

# MR18-2S

VER: V1.0

## 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:

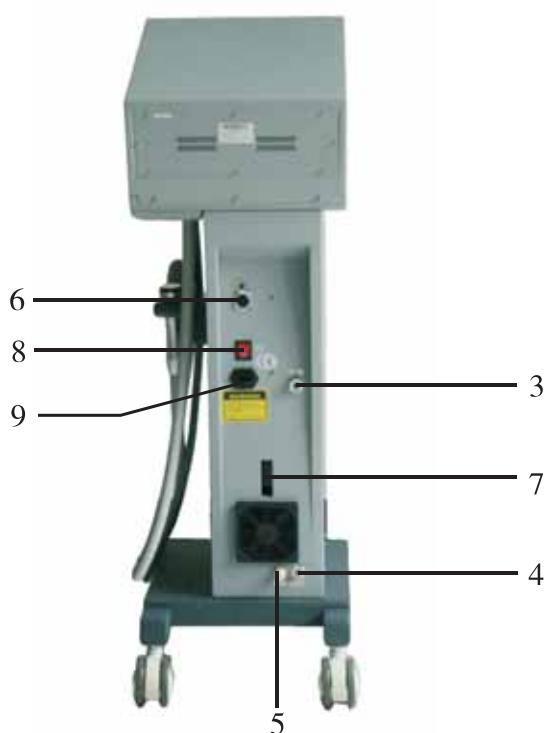
- ◆◆Please read the instruction in detail and keep it well for further reading and consulting.
- ◆◆Please follow the instruction to fit and operate the machine correctly.
- ◆◆Please do not remove and change any accessories of the machine.
- ◆◆It forbids others to open and remove the mainframe except 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



- 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



Cool & Heat work hand-rod



Intelligent numerical control hand-rod



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



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



Service brake



Dot matrix RF electrode head

---

## 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 “Set” to enter interface as (Fig 2) shown. Click “Liquid setting” to enter interface as (Fig 3) shows, click “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 not using the device 15days or above, we recommended to put the coolant clean and clear.**

## Basic 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 "SET" to enter interface as (Fig 2). Click "Picture" to enter interface as (Fig 4) shows.
3. In interface as (Fig 2) shows:
  - (1) Click "Basic setting" to select Language, set Date and Time.
  - (2) The "Advanced setting" is only for manufacturer, Users do not use.
  - (3) Click "Liquid setting" to enter interface as (Fig 3) shows.
  - (4) Click "picture" to enter interface as (Fig 4) shows.
4. In interface as (Fig 4)
  - (1) Click "Cool & Heat" to enter interface as (Fig 9) "Cool & Heat work hand-rod C&H" shows.
  - (2) Click "Superficial RF", "boot into", "MRF & SRF" to enter interface as (Fig 5) "Choose Part" interface. Click "eyes" for example, click eyes picture and then click "→" to enter interface as (Fig 10) eyes "Dot matrix SRF" treatment.
  - (3) Click "Superficial RF", "Directly into", "MRF & SRF" to enter interface as (Fig 11) "Dot matrix SRF" treatment.
  - (4) Click "Microneedles RF" "Boot into", "MRF & SRF" to enter interface as (Fig 5) "CHOOSE PART" shows. Eyes for example, choose "EYES", click "eyes picture", and then click "→" 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). When you select more than the standard will cause harm, the system will display the prompt "Exceed the standard, whether to perform?". Continue operating click to "Yes", re-choose click to "X". In interface as (Fig 6), choose appropriate depth, then click "→" to enter interface as (Fig 13) eyes "RF Micro-needle MRF" treatment interface.



(Fig 1)



(Fig 2)



(Fig 3)



(Fig 4)

(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 “ $\leftarrow$ ” to return to superior interface.

(8)Click “ $\rightarrow$ ” to return to interface (Fig 4).



(Fig 5)



(Fig 6)



(Fig 7)



(Fig 8)

## Cool&Heat treatment Function

### Cool Therapy

1. Click “Cool & Heat” in interface as (Fig 4) to enter interface as (Fig 9) “Cool & Heat work hand-rod C&H” shows.

2. The system default is “Cool” therapeutics.

3. Set work time

Click “working timing” to set treatment time. The system default time is 30 minutes, click “<<” and “>>” to regulate, the range is 1~120 minutes. Each part is 10~20 minutes.

4. Set cool temperature

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

5. The “Real-time temp.” means that the actual temperature of Cool work hand-rod reached when 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℃ to -2℃), please immediately do Micro-needles RF treatment(MRF) or RF Dot matrix 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 “Heat” to select heat therapy.

