

# MR18-2S

VER:3.0

## USER MANUAL



---

## Warning

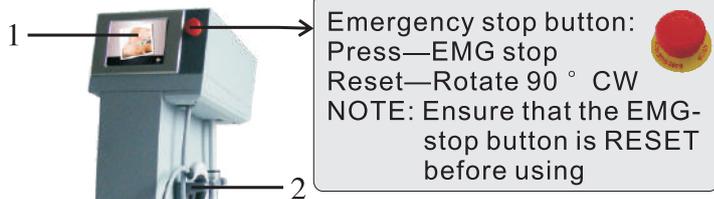
Dear user:

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

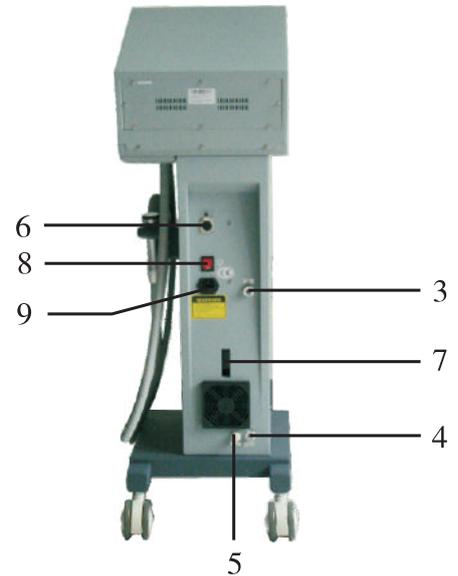
- ◆◆ Please read the instruction in detail and keep it well for further reading and consulting.
- ◆◆ Please follow the instruction to fit and operate the machine correctly.
- ◆◆ Please do not remove and change any accessories of the machine.
- ◆◆ It forbids others to open and remove the mainframe except 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.Distilled water inlet
- 4.Overflow
- 5.Distilled water discharge valve
- 6.Service brake
- 7.Distilled water level window
- 8.General power switch
- 9.Power supply line jack



**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



M&S Intelligent numerical control hand-rod



Micro heat Micro-needles work head  
25-needles,49-needles,80-needles



Service brake



Micro heat work head

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 distilled water should be cleared before transportation.

2.Method:

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

**Notice:**

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

## Steps of Add Distilled Water

1.Use distilled water or deionized water;

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

3.Use special funnel to connect to distilled water inlet[3];

4.Add distilled water or deionized water from the funnel;

5.Add liquid until the level of the distilled water 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 (Fig 1) 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 distilled water 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 distilled water or deionized, change the water after one week.**

**2.When could not add into the distilled water, please open the distilled water discharge valve[5], Add the distilled water 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 distilled water clean and clear.**

## Basal Operation

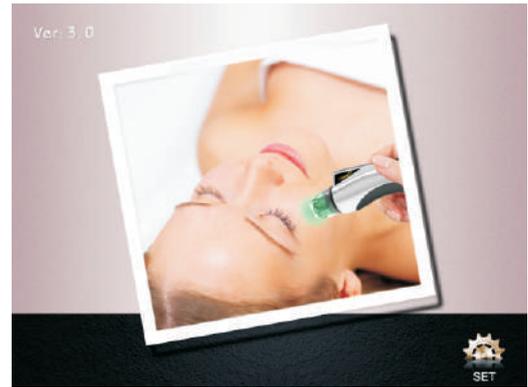
1. Put the brake service on the ground, Insert the brake service into jack [6].
2. Insert power supply line to [9], turn on the General power switch [8], input default password "000000" to enter interface as shown in (Fig 1). Click on "SET" to enter interface as (Fig 2). Click on "Picture" to enter interface as (Fig 4) shows.

