

Ultrasound Therapy Equipment

Instructions
MY-S130D



Reading the Instructions carefully before using

Contents

Safety Notices	01
Notices Before Use	02
Functions	03
Health Mechanism and scope	04
Specification, Performance, Methods of operation	05
Parameter	06
Common Faliure Confirmation	07
Common Questions Ask and Answer	08

Putting the instructions closed to products where can easy to be found.

Checking products whether broke or not before using.



Safety Notices

In order to prevent improper use will causue accident, please be sure to follow the operation rules.

The diagram-word indication herin aims at operating the ultrasound instrument by users in a safe and correct way to prevent any accident. The consequences caused by wrong using methods, please take note on the words “ Danger” and “ Notice” to avoid any incidents.



Warning

- Stroke Patient: Non-stable forbidden to use, sequela patient can use it under the doctor supervision.
- Women during menstrual period: Caution.
- Pregnant woman: Forbid.
- Very few people will occasionally feel burning or pricking, it is the reaction that perist is allergic with ultrasonic wave. When stop using, you will recover right now, without any troubles.
- People implanted with cardiac pacemaker or have bleeding tendency do not use it.
- Please do not use ultrasound to effect on brain tissue directly.
- Intracranial hypertension: Forbidden .
- Purulent patient: Forbidden.
- Cancer patients or severe cerebral edema: Forbidden.



Warning

1. Forbidden naked light when ultrasound instrument working.
2. Please don't use it near to inflammable gas.
3. Please don't disassemble instrument by personal.



Attention

1. Person implanted with electronic instruments (such as cardiac pacemaker) should obey doctor's advice.
2. Don't use ultrasound therapy at humidity environment.
3. No need to clean ultrasound therapy.
4. Please check whether the power cable is insulated or not. If not good, please change it.
5. In order to do an experience treatment, people should do a body checking and according to the checking results to make their own experience plan and do it strictly, which can reduce the danger during using.
6. It is normal when people feel a slight acid, swelling and hot. when the feeling cannot be endured, people must stop using immediately or reduce output intensity of ultrasound. Conscious disabilities is prohibited to use ultrasonic therapy.
7. Producer is in charge of safety inspection and repair.
8. It is better to put instructions closed to instrument.
9. The operation of the instrument must strictly follow the guidance of the operating.
10. Make sure the machine power safe working environment and a good grounding.
11. Clean the probe of ultrasound with alcohol.

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- People who is sensitive with ultrasound at the first time should begin the experience in short time with low gear. With the increase of use, the body can gradually adapt, and then properly adjust the therapy time and increase gear accordingly. The probe of instrument is forbidden to use on brain, heart, eyes, gonad (testicle, ovary) and so on.
 - Pregnant woman are forbidden to use.
 - During using must put gel cream on probe. Don't use water to replace couple agent.
 - There is no repair components for clients. If the failures are emerged, please contact with technical service department of the company. Don't disassemble by yourself or unprofessional person.

Function

Ultrasound affects on human body which belongs to nature therapy, it has 50 years history. For the obvious use effects, it is known as one of greatest technology. Ultrasound therapy equipment is high-tech product with three effects of ultrasound, it has mature technology, reliable effects and no trauma, no radiation, and no side effects and so on.

Principles and Range of Uses

High Frequency mechanical effects

- Ultrasonic vibration can cause cell movement, thus having the effects of massage and analgesia.
- Promote metabolism, enhance blood and lymph circulation, improve tissue nutrition, changing the rate of protein synthesis, increase the regeneration function, etc.
- Making cytoplasm flow, cytoplasmic granules oscillation, rotation and friction. It can stimulate the process of cell semipermeable membrane diffusion, causing the rate of diffusion and membrane permeability changes.

Thermal Effects

- Increase the number of open blood capillary, enhance blood circulation, strengthen the metabolism.
- Improve muscle and connective tissue tension, relieve cramps pain.
- Improve partial tissue nutrition, enhance enzyme activity. Promote the establishment of collateral circulation.
- It is good for absorbing congestion.

