*
- *Be sure to route the power cord to a well-working wall outlet, with functioning ground.*
- *Prevent the power cord from being tripped over. Also, avoid any interference of the power cord with chairs or other furniture.*
- *Do not remove Ground connections! Never operate the LOREM X DRIVER without an grounded connection! Do not use adapters to be able to connect the power cord to a wall plug without ground (two contact points).*
- *DANGER: Improper use of the grounding plug can result in a risk of electric shock.*
- *SAVE THESE INSTRUCTIONS.*

1.8. *What's in the Box*

The LOREM X DRIVER BOX includes:

- 1 LOREM X DRIVER
- 1 Power Cord
- 1 Pre-programmed Samsung Galaxy Tablet
- 1 Tablet Support
- 1 Tablet USB (charging cable) with AC adapter
- 1 Line cable (connect Tablet to LOREM X DRIVER)
- 1 LOREM X Applicator Connecting cable
- 1 User Manual

The LOREM X BED Applicator includes:

- 1 Bed
- 1 Mattress
- 1 Support structure
- 2 Aluminum rails with 16 sliders
- 8 Panels with coils
- 8 Panel Junction Boxes
- 12 Panel Cables
- 1 Signal Distributor (WAGOBOX)
- 18 Connectors (WAGO 16xc3, 2xc5)

1.9. System Overview with part numbers

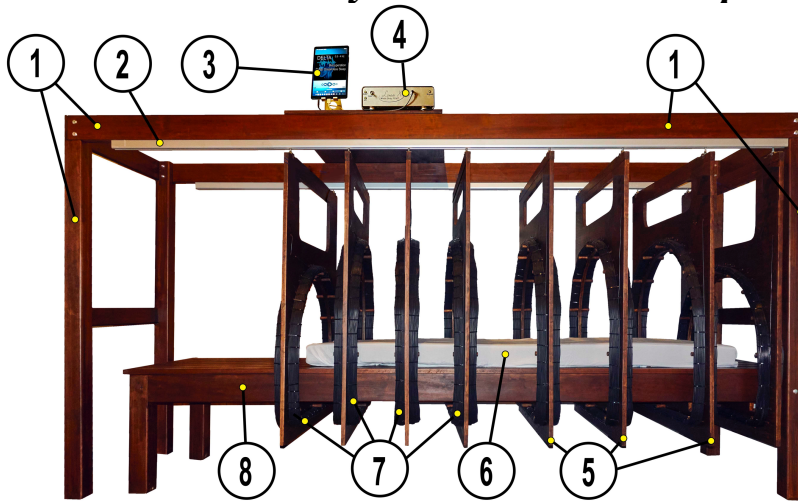


Figure 1: LOREM X BED Applicator with Tablet and Driver



Figure 2: LOREM X DRIVER front

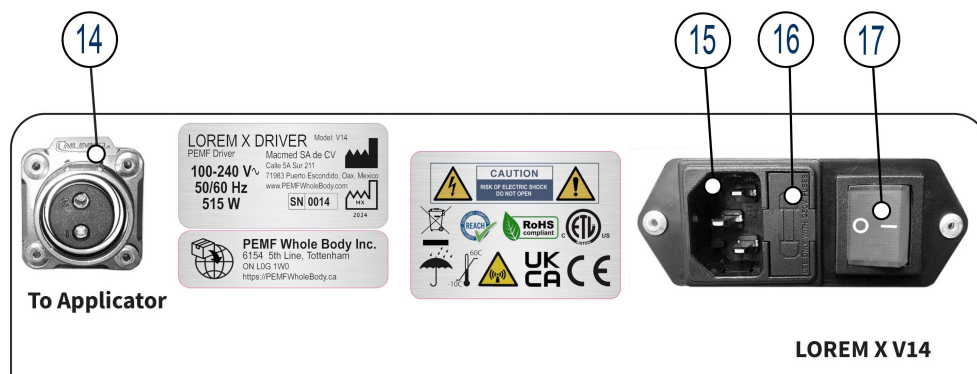


Figure 3: LOREM X DRIVER back



Figure 4: Samsung Galaxy Tablet

- ① Wooden Support Structure Lorem X Bed Applicator
- ② Gliding Rail
- ③ Pre-programmed Samsung Galaxy Tablet
- ④ LOREM X DRIVER
- ⑤ Panels
- ⑥ Mattress
- ⑦ Coils
- ⑧ Bed
- ⑨ Indicator AC on
- ⑩ Indicator Amplifier on
- ⑪ Switch Amplifier
- ⑫ Input Signal from Tablet, 3.5mm Jack
- ⑬ Signal Indicator
- ⑭ Connector Signal Out, To Applicator
- ⑮ Mains AC in

- ⑩ Fuses
- ⑪ Mains Driver Switch on/off
- ⑫ Tablet Switch on/off
- ⑬ Volume +/-
- ⑭ Repeat Protocol
- ⑮ Start / Stop Protocol
- ⑯ GoTo Settings
- ⑰ Former Screen
- ⑱ GoTo Main Screen Tablet
- ⑲ USB/Charging cable
- ⑳ 3.5mm Line Out cable, To LOREM X DRIVER
- ㉑ GoTo Protocol Genre Library

2. GENERAL DESCRIPTION OF LOREM X

For more information regarding Lorem X, see our website: www.PEMFWholeBody.com

2.1. *What is Lorem X*

The LOREM X SYSTEM, comprising out of three independent parts;

- Tablet
- LOREM X DRIVER
- LOREM X Applicator

The Tablet generate an electrical signal.

