

DL108User Manual



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Chapter 1 User Instructions

Please read the user manual carefully before operating the machine! Please make sure the equipment is in working condition. If the operator wants to connect the equipment to other peripheral devices, please read the manual of the peripheral devices carefully. If you have any questions, please contact the factory.

- Do not use this device with other electrical equipment.
- Do not operate the device during a thunderstorm (during a thunderstorm, current may flow into the device and affect normal power.)
- Do not expose the device to strong current and strong magnetic field, otherwise it may cause malfunction.
- Make sure the voltage in the room is consistent with the power supply area of the device, and do not use AC power exceeding 240V.
- Do not operate the device in high temperature or humid places to avoid electric shock or malfunction.
- Before use, make sure the device is connected to a power source.
- Before use, make sure the connection between the circuit and the accessory is good.
- Avoid connecting to multi-plug sockets.
- Do not shake or bump the device during operation.
- Do not use the device directly if the cable or connecting wire is damaged, the device has been dropped, exposed to water or otherwise damaged.
- Do not use the cord as a handle.
- Keep wires and hoses away from heat sources.

- It is best to operate the device in a dry place and do not use it outdoors.
- Only use matching accessories provided by our company.
- Please turn off the power after use before cleaning and maintenance.
- Do not use detergents, solvents or chemicals to clean.
- Do not use the device while using aerosol products.
- Avoid spraying water on the device.
- Children under 11 years old and people with disabilities are not allowed to use the device alone and must be guided by someone.
- Children under 7 years of age are strictly prohibited from using the device.
- Do not use the device if any discomfort or injury occurs to your skin.
- Do not use on eyes, glottis, genitals, oral cavity, ears, nasal mucosa and nipples.
- Pregnant women are prohibited from using.
- If in any doubt, consult a physician before use.
- Do not use modified or remodeled equipment.
- Before operation, please wear professional goggles and glasses to avoid direct light into your eyes.

1.1 Safety

- The device has a self-test function. When the device is powered on, the system processor will perform a safety test. In addition, the system processor will perform an "ongoing test" and an "interval test" during the operation of the device.
- In case of emergency, press the emergency button (red button) to turn off the device.

Note: Personnel who have been trained by dealers. They are authorized to perform internal maintenance on the equipment. Incorrect maintenance by non-professionals may void the warranty.

1.2 Operator Training

Personnel who have received professional training can use this equipment. Please ensure the correct use of our products, we recommend that you read this manual carefully before operation. If you are in the process of treatment, please mark it with the words "non-related personnel are not allowed to enter". Before treatment, please clear the patient of possible treatment risks. We recommend reaching an agreement on the treatment. The success of the treatment depends mainly on the operator's experience and understanding of professional knowledge. During the treatment, the operator should wear professional protective glasses. The patient should wear professional goggles. Do not wear other glasses and goggles without professional advice.

1.3 Electrical and Equipment Safety

Power supply used by the device:

The instrument is 220V:220V+10% 50/60HZ, Single-phase 3-wire socket

The instrument is 110V:110V+10% 50/60HZ, Single phase 3 wire socket.

The device uses a three-prong national standard wire and ensures that the ground wire is fully grounded. Only authorized personnel can repair the device.

Note: It is strictly forbidden to use flammable items such as acetone and alcohol. If the device is disinfected with alcohol,

please do not use the device. Only when the alcohol is completely evaporated, people are allowed to use the device.

Chapter 2 Equipment Description

2.1 Equipment Features

DL108 Hair Removal Device is a device that can convert electricity, light and heat into continuous high-energy laser. It integrates laser technology, electronic technology and computer technology and is currently the safest and fastest hair removal device. The main principle is to rely on the melanin in the hair follicles to absorb laser energy and then be destroyed to achieve the purpose of hair removal. The laser energy of DL108 does not harm the surrounding tissues, and removes excess hair almost painlessly, ultimately achieving the effect of permanent hair removal.

2.2 Equipment structure and performance

DL108 Hair removal device is mainly composed of Host, control system and treatment handle. The control system includes Emergency Stop Button, key switch, showScreenwait. The display screen is a 15.6-inch color touch screen. The treatment handle is a laser handle.

2.2.1 Structural composition

2.2.1.1 Host: It is the entire appearance and the carrier of other components.

DL108 The main components of the hair removal device are as follows:

1. Power module: provides power to the entire device.
2. Control system module: performs different tasks by accepting information input and outputs actual functions for the operator's commands.
3. Display screen module: displays system information and accepts operator's work requirements.
4. Cooling system module: water circulation +DC compressor refrigeration, lower the machine temperature and maintain a longer working time.

