3 Wavelength Diode Laser Hair Removal Machine



User Manual

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Chapter One - Introduction

I. Theory

During a laser hair removal treatment, light passes through the skin and is absorbed by the melanin in the hair shaft. This absorption raises the temperature of the hair follicle and thermally destroys the cells responsible for regrowth without negatively affecting the surrounding skin tissue.

II. Application

Suitable for fast, safe, painless and permanent hair removal on all 6 skin types in any area including face, arms, armpits, chest, back, bikini, and legs.

III. Contraindications

1. Cancer, especially skin cancer
2. Pregnancy
3. Current use photosensitive drugs and medicine
4. Know irritation from 808 nm wavelength light source
5. Artificial sun exposure from tanning bed for up to 3-4 weeks prior to treatment
6. Active herpes simplex infections
7. Hair growth on Scars
8. Diabetes as (rely on insulin injections)
    - They will feel more pain due to sensitive nerves & tissue.
    - They will be easier to burn and blister due to damage nerve endings.
    - They are more susceptible to infections due to the slower healing response.
    - The hair removal is less effective since lower blood flow to the surface of the skin may require lower settings on the laser.
9. Dry and sensitive skin
10. Endocrine disorders (light will produce stimulation)
11. Use of anti-clotting agent
12. Epilepsy
13. A history of blood clotting

IV. Features

1. The 808nm diode laser hair removal system uses the most advanced technology in laser hair removal that penetrates better, has better performance and clinical results, safely.
2. High energy: excellent treatment result can be expected at the first treatment for all types of hair.
3. Long laser width: Effective for the hair follicles produce heat accumulation, Permanent hair removal.
4. Safety: Will not burn or scar skin
5. The powerful Sapphire touch cooling system cools the skin so the whole process is painless.
6. Quick: This new technology is 5 times faster than the original hair removal lasers.
7. The best thermostatic water cycle system guarantees semiconductor pump won't overheat.

V. Product Specifications

Model	Soprano ice laser
Display system	15 inch Color microcomputer touch screen
Laser Type	High power 3 waves Diode laser
Wavelength	755nm+808nm+1064nm
Frequency	1-10hz
Pulse Duration	5~300ms adjustable
Energy	1-280J adjustable
Treatment area size	14*14mm2 ,12*20mm2,12*35 mm2 or 15*27mm2 optional
Cooling system	Sapphire cooling style+air+semi-conductor+smart TEC
Crystal temperature	-30~5° C
Power requirement	AC 110V/220 50~60Hz

Chapter Two - Safety Regulations

I. Safety introduction

This diode laser System is a safe and reliable high-tech device. Trained and qualified personnel can use this machine safely following proper operational and maintenance procedures. Operators should fully understand the safety information in this chapter. Built in safety precautions:
1) The Automatic Inspection system is initiated after turning on the machine, and continuously monitors the electric circuits during operation.
2) This device has ground fault safety circuits, power will be shut off automatically in case of electric short.
3)The red emergency button can be used to cut off the power supply immediately if an emergency happens.
4)Switch keys can prevent others from turning on the machine without permission.

II. Electrical and mechanical safety

a. Do not open the case of the machine, residual shock can happen even when unplugged.
b. Only authorized service professionals should work on the machine.
c. During maintenance, please unplug the power, do not open the cover of the machine.
d. The device can be moved slowly with care.
e. The machine must be plugged in using standard three-wire power cords with grounding for safe operation.

【PREVENT FIRE】
a. Do not use ethanol, acetone or other flammable things on skin before treatment. If necessary, please use soap and water.
b. After sanitizing the treatment head or other parts with ethanol, please allow to dry prior to operation.

【AUTOMATICAL INSPECTION】
After turning on the machine, the system will do an automatic inspection on electric circuit. About 1-3 minutes later it will begin running automatically, then it enters into treatment interface.