The LOREM X DRIVER amplifies the electrical signal.

The LOREM X Applicator transforms the electrical signal in a magnetic field.

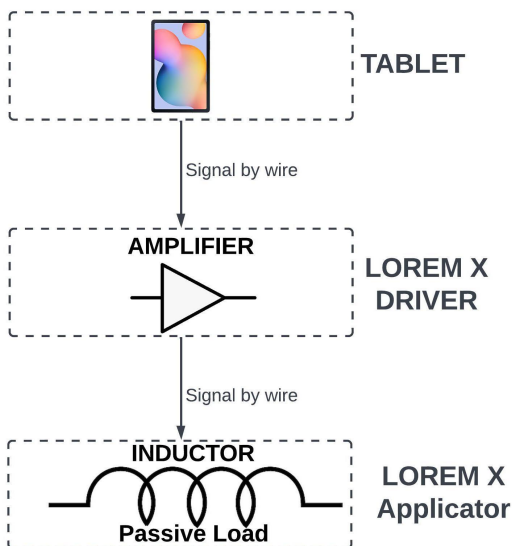


Figure 5: Lorem X System

The most distinguished characteristic of the LOREM X system, is that it can treat the **Whole Body** with a **DC-powered, Pulsed, Homogeneous Electromagnetic Field, “PEMF”**.

Because it is a whole-body device, but with a homogeneous magnetic field, every cell in the body is treated with the same pulsed electromagnetic field, making it a true whole body PEMF machine.

2.2. *Intended Use*

Induce an Electrical Field over every cell in the body using a Pulsed Electro Magnetic Field.

Effect:

The treatment will improve cell communication and functioning, bringing benefits.

Claims:

After treatment, persons might Feel Better:

- More Relaxed
- Lower Stress Levels
- Better Mental Acuity
- Better Sleeping

The LOREM X is easy to use in a household or similar environment; no professional supervision is necessary.

LOREM X is a Non-Invasive, Whole Body, **General Wellness Device**.

LOREM X is not intended to be used, alone or in combination, for human beings or animals for one or more of the following specific medical purposes:

Diagnosis, prevention, monitoring, prediction, prognosis, treatment, curing, mitigation, alleviation, or prevention of **disease**,

Diagnosis, monitoring, treatment, alleviation of, or compensation for, an **injury, handicap or disability**.

This manual is not a replacement for medical advice, diagnosis, or treatment of any health condition. Readers should not depend on the information provided to address their own health issues. Any questions about your health should be directed to your physician or another licensed healthcare provider.

2.3. *General Wellness Device*

Wellness means overall well-being. It incorporates the mental, emotional, physical, occupational, intellectual, and spiritual aspects of a person's life. Each aspect of wellness can affect overall quality of life, so it's very important.

Wellness is associated with an optimal state of well-being so that instead of surviving, you're thriving.

Wellness is commonly viewed as having seven dimensions: mental, physical, social, financial, spiritual, environmental, and vocational.

The goal of the LOREM X System is to help users with different aspects of Wellness.

2.4. *Easy To Use.*

The LOREM X DRIVER is very easy to use.

It has only two switches:

- A mains On-Off switch on the power entry module, located on the back of the LOREM X DRIVER.
- An On-Off toggle switch on the front of the LOREM X DRIVER, which controls the amplifier.

2.5. *Safety LOREM X System*

2.5.1. FEMFT Safety

Today, PEMFT is considered a low-Risk treatment by FDA.

Since 1979, when FDA started to register PEMF devices as medical devices, not one serious side effect or problem was reported.

Today, most of the PEMF devices sold, due to the low risk of PEMFT, are not classified any more as a medical device (with medical claims) but as a Wellness Device (without medical claims).

The extensive scientific publications covering the field of FEMFT do not mention any risk to the safety of users and other persons.

2.5.2. LOREM X Safety

LOREM X is a low-risk device, and is non-invasive.

During the design of the LOREM X, safety was always a priority, because we look at **Safety as a Core Value**.

For this reason, the LOREM X DRIVER was designed to be Robust and Reliable and to work with:

- A DC output with maximum only 24V
- Weak, pulsed electromagnetic field
- Low Electric Field
- Extremely low frequencies
- Low Duty Cycle
- High quality medical grade components



Warning: Be carefully when entering and leaving the bed, be careful not to bump your head on the wooden structure of the LOREM X Bed.