2.2.1.2 Control system: Mainly through the control module to complete various command operations of the equipment ,DL108 The control system mainly consists of the following components:

1. Button Switch: On/Off
2. Emergency button: shut down the machine immediately when an accident or abnormality occurs to protect the machine safety.
3. Display Screen: Enter and display system settings.

2.2.1.3treathandle:It is the subject of operation implementation.It is the main part of the equipment, including water pipes,Wires andhandHandle, etc.Water pipelineandelectric wireBoth are connected to the handle head inside the handle tube.

2.2.2 Product performance parameters

Parameter name	808 Parameters				
Machine power	MAX3000W				
Wavelength (range)	755nm, 808nm, 1064nm				
Energy Density	600W	800W	1000W	1200W	1800W
	1-62J/cm ²	1-81J/cm ²	1-75J/cm ²	1-92J/cm ²	1-156J/cm ²
Pulse Width	10-200ms				10-300ms
Light spot	13mm × 13mm/13mm × 24mm/13mm × 28mm/ φ 6				
Pulse repetition rate	1-10HZ				
Screen	15.6-inch LCD display				
Refrigeration	-25℃				
power supply	200V~260V/50~60HZ 90V~130V/50~60HZ				

2.3 Therapeutic function

DL108 Hair Removal Device is used for permanent hair removal.

Chapter 3 Installationillustrate

3.1 Installation steps

Before unpacking the machine, please make sure that the working environment meets the requirements of this device. The device should be placed in an environment without etchant gas and less dust. Etchant gas can cause serious damage to wires and electronic devices. Dust in the air can seriously damage filters and electronic components.,GiveThe temperature and humidity range of the equipment installation environment should meet the requirements.

Installation steps:

- Unpacking the device,Check that all accessories are correct.
- Please place the device12hours to avoid being damaged by high humidity during long-distance transportation.
- Assemble its components and ensure all connections are firmly in place.
- Fill the water tank with pure deionized water.
- Make sure all parts and accessories are securely and correctly connected, then turn on the device and test functions and parameters.

- If all of the above conditions are true, then a therapeutic procedure can be used.

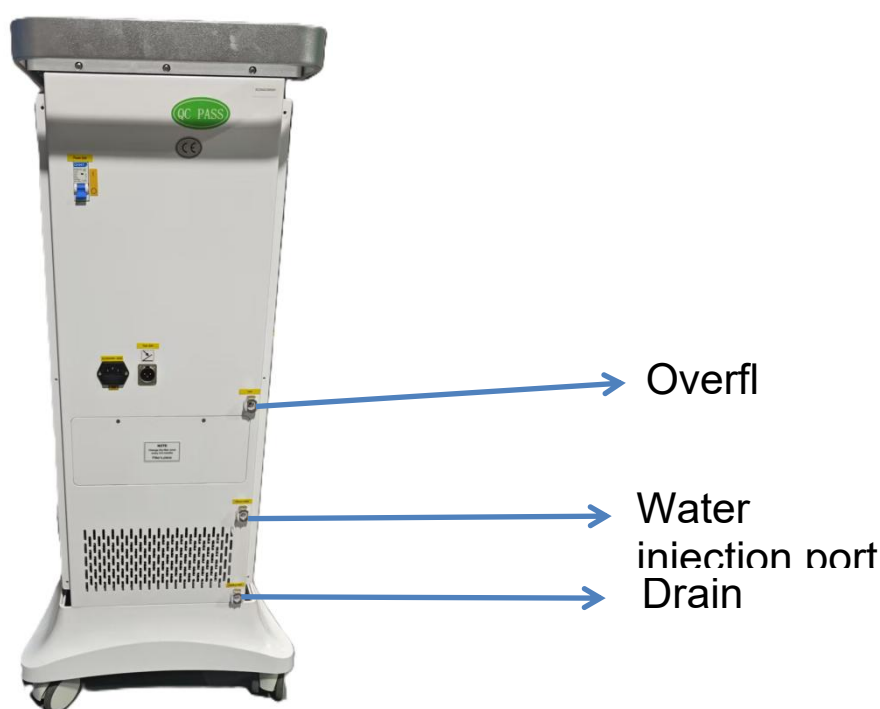
3.2 Water inlet requirements and Water Cycle

Before each operation or when turning on the machine, please fill it with deionized water to ensure that there is enough water, otherwise, please replenish deionized water.

