

Advance Diode Laser Hair Removal Machine

User Manual



SKIN+ACT

www.skinact.com | www.spaandequipment.com

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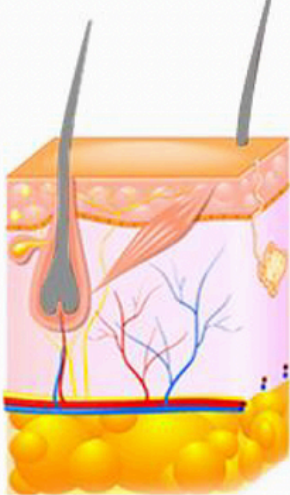

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Chapter I Basic Introduction

1. Theory

The 1200W DIODE LASER Hair Removal integrates 755nm, 808nm, 940nm and 1064nm systems into one device.

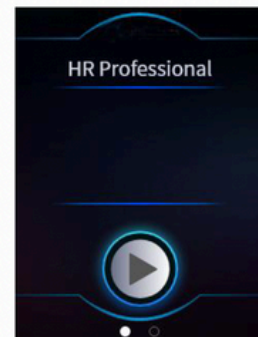
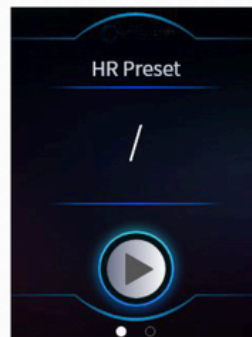
1200W DIODE LASER: Its technology is based on the selective absorption of light and heat. The laser goes through the epidermis layer to reach the root of hair follicles. Laser can be absorbed and converted into heat to destroy the hair follicle and the surrounding oxygen tissue; Meanwhile, the particular super cooling system can create certain anesthetic effects, to protect the epidermis layer from being burned by laser energy, which ensures a safe and effective treatment.

Step 1: 1200W powerful diode laser energy targets to pigment of hair follicle	Step 2: Hair follicle is damaged under the diode laser energy	Step 3: The hair follicle is completely damaged, and the hair stops growing. Then the hair falls out
		

At the same time, **1200W DIODE LASER** heats hair follicles to 48°C under lower energy density mode, hair follicle cells will loss activity after continuous gliding of the handle, so as to get the effect of permanent hair removal, fast, effective, safe and painless.

Advantage

- ❖ Fast hair removal of all skin types (I, II, III, IV, V, VI) and hair colors.
- ❖ High output power 1200W with sufficient and stable energy.
- ❖ Equipped with special skin cooling plate.
- ❖ Best-quality laser bars imported from “USA-COHERENT”. Long service life.
- ❖ Larger spot size. Higher laser power.
- ❖ Upgraded treatment handle with 5 removable treatment heads to meet the needs of different parts of the body.
- ❖ Smart handpiece touch screen, easy to operate.



- ❖ Italy imported high-pressure water pump, maintains efficient water circulation and extend equipment service life.
- ❖ Double filters to keep water quality.
- ❖ Dual-channel cooling systems: TEC/Semiconductor + Sapphire contact cooling, bring a painless and comfortable treatment experience.
- ❖ Easier and faster cartridge replacement without disassembling the machine + observable water level window.