When the LOREM X System, especially the LOREM X DRIVER, gets water on it, allow it to dry before use.

Please take note of the following instructions:

Do not use Lorem X in a wet or damp room.

The operating humidity should be between 30-60% RH.

Do not operate in wet conditions.

Condensation may cause damage to the device.

If the device has been exposed to very hot or cold temperatures, allow it to adjust to room temperature (operating temperature) before starting therapy.

Do not operate the device outside the operating temperature range of 10-50°C.



Mobile RF communications equipment may affect the Lorem X System and is contraindicated for use with Lorem X, and must be kept at least 30 cm away from any part of the Lorem X System.

2.6. Importance being a REAL Whole-Body Device

What is the importance of treating the Whole Body?

The body is not the sum of individual body parts but is a functional wholesome of many trillions of Cells with complex interactions.

With a Whole-Body PEMF wellness device, you do treat all cells in the body.

Real Whole-Body, PEMFT, is a must.

2.7. Coil Design of Lorem X Bed Applicator

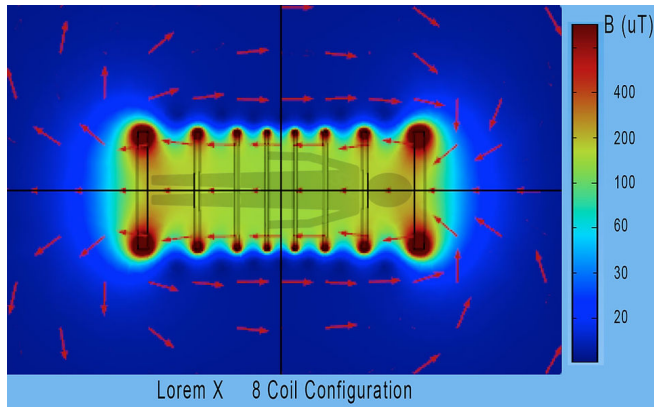


Figure 6 Homogeneous Magnetic Field in the LOREM X 8 Coil design (at maximum strength).

The Lorem X Bed Applicator uses an eight coil design. With this design, it is possible to treat every cell, of an 6.7ft person, lying on the Lorem X bed, with a **homogenous magnetic field**.

2.8. Optimization

The LOREM X system is optimized for performing PEMFT, meaning to induce an electro potential over every cell in the body, in an effective and efficient way.

2.8.1. Hardware Optimization

The LOREM X Applicators (**hardware**, Coils) are designed to work optimally. Meaning, by the third Law of Maxwell, having a high **max dB/dt** (machine parameter).

2.8.2. Signal Optimization

To achieve efficient PEMFT, the goal of a PEMF **signal** is to obtain the **highest dB/dt possible** for a given max dB/dt.

This is done by means of a Samsung Galaxy Tablet, acting as the brain of the device.

The Tablet takes care of:

- 1) **Waveform:** the used waveform is the most important signal parameter to obtain the highest dB/dt possible.
- 2) **Duty Cycle:** The Duty Cycle of a PEMF signal should be chosen according to the frequency to achieve effective pulse widths. The tablet manages these Duty Cycles.
- 3) **Frequency:** The frequency is not directly a parameter for efficient inducing an electro potential over cells in the body, but it plays a role in the mechanical impact of the PEMFT on different cells. Different Cells have different mass and volume.

The Samsung Galaxy Tablet uses optimal frequencies for each specific protocol.

4) **Signal Variation:**

When the body is stimulated, after time, typically minutes, the body becomes used to the stimulation, and the stimulation becomes less effective.

The same with PEMF stimulation of Cells. After a while, the PEMFT efficiency decreases when the signal remains constant during treatment.

The strength of using a Samsung Galaxy tablet is that we can program signals having **different frequencies during different periods, frequency sweeps, and frequency modulation** with optimized **modulation depth** and **modulation range**.

As a result, the body is not given the opportunity to get used to the signal, and the treatment remains effective during the entire treatment time.

5) The adaptive amplifier in the LOREM X DRIVER, repairing deformed signals back to optimal.