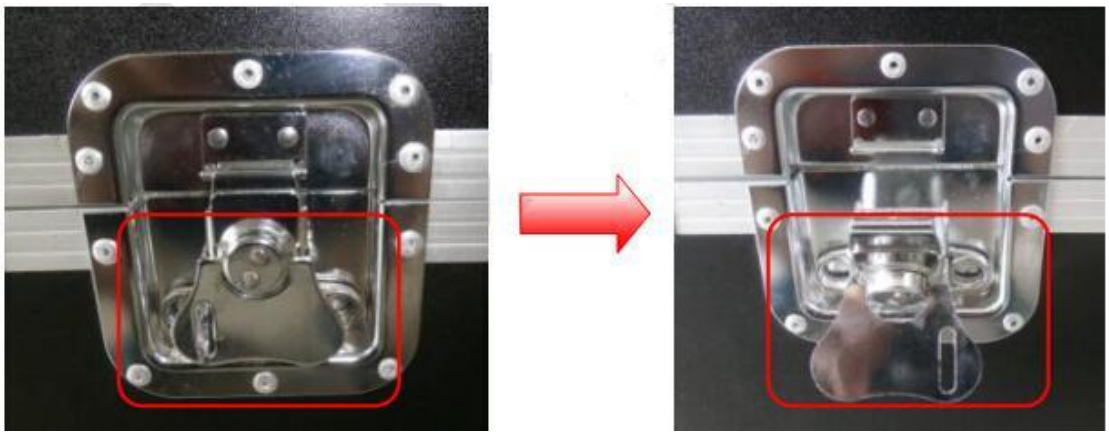
Chapter Three - Installation

I. Shipping Box

The machine is package as in the shipping case pictured below. If any damage happened during transportation, please contact us or carrier immediately!



How to open the box?



Picture One **Picture Two**

a. Lift up the spanner and turn it right as in picture 1 above to the position shown in Picture 2.

b. Flip the lever, then the box can be opened.

II. Accessories

NO.	Name	QTY.	Picture
1	Laser Hand Piece	2 PC	
2	Water Filter	4+2 PCS	
3	Power cord	1 PC	
4	U disk	1 PC	
5	Start-up key	2 PC	
6	Goggle	1 PC	
7	Protective glasses	1 PC	
8	Funnel	1 Set	
9	Screws	6 PC	
10	Foot pedal	1 PC	

Notice: Please confirm that the accessories are in your package, if any accessories were lost in transportation, please contact us immediately.

III. Main Machine

① 15 TFT Color Touch Screen

② Emergency Button

③ On/OFF Keys

④ Laser Hand connector

⑤ Laser Hand Piece

⑥ Laser Hand Piece Holder

Side view



Back View



① The radiator fan Air Switch

② TEC cooling system

③ The power cord jack

④ Water inlet

⑤ Water window

⑥ Water outlet

IV. Installation

Installation of this device should be performed by a professional technical person who has been trained by the equipment manufacturer.

