

PMST MAX DUO

Physio Magneto Therapy

PMST: Physio Magneto Super Transduction

User Manual



Attention

Respected user:

Thank you for choosing the instruments which carefully designed and manufactured by our company.

In order to better utilize the product, we sincerely recommend:

- ◆◆ Please read this manual carefully before using the instrument.
- ◆◆ Please install, use and operate correctly according to the requirements in the manual.
- ◆◆ Do not disassemble or modify any parts of this machine.
- ◆◆ Except for authorized personnel of the company, it is strictly forbidden to open the cover and disassemble the host.
- ◆◆ Non-professionals are strictly forbidden to carry out repairs and renovations.
- ◆◆ If there is any malfunction during the operation, please contact us.

Due to continuous improvement, update, and replacement of the product, the products received may not be exactly same as the illustration in the manual. We sincerely apologize.

Notice: Please read this manual carefully before operating this machine

WARNING

- The machine must be powered off to insert the handle.
- When pulling out the handle, the machine must be powered off.
- **Password: 88888**

Preparation And FAQ Before Use

Add water into the machine (Please follow the video)

Notice 1: After adding water into the machine, we need to change the water every 2 weeks. The aim is to maintain the water cooling system. Drain away the water first and then add water again. And the water should be distilled or purified water.

Question 1: Why should I add water into the machine?

Answer: Because the machine adopts water-cooled system and before the delivery we will drain away water to avoid the water coming out during the international transportation. So if you need to move it to a far workplace, you also need to drain away water in the machine and put it into the aluminum box with foam for protection.

Question 2: What kind of water should I add into the machine and why?

Answer: **Distilled water** or **purified water** because there is no waste in such water. The waste of the normal water may produce incrustation and damage the water-cooled system.

Question 3: What is the advantage of water-cooled system?

Answer: Compared with the air-cooled system, water-cooled system has higher efficiency in heat dissipation. So it can be used for around 8 hours continuously without energy loss.

Question 4: How long does a treatment take?

Answer: Normal treatment time is 20 to 40 minutes.

Question 5: Can it be used prevent?

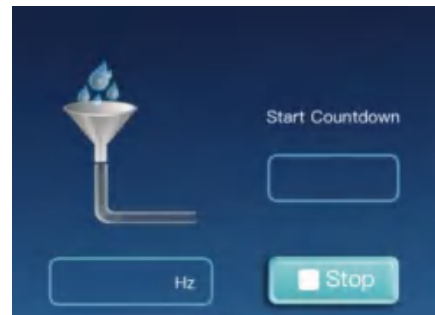
Answer: Yes, day out or day of at trainer's discretion.

IMPORTANT NOTICE BEFORE OPERATING THE DEVICE

1. The machine has dual channels and changeable applicators. Before starting the machine, the applicator must be attached to the device firmly. If there is no applicator attached to the device and we start the machine, the energy has no way to release and will burn the circuit board. This misuse to cause the problem **WILL NOT BE** included into the warranty. Please consult the sales person to get the video guidance about how to install the applicator and change the applicator.



2. Because the machine adopts water cooling system, we need to add about 1.5 liter distilled or purified water into the machine when we receive the device. For maintenance, we need to change the water every month. Please consult the sales person to get the video guidance about how to add water and change water.



3. The right usage of the holding arm will be important. Before the each movement of the holding arm, we need to loosen the central lock. If not, the thread will be easily damaged. This misuse to cause the problem **WILL NOT BE** included into the warranty. Please ask the sales person to get the video about how to use the holding arm correctly.



4. If you purchase the optional laser handle. The right combination of the laser handle and joint applicator is important. The treatment side of the applicator without the logo. Do not



target the treatment side of the magnetic applicator at the laser handle or the internal

components of the

5. The password to enter the host page is: **888888**
6. If there is only a pure metal object in the vicinity of the treatment site, vibration and heat will occur depending on the distance of the metal object.
 - ◆ If there is an implanted circuit in the body, such as a pacemaker, or other circuit device. Strong magnetic fields can cause power failures or damage internal chips.
 - ◆ ID cards, car keys, access cards, and other wireless devices near the magnetic ring will be damaged.