2.9. *Contraindications*




- Although, no serious or bad side effects of PEMFT have ever been reported (FDA, Medwatch has never received complaints from:
 - Healthcare professionals Form FDA 3500
 - Patients and Consumers Form FDA 3500 B
 - Industry Mandatory Post Marketing Safety Report
 - Pacientes y consumidores Form FDA 3500bmentioning serious side effects.
- Some magnetic fields (other than PEMF) are **contraindicated** for certain conditions. For this reason, LOREM X Users, with following conditions, must discuss LOREM X's application with the treating physician before use:
 - **Immunosuppressive therapy** after organ transplantation, allogeneic cellular transplantations, bone marrow, or stem cell transplantation.
 - **Pregnancy**
 - **Active implanted devices** such as cardiac pacemakers, insulin pumps, implanted defibrillators. Pacemaker (earlier generations) users must not be exposed to pulsing magnetic fields exceeding 0.1 mT (1G); although most standards mention 0.5 mT. Modern Pacemakers specs indicate that they are immune for pulsing magnetic fields.
 - Non-controlled **Seizure** disorders (e.g., epilepsy).
 - Cardiac rhythm disorders such as **Atrial Fibrillation**.
 - Severe **Psychoses**.
 - Sensitivity to the **Carotid Sinus Reflex** or other electromagnetic sensitivity.

2.10. *Minor PEMFT Side-Effects*

Some patients may experience minor side effects:

- Stronger heartbeat during Lorem X treatment.
- Strange feelings in body parts (usually in the feet) like ants crawling, hot-cold, itching, or others (new, improved, circulation).

	<p><i>If you have sensitive nerves or a nerve condition such as fibromyalgia, you can still use Lorem X for wellness, but avoid prolonged use.</i></p> <p><i>Limit the initial treatment time. Use it for short sessions, even as short as 10 minutes per day or three times 20 minutes per week.</i></p> <p><i>If your nerves get agitated due to prolonged use, stop using Lorem X until the agitation subsides, then restart but use only for short sessions.</i></p> <p><i>After a few weeks, your nerves will become less sensitive, and you can gradually increase the session times.</i></p> <p><i>Users with nerve conditions must consult their treating physician before using Lorem X to discuss application times.</i></p> <p><i>In the event of unexpected symptoms, whatever they are, it's imperative to promptly seek advice from a healthcare professional.</i></p>
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3. User Lorem X Information

3.1. *Samsung Galaxy Tablet*

The Samsung Tablet delivered with your Lorem X driver is pre-programmed with different treatment Protocols, generating a signal that will be amplified by the LOREM X DRIVER and delivered to the LOREM X Applicator.

3.1.1. Tablet Settings

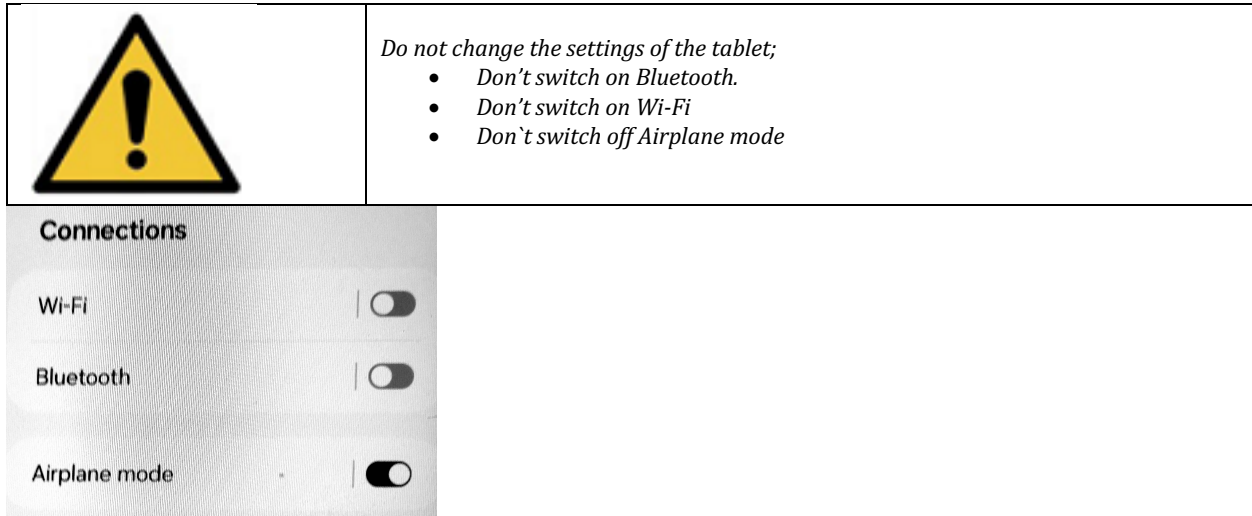


Figure 7: Correct setting of the Tablet, Wi-Fi off, Bluetooth off, Airplane mode on.

3.1.2. Lorem X, Samsung Galaxy Protocols

The Lorem X comes with standard protocols pre-installed.



Fig.6. Beta Brain waves in the frequency range from 15 – 20 Hz

3.2. *Instructions For Use*

3.2.1. Connections to be made before starting

3.2.1.1. *Signal In*

Connect the 3.5mm jack cable (delivered with the LOREM X DRIVER) to:

- the output of the Samsung Tablet, 3.5mm jack (26)
- the Line In 3.5mm jack (12) of the LOREM X DRIVER.