Permeation Effects

- Improving the membrane permeation, the medicine is more accessible to get in bacteria.
- Make mast cell degranulation, intracellular calcium levels increase, increased vascular permeability, angiogenesis and collagen tension increases, etc.
- Ultrasound can make oxidase and dehydrogenase enzyme inactivation, and promote the effect of invertase.
- Ultrasound can affect blood flow, promote angiogenesis, collagen and scar maturation dissolution

Benefit

- Suitable for the person who got stroke with moving disable and soft tissue contusion

Specification, Performance, Operation Methods

Display

- Composed by back ground light and LCD.
- Time Indication: 5-30minutes.
- Gear Indicator Light:0.8 1.2 1.6 2.0 2.5.
- Sectorial wavy ultrasound indicator light.

Buttons

- Time Adjust Button: 5 10 15 20 25 30 , circulate setting.
- Strength + Button: Adjust from low to high.
- Strength - Button: Adjust from high to low.
- On/Off Button: Press one time for starts, press another time for stops.

Operation Guide

1. Connecting power, turn on the switch at back of instrument, the indication lamp will be lighten.
2. Through the strength button and time button choosing working degree and working time.
3. Cover coupling agent on treatment part of body and probe.
4. Finished treatment, please clean probe and turn off power.

Unpacking and Inspection

Main machine	1pc	Power wire	1pc
Ultrasound Probe	1pc	Protective tube	2pcs
Gel cream	1pc		

When receive the instrument and unpack box , check it weather good or not. Please fill in the card for after-sales service.

Parameters

Relative Humidity	20%—80%	Ambient Temperature	5 ~ 40°C
Power Input Rating	≤25W	Atmospheric Pressure	80 ~ 106Kpa
Power	220V~ 50 Hz	Ultrasound Voltage	≤35W
Ultrasound Operating Frequency	1.05M Hz± 10%	Beam Style	Straight
Temperature of probe	≤50°C	Output Power	≤3W/cm ²
Ultrasound Output	5.0W	Non-uniform Beam Coefficient	6
Security Classification	Healthcare Class		

Data as follow :

Handheld ultrasound probe working status	Gear	Effective ultrasound (W/cm ²)	Pulse duration (unit:ms)
M1	1	0.8	2
M2	2	1.2	4
M3	3	1.6	6
M4	4	2.0	8
M5	5	2.5	...

Common Failures and Trouble Shooting

Failures	Failure reason	Treatment method
No display when open the power	The power cable is not plugged well	Check and correctly connect the power cable
	Connection is not good between socket and plug	Changing socket and make good connection with plug
Display is normal, but no output	Connection is not good between probe and skin surface	The probe will have a such good contact with skin if used couplant.
	Probe conductor is broken	Change the probe
	Other problems	Turn back to factory for repairing

Ask and Answer

1.How much gel cream should be use during treatment? What effect that gel cream have?

Answer: Generally it is better to cover 2mm on probe. Using gel cream is for insulate air between probe and skin. Because ultrasound recession is very soon in the air. If not using gel cream or amount is not enough, it will damage the ultrasonic probe and reduced physical effects.

2.How to use probe and in what method is better?

Answer: using the ultrasonic probe with skin moving slowly, starting with low gear. Then adjust gear accordingly till adapt.

3.What posture is good during use?

Relax the treatment part of body and at a comfortable status.

4.Does the probe need to press skin tightly? How to improve use effect?

It is not good if press tightly. Only need touch the skin gently with probe and fill with gel cream. If you want to improve the treatment effect, you should consult it with doctor and making a set of schemes. Operate it according to rules strictly.

5.Why the feeling of back treatment is not obvious?

Because the treatment area is too large, after each movement the gathering effect is not good. when the treatment part of body is more than 5cm, should be treated separately.

6.Is it normal to feel a bit of acmesthesia, aching pain, numbness and distension when using ultrasound equipment? How to solve it?

It is normal reaction of above feelings which expresses the effect of ultrasound waves. No need to do special treatment at the tolerable range. With the depth of treatment, the feeling will be weakened, which means your fitness enhanced. If you cannot endure it, please get the gear lower or stop using.

Attention

1. Strictly forbidding fire around the appliance to avoid the conflagration.
2. Do not use the instrument in the surgery room.
3. If there is any problem that cannot be solved, please contact the dealer.

Storage

1. Put the appliance in the clean place.
2. Put the instrument in the place where the temperature between 5°C to 40°C, the relative humidity less than 80% and the atmospheric pressure between 86Kpa to 106Kpa.

Notice Before Use

1. When using the appliance, please plug the power line in the earth wire socket.
2. Explosion proof: Do not use the appliance where probably easy to produce inflammable gas. Please cut off the power before disinfecting or cleaning the room.