Technical Specification

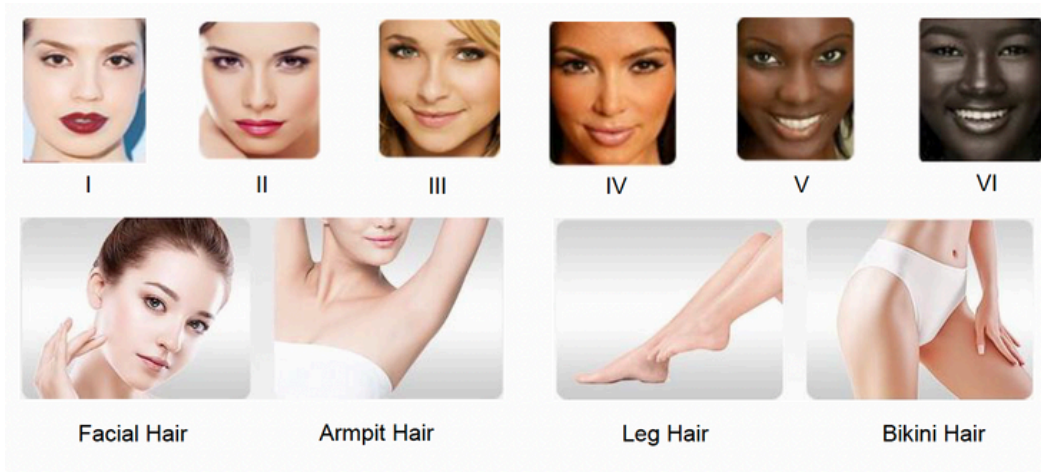
Wavelength	755nm, 808nm, 940nm, 1064nm
Laser Power	1200W
Spot Size	5mm*5mm, Φ8mm, 10mm*10mm, 12mm*20mm, 20mm*40mm
Pulse Width	10ms ~ 200ms
Frequency	1HZ ~ 10HZ
Fluence	0 ~ 120J/cm ²
Laser Intensity	10% ~ 100%
Contact Temperature	-5°C ~ 5°C
Cooling System	Air + Water + TEC / Semiconductor + Sapphire
Screen	15.6" color touch display
Voltage	AC 220V/50Hz, 110V/60Hz

Chapter II: Clinical Application

Chapter II: Clinical Application

1. Application

- Suitable for permanent hair removal across all hair colors and Fitzpatrick skin types (I–VI).
- Applicable for various body areas, including lip hair, beard, chest hair, armpit hair, back hair, arm hair, leg hair, and unwanted hair outside the bikini line.



Note:

- A 20mm × 40mm treatment head is recommended for larger areas such as the legs, abdomen, or back.
- A 12mm × 20mm treatment head is recommended for the face, arms, or armpits.
- A 10mm × 10mm treatment head is ideal for the hairline or lips.
- A Ø8mm treatment head is recommended for nasal hair removal.
- A 5mm × 5mm treatment head is suitable for excess hair between the lips, eyebrows, or along the hairline.

2. Contraindications

- Patients with inherited or abnormally high levels of triglycerides.
- Patients with serious infectious conditions such as tuberculosis, heart disease, fever, liver disorders, hypertension, or decompensated diabetes.
- Individuals with metal implants, allergies, or women who are pregnant or menstruating should not undergo laser hair removal.
- Avoid treatment in sensitive areas such as the ears, auditory canals, brain region, or central breast area.
- Not suitable for areas affected by varicose veins, active acne, open wounds, or skin that is infected or traumatized.