CAUTION

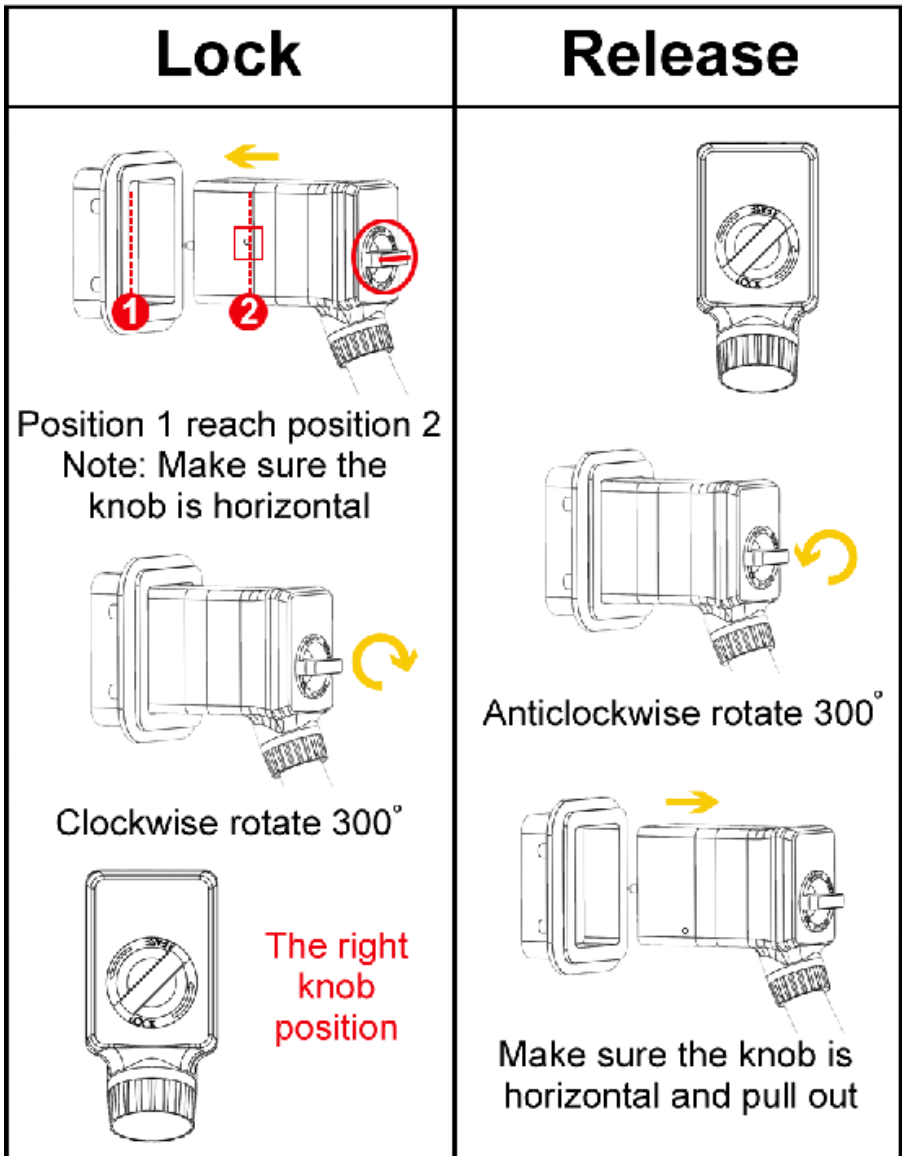
Assure that the machine is installed on a level surface Install the product on a level area

Water Source: Please use only pure water or distilled water
(CAUTION: please change water each month.

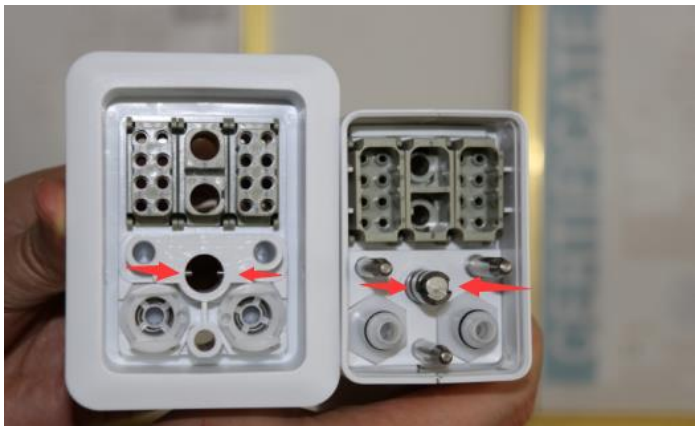
Notice:

Please read this carefully before operating the machine.