3.2.1.2. *Signal Out*

Connect the signal cable of the LOREM X Applicator to the connector on the back of the LOREM X DRIVER with label: TO APPLICATOR (14)

3.2.1.3. *Mains Connection*

Connect the delivered Mains cable to the power input module on the back of the LOREM X DRIVER (15).

Connect the Tablet charging cable (25) , USB-C, from the Tablet. To the mains.

3.2.2. Start using LOREM X System

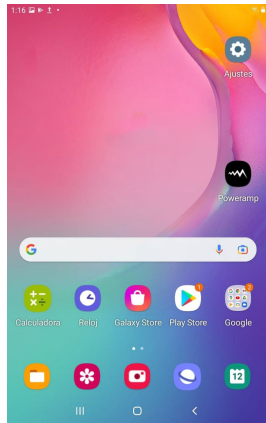



Figure 8: Tablet main screen

- Turn on The Samsung Tablet (18) and go to the main screen (24).
- Click on the pre-installed **Poweramp app**.
- When opening Poweramp, but not being in the library, GoTo the library by clicking on the **library button** (27).
- In Library, Click on a specific **Genres (same family of protocols)**
- In the specific genre screen, click on a desired **Protocol**.
- The Protocol is opened in the, Click on the protocol's play button (21).
- Check the protocol is running, the time indicator should be running.
- Check Audio Level is put to maximum, if not increase volume (19).
- Be sure the repeat protocol option is chosen (20).
- Switch on the LOREM X DRIVER, on the back of the LOREM X DRIVER (17).

- Switch on the Amplifier on the Front Panel of The LOREM X DRIVER (11).
- User take place in the LOREM X BED applicator, for easy entering, all panels (5) except the two head panels should be placed at the feet end of the bed, the two head panels at the head end of the bed.
- Distribute the panels (5) evenly, covering the user. The distance between panels should be approximately 30 cm. This distance is not very critical. When the user is small, not all coils will be used. The unused panels remain on the foot side of the bed.

3.2.3. Stop using the LOREM X System

- Shift the two head panels (5) to the head side of the bed.
- Shift all other panels (5) to the foot side of the bed.
- User can now exit the bed.
- Switch off the amplifier (11) on the front side of the LOREM X DRIVER
- Switch of the driver on the back side of the LOREM X DRIVER (17)
- Stop the running Protocol on the tablet (21).
- Pause or switch off the tablet (18). When no further use of the Lorem X system is expected for several days, do not pause the tablet, but switch it off.

	<p><i>For good functioning, Please do not change the settings of the tablet;</i></p> <ul style="list-style-type: none"> • <i>Leave the sound volume at maximum.</i> • <i>Leave the shuffle switch on the PowerAmp screen on Shuffle Off.</i> • <i>Leave the repeat switch on the PowerAmp screen on Repeat Song .</i>
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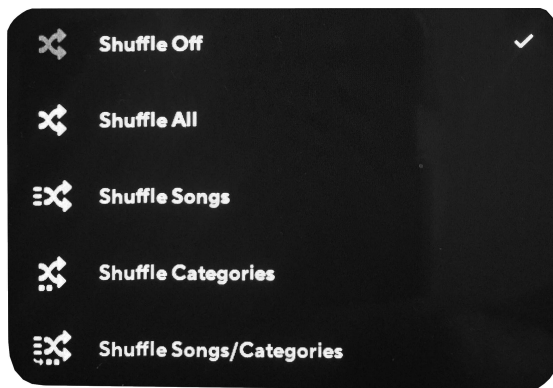


Figure 9: Shuffle switch options, you can change the settings by clicking on the Shuffle symbol. It should always be in greyed out, Shuffle Off mode.

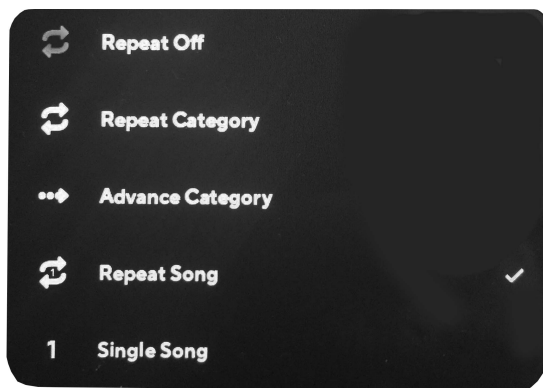




Figure 10: Repeat switch options, you can change the settings by clicking on the Repeat symbol. It should always be in Repeat Song mode.