PMST MAX DUO

【1】 Product Appearance (For reference only, subject to the actual product)






【2】 Part lists

◆ Standard configuration

			
Machine*1	Point Applicator*1	Muscle Applicator*1	Holding Arm*1
			
Water Tube*2	Power Line*1		

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◆ **Optional configuration (You need to buy additionally)**

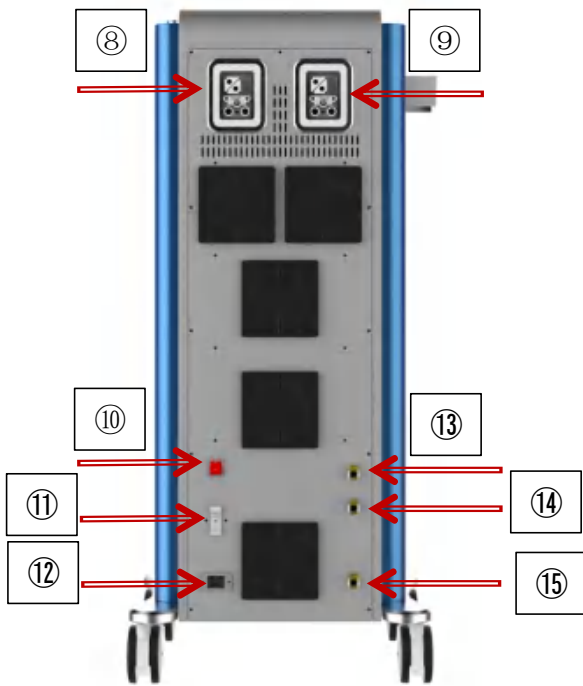
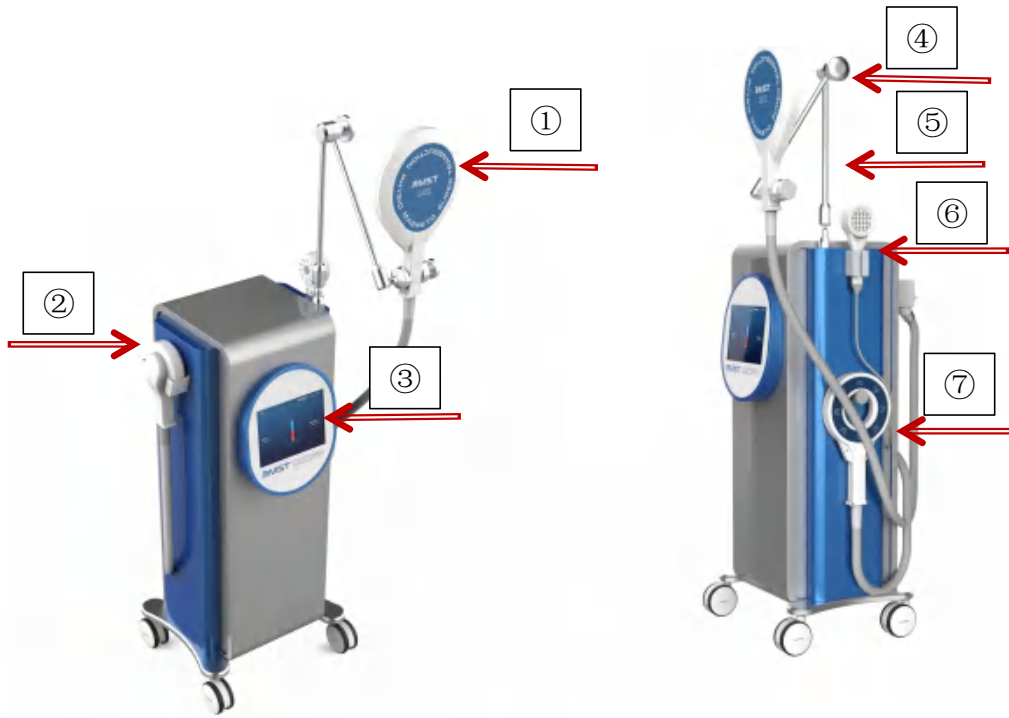
		