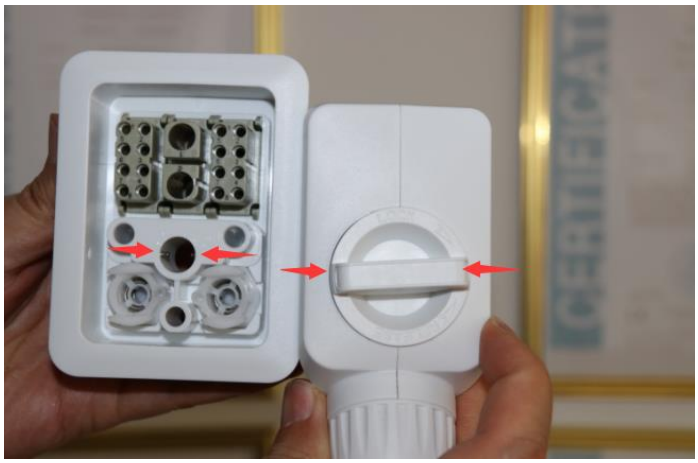
Please plug in the hand piece tightly, otherwise, the water hose may break and cause a short circuit.



Warning: Must insert the handpiece or remove the handpiece according to follow steps to avoid breaking the connector .



Please check the structure of inside of handpiece connector , those parts should be connected correctly .



So the button of connector should in a parallel position when you are going to insert the handpiece .



Then turn the button with clockwise direction until it is stable as the button position in above picture



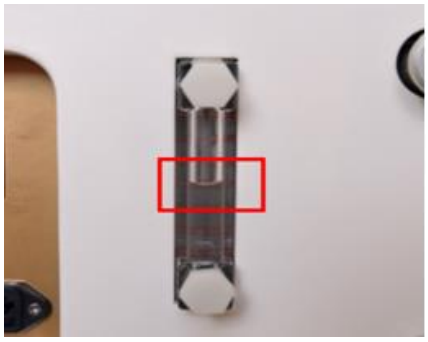
When you want to remove the handpeice , turn the button according to anticlockwise direction . Finally you can pull it out smoothly .

When you add water, please remove the Water Inlet is ok . When you want to let water out , should remove Water Inlet and Water Outlet at same time .



When you receive the new machine, please add water and operate it for 5 minutes, then change the water. In future, please change the PP cotton filter every 6 months and resin filter ever year. Change the water in the machine monthly.

Make sure you use distilled water or deionized water. After each fill turn on the machine and recheck the water level.