3. Recommended Parameter

Spot Size	Skin Type	Treatment Area	Frequency (hz)	Pulse Width (ms)	Laser Intensity (%)	Session (time)	Interval (week)
Φ8	I	Nose	1-2	40-60	100	5-6	4-6
	II		1-2	40-60	100	5-6	4-6
	III		1-2	40-60	90	5-6	4-6
	IV		1-2	40-60	80	5-6	4-6
	V		1	40-60	70	5-6	4-6
	VI		1	40-60	60	5-6	4-6
5*5mm	I	Lip area	1-2	40-60	70-100	5-6	4-6
	II		1-2	40-60	60-100	5-6	4-6
	III		1-2	30-50	60-100	5-6	4-6
	IV		1-2	25-40	60-100	5-6	4-6
	V		1-2	15-30	50-80	5-6	4-6
	VI		1-2	15-25	50-80	5-6	4-6
10*10mm	I	Face	1-2	70-100	100	6-10	4-6
		Armpit	2-3	60-90	100	6-8	4-6
		Private part	1-2	70-100	100	6-8	4-6
	II	Face	1-2	60-100	100	6-10	4-6
		Armpit	2-3	60-90	100	6-8	4-6
		Private part	1-2	60-100	100	6-8	4-6
	III	Face	1-2	50-100	80-100	6-8	4-6
		Armpit	2-3	60-90	80-100	4-6	4-6
		Private part	1-2	50-80	80-100	4-6	4-6
	IV	Face	1-2	40-70	70-90	6-8	4-6
		Armpit	1-2	40-70	70-90	4-6	4-6
		Private part	1-2	40-70	70-90	4-6	4-6
	V	Face	1	40-60	60-80	4-6	4-6
		Armpit	1-2	40-60	60-80	4-5	4-6
		Private part	1	40-60	60-80	4-6	4-6
	VI	Face	1	40-60	50-70	4-6	4-6
		Armpit	1	40-60	50-70	4-5	4-6
		Private part	1	40-60	50-70	4-6	4-6
12*20mm	I	Face	1-2	70-100	100	6-10	4-6
		Arm	3-4	40-60	100	6-8	4-6
		Armpit	2-3	40-70	100	6-8	4-6
		Private part	1-2	70-100	100	6-10	4-6
	II	Face	1-2	60-100	80-100	6-8	4-6
		Arm	3-4	40-60	80-100	6-8	4-6
		Armpit	2-3	40-70	80-100	6-8	4-6
		Private part	1-2	60-100	80-100	4-6	4-6
	III	Face	1-2	50-100	80-100	4-6	4-6
Arm		3-4	30-65	80-100	6-8	4-6	
Armpit		2-3	30-55	80-100	4-6	4-6	

Spot Size	Skin Type	Treatment Area	Frequency (hz)	Pulse Width (ms)	Laser Intensity (%)	Session (time)	Interval (week)	
	IV	Private part	1-2	50-80	80-100	4-6	4-6	
		Face	1-2	50-80	70-90	4-6	4-6	
		Arm	3-4	30-50	70-90	4-5	4-6	
		Armpit	1-2	25-50	70-90	4-6	4-6	
	V	Private part	1-2	40-70	70-90	4-6	4-6	
		Face	1-2	30-45	60-80	4-5	4-6	
		Arm	1-2	30-45	60-80	4-6	4-6	
		Armpit	1-2	40-60	60-80	4-6	4-6	
	VI	Private part	1	30-50	60-80	4-6	4-6	
		Face	1	10-35	60-70	4-6	4-6	
		Arm	1-2	15-30	60-70	4-6	4-6	
		Armpit	1	30-50	60-70	4-6	4-6	
	20*40mm	I	Private part	1	25-40	60-70	4-6	4-6
			Face	1	10-35	60-70	4-6	4-6
			Arm	1-2	15-30	60-70	4-6	4-6
			Armpit	1	30-50	60-70	4-6	4-6
Private part			1	25-40	60-70	4-6	4-6	
II		Arm	3-4	50-60	100	6-8	4-6	
		Armpit	2-3	60-100	100	6-8	4-6	
		Back	3-5	40-60	100	6-8	4-6	
		Abdomen	3-5	40-60	100	6-8	4-6	
		Leg	3-5	40-60	100	6-8	4-6	
III		Arm	3-4	40-60	100	5-7	4-6	
		Armpit	2-3	40-60	100	5-7	4-6	
		Back	3-5	40-60	100	5-7	4-6	
		Abdomen	3-5	40-60	100	5-7	4-6	
		Leg	3-5	40-60	100	5-7	4-6	
IV		Arm	3-4	30-55	80-100	4-6	4-6	
		Armpit	2-3	45-55	80-100	4-6	4-6	
		Back	3-5	40-60	80-100	4-6	4-6	
		Abdomen	3-5	40-60	80-100	4-6	4-6	
		Leg	3-5	40-60	80-100	4-6	4-6	
V	Arm	3-4	40-60	70-90	4-6	4-6		
	Armpit	2-3	40-55	70-90	4-6	4-6		
	Back	3-5	35-55	70-90	4-6	4-6		
	Abdomen	3-5	25-50	70-90	4-6	4-6		
	Leg	3-5	25-45	70-90	4-6	4-6		
VI	Arm	1-2	20-45	60-80	4-6	4-6		
	Armpit	1-2	20-35	60-80	4-6	4-6		
	Back	2-3	30-45	60-80	4-6	4-6		
	Abdomen	2-3	30-45	60-80	4-6	4-6		
	Leg	2-3	25-45	60-80	4-6	4-6		
VI	Arm	1-2	20-45	50-70	4-6	4-6		
	Armpit	1-2	20-35	50-70	4-6	4-6		
	Back	2-3	30-45	50-70	4-6	4-6		
	Abdomen	1-2	30-45	50-70	4-6	4-6		
	Leg	1-2	25-45	50-70	4-6	4-6		