2. Set the working time. Each part about 10 to 20 minutes.

3. Set heat temperature, the system default is 42℃, click “<<” and “>>” to regulate, the range is 37℃ to 45℃.

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 MRF & SRF for facial lymphatic drainage.**



(Fig 9)



## Superficial RF treatment (SRF)

### SRF Nursing process

1. Deep clean the treated skin.
2. Applied anesthetic in the nursing area, and to be anesthetic effect.
3. Apply cold gels on the treated skin.
4. In interface as shown (Fig 4), "Superficial RF", "boot into", "MRF & SRF" to enter interface as (Fig 5) "Choose Part" interface.
5. Choose nursing parts, and Click the picture directly and "→" to enter interface as (Fig 10) "Dot matrix SRF" treatment.
6. Insert the Dot matrix RF electrode head into the Intelligent numerical control hand-rod.
7. Set working time (about 10minutes to 20minutes).
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 the RF output intensity:

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

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

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

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

11. Click "||", the system begin to work, the beautician hold the

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 RF Dot matrix electrode head output engage once at same time.

12. 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 interface as (Fig 10), Click " " to enter interface as (Fig 12) "AUTO output mode treatment" shows.
2. Setting work timing, work mode and RF intensity.
3. Click "||", the system begin to work, the beautician hold the Intelligent numerical control hand-rod cling to skin and move slowly.



(Fig 9)



(Fig 10)



(Fig 11)



## Micro needles RF function(MRF)

**Intelligent numerical control hand-rod:** When suit for Micro-needles RF 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 “Microneedles RF” “Boot into”, “MRF & SRF” to enter interface as (Fig5) “CHOOSE PART” shows.
5. Choose nursing parts, and Click the picture directly and “→” to enter interface as (Fig 6) shows.
6. Choose appropriate Micro-needles RF work head, insert it into the Intelligent numerical control hand-rod.
7. Depending 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 “→” to enter MRF operating function interface as (Fig 13) “RF Micro-needle MRF” shows.
  - (1) set working time  
Click “working time” to set working time, the system default is 30 minutes, Click “<<” and “>>” to regulate, the range is 1 to 120 minute.
  - (2) Select “Micro needles depth”  
Click “Micro needles depth” ,make the cursor “V” move on Micro needles depth, click “<<” and “>>” to adjust, the range depending on choose as (Fig 6).
  - (3) Select “Time of needles being out”  
Click “Time of needles being out” ,make the cursor “V” move on Time of needles being out, the system default is 300ms, click “<<” 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 RF and needles being out”  
Click “Time difference of RF and needles being out” ,the system default is 2ms, click “<<” and “>>” to adjust, the range is 1ms(fast) to 10ms(slow). 0-stands for RF and needle output at same time.
  - (5) Regulate the “RF intensity”  
Click “RF Intensity” to regulate RF output intensity. The system default is 1, click “<<” 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)OFF stands for close RF function.



(Fig 13)

---

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

10. Click "[|]", the system begin to work, the beautician hold the Micro-needles RF handle 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 RF work head output engage once at same time.

**CAUTION: During face and body treated, when the length of RF micro-needles work head arrive 2.0mm or above; RF 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.

### MRF Caution

1. When insert Micro-needles RF work head and Dot matrix RF electrode head to the Intelligent numerical control hand-rod, you must check and confirm whether fully inserted.
2. During the treating, the customer do not wear any metal ornaments.
3. Apply cool gels on the treated skin during the SRF.
4. We recommended to turn off led therapeutics when do eyes treated.

---






## Technical Parameters

- 1.Input Power: 220V/50Hz ☐ 110V/60Hz ☐
- 2.Power: 150 VA
- 3.Red LED: Red 650nm/5mWX1
- 4.Standard: GB4706.1-2005

## Accessories List

- |  |       |
|--|-------|
| 1.Host                                     | 1SET  |
| 2.Cool & Heat work hand rod                | 1PC   |
| 3.Intelligent numerical control hand-rod   | 1PC   |
| 4.Micro-needles RF handle                  | 1PC   |
| 5.Micro-needles RF work head(25needles)    | 2PCS  |
| 6.Micro-needles RF work head(49needles)    | 2PCS  |
| 7.Micro-needles RF work head(81needles)    | 2PCS  |
| 8.Dot matrix RF electrode head             | 2PCS  |
| 9.Service brake                            | 1PCS  |
| 10.Two pieces of liquid addition accessory | 1SET  |
| 11.Power supply line                       | 1PCS  |
| 12.User manual                             | 1COPY |

## Symbols and meaning

Warning Symbol	Meaning
 Danger	If used incorrectly will bring the risk of death or serious injury.
 Warning	If used incorrectly will cause the possibility ill of deaths 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
 Attention	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 (electro-cardioscanner);
  - (2) The use of artificial bone;
  - (3) Patients with silicosis;
  - (4) Drunk or high fever patients;
  - (5) Patients with higher sensitivity mental disease and epilepsy patients
  - (6) Patients with no independent expression consciousness and can not take care of themselves.
  - (7) Patients with metal materials in body (including metal teeth), pregnant women, cachexia, malignant tumor.
  - (8) Severe hypertension and severe patients with cardiovascular and cerebrovascular disease.
  - (9) Patients with renal failure.
  - (10) 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 the system, in addition to television, refrigerator, Do not open electrical power device at the 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 and 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 the power supply and 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 the 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.



Held onto the filter with hands, pull it out according to cursor. after cleaning, push it back.

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						NOTE
	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	×	○	○	○	○	○	
Power cord	×	○	○	○	○	○	
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.