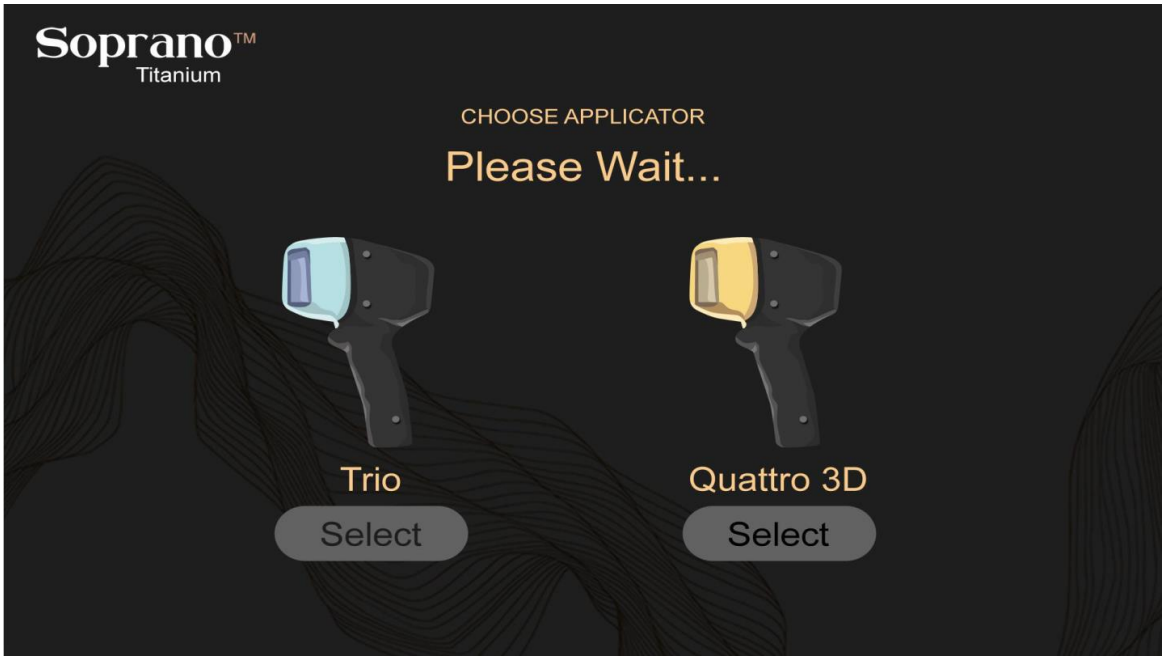


Please wait for at least one minute before you turn on the machine again, because the power supply has continuous restart protection.