Joint Applicator*1	Laser Handle*1	Silicone Case*1

【3】 Technical Parameters

Product mode	PMST MAX DUO
Technology	Pulse Electromagnetic Field
Intensity	Up to 7T
Standard handle	Point applicator Muscle applicator
Optional handle	Joint applicator Laser Applicator
Application	Sports Injuries, Chronic Pain, Joint Diseases
Oscillation frequency in MT mode	1-150Hz
Oscillation frequency in ST mode	1000-3000Hz
Cooling system	Water Cooling System
Voltage	100-240V
Output Power	1200W

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【4】 Structure of the machine and how to install it



Structure:

- ① Muscle Applicator
- ② Point Applicator
- ③ Touch Screen
- ④ Central Lock
- ⑤ Holding Arm
- ⑥ Laser Applicator
- ⑦ Joint Applicator
- ⑧ Channel A
- ⑨ Channel B
- ⑩ Key Switch
- ⑪ Fuse
- ⑫ Power Outlet
- ⑬ Water Inlet
- ⑭ Water Overflow
- ⑮ Water Outlet

【5】 Installation

Note: When the machine is power on, we must not install the handles or remove handles from the outlet.

In PMST MAX DUO therapy, ① Muscle Applicator ② Point Applicator ⑦ Joint Applicator can use the same channel.

(1) Use Muscle Applicator

- Install ① Muscle Applicator to ⑧ Channel A or ⑨ Channel B



Insert the applicator **clockwise** into channel A or channel B



(2) Use Point Applicator

- Install ② Point Applicator to ⑧ Channel A or ⑨ Channel B



Insert the applicator **clockwise** into channel A or channel B



(3) Use Joint Applicator

- Install ⑦ Joint Applicator to ⑧ Channel A or ⑨ Channel B



Insert the applicator **clockwise** into channel A or channel B



【6】 Interface:

Step 1:

Enter power-on password: **888888**

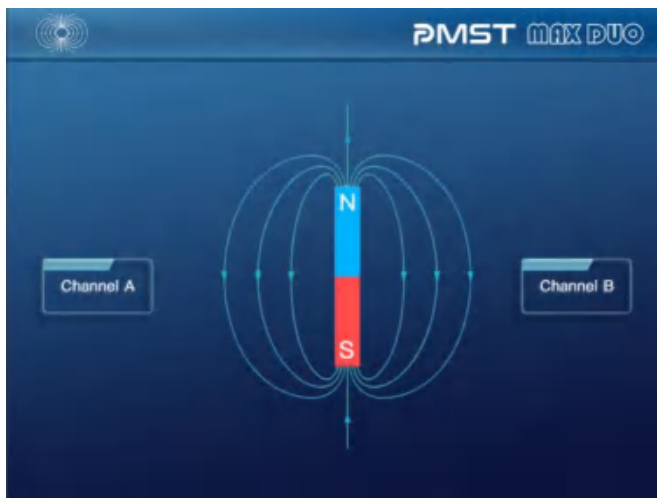


Step 2:

After enter the password, you can see the follow interface

Channel A and Channel B

Remarks: Channel A and Channel B can work together or separately.



Step 3:

Click Channel A or Channel B, you can see some parameters:

- MT Mode Interface
- ST Mode Interface
- Laser Interface

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1. MT Mode Interface

Frequency Range: 1~150Hz
 F1~F10 can work together or separately
 and the frequency can be adjusted freely.
 (turn on or turn off it/them)



Ten body parts

Power adjustment: 5-100%
 "+": Power increase
 "-": Power decreases

Time adjustment: 1-30mins
 "+": Time increase
 "-": Time decreases

Start or Stop

MT Mode



Guidance:

Recommended parameters and protocol and symptom explanations for 10 body parts.

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2. ST Mode Interface:

Frequency Range: 1000~3000Hz
The frequency is preset and can not be adjusted



Ten body parts



Power adjustment: 5-100%
“+”: Power increase
“-”: Power decreases

Time adjustment: 1-30mins
“+”: Time increase
“-”: Time decreases

Start or Stop


ST Mode



Guidance:
Recommended parameters and protocol and symptom explanations for 10 body parts.

