

MR16-4S

VER:1.1

USER MANUAL



Warning

Dear user:

Thanks for using our company's products, in order to fully make use of the products, we sincerely suggests follow:

- ◆◆ Please read the instruction in detail and keep it well for further reading and consulting.
- ◆◆ Please follow the instruction to fit and operate the machine correctly.
- ◆◆ Please do not remove and change any accessories of the machine.
- ◆◆ It forbids others to open and remove the mainframe except the authorized people in the company.
- ◆◆ It forbids others to change and maintain the machine except the professional people.
- ◆◆ Please contact us if there is any trouble during operation.

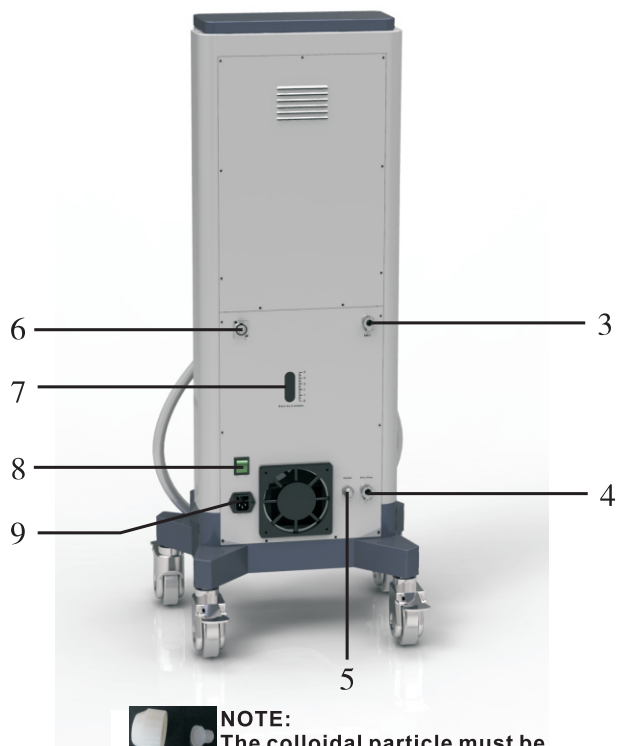
This product does not belong to medical, please don't use for disease treatment!

Parts Introduction



- 1.Touchscreen
- 2.Accessory frame
- 3.Coolant inlet
- 4.Overflow
- 5.Coolant discharge valve
- 6.Service brake
- 7.Coolant level window
- 8.General power switch
- 9.Power supply line jack

Emergency stop button:
Press—EMG stop
Reset—Rotate 90 ° CW
NOTE: Ensure that the EMG-stop button is RESET before using



NOTE:
The colloidal particle must be plug back to the hole of valve after cleaning in order to prevent leakage.

Accessories



Cool & Heat work hand-rod



Thermage Intelligent hand-rod



Service brake



Thermage work head for eyes around



Thermage work head for face



Thermage work head for body

Any part of instrument made of PMMA material (for example: accessories shelf, panel, transparent handles, etc.). Do not use alcohol or corrosive solvent to wipe clean.

Before Transportation

1.The coolant should be cleared before transportation.

2.Method:

Open the coolant discharge valve[5] as the picture shows (turning it to the counter clockwise and the pull out the stopper), discharge the coolant, move the machine to help the coolant get out completely.

Notice:

While discharging the coolant, the Cool & Heat work hand-rod should be placed at the handle support.

Steps of Add Coolant

1.Use purified water(or special coolant);

2.Make sure the coolant discharge valve[5] is closed;

3.Use special funnel to connect to coolant inlet[3];

4.Add purified water(or special coolant) from the funnel;

5.Add liquid until the level of the coolant level window[7] arrive at 4.5;

6.Add cooling fluid successfully first time;

7.Connect power supply line[9], turn on general power switch[8]. Input password "000000" to enter interface as (Fig1) shows, click on "Set" to enter interface as (Fig 2) shown. Click on "Liquid setting" to enter interface as (Fig 3) shows, click on "Start" to become counter down.

8.When stopped, please observe the status of coolant level window, if it doesn't arrive at level 4.5, please add cooling fluid again until the level is above 4.5 ,then take off the funnel.