Chapter III Installation Instruction

Accessory

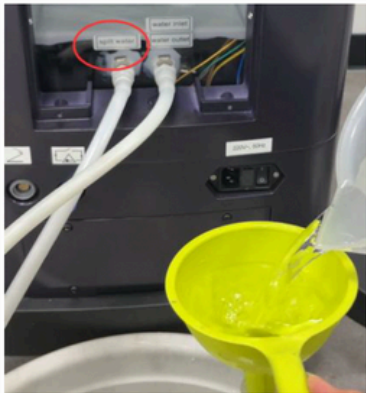
Picture	Description	Quantity
	Diode Handle	1
	Diode Handle Supports	1
	Removable Heads	5
	Filter (Spare part)	1
	Protective Glasses	1
	Protective Goggles	1
	Power Cord	1
	Chain Safeguard	1
	Foot Pedal	1
	Water Funnel, Tube and Connectors	1, 1, 2
	Keys	2

Installation Step

A. Water Injection

- Unscrew the 4 screws and remove the cover plate to reveal the tank fill/drain area.
- Connect the 2 connectors + tube to the reserved “WATER OUTLET” and “SPILT WATER” ports respectively.
- Inject some purified water (Drinkable water) and don't stop injecting until there is water flowing out from “SPILT WATER” port (Visual water level from the window).
- Unplug the 2 connectors + tube and screw on the cover plate.

Note: Change water every 1~2 months. Empty the water tank when the machine is not used for a long time.



Water level
visualization window

Installation Step

B. Handle Support Installation

Insert the Diode Handle and supports into the bases on side of the machine and fasten it with the screws.



C. Handle Installation

Put the Diode Handle on the corresponding handle support, insert another end of the handles into the preset slots on the back of the machine, and then fix it by turning its rotary buttons clockwise.



D. Chain Safeguard Installation

Insert the chain safeguard directly into the reserved **blue** port on the back of the machine.



E. Foot Pedal Installation

Insert one end of the foot pedal into the gray port (next to the blue port) on the back of the machine.



F. Power Cord Installation

- Insert one end of the power cord into the **black** port on the back of the machine and another end into power strip.
- Switch power button from “O” to “I” position.



G. Treatment Head Installation

Directly approach the treatment head to the handle and install it magnetically.