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3. Cold Diode Laser Interface:



The screenshot shows the main laser interface with the following elements:

- TREATMENT AREA:** A list of body parts including SHOULDER, KNEE, WRIST, FOOT, and GROIN.
- LASER SECTION:**
 - Working Time:** 30:00, with minus and plus buttons for adjustment.
 - Intensity:** 30%, with minus and plus buttons for adjustment.
 - Frequency:** Continuity, with minus and plus buttons for adjustment.
 - Wavelength Selection:** Buttons for 650nm and 808nm.
- Bottom Navigation:** Buttons for Guidance, MT, Laser (highlighted with a red box), and Start. A gear icon for settings is also present.

Annotations and callouts:

- Treatment time adjustment:** 1-60mins. "+" : Time increase, "-" : Time decreases.
- Intensity adjustment:** 10-100%. "+" : Power increase, "-" : Power decreases.
- Frequency adjustment(Hz):** 5Hz, 10Hz, 25Hz, 50Hz, 100Hz, Continuity.
- Laser wavelength selection:** 650 nm & 808nm.
- Callouts:**
 - Laser interface:** Points to the Laser button.
 - Start and stop:** Points to the Start button.
 - Language setting:** Points to the gear icon.



The Water Cooling System interface includes:

- Temperature Gauge:** A vertical scale on the left side.
- Water Cooling Diagram:** A central graphic showing a water cooling system with a funnel and a pipe.
- Start Countdown:** A text label above an empty input field.
- Hz:** A text label above an empty input field.
- Pause:** A button with a square icon.
- Bottom Navigation:** Buttons for Guidance, MT, ST, Laser, and Start. A gear icon for settings is also present.

Water Cooling System

【7】 Recommended steps and Operation

- (1) Enter the password of “ 888888 ”
- (2) Position the applicator above the treatment area (The side that is not marked is the treatment side of the magneto applicator.)
- (3) Fix the holding arm and applicator you need to use, then select the suitable body part on the interface.
- (4) Adjust the preset parameters, intensity, frequency and treatment time according to the patient’s conditions.
- (5) Press the “Start” button to operate.
- (6) If the power is too high, you can be decrease the power or frequency or make a specific distance between treatment areas and applicator; If the power is too low, you can be increase the power or frequency and hold the handle close to the treatment areas.



Point Applicator

- 13cm diameter
- 4 Tesla magnetic power
- For Small Treatment Areas:
 - Arms, waist, thighs and calf



Muscle Applicator

- 26cm diameter
- 7 Tesla magnetic power
- For large treatment area:
 - Back, abdomen, buttocks



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Joint Applicator

- 20cm diameter
- 5 Tesla magnetic power
- For Joint Treatment:
 - Ankles, knees, elbows, shoulders



Laser Applicator

- 16 PCS cold diode
- Up to 5000mw
- For whole body treatment



Joint Applicator combine with cold laser applicator can have a better result for healing process.

For joint treatment

- Ankles, knees, elbows, shoulders



[8] Recommended treatment protocols

A. Magnetic Therapy

1. Treatment Principle:

- The magnetic pulses emitted by Physio Magneto Super Transduction send magnetic energy into the body's cells and resonate with the body's own magnetic fields, increasing available electrolytes and ions.
- The resulting increased electrical activity sparks cellular metabolism, to initiate the healing process.

2. Indication:

- **Pain Relief**
 - Magnetic therapy is often used to alleviate various types of pain, including joint pain, muscle soreness, and chronic pain conditions such as arthritis.
- **Inflammation Reduction**
 - Some proponents claim that magnetic therapy can help reduce inflammation, which is associated with many health conditions and injuries
- **Improve Circulation**
 - Magnetic fields are thought to affect blood flow, potentially improving circulation and oxygenation of tissues.
- **Enhanced Healing**
 - It's suggested that magnetic therapy may promote tissue repair and regeneration, accelerating the healing process for injuries and wounds.
- **Relaxation and Stress Reduction:**
 - Magnetic therapy may have calming effects on the nervous system, leading to relaxation and stress reduction.
- **Support for Certain Medical Conditions**
 - Some practitioners may recommend magnetic therapy as a complementary treatment for specific medical conditions such as fibromyalgia, insomnia, or migraine headaches.