NOTE:

1.Add about 1L pure water or special cooling fluid, change the water after 3 months.

2.When could not add into the coolant, please open the coolant discharge valve[5], Add the coolant and observe the valve. when the liquid is smooth outflow, blocked it and continue to fill...

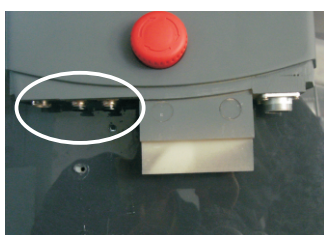
3.If do not use the apparatus 15 days or above, we are recommended to put the coolant clean and clear.

Installation of Accessories

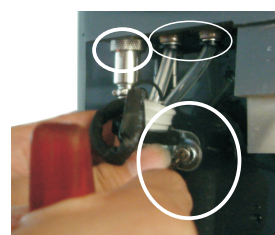
1. Hold on both sides of the decorative cover, pull it down as shown in step 1.
2. After remove the decorative cover as shown in step2, insert Cool & Heat work hand-rod into the socket on left, fasten the screw nut. Press the self-locking button, insert two transparent silicone tube into self-locking jack on left, and then aim the screw hole in line clamp at the hole in frame, use hexagonal screw fasten it, as step3 shows. Cool & Heat work hand-rod installation is finished as step4 shows
3. Insert the Thermage intelligent hand-rod into the right socket, fasten the screw nut, as step5.
- The thermage intelligent hand-rod installation is finished.
4. Placed the accessories lines into notch of decorative cover, then hold the decorative cover close to the chassis as shown in step6, decorative cover will automatically adsorption onto the chassis.
4. Placed Cool & Heat work hand-rod and Thermage intelligent hand-rod into accessories frame, the whole installation is finished.



(Step1)



(Step2)



(Step3)



(Step4)



(Step5)



(Step6)

Basic Operation

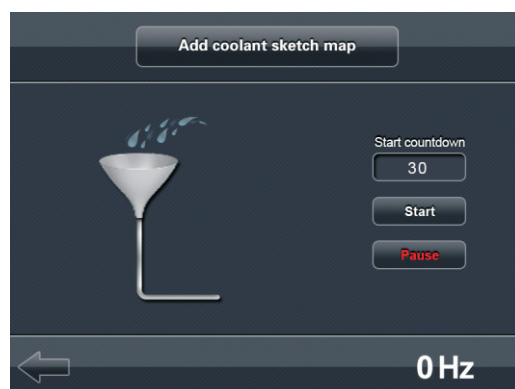
1. Put service brake on the ground, insert the plug of it into jack[6].
2. Insert power supply line to [9], turn on the General power switch [8], input default password "000000" to enter interface as shown in (Fig 1). Click on "SET" to enter interface as (Fig 2). Click on "Picture" to enter interface as (Fig 4) shows.
3. In interface as (Fig 2) shows:
 - (1) Click on "Basic setting" to select Language, set Date and Time.
 - (2) The "Advanced setting" is only for manufacturer, Users do not use.
 - (3) Click on "Liquid setting" to enter interface as (Fig 3) shows. The details please refer to <Add coolant steps>.
 - (4) Click on "picture" to enter interface as (Fig 4) shows.
4. In interface as (Fig 4)
 - (1) Click on "Cool & Heat" to enter interface as (Fig 6) "Cool & Heat" treatment.
 - (2) Click on "boot into", "SRF" to enter interface as (Fig 5) "Choose Part" interface. Click on "eyes" for example, click on eyes picture and then click on "→" to enter interface as (Fig 7) eyes around thermage treatment.
 - (3) Click on "Directly into", "SRF" to enter interface as (Fig 8) Thermage treatment.
 - (4) Click "←" to return to superior interface.
 - (5) Click "↶" to return to interface (Fig 4).



(Fig 1)



(Fig 2)



(Fig 3)



(Fig 4)

Cool & Heat Treatment

Cool Therapy

1. Click on “Cool & Heat” in interface as (Fig 4) to enter interface as (Fig 6) “Cool & Heat” treatment.
2. The system default is “Cool” therapeutics.
3. Set work time

Click on “working timing” to set treatment time. The system default time is 30 minutes, click on “<<” and “>>” to regulate, the range is 1~120 minutes.