3.2.1 Note/Row Water Description

① Water injection:

When the equipment is working, the external environment temperature should be between 15°C and 30°C; the humidity should not be higher than 80%; the treatment room should be kept clean at all times.



- Connect the white connector on the other end of the funnel to the water inlet, connect the other white connector to the overflow port, and fill the funnel with water..
- When water overflows from the overflow port, the water filling is completed.

- After the water filling is completed, the water filling funnel can be removed. Press the stainless steel button on the white connector of the water filling port to remove the water filling device from the water filling port.

Note: If it is pure deionized water, it is recommended that customers change the water once every three months. When the operator changes the water, please remove the drainmouth. Remove the cap from the machine and drain the water. Refill with new deionized water..

② Drainage

Connect the white connector on the other end of the funnel to the overflow port, connect the other white connector to the drain port, and place the drain pipe into the water container.

3.2.2 Water cycle debugging

After the equipment is filled with water, the power cord and foot cord are connected immediately. After the connection is completed, the equipment is debugged for water circulation. Before debugging the water circulation, all treatment heads should be plugged in at the plug-in head to avoid damage to the water pump during the debugging process.

The steps for water cycle operation debugging are as follows:

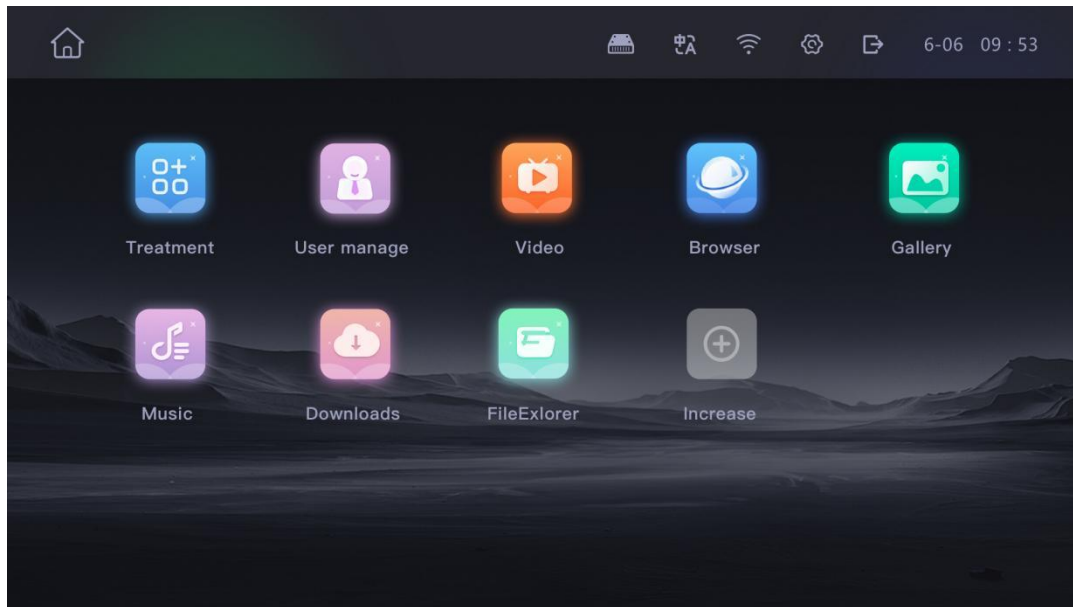
- Before starting the equipment, make sure the emergency stop switch is in the pop-up state. If the emergency stop switch is in the pressed state, click the emergency stop button to put it in the pop-up state.
- Turn the circuit breaker switch on the rear of the unit to "ON" location.
- Press the button switch and the water circulation cooling system inside the equipment will start running automatically.
- Observe whether the water circulation of the equipment is running normally.
- If there is no water leakage, water flow alarm, etc., let the device run automatically for more than one minute, and then turn off the power. Indicates good water circulation.

3.2.3 Installation of operating handle

When the customer installs the treatment handle, please place the handle lower than the main unit to allow gas to escape from the handle. After installing the handle, turn on the device for about one minute to keep the water flowing.