3. Contraindication:

(1) Forbidden

- The eyes and the surrounding area, the myocardium, the spinal cord, the gonads, the kidney and the liver.
- Blood disorders, coagulation problems or the use of anticoagulants.
- Poly-pus in the area of treatment.
- Thrombosis.
- Tumor diseases.
- Polyneuropathy.
- Growing cartilage in children.
- Therapy using corticoids.
- In applicable on areas in proximity to large nerve bundles, bundles, blood vessels, the spinal cord and the head.

(2) Possible Side Effects

- Erythema or swelling can temporarily occur in the treated area.
- Loss of bodily sensation or itching can temporarily occur in the treated area.

(3) Recommended treatment protocols

MT Mode							
Area	Energy	Frequency			Time	Sessions	Interval
		F1	F2	F3			
Elbow	30	7	25	10	15mins	6-8	twice a week
Wrist	30	7	25	10	15mins	6-8	twice a week
Shoulder	50	10	29	13	20mins	6-8	twice a week
Cervical Vertebra	50	7	25	10	20mins	6-8	twice a week
Lumbar Vertebra/	50	9	28	12	20mins	6-8	twice a week
Groin	45	6	22	9	15mins	6-8	twice a week
Hip	60	12	29	15	20mins	6-8	twice a week
Thigh	50	7	25	10	20mins	6-8	twice a week

Knee	55	11	29	13	20mins	6-8	twice a week
Foot/Ankle	40	7	25	10	15mins	6-8	twice a week

ST Mode							
Area	Energy	Frequency			Time	Sessions	Interval
		F1	F2	F3			
Elbow	30	1K	3K	2K	15mins	6-8	twice a week
Wrist	30	1K	3K	2K	15mins	6-8	twice a week
Shoulder	50	1K	3K	2K	20mins	6-8	twice a week
Cervical Vertebra	50	1K	3K	2K	20mins	6-8	twice a week
Lumbar Vertebra/	50	1K	3K	2K	20mins	6-8	twice a week
Groin	45	1K	3K	2K	15mins	6-8	twice a week
Hip	40	1K	3K	2K	20mins	6-8	twice a week
Thigh	45	1K	3K	2K	20mins	6-8	twice a week
Knee	40	1K	3K	2K	20mins	6-8	twice a week
Foot/Ankle	35	1K	3K	2K	15mins	6-8	twice a week

B. Low Level Laser therapy

1. Treatment theory

During this procedure, different wavelengths and outputs of low-level light are applied directly to a targeted area. The body tissue then absorbs the light. The red and near-infrared light cause a reaction, and the damaged cells respond with a physiological reaction that promotes regeneration.

2. Indications

Doctors, dentists, physical therapists, and other medical professionals use cold laser therapy in a variety of ways. The main uses for cold laser therapy are tissue repair and relief from pain and inflammation. Sports medicine and physical therapy

practices often use cold laser therapy in the treatment of minor injuries and sprains, such as:

- ◆ Ligament sprains
- ◆ Muscle strains
- ◆ Tendonitis
- ◆ Bursitis
- ◆ Tennis elbow
- ◆ Neck pain
- ◆ Lower back pain
- ◆ Knee pain
- ◆ Pain associated with muscle spasms

3. Recommended treatment protocols

Cole Diode Laser					
Area	Energy	Frequency	Time	Sessions	Interval
Elbow	60-80	Continuity	15mins	6-8	twice a week
Wrist	60-80	Continuity	15mins	6-8	twice a week
Shoulder	80-100	Continuity	20mins	6-8	twice a week
Cervical Vertebra	80-100	Continuity	20mins	6-8	twice a week
Lumbar Vertebra	80-100	Continuity	20mins	6-8	twice a week
Groin	70-100	Continuity	15mins	6-8	twice a week
Hip	80-100	Continuity	20mins	6-8	twice a week
Thigh	50-80	Continuity	20mins	6-8	twice a week
Knee	60-100	Continuity	20mins	6-8	twice a week
Foot/Ankle	60-100	Continuity	15mins	6-8	twice a week