4. Set cool temperature

Click on “Temperature” to set cool temperature. The system default time is 5°C, click on “<<” and “>>” to regulate, the range is -2°C to 20°C.

5. The “Real-time temp.” stands for the actual temperature of Cool work hand-rod reached when working.
6. Cleansing treated parts, and make zoning, such as: forehead, eyes, cheeks, chin, neck and so on.

7. Do cool treatment according to zone, and adjust appropriate required temperature.

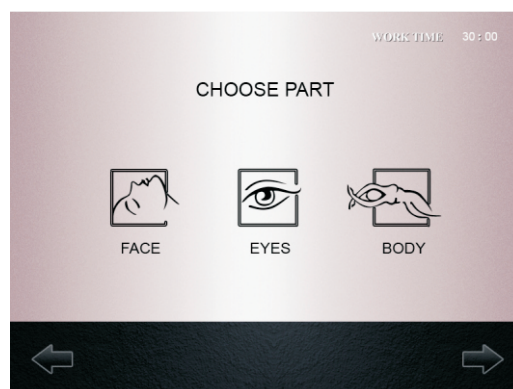
8. When the local skin temperature reached low temperature (about 3°C to -2°C), please immediately do thermage treatment at the site.

Note: If the Cool therapy use before thermage treatment, can make the skin at a low temperature paralysis state, which can effectively reduce the stinging sensation; If the Cool therapy use after thermage treatment, it will soothing the skin and reduce swelling.

Heat Therapy

1. The system default is “Cool”, Click on “Heat” to select heat therapy
2. Set the working time.
3. Set heat temperature, the system default is 42 °C, click on “<<” and “>>” to regulate, the range is 37°C to 45°C.
4. The “Real-time temp.” means that the actual temperature of Heat work hand-rod reached when working.
5. Daub oils on treated part, make heat work hand-rod cling to the skin and move slowly.

Note: The heat therapy can be used before thermage treatment for facial lymphatic drainage.



(Fig 5)



(Fig 6)

Thermage Treatment

Nursing process

1. Deep clean the treated skin.
2. Applied anesthetic in the nursing area, and to be anesthetic effect.
3. Daub cool gels on the treated skin.
4. In interface as (Fig 4), “boot into”, “SRF” to enter interface as (Fig 5) “Choose Part” interface.
5. Choose nursing parts, and Click on the picture directly and “→” to enter interface as (Fig 7)

Thermage treatment.

6. Insert the Thermage work head for eyes around into the Thermage intelligent hand-rod.
7. Set working time
8. Select the work mode:

Automatic mode: M1 3000ms(long)

M2 2600ms

M3 2200ms

M4 1800ms

M5 1400ms

M6 1000ms(short)

Manual mode: 1000ms to 3000ms.

9. Rugulate output intensity:

Eyes output intensity is 1(weak) to 5(strong)

Face output intensity is 1(weak) to 8(strong)

Body output intensity is 1(weak) to 8(strong)

10. Click on “PDT”, select turn on /turn off led therapeutics.

11. Click on “||”, the system begin to work, the beautician hold the Thermage intelligent hand-rod cling to skin.

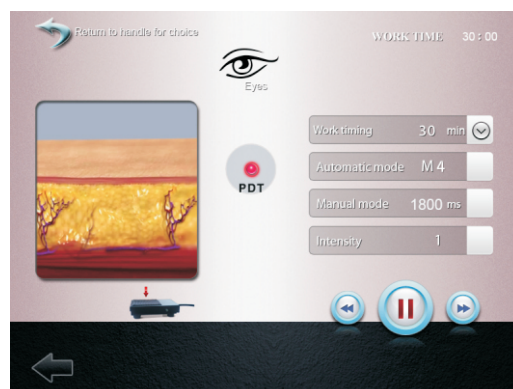
Step on the service brake with foot once, then release, move the handle

in a different part to continue operating. Beautician step on service brake each time, means that the Thermage work head output engage once at same time.