	<ul style="list-style-type: none"> • When the equipment is not being used for longer periods of time (several days, between treatments) disconnect the USB charging cable from the tablet or disconnect the charger from the mains power supply. • When leaving the tablet connected and charging, all the time, the battery might become warm and as a result expand,, destroying the Tablet.
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4. Troubleshooting

INDICATION	REMEDY
1) The Led AC (9) is not on, after switching the driver on (17).	<ul style="list-style-type: none"> • Check Mains power switch (17) is in the on position, if not, push on. • Check Mains cable is connected correctly to the driver (15) and to the mains plug. When not connected correctly, remedy the connection. • Check there is no power failure. When having power failure remedy the failure. • Check the fuses (16), when broken, replace.
2) The Signal led (13) is not flashing	<ul style="list-style-type: none"> • Check indicator AMP (10) is on, if it is off, switch on the amp (11). • Check indicator AC (9) is On. When not on, see 1). • When indicators (9) and (10) are both on, Check the Tablet is running a protocol (check the time indicator on the play screen is running). When not running, push play (21). Check that the volume (19) is put at max level, if not, increase volume. (19).
3) The Protocol stops or switches to another protocol	<ul style="list-style-type: none"> • Check the shuffle switch is off, if not, switch off the shuffle option. • Check the repeat option is selected. If not, switch on repeat option.
4) The Led Signal is not blinking, but continuous lit.	<ul style="list-style-type: none"> • This is normal when a protocol is playing a protocol part with a higher frequency (> 50 Hz). The led is actual flashing, but at higher frequencies our eyes cannot see the flashing • Check that a Protocol is running, if not see 3)
When non of the remedies work, contact your agent for technical assistance.	

5. Cleaning & Maintenance of LOREM X

	<ul style="list-style-type: none">• Always unplug the power cord from the wall outlet to avoid electrical shock before cleaning the device.• Do not immerse the device in any fluids.• To avoid short-circuit resulting from moisture or personal injuries, ensure that the instrument is completely dry before connecting it again to the power supply.
---	---

5.1. *Wooden bed, wooden support structures, coils*

Clean regularly according to its operating conditions.

Clean the parts at periodic intervals or when needed, Coils first with a vacuum cleaner, followed by cleaning using a damp cloth.

The resto f the wood by cleaning using a damp cloth.

Do use a mild soap in water solution, do not use aggressive solutions.

5.2. *Mattress*

Clean regularly according to its operating conditions.

Always use a sheet on the mattress.

Change sheets between different users.

Clean the mattress at periodic intervals or when needed, using a mild soap in water solution or products recommended for cleaning vinyl materials and artificial leather. Do not use aggressive solutions.

5.3. *LOREM X DRIVER and Tablet*

Clean regularly according to its operating conditions.

Disconnect the the LOREM X driver and Tablet from power sources.

A lint-free, soft microfiber cloth is ideal for cleaning your LOREM X DRIVER and tablet.

Gently wipe the external surfaces with a microfiber cloth. Do not apply too much pressure.

Avoid getting excess moisture onto your device; however, you may dampen the corner of the microfiber cloth with a small amount of distilled water.

When cleaning the LCD, take care to avoid scarifying it.

You can also use a disinfectant, such as a hypochlorous acid-based solution (containing 50-80ppm) or an alcohol-based solution (isopropyl alcohol). Do not apply these liquid solutions directly to your device; they should be carefully applied to a microfiber cloth instead.

Avoid using cans with compressed air, as they may damage the surface of your device.

Do not use (spray) bleach on your device.

Do not use (spray) caustic liquids on your device.

6. Environmental Considerations

The following symbol indicates that this product complies with the WEEE Directive 2002/96/EC.

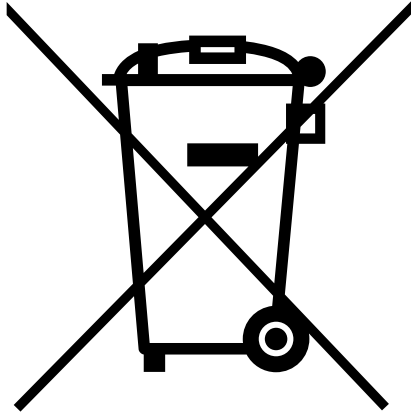


Figure 11: WEEE Symbol

The equipment may contain substances that could be harmful to the environment or human health. To avoid the release of such substances into the environment and avoid harm to human health, we recommend you to recycle this product appropriately to ensure that most materials are reused or recycled properly. Please contact your local authorities for disposal or recycling information.

6. LOREM X SYSTEM SPECIFICATIONS

6.1. *Device Type*

Whole Body PEMF

6.2. *Materials used in Lorem X Bed Applicator*

The LOREM X BED applicator is made of the best natural, non-magnetic, non-electrical material: wood.

The different Wood types used are: Pine, White Oak, Canadian Oak and Walnut
A disinfectable artificial leather covers the mattress.