4. Contraindications

- ◆ Impaired cutaneous thermal sensations
- ◆ Defective arterial cutaneous circulation
- ◆ Dermatitis or eczema
- ◆ Tumors
- ◆ Skin damage due to ionizing radiation
- ◆ Tuberculosis
- ◆ Photosensitivity
- ◆ Hyperesthesia
- ◆ Mental retardation
- ◆ Metal implant
- ◆ Fever

5. Recommended steps

- (1) Use the silicone to combine Joint Applicator and infrared handle
- (2) Use two wavelength and adjust treatment time and intensity based on the needs.
- (3) Use the holding arm to secure the infrared handle.
- (4) Press the "Start" button.

Note:

- (1) The body part which will takes laser therapy cannot covered by the clothes.
- (2) The laser therapy and magneto therapy can work at the same time.
The naked eyes cannot directly look at the direction in which the laser is thrown.

6. Maintenance

The laser handle must not be put under the treatment side of the magneto applicator.

The side that is not marked is the treatment side of the magneto applicator.

[9]FAQ:

1. What is Physio Magneto Super Transduction Therapy ?

- PMST Therapy , so as to Physio Magneto Super Transduction Therapy, is a form of magnetic therapy, opens up a new world of possibilities in regeneration and rehabilitation.
- PMST Therapy enables practitioners to broaden the scope of treatment options offered to patients to remedy musculoskeletal disorders and tendinopathies.

2. Is Physio Magneto Super Transduction therapy effective?

- The findings show that Physio Magneto Super Transduction therapy / EMTT is an effective non-invasive therapy option in the treatment of shoulder joint enthesopathies.

3. What are the benefits of Physio Magneto Super Transduction ?

The benefits of EMTT include:

- Regulates cell membrane permeability.
- Regulates inflammation pathway, reduces inflammation.
- Increases cellular reproduction and regeneration.
- Stimulate tissue healing response.

4. Explore the advantages of Physio magneto super transduction at a glance:

- Non-invasive, outpatient therapy – with almost no side effects
- Used for musculoskeletal diseases
- Wide range of treatment options
- High level of patient comfort and easy to use
- EMTT is an exceptional complement to ESWT

5. Consider the array of possible musculoskeletal treatment applications of

Physio Magneto Super Transduction:

- Degenerative joint diseases and disorders
- Wear and tear conditions: osteoarthritis (knees, hips, shoulders, elbows , feet), herniated discs, spondylarthrosis
- Chronic pain treatment: back pain, lumbago, tension, radiculopathy
- Sports injuries: Inflammation of tendons and joints, tendon overuse syndromes, inflammation of the pubic bone

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- Prevention or retardation of disuse atrophy to temporarily increase local blood circulation in healthy leg muscles.
- Post-surgical stimulation of calf muscles: preventing venous thrombosis
- Maintaining and improving range of motion
- Temporary relief of sore and achy muscles
- Relaxation of muscle spasm

6. How do PMST PRO MAX reduce inflammation?

- The swelling was reduced by about 50 percent, apparently because the magnetic field changed the diameter of the blood vessels. The magnet only had to remain in place for 15 to 30 minutes.

7. Why uses 650 and 808nm cold diode laser?

- 650 and 808nm cold diode laser used for healing and pain relief, stimulate repair of tissue, reduce inflammation and relieve pain in musculoskeletal disorders.
 - **650nm Accelerates Surface Healing**
 - ❖ Irradiating an area with 650nm, a wavelength where melanin our skin absorbs very well, will ensure a large dose to the superficial region. Since light can both inhibit bacteria and promote cell growth, laser therapy has incredible results in wound healing and scar tissue regulation.
 - **808nm Increases ATP Production**
 - ❖ The enzyme determining how efficiently the cell converts molecular oxygen into ATP has the highest absorption at 808nm. Regardless of the enzyme's molecular state, when it absorbs a photon it will flip states. Photon absorption will accelerate the process and increase cellular ATP production.