Chapter IV: Clinical Operation

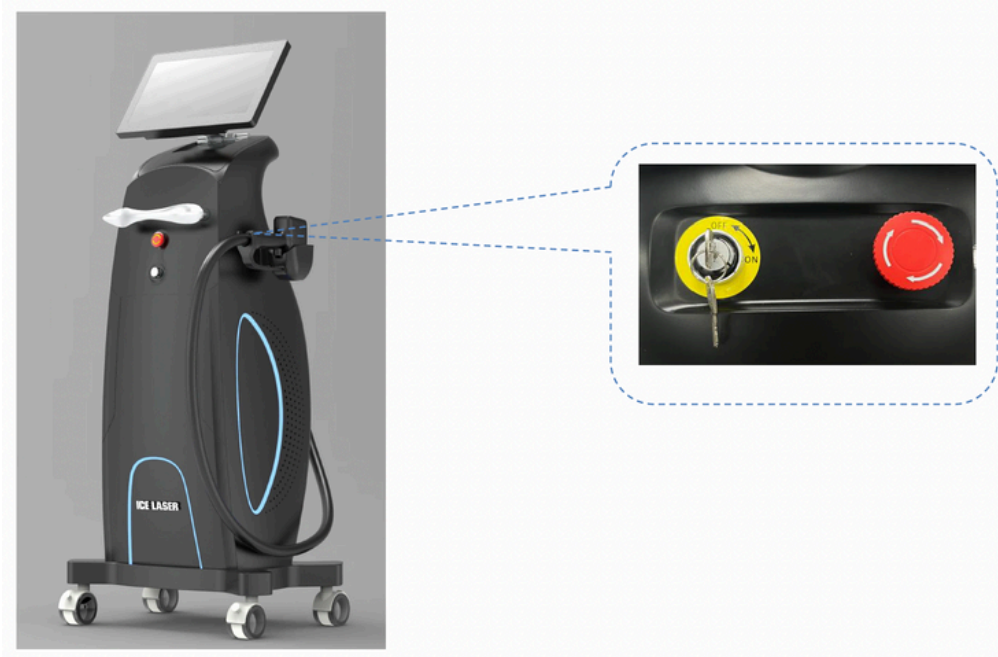
1. Before Operation

- Carefully read the user manual before using the machine.
- Confirm with the patient whether any of the previously listed contraindications apply.
- It is recommended to operate the machine in a dedicated room and display a warning sign at the entrance.
- Ensure the handle and power cable are securely connected to the machine.
- Patients should avoid wearing makeup on the day of treatment. If makeup is present, remove it to keep the treatment area clean.
- Disinfect the treatment probe and any additional therapeutic attachments.
- Shave and clean the treatment areas thoroughly.
- Prepare all necessary items in advance for the procedure.

2. During Operation

A. Starting the Machine

- Rotate the red emergency stop button clockwise until it pops up, indicating that the machine is unlocked.
- Note: If the emergency button is pressed down, the power will shut off immediately. Ensure the button is released before attempting to start the machine.
- Turn the key switch from “OFF” to “ON” by rotating it clockwise. The machine will power on and begin operating.



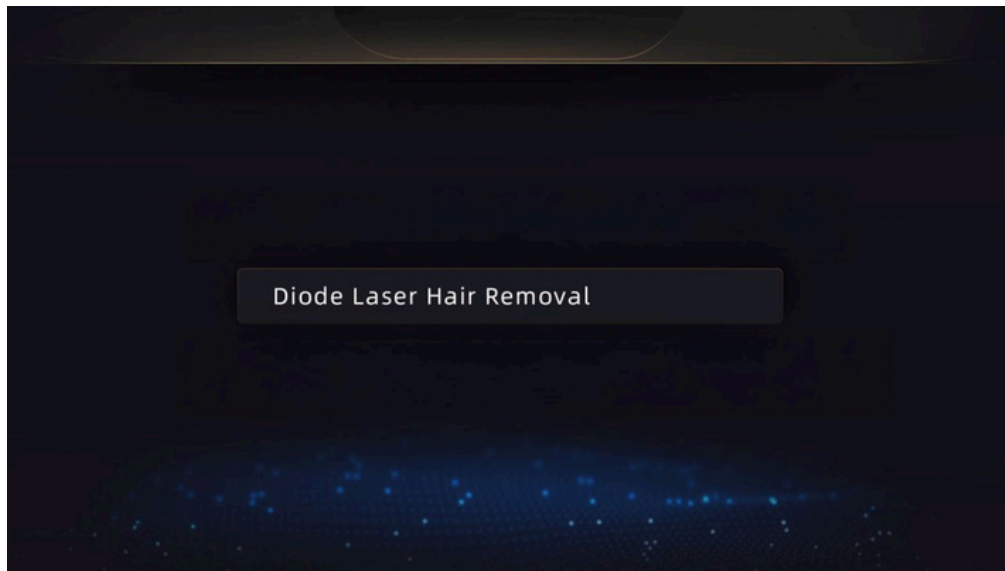
B. Verifying Water Flow

- To ensure proper water circulation, turn the machine on and off in two-minute intervals. Repeat this cycle as needed.