6.3. *Mode of use*

Continuous

6.4. *Mechanical*

Weight LOREM X DRIVER: 2.1 Kg

Dimension LOREM X DRIVER: W 248mm x D 209mm x H 84mm
W 9.8" x D 8.2" x H 3.3"

Weight LOREM X BED applicator: 228 Kg

Dimension LOREM X BED applicator: L 250 cm x H 150 cm x W 76 cm
L 98.5" x H 30" x W 59"

6.5. *Electrical*

6.5.1. **MAINS**

Voltage: 100-240V~

Frequency: 50-60Hz

Power: 515 VA (W)

Current: 4.5 A (110V)/ 2A (220V)

Mains Fuse (double L + N) at Power Entry Module:

110-120V use: 8A

220-230V use: 4A

6.5.2. **Input Signal LOREM X DRIVER, from Tablet**

Tablet: Samsung Galaxy

Line in, 3.5mm jack, max 1.1V

Frequency range: 0.05 – 300 Hz

Duty Cycle: 1 – 15 %

5

6.5.3. **Output Signal LOREM X DRIVER, to applicator**

Voltage: 24V DC

Current: max 20 A

6.6. Protection & Safety

- Safety class I
- Low leakage current
- Insulation voltage I/P-O/P: 4kVAC
- Withstand Voltage: I/P-FG: 2kVAC
- Withstand Voltage: O/P-FG: 1.5kVAC
- Over-voltage: Shut down and repower to recover
- Overload: Hiccup mode, Automatic Recovery
- Over-temperature: Shut down, Automatic recovery after temperature goes down
- Short circuit: Continuous, Automatic Recovery
- Isolation Level: 2xMOPP, reinforced double I/O isolation system.
- Isolation Resistance: I/P-O/P, I/P-FG: >100 MOhms/500V/25C/70%RH
- Safety isolation is approved for an operating altitude of up to 4.000 m

Safety standards with which LOREM X DRIVER complies

CE:

low voltage directive 2014/35/EU harmonised to standard: IEC 60335-1

EMC Directive 2014/30/EU harmonised to standard IEC 61000

UK:

Electrical Equipment (Safety) Regulations 2016 harmonised to standard: IEC 60335-1

Electromagnetic Compatibility Regulations 2016 harmonised to standard IEC 61000

US:

UL 60335-1 harmonized to IEC 60335-1

UL 61000 harmonized to the IEC 61000

CA:

CAN/CSA-C22.2 NO.60335-1 harmonized to IEC 60335-1

CAN/CSA-C61000 harmonized to the IEC 61000

Test laboratory that assessed the compliance of the Lorem X DRIVER

TO BE UPDATED XX

Number and date of the test report.

TO BE UPDATED XX

6.7. Magnetic

Specifications when LOREM X DRIVER used with LOREM X BED applicator:

Total Inductance L = 400 mH

Total Electrical Resistance R = 1.65 Ohm

Magnetic Flux: variable 0 – 170 μ T

Max dB/dt = 1.54 kT/s

Magnetic Coil Saturation Current: magnetic saturation will not occur during regular use

Av Coil Diameter = 65 cm
Total amount of windings: 1550
Total length of windings: 3.200 m
Total amount of copper wire: 110 kg

6.8. Environmental

Operating temperature 10-50°C/50-122°F
Storage temperature: 5-60°C/41-140°F
Temperature Limits, short time: -10-60°C/14-140°F
Operating humidity: 30-60% RH
Storage humidity: 20-80% RH
Operating air pressure: 700 – 1060 hPa
Long-term Storage air pressure: 700 – 1060 hPa
Altitude max. during operation: 4.000 m
Vibration: IEC 60068-2-6 compliant
Mechanical Shock: IEC 60068-2-27 compliant
Environmental Compliance:

- REACH Declaration
- RoHS Declaration
- WEEE Declaration

6.9. Registrations, Marks, Compliance & Documentation



TO BE UPDATED XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

7. Replacement Parts

We advise you buy fuse replacements certified according local directives, as a guide, we give below the original fuses delivered together with the LOREM X Driver.

7.1. Fuse



7.1.1. USA, CANADA, MEXICO

Description	Manufacturer	Supplier	Art.-Code
Supplemental Fuse 8A	 Littelfuse®	 MOUSER ELECTRONICS	0234008.MXBP



- 5×20mm, medium-acting, ceramic body cartridge fuse designed to;
- Designed for UL/CSA/ ANCE 248-1 and 248-14 Standards
- RoHS compliant and lead-free
- Current Rating 8A
- Voltage rating: 250V

7.1.2. EUROPE

Description	Manufacturer	Supplier	Art.-Code
Miniature Fuse-Link 4A	 Littelfuse®	 MOUSER ELECTRONICS	0219004.MXAP






- 5×20mm time-Lag glass body cartridge fuse designed to International IEC Standards for globally use
- Meets the IEC 60127-2, Sheet 6 specification for time-Lag fuses
- RoHS compliant and lead-free
- Current Rating: 4A
- Voltage rating: 250V

7.2. Power Cord

The mains cable is not a part of the LOREM X Driver, it is detachable but sold together with the LOREM X driver.