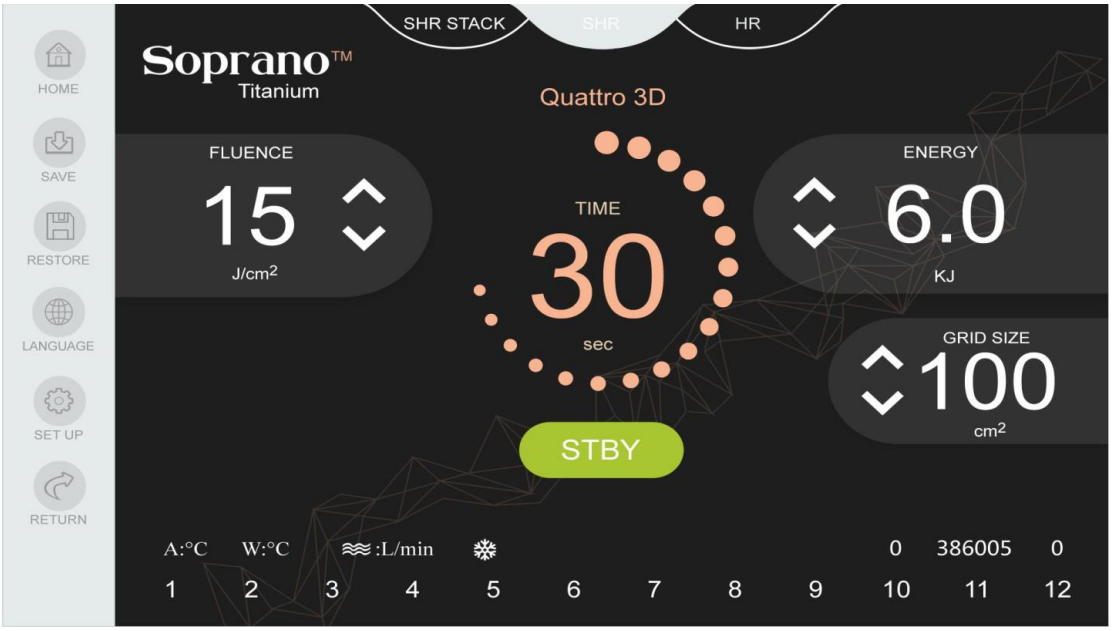
Chapter Four - Operation Instruction

II. Main Interface Touch logo on welcome interface, go to below interface



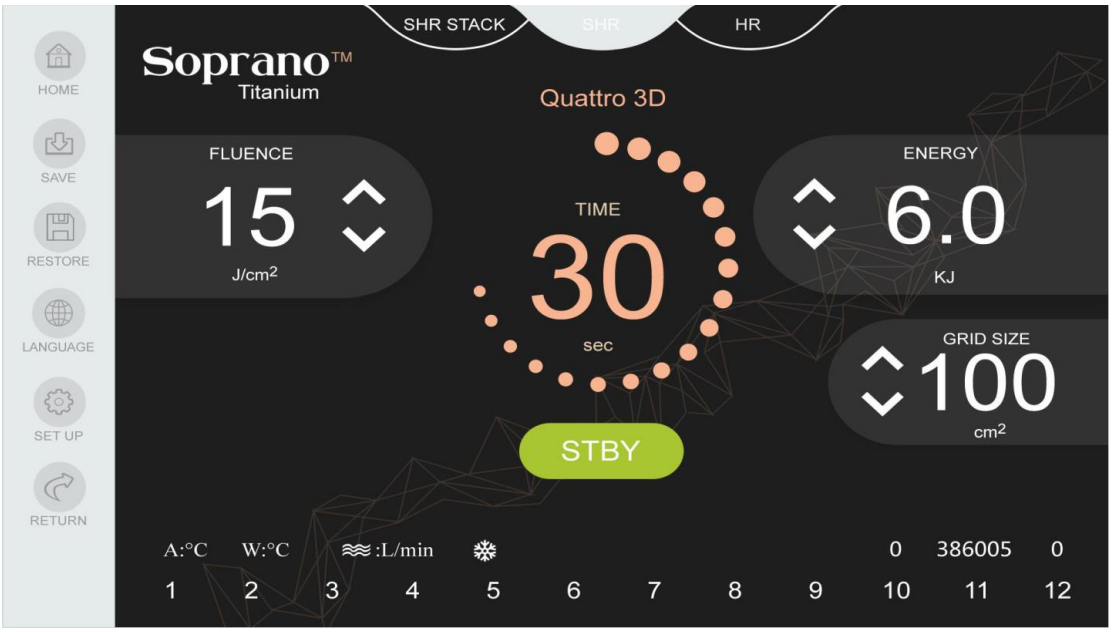


Touch the spot size of the handle, will go to the treatment interface.

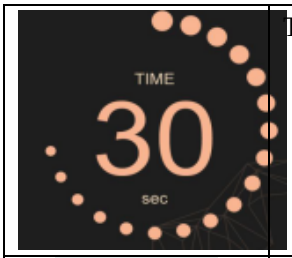
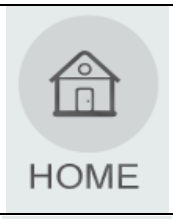
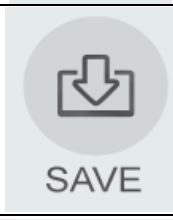


III. Treatment Interface

1) .SHR interface: When you select the different body parts and skin types, system will recommend the treatment parameters automatically . You can adjust them by yourself