Chapter IV: Clinical Operation

Repeat this cycle for 3 times to normalize the inside water circulation, and then add some water again to make sure enough water in the water tank.

C. After turning on the machine, you will see the interface as shown below, “Diode Laser Hair Removal.”




D. Click “ON” or “OFF” button on the interface to turn on or off the cooling plate.

E. Click the “DIODE LASER HAIR REMOVAL” to enter into the responding interface, “HR Preset” and “HR Professional” modes optional.

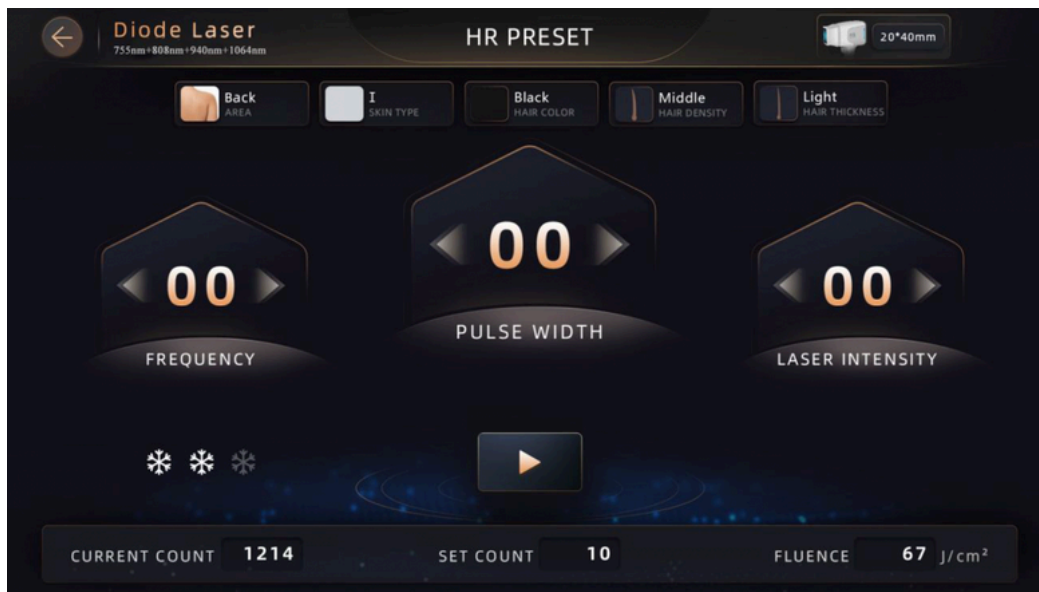


Click “HR Preset” to enter the following screen.



- Click on the desired body area to select from: Face, Arm, Armpit, Back, Abdomen, Bikini, or Leg.
- Choose Skin Type: Select from I, II, III, IV, V, VI.
- Choose Hair Color: Select from Black, Brown, Red, Blond, or Grey.
- Choose Hair Density: Select from Thin, Middle, or Thick.
- Choose Hair Thickness: Select from Light, Middle, or Bold.
- Click the  button to enter the parameter setting interface.


Note: Make selections based on the actual treatment needs of the patient.



- HR Preset Mode offers a simple, beginner-friendly setup.
- After selecting the treatment head (same method as HR Professional mode), the screen will display: Area, Skin Type, Hair Color, Hair Density, and Hair Thickness.
- Once confirmed, three default parameters will appear:
 - Frequency (Hz)
 - Pulse Width (ms)
 - Laser Intensity (%).