Chapter 4 Software Operation Instructions

4.1 Boot interface

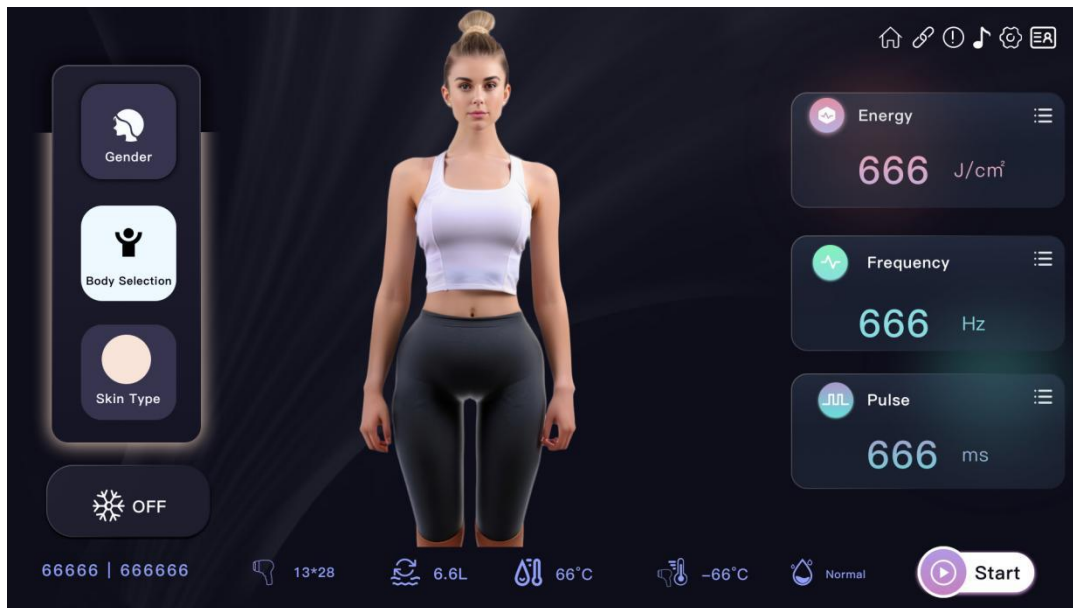


After the system starts, the display screen shows the above



startup interface. Click the startup interface icon to enter the function interface.

4.2 Functional interface



After the device enters the function interface, click , you can return to the startup interface.

4.3 Parameter selection

In the functional interface, appropriate treatment parameters can be selected according to the patient's current condition.

Gender selection: Click  You can switch genders;

Body part selection: Click  You can choose body parts, Choose according to the body part you want to treat, there are 6 options: face, armpits, legs, arms, chest and abdomen, and groin;

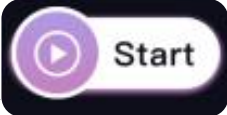
Skin color selection: Click  You can choose skin color, According to the skin color of the healer, select a skin color pattern similar to the one in the picture. There are 6 skin colors to choose from, 1-6;

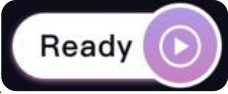
Click  The cooling position can be adjusted.  There are 5 gears to choose from;

Click  , then click on the screen  The energy can be adjusted by clicking the left or right icon or dragging the bar below. For parameter range, refer to 2.2.2 Product Performance ParametersMedium energy density;

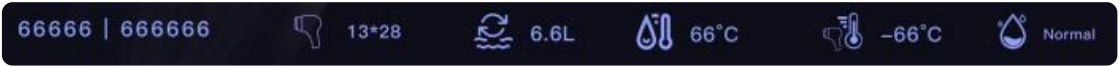
Click  , then click on the screen  Click the left or right icon in the middle, or drag the bar below to adjust the frequency.Parameter range: 1-10Hz;

choose  , click on the screen  The left and right icons,Or drag the bar below toAdjust pulse width, set range reference2.2.2 Product performance parametersThe width of the middle pulse;

Click  , the handle starts working, and the treatment can be carried out by operating the handle button;

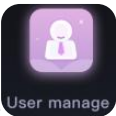
click  , the treatment can be ended.