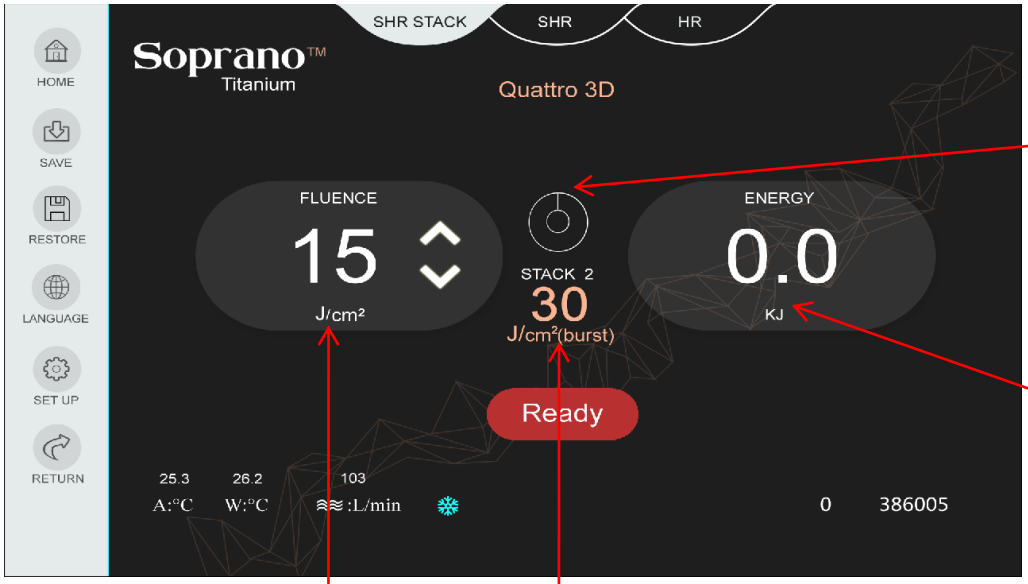


	SHR stack,SHR,HR three kinds different mode ,select your
	Fluence, touch , then you can increase the fluence, touch  you can decrease the fluence.suggesion:from 10-20J/cm2
	When the treatment area and fluence insure, the system automatic calculation treatment total energy and treatment time.
	Treatment area, you can adjust acording actual area

	Treatment need time,count down.
	Touch it, you will back to the main interface
	This button is used to save the parameters which you have set in the software.
	Touch it, the treatment parameter will be our factory set one.
	Adjust your languages, there's all the languages,according your need
	Syste setup ,user don't adjust.
	Reture to previous interface
	This is ready button. Press this Ready button, it will become 
	This is Standby button. Press this STBY button, it will become 

0 386005	This is the shots record for all shots and one treatment shots.
	Cooling grade: two grade, full blue color is the max cooling energy.
A:°C W:°C :L/min	Temperature and water flow

2) SHR stack mode interface:



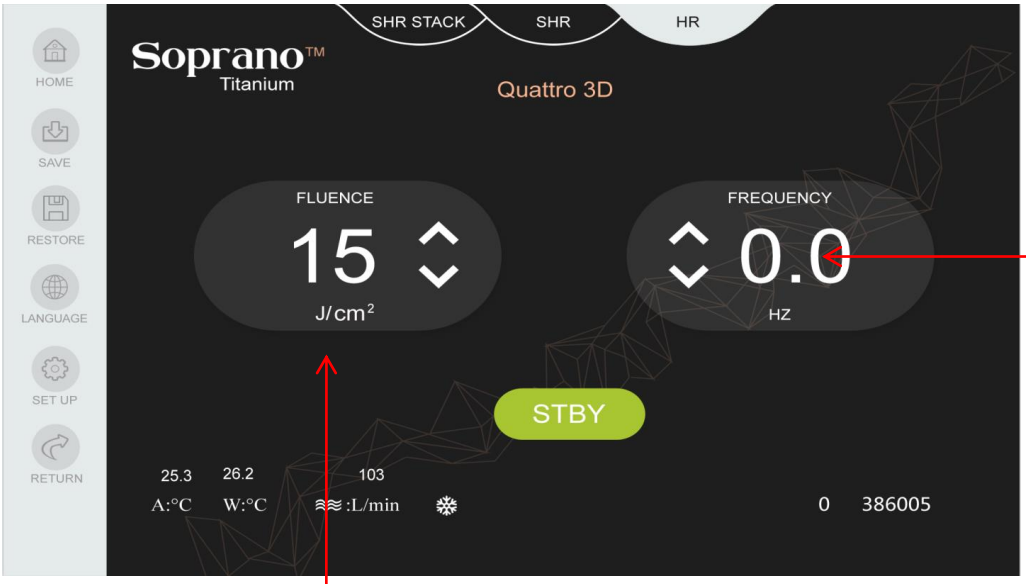
Stacks numbers (frequency)

Output total energy

Fluence per pulse

Total energy one second

3).HR mode interface:



Output Frequency

Fluence per second

Chapter Five - Clinical Application

Preparation

Keep ignitable and explosive liquid and gas, including alcohol, nitrous oxide and oxygen, away from the radiation of the light.