- Alternatively, you may manually adjust the parameters at the top of the interface by selecting the corresponding sub-options in sequence. Default values will update automatically based on your selections.
- Click the snowflake ❄️ ❄️ ❄️ to adjust the cooling level (1 to 3). More snowflakes indicate a stronger cooling effect.
- **To access the parameter setting interface directly, click the “HR Professional” button.**



- HR Professional Mode is intended for experienced operators, as all parameters must be manually configured.
- Three key settings require adjustment based on the patient’s tolerance and treatment goals:
- Frequency: Adjustable from 1 to 10 Hz
- Pulse Width: Adjustable from 10 to 200 ms
- Laser Intensity: Adjustable from 10% to 100%
- Clicking the treatment head button  opens the head selection screen. Choose from five available sizes: 5mm × 5mm, Φ8mm, 10mm × 10mm, 12mm × 20mm, or 20mm × 40mm, and attach the selected head to the handle.



- Click on the snowflake ❄️❄️❄️ to adjust coolness (1~3 levels) from small to large.
- Click the (◀️ or ▶️) buttons on the home screen or the (“-” or “+”) on the handpiece screen to decrease or increase values respectively according to the actual treatment needs of the patient (Please refer to the recommended parameters in the previous part).

Note: “Fluence” (j/cm²) is energy density, which is affected by frequency, pulse width and laser intensity. Any one changes, it will change automatically.



F. The operator and patient put on protective goggles to protect their eyes from the laser.

G. Clean the pre-shaved treatment area, where **no stubble is allowed**.

H. Apply cooling gel and then spread evenly with a spatula.




I. Click on the ready button ▶️ (on the home screen) or (on the handpiece) and **the treatment head starts to cool**. Test the treatment head in the palm of your hand to see if it has been cooled (Too high or too low a temperature can cause burns or frostbite on the skin). Then depress the foot pedal or snap the mechanical switch on the handpiece continuously for laser output spectrum operation, easier and quicker.



J. Make the treatment head contact tightly and vertically with the skin, and slide the handle at a constant speed back and forth (*Do not remain in the treatment area to avoid thermal damage*).



K. During the treatment, there will be heat and a little pain (bearable). So constantly communicating with the patient to adjust the energy in time to make the treatment more safe and effective. To pause treatment, release the footswitch or the handle mechanical button. In the paused state to end treatment, click the  button and return the machine to STANDBY state.

L. After treatment, wipe off the cold gel and clean the skin. If the patient needs a cold compress, turn on the Cooling Plate to cool the treatment area until the discomfort disappears.

M. Finally turn off the Cooling Plate, then the machine. Clean and remove the treatment head, and place it in the storage box.

Note:

During the treatment, the treatment head should be perpendicular to the skin, not tilted, otherwise the optical spectrum will act on the superficial layers of the skin, which can result in less effective treatment and the patient will also feel the pain!

Any sudden situations, please press the Emergency Button to stop working.

3. After Operation

The laser penetrates into deep skin and then delivery the energy into hair follicle to destroy it directly, preventing hair from growing back.

Most people see a significant reduction in hair after eight treatment sessions. Expect to achieve 75%~85% hair removal.

After a day or two, the skin of the treated area may looks and feels as if sunburned, so you might need to use cool compresses or a gentle moisturizer. If your face doesn't feel irritated, you're safe to wear makeup the next day.

Take these tips for a smoother recovery:

- Avoid sun exposure. Any time you anticipate being out in the sun, apply sunscreen with a SPF 30+.
- Avoid removing hair through threading, waxing, and tweezing during laser sessions. If you've decided not to continue with the laser hair removal for the time being, you can go ahead and use any method to remove hair in the interim.
- For the first few days, avoid perfumes, deodorant (if you've lasered your underarms), and hot showers or saunas. Take a cool shower instead.
- It's common to experience some swelling, itching, and redness after laser hair removal due to irritation of the hair follicles. You may try taking an antihistamine and applying hydrocortisone a few times a day to relieve redness and itching.
- Wait for 24 hours after laser hair removal in the bikini area for the swelling to go down before you have sex.



Chapter V Maintenance & Repair

Always switch off the machine and disconnect the electrical power cord from the AC supply before performing any of the cleaning or maintenance procedures described below.