We advise you buy a power lead replacement certified according local directives, as a guide, we give below the original power leads delivered together with the LOREM X Driver.

7.2.1. CANADA, MEXICO, USA

Description	Manufacturer	Supplier	Art.-Code
AC Power Lead	TRIPP-LITE by FAT•N	 MOUSER ELECTRONICS.	P006-003-HG13CL



ANSI/UL 62
 ANSI/UL 817
 CAN/CSA C22.2 no.21
 CAN/CSA C22.2 no.49
 NEMA 5-15P-HG
 IEC-320-C13



ENVIRONMENTAL	
Operating Temperature Range	-4° to 221°F (-20° to 105°C)
Storage Temperature Range	-4° to 221°F (-20° to 105°C)
Operating Humidity Range	20% to 80% RH
Storage Humidity Range	20% to 80% RH
STANDARDS & COMPLIANCE	
Product Certifications	cUL Listed; UL Listed
Product Compliance	RoHS

Tripp Lite series Hospital-Grade Power Lead, NEMA 5-15P to C13 - Green Dot, 13A, 125V, 16 AWG, 3 ft. (0.91 m), Clear Plugs.

Hospital-Grade Power Cable is a Safe Solution for Medical, and other, Facilities.

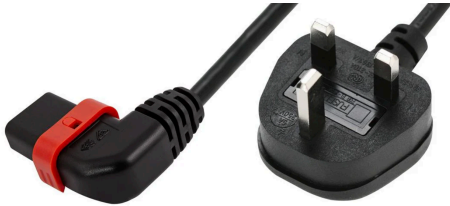
Designed and Tested to Strict Hospital-Grade Standards Both fully molded ends are clear, so you can inspect their internal connections at a glance. This hospital-grade power Lead is tested to ANSI/UL 62 and 817 standards, as well as CAN/CSA C22.2 no. 21 and 49 standards, ensuring it's a dependable power solution for hospital environments.

Fully molded clear plugs allow visual inspection of internal construction to ensure safety. 3-ft. (0.91 m) length allows flexibility in placing devices, while avoiding cable clutter.

This power lead, Connects the LOREM X with a C14 inlet to a grounded AC outlet. And is sold together with the LOREM X Driver in Canada, USA, and Mexico.

7.2.2. UK

Description	Manufacturer	Supplier	Art.-Code
AC Power Lead	 schaffner MORE POWER TO YOU	 MOUSER ELECTRONICS.	IL13P-L-UK1-H05-3100-100



2015/863 (RoHS II)
REACH

Annex XVII / Entry 68
SVHC:
Annex XIV:
Annex VXII:
Annex VI to CLP: Dec, 17. 2022

This power lead, Connects the LOREM X with a C14 inlet to a grounded AC outlet in UK, and is sold together with the LOREM X Driver in the UK.

8. Warranty

Macmed warrants that Lorem X, when used under regular operating and maintenance conditions, will perform error-free for 36 months (3 years) from the delivery date.

This warranty does not extend to cover maintenance of any kind.

The warranty applies only to the first acquiring purchaser and does not extend to products or components that were not correctly used or to products where changes have been made. Any warranty is rendered null and void by the non-intended use of Lorem X.

The warranty obligation is limited to repairs or exchanging a product sent to the distributor during the warranty period.

A prerequisite is that Macmed acknowledges that the product is defective and the defect is not attributable to improper handling (read the user manual), changes to the product, or any abnormal operating conditions.

Any warranty obligation will expire if persons not authorized by Macmed carry out repairs on, or open up, the Lorem X Driver.

The terms of this warranty apply exclusively and in place of all other contractual or statutory

obligations, including, but not limited to, the legal warranty regulations of the marketability, the suitability, and the expediency for the specific application.

The manufacturer assumes no responsibility for direct and indirect, incidental, or consequential damage, regardless of whether it is the result of lawful, unlawful, or any other action.

Warranty and liability claims about damage to persons or property are excluded if they can be traced to one or more of the following causes:

- Unintentional or negligent use of Lorem X .
- Improper use, operation, and maintenance of Lorem X.
- Noncompliance with the guidelines/warnings/cautions found in the operating instructions.
- Unauthorized structural changes to Lorem X products.
- Noncompliance with the operating instructions.
- Parts to be regularly checked, exchanged, or are subject to wear, for example, the mains power cords, the connection cables.
- Improperly handled repairs and using parts, replacement parts, or accessories not recommended by Macmed.
- Disaster and force majeure.

9. Notes

All specifications and appearances are subject to change without notice.

All information was correct at time of printing.

Macmed sa de cv, does not guarantee for the accuracy or completeness of any description, photograph or statement contained in this manual. Printed colors and specifications may vary slightly from product.

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The same applies to reproduction or copying of images, even in altered form.

10. Identification

Your Lorem X DRIVER has a label mentioning:

Product Name

Manufacturer

Serial Number