3. In interface as (Fig 2) shows:

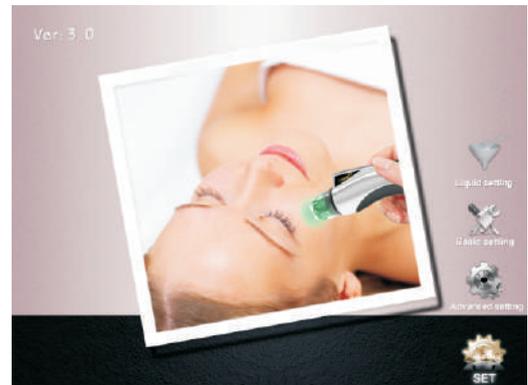
- (1) Click on "Basic setting" to select Language, set Date and Time.
- (2) The "Advanced setting" is only for manufacturer, Users do not use.
- (3) Click on "Liquid setting" to enter interface as (Fig 3) shows. The details please refer to "Add distilled water steps".
- (4) Click on "picture" to enter interface as (Fig 4) shows.

4. In interface as (Fig 4)

- (1) Click on "Cool & Heat" to enter interface as (Fig 9) "Cool & Heat" shows.
- (2) Click on "Superficial Micro heat", "boot into", "MRF & 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 10) eyes Micro heat treatment(SRF).
- (3) Click on "Superficial Micro heat", "Directly into", "MRF & SRF" to enter interface as (Fig 11) Micro heat treatment(SRF).
- (4) Click on "Micro-needles Micro heat", "Boot into", "MRF & SRF" to enter interface as (Fig 5) "CHOOSE PART" shows. Eyes for example, choose "EYES", click on "eyes picture", and then click on "→" to enter interface as (Fig 6) "Micro-needle depth confirmation" shows. According to the treated part, select micro-needle into the depth range. the eyes treated Micro-needle depth range is  $\leq 0.3\text{mm}$ (saftey) to  $\leq 1.0\text{mm}$  (danger). In interface as (Fig 6), choose appropriate depth, then click on "→" to enter interface as (Fig 13)



(Fig 1)



(Fig 2)



(Fig 3)



(Fig 4)

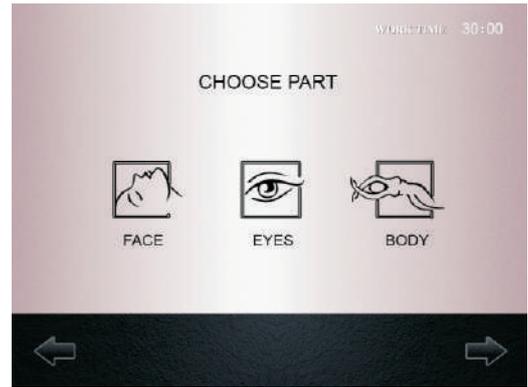
eyes “Micro heat Micro-needle MRF” treatment interface.

(5)Facial treatment micro-needle depth range is “ $\leq 0.5\text{mm}$ (saftey) to  $\leq 2.0\text{mm}$  (danger)”, be shown as (Fig 7).

(6)Body treatment micro-needle depth range is “ $\leq 1.5\text{mm}$ (saftey) to  $\leq 3.0\text{mm}$  (danger)”, be shown as (Fig 8).

(7)Click “←” to return to superior interface.

(8)Click “↶” to return to interface (Fig 4).



(Fig 5)



(Fig 6)



(Fig 7)



(Fig 8)

## Cool & Heat Treatment

### Cool Therapy

1. Click on “Cool & Heat” in interface as (Fig 4) to enter interface as (Fig 9) “Cool & Heat” shows.
2. The system default is “Cool” therapeutics.
3. Set work time. Click on “working timing”. The system default time is 30 minutes, click on “<<” and “>>” to regulate, the range is 1~120 minutes.



(Fig 9)

4. Set cool temperature. Click on “Temperature”. The system default time is 5°C, click on “<<” and “>>” to regulate, the range is negative 2°C to 20°C.
5. The “Real-time temp.” means that the actual temperature of Cool work hand-rod reached when it is working.
6. Cleaning 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 negative 2°C), please immediately do Micro-needles Micro heat treatment(MRF) or Micro heat treatment (SRF) at the site.