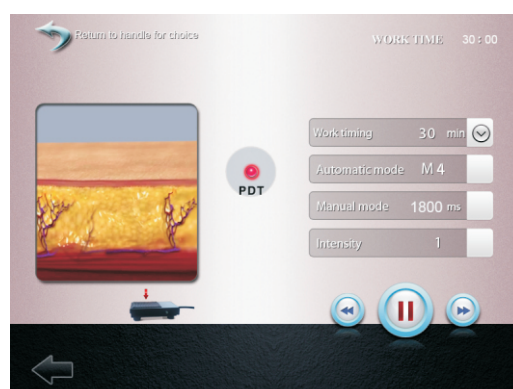
12. When Thermage treatments is completed. we may use Ice to cool the skin, it can relieve swelling, relieve pain effect.

TIPS:

1. If you want to do “FACE” or “BODY” treatment, please choose nursing part in interface as (Fig 4), and then insert Thermage work head for face or Thermage work head for body into Thermage intelligent hand-rod, Operate according to steps of eyes around treatment.
2. Click on “direct into” and “SRF” In interface (Fig 4) to enter interface as (Fig 8) Thermage treatment.



(Fig 7)



(Fig 8)

Cautions

1. When insert Thermage work head into the Thermage intelligent hand-rod, you must check and confirm whether fully inserted.
2. During the treatment, the customer do not wear any metal ornaments.
3. Applying electrical coupling agents such as gel and other cream products, otherwise the work head is in a abnormal states.
4. We recommended to turn off led therapeutics when do eyes around treated.

Forbidden Group

1. People with heart disease or high blood pressure, or configured cardiac pacemaker.
2. Patients with acute inflammation, asthma, deep vein thrombosis, thyroncus, cancer.
3. People with hemorrhagic disease, trauma or who is bleeding.
4. Pregnant women
5. Medical Plastic parts, or parts with artificial in filling inside.
6. People with metal inside the body(include metallic tooth)
7. Patient with skin inflammation or with edema.
8. People with an abnormal immune system.
9. Numb or insensitive to heat.

Touch Screen Calibration

1. Turn on the Power switch. Click on any place of the touch screen when in waiting interface state to enter calibrating program.
2. Follow the prompts in accordance with the left-top, right-top, right-bottom, left-bottom and center to click on the screen prompts symbol “+”.
3. Calibration is finished, the system enter to waiting interface.
4. Turn off the Power switch, reboot the system.

Technical Parameters

Input Voltage: AC 220V□/50Hz □ AC 110V□/60Hz□






Output Power: 150VA

Operating Frequency: 5M

Packing List



1.host	1set
2.Cool & Heat work hand-rod	1pc
3.Thermage intelligent hand-rod	1pc
4.Thermage work head for eyes around	1pcs
5.Thermage work head for face	1pcs
6.Thermage work head for body	1pcs
7.Service brake	1pc
8.Power supply line	1pcs
9.Funnel+silicon tube + fast connector	1set
10.User's manual	1copy
11.Transparent silicon tube(With CPC needle plug)	1pc
12.Hex socket wrench	1pc
13.Hex socket bolt	1pcs

Symbols and Meanings

Warning Symbol	Meaning
 Danger	If used incorrectly will bring the risk of death or serious injury!
 Warning	If used incorrectly will cause possibility ill of death or serious injury!
 Attention	If used incorrectly will cause personnel injury or damage to the goods!
 Danger	Device exists high pressure risk of high voltage output terminals!
 Warning	If used incorrectly will cause personnel injury!

*Things damage refers to housing, property, livestock and pet damage.

Contraindications

<p>1.The following symptoms were forbidden to use</p> <p>(1)Patients who used by Heart rate regulator, cardiac pacemaker, ECS;</p> <p>(2)The use of artificial bone; Patients with silicosis;</p> <p>(3)Drunk or high fever patients;</p> <p>(4)Patients with higher sensitivity mental disease and epilepsy patients</p> <p>(5)Patients with no independent expression consciousness and can not take care of themselves.</p> <p>(6)Patients with metal materials in body (including metal teeth), pregnant women, cachexia, malignant tumor.</p> <p>(7)Severe hypertension and severe patients with cardiovascular and cerebrovascular disease.</p> <p>(8)Patients with renal failure.</p> <p>(9)Patients with severe infection</p>	 Danger
<p>2.The following please use under the guidance of professionals</p> <p>(1)Women during menstruation;</p> <p>(2)Children;</p> <p>(3)Hemorrhagic disease or trauma, inflammation, skin disease, skin infection;</p> <p>(4)Patients with feeling numb, no response to cold and heat;</p> <p>(5)The immune system has defects, scar formation history, physical disease;</p> <p>(6)The people who has taken face-lifting or her body has artificial thing.</p>	 Warning