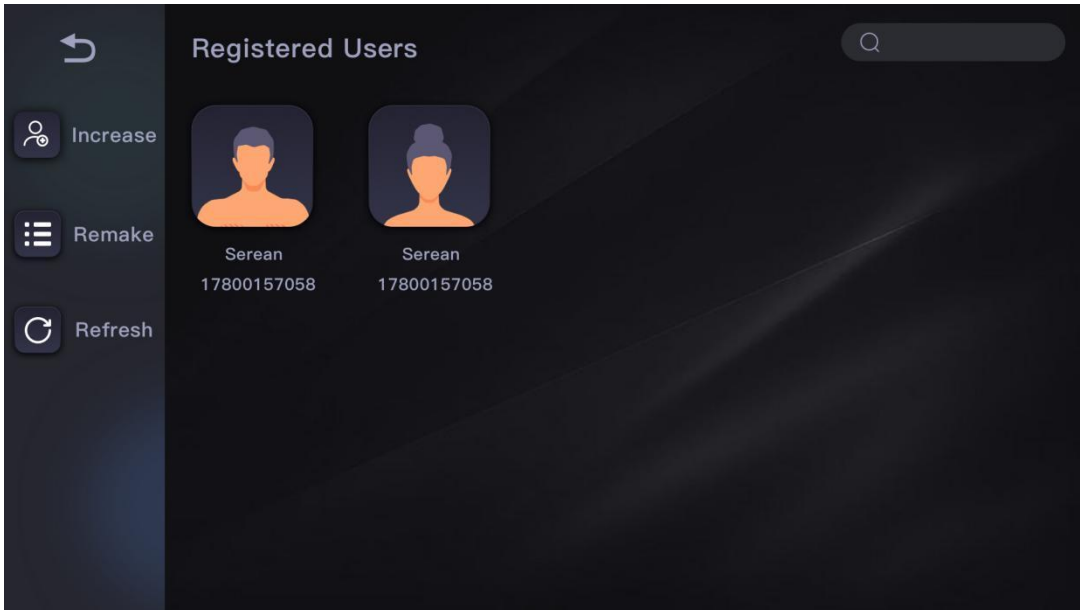
Function interface

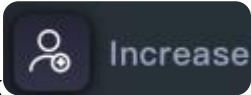


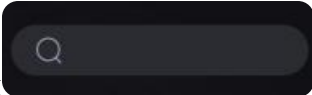
The icons are total count, current count, spot size, water flow, host water temperature, handle temperature, and water level.

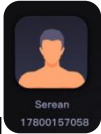
4.4 Customer Record Interface

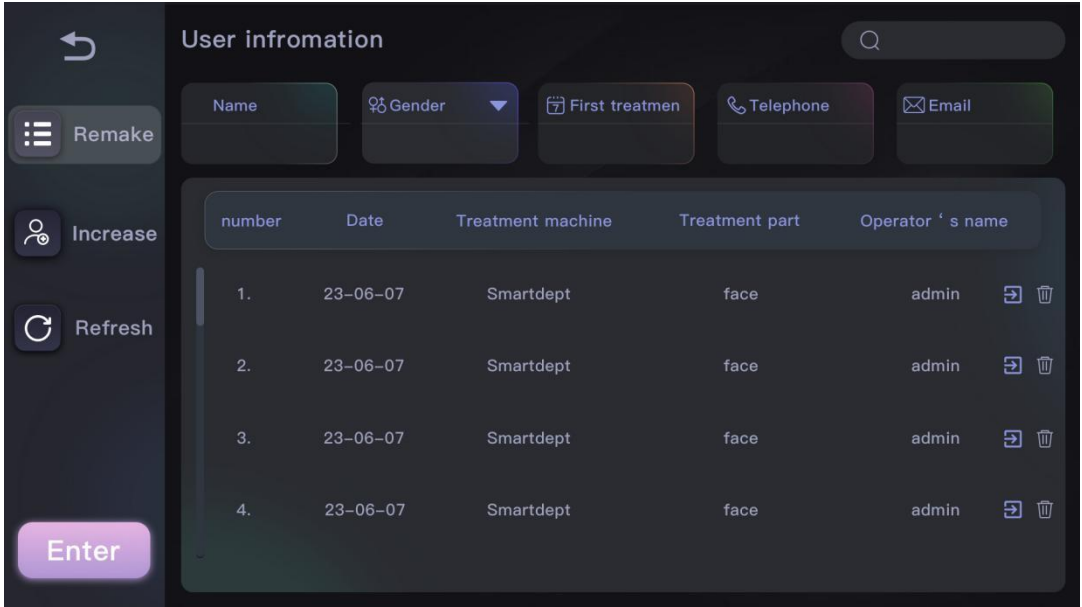
existClick on the startup interface  You can enter the member information entry interface

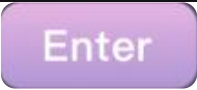


Click  To add a new member,

click  You can search member information by

clicking  Member avatars can enter the member treatment record interface



In this interface, click  You can enter the member treatment interface.