1. Cleaning and Disinfecting

- Accessories can be sterilized with 75% alcohol, UV radiation, etc.
- The equipment itself can be cleaned daily with a soft cloth.

2. Other Parts Maintenance

- The machine should be stored in a dry and ventilated place to keep it hygienic. When cleaning the surface of the machine, you can not use skimmed cotton or soft cloth with a large amount of liquid, so as to avoid liquid leakage into the machine and cause internal circuit failure.
- Handle and removal heads: Thoroughly inspect and clean the treatment head crystals when not in use for an extended period of time before and after storage (Deposits on the laser handle crystal can interfere with energy delivery and affect treatment results).
- Foot switch: Pay attention to dust prevention to avoid poor contact. Do not step on it too hard to avoid damage. Do not immerse it in water. Avoid frequent plugging and unplugging of the foot switch and power cord to avoid poor contact or damage.
- For other questions, please contact the manufacturer.

3. Maintenance & Repair

Please refer to the Maintenance Manual for details.

VI Other Information

1. Precaution

- Put the machine on the flat and stable surface.
- Check the main machine, accessory and the power cable are intact well before use.
- The machine is fragile. Do not drop it.
- Clean the machine with a wet cloth but make sure no liquid penetrates.
- Do not operate the machine with wet hands.
- Do not bend or turn the power cable and the wires.
- Before you clean or transport the machine, make sure that it is switched off and the power cable is unplugged.
- Put the equipment in a ventilated area. Do not cover the fan or the machine nor put any objects on it.
- Do not use the machine in the toilet or near a microwave or oven.
- Make sure that the power cable is not worn or broken before you plug it.
- The operator must be trained to be familiar with the structure and performance of the equipment and master how to operate the system.
- Users under 18 years old are not allowed to use the machine.
- The machine cannot be used on animals.
- Do not use the machine for other purposes than those described in this manual.
- The operating temperature should be in good control.
- The treatment button should always be pressed by hand.
- When there is an error, the system will show a message to the operator, no operation is allowed in this case.
- The continuous working time of this machine is up to 12 hours per day.
- Turn off the power after the operation. When not in use, be sure to unplug the power cable from the power outlet.
- Please take good care of the machine. The power cable and accessories should be carefully inspected before operation. If there are any traces of damage, stop using them and replace them with new ones.

2. Warranty

All products are strictly tested before delivery. Free repair warranty from date of purchase, during which the maintenance for any breakdown due to non-artificial factors will be performed free of charge. Accessories are not included in the warranty, so please contact us if needed. The standard of the operation process and the environment should be in accordance with all the instructions above.

Malfunctions caused by the following factors (but not limited to) are out of the warranty:

- Malfunctions caused by artificial factors like improper movement, collision, etc.
- Malfunctions caused by uncontrollable natural force.
- Abuse operation that is against the manual, like connecting wrong VAC input or using the machine for other purposes.
- Energy diminishing caused by wet environment or dust.

3. Troubleshooting

Problem	Possible Cause	Solution
The machine won't start	<ol style="list-style-type: none">1. It is not plugged correctly2. The power cable is not well connected3. The power button is off4. The fuse is damaged5. The electrical circuit is damaged6. The power cable is broken	<ol style="list-style-type: none">1. Check the plug2. Check the power cable3. Press the power button4. Change the fuse5. Contact the technical service6. Change the cable/Contact the technical service
The buttons don't work	Defective buttons or damaged circuit	Contact the technical service
The machine won't start or dissipate heat	<ol style="list-style-type: none">1. Defective connections2. Defective handle cable or badly connected handle3. Breakdown of electrical circuit	<ol style="list-style-type: none">1. Check the connection2. Connect the cable correctly3. Contact the technical service
The machine works, but the effectiveness has diminished	<ol style="list-style-type: none">1. Bad connection of handle2. Piezoelectric transducer damaged3. Mechanical damages in handle or machine	<ol style="list-style-type: none">1. Connect the handle correctly2. /3. Contact the technical service