Attention

1. First check the host, accessories, power supply line is broken or not before use.
2. Start system, in addition to television, refrigerator, Do not turn on electrical power device at same time.
3. Before use, please take the hearing aid, electronic wristwatch, magnetic card, mobile phone and other things off first. Pay attention to the child's care to avoid touching.
4. During the using process, drink more water based on your physical.
5. In case of happen special circumstances or accident, please immediately stop using and consult professionals.
6. Patients with following medical electrical device cannot use this system at the same time.
 - Patients who implantable cardiac pacemaker, heart rate regulator, other electronic devices.
 - Artificial heart lung device and other device to sustain life.
 - Patients with ECG scanner device .
 - Patients with metal materials in body (including metal teeth), using artificial bone.
7. The following user should be agreed by the professionals before using this device.
 - Patients with acute disease.
 - Patients with malignant tumor.
 - Patients with Infectious disease.
 - Pregnancy women.
 - Cardiac disease.
 - Patients with high fever.
 - Being treated or physical abnormalities.
8. Please immediately turn off power supply, stop using if following abnormal situation happened.
 - (1) Water and other matter into the host.
 - (2) Host, power supply line, accessories line and plug etc. occur the abnormal heating, leakage.
 - (3) The sound to be unusual.
 - (4) Abnormal smell, smoke.
 - (5) Any accessories damaged.
 - (6) Natural disasters and earthquake, the sudden thunder
9. When the treatment is finished, please cut off the power supply, be sure to unplug the power plug from the power socket.
10. Please check the power supply line, accessories line carefully every time before use, if found damaged, you should stop using and replacing it.
11. Transportation and storage conditions: Transport according to the requirements of the order contract, the transport process should be to prevent sun and rain; packaged equipment should be stored in relative humidity of not more than 80%, no corrosive gas and ventilated room.
12. The warning mark produce in the specification, its purpose is to enable you to safely and correctly using this device, and to prevent you and others to injury.

Maintenance

1. Appliances and medical equipment close to the machine may be resulting in operational failure due to interference.
2. Prohibit use of the equipment in the following environment
 - Hot and humid environment
 - Dusty environment
 - Environmental with much smoke or steam
3. If there comes a failure, please shut down the power immediately, and send it to the distributor or manufacturer for maintenance. Do not repair by yourself.
4. **Exclusion of liability.**

The Company is not responsible for the following circumstances:

- (1) If fire, earthquake, war occurred;
- (2) The fault of the user, operator error;
- (3) Damage caused by using other method (not included in the use manual).
- (4) Operate without the manual's guide.



5. After using the machine for over 40 hours, please take off the dust filter and clean it (If have).
6. Do not make the machine close to the wall, keeping a 30CM space around for cooling.

Safety and Environmental Considerations

Hazardous Substances or Elements Contained in the Product

Part Name	Toxic and Hazardous Substance or Element						Remark
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)	
Plastic parts	○	○	○	○	×	×	
Metal structures /decorations	×	○	○	○	○	○	
Printed Circuit Assembly	×	○	○	○	○	○	
Power Line	×	○	○	○	○	○	
Plug of Power supply line	×	○	○	○	○	○	
Relay	○	○	×	○	○	○	
Buzzer	×	○	○	○	○	○	

- × Toxic and hazardous substance in at least one homogeneous materials of the part exceeds the concentration limit requirement described in SJ/T11363-2006.
- Toxic and hazardous substance in all the homogeneous materials of the part is either below the concentration limit requirement described in SJ/T11363-2006 or is not applicable because the part is not used.
- Products to be discarded after use, Please treat in accordance with electronic and information products recovery, re-use legal regulations.

Technical note:

Hardware structure of the machine parts, injection molded parts, and the majority of electronic components, connectors meet the requirements of the EU and China RoHS directives. Only a few parts as the global technology limitations that may affect product reliability, and not find a substitute for the toxic and hazardous substances, please be assured to use, use under normal conditions will not cause health effects on users.