**Note: If the Cool therapy use before MRF or SRF, can make the skin at a low temperature paralysis state, which can effectively reduce the stinging sensation; If the Cool therapy use after MRF & SRF, 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 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 it is 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 MRF & SRF for facial lymphatic drainage.**

## Micro heat Treatment

### SRF Nursing process

1. Deep clean the treated skin.
2. Apply cold gels on the treated skin.
3. In interface as shown (Fig 4), “Superficial RF”, “boot into”, “MRF & SRF” to enter interface as (Fig 5) “Choose Part” interface.
4. Choose nursing parts, and Click on the picture directly and “→” to enter interface as (Fig 10) Micro heat treatment.
5. Insert Micro heat work head into the M&S Intelligent numerical control hand-rod.
6. Set working time.
7. 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.

8. Rugulate the Micro heat output intensity:

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

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

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

9. Click on “PDT”, select turn on /off LED therapeutics.
10. Click on “||”, the system begin to work, the beautician hold M&S Intelligent numerical control 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 Micro heat work head output engage once at same time.

11. When SRF treatments is completed. we may use ice to cool the skin, it can relieve swelling, relieve pain effect.

### AUTO output mode treatment

1. In (Fig 10), Click “

(Fig 10)



(Fig 11)



(Fig 12)

## MRF Treatment

### M&S Intelligent numerical control hand-rod:

When it is suitable for Micro-needles Micro heat work head can adjust the depth of Micro-needles by rule and line. Click on the “||” , step on the service brake once, the micro-needles work head is only output once.

### MRF Nursing process

- 1.Deep clean the treated skin.
2. Applied anesthetic in the nursing area, and to be anesthetic effect.
- 3.Apply effective products on the treated skin.
- 4.Click on “Microneedles Micro heat” “Boot into”, “MRF & SRF” to enter interface as (Fig 5) “CHOOSE PART” shows.
- 5.Choose nursing parts, and Click on the picture directly and “→”to enter interface as (Fig 6) shows.
- 6.Choose appropriate Micro-needles Micro heat work head, insert it into M&S Intelligent numerical control hand-rod.
- 7.Depend on the treated part to confirm the depth of micro-needles .  
0.3, 0.5, 0.8, 1.0 is suitable for eyes;  
0.5, 1.0, 1.5, 2.0 is suitable for face;  
1.5, 2.0, 2.5, 3.0 is suitable for body.
- 8.Click on “→” to enter MRF operating function as (Fig 13) “Micro heat Micro-needle MRF” shows.
  - (1)set working time.
  - (2)Select “Micro needles depth”. Click on “Micro needles depth”, click on “<<” and “>>” to adjust. The range is depending on choose as (Fig 6).
  - (3)Select “Time of needles being out”. Click on “Time of needles being out” ,the system default is 300ms, click on “<<” and “>>” to adjust, the range is 250ms to 600ms.  
250ms to 300ms is suitable to eyes;  
300ms to 450ms is suitable to face;  
450ms to 600ms is suitable to body;
  - (4)Select “Time difference of Micro heat and needles being out”. Click on “Time difference of Micro heat and needles being out” ,the system default is 2ms, click on “<<” and “>>” to adjust, the range is 1ms(fast) to 10ms(slow). 0-stands for Micro heat and needle output at same time.
  - (5)Regulate the “Micro heat intensity”. Click on “Micro heat Intensity” to regulate Micro heat output intensity. The system default is 1, click on “<<” and “>>” to adjust, the range:  
intensity for eyes:1(weak)~8(strong)  
intensity for face:1(weak)~10(strong)  
intensity for body:1(weak)~12(strong)



(Fig 13)

---

OFF stands for close Micro heat function.

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

10. Click on “||”, the system begin to work, the beautician hold M&S Intelligent numerical control hand-rod close 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 Micro-needles Micro heat work head output engage once at same time.