4.5 System settings interface

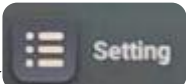
The user settings interface is for suppliers to confirm settings. Customers can view relevant data but do not have the authority to modify it.

Click on the function interface  You can enter the host information interface

Host information interface



This interface displays the host related information

Click , confirm the system settings. The password of this interface, subsequent interfaces and various parameter settings are set by the supplier to prevent customers from misoperation, and customers have no right to modify them.

Chapter 5 Equipment Maintenance Instructions

5.1 Host cleaning

Please use a soft damp cloth to clean the console to prevent liquid from entering the console.

5.2 Treat and replace handle

Clean the crystal part of the handle in time after treatment. During the treatment, some pigment particles will splash onto the crystal, which will reduce the output energy of the laser. It is recommended to use lens paper or anhydrous alcohol to clean it. Each handle has a service life. After the service life ends, it is recommended that customers replace it with a new handle. Please contact your dealer or equipment manufacturer.

5.3 System Troubleshooting

Fault phenomenon	Troubleshooting
No display on the screen	Check the wires
	Check circuit breakers, fuses
	Please check the power switch
The handle switch button does not respond, and the key does not respond	Please check whether the power switch on the back of the device is turned on. If the fault still cannot be eliminated, please contact the dealer or device manufacturer.
The system cannot be initialized	Check the power supply
Low energy output or no laser output	The voltage is too low and the handle cannot work properly
	Please check if there is any dirt on the laser reflector, if so, please clean it.
	The inside of the handle is damaged. Please replace it with a new one.
	Disassemble the treatment handle and check whether the head reflector is damaged.
	If the treatment handle is too hot, please turn off the machine and let it cool down for about 30 minutes before using it again.
	Please check the handle for leaks.
The treatment handpiece has fallen out of the handpiece holder	Please check if the handle is damaged, if so, please replace it with a new one.
Cooling system temperature is too high	Turn off the device, let it cool down for a while, then turn it on again. If the cooling system is still abnormal, contact the distributor or equipment manufacturer.
The output energy of the treatment handle is too low	Please check if there is any dirt on the crystal, if so, please clean it.
	If the handle is hot, turn off the machine for 30 minutes.
	Please check whether the crystal head is good or not and whether there is any damage. If damaged, Please contact your distributor or equipment manufacturer.
The output energy of the treatment handle is too low	The handle head has reached the end of its useful life. Please contact your distributor or equipment manufacturer.
The laser transmitter is broken	Please contact your distributor or equipment manufacturer.

Note: If the above faults cannot be eliminated, please contact your distributor or equipment manufacturer.

5.4 Alarm prompt

Warning symbols	meaning
 Notice	<i>Indicates that improper use may cause personal injury or property damage</i>
 warn	<i>Indicates that improper use may cause personal injury</i>
 Danger	<i>equipmentContains high voltage components andHigh voltage output terminal,Danger of high voltage exists.</i>

5.5 Contraindications

1. People with the following symptoms are prohibited from using 1) Those who have implanted cardiac pacemakers or pacemakers or are using electrocardiogram scanners; 2) Those who use artificial bones; 3) Silicosis patients; 4) People who are drunk or have a high fever; 5) For patients with high sensitivity such as mental illness and epilepsy; 6) Patients with severe hypertension and severe cardiovascular and cerebrovascular diseases; 7) People with metal foreign bodies in their bodies, pregnant women, cachexia patients, and patients with malignant tumors;	 Danger
2. Please use under the guidance of professionals in the following situations 1) Women who are menstruating; 2) child 3) Bleeding disorders or trauma, inflammation, skin diseases, skin infections; 4) People who feel numb and unresponsive to hot or cold 5) People with impaired immune systems, a history of scarring, or diseases	 warn

6) Areas that have undergone cosmetic surgery and have artificial fillers in the body.	
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Note: It is recommended to consult a healthcare provider to determine suitability

Chapter VI Equipment Accessories List

Parts Name	quantity	Parts Name	quantity
Glasses	1 pair	Power cord	1 root
Eye mask	1 pair	Foot switch	1
808 handle set	1 set	Funnel (with water pipe)	1