**CAUTION:**

**During face and body treated, when the length of Micro heat micro-needles work head arrive 2.0mm or above; Micro heat intensity arrive 8 or above; we recommended only operate one time in the same location. Do not repeat operating twice.**

11. When MRF treatment is completed. We may use Ice to cool the skin, it can relieve swelling, relieve pain effect.

## Cautions of MRF & SRF

1. When insert Micro heat micro-needles work head and Micro heat work head to the handle, you must check and confirm whether fully inserted.
2. During treating, 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. When gels or other cream products get into Micro heat work head, high temperature is easy caused smoking, please cleansing it immediately.
4. We are recommended to turn off the light power when do eyes treatment.

## 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: AC220~230V 50/60Hz  AC110V 50/60Hz

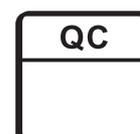
Output Power:  $\leq 150VA$

Fuse: FL5X20\3.15A with buffer (220V machine using) (double fuses)

Fuse: FL5X20\6.3A with buffer (110V machine using) (double fuses)

## Packing List

1. Host	1SET	<input type="checkbox"/>
2. Cool & Heat work hand rod	1PC	<input type="checkbox"/>
3. M&S Intelligent numerical control hand-rod	1PC	<input type="checkbox"/>
4. Micro heat Micro-needles work head(25needles)	2PCS	<input type="checkbox"/>
5. Micro heat Micro-needles work head(49needles)	2PCS	<input type="checkbox"/>
6. Micro heat Micro-needles work head(81needles)	2PCS	<input type="checkbox"/>
7. Micro heat work head	2PCS	<input type="checkbox"/>
8. Service brake	1PCS	<input type="checkbox"/>
9. Two pieces of liquid addition accessory	1SET	<input type="checkbox"/>
10. Power supply line	1PCS	<input type="checkbox"/>
11. User manual	1COPY	<input type="checkbox"/>



## 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

1. The following symptoms were forbidden to use

- (1) Patients who used by Heart rate regulator, cardiac pacemaker, ECS;
- (2) The use of artificial bone; Patients with silicosis;
- (3) Drunk or high fever patients;
- (4) Patients with higher sensitivity mental disease and epilepsy patients
- (5) Patients with no independent expression consciousness and can not take care of themselves.
- (6) Patients with metal materials in body (including metal teeth), pregnant women, cachexia, malignant tumor.
- (7) Severe hypertension and severe patients with cardiovascular and cerebrovascular disease.
- (8) Patients with renal failure.
- (9) Patients with severe infection



**Danger**

2. The following please use under the guidance of professionals

- (1) Women during menstruation;
- (2) Children;
- (3) Hemorrhagic disease or trauma, inflammation, skin disease, skin infection;
- (4) Patients with feeling numb, no response to cold and heat;
- (5) The immune system has defects, scar formation history, physical disease;
- (6) The people who has taken face-lifting or her body has artificial thing.



**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.
7. The average service life of Cool & Heat work hand-rod and M&S Intelligent numerical control hand-rod are 500 hours.

## Safety and Environmental Considerations

### Toxic and hazardous substances reference list Electronic information product pollution control and management measures Table of contents of toxic and hazardous substances or elements

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 Board	○	○	○	○	○	○	
Printed Circuit Board	×	○	○	○	○	○	
Power Supply	×	○	○	○	○	○	
Accessory	×	○	○	○	○	○	

#### Declaration:

- The content of the restricted substances in all homogeneous materials of this part is below the limits set by the SJ/T11363-2006 standard.
  - ×
- The content of a homogeneous material in the part of the material is beyond the SJ/T11363-2006 standard requirements. The user's normal use of this product within the time limit of environmental protection, these substances or elements will not occur leakage or sudden change, will not cause the personal, property damage. For such substances or elements, the user shall not dispose of it yourself, please according to government regulations to the relevant departments of the government designated recycling.