Ornaments that reflect light, such as Jewelry, should always be taken off by the patient and operator.

1. The patient should be provided with adequate protection for the eyes, such ad protective eyewear.
2. Always place the hand piece back in its cradle after use.
3. It is recommended that a warning sign be placed at the entrance to the treatment room whenever the system is in use.
4. Initial treatments should be use the lowest energy setting to ascertain the reaction to the skin using the Fitzpatrick Scale as a guide.

I. Treatment procedure

Preparation Instructions

In order to provide you with the best possible service we ask that you carefully Review these Pre- and Post-Treatment instructions.

1. Please follow all guidelines in the Laser Hair Removal consent form. Discuss your medical history (medications, allergies, Fitzpatrick skin typing and any tendency for scarring or poor healing) with your laser technician.

2. Do not use any medications that cause photosensitivity for at least 6 weeks prior to laser treatments. If you are taking a prescription medication that causes photosensitivity, please contact your prescribing physician to discuss your options.
3. Avoid sun tanning or sunless tanning products for as long as possible before laser treatments (4 to 6 weeks is recommended).
4. Avoid depilatory (hair removal) creams, plucking, waxing or electrolysis for at least 6 weeks before laser treatments.
5. Do not use Accutane (or products containing isotretinoin) for at least 6 months prior to laser treatments.
6. Do not use Retin-A (or products containing tretinoin) for at least 2 weeks prior to laser treatments.
7. The treatment area must be free of any open sores, lesions, or skin Infections.

Patient Preparation On the day of your appointment
1. Shave the area to be treated. If the hair in the treatment area is very sparse, please let us trim the area at the time of your treatment as this allows us to better define the treatment area.
2. Gently wash the area to be treated and do not apply creams, lotions or other products to the area except a topical anesthetic (if being used).
3. If you have elected to use a topical anesthetic, do so only after reviewing all cautions associated with its use. Apply and use as directed prior to arrival.
4. Dress so that you may modestly expose the treatment area.
5. If you choose to, you may take over the counter anti-inflammatory medication such as ibuprofen before arrival.
6. Please arrive 15 minutes early for your first appointment and 10 minutes early for subsequent appointments. This will allow time for necessary paperwork and keep you on schedule, please be on time for your appointments.

II. Treatment parameter

Attention: This protocol is just a reference for different skin type. No matter which skin operates must try from lower energy to higher energy to try. Forbidden use Max energy to try for patient!!

Suggest use the SHR mode for new operator . Because that is a smart mode can recommend you suitable treatment parameters after you select treatment area , skin type etc .

HR mode treatment parameter for reference : You can slide the handle on the skin about 4-5 times with 3Hz in same treatment area . So you can use it treat large body area if you are professional operator .

755/808/1064 Diode laser treatment parameters

MAN	I	II	III	IV	V	VI
Face	Fluence 15 HZ: 1	Fluence 14 HZ: 1	Fluence 14 HZ: 1	Fluence 13 HZ: 1	Fluence 13 HZ: 1	Fluence 13 HZ: 1
Armpit	Fluence 15 HZ: 1	Fluence 14 HZ: 1	Fluence 14 HZ: 1	Fluence 13 HZ: 1	Fluence 13 HZ: 1	Fluence 13 HZ: 1
Hairline	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 11 HZ: 1
Bikini	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 11 HZ: 1	Fluence 11 HZ: 1
Thigh	Fluence 14 HZ: 1	Fluence 14 HZ: 1	Fluence 14 HZ: 1	Fluence 13 HZ: 1	Fluence 13 HZ: 1	Fluence 12 HZ: 1
Leg	Fluence 14 HZ: 1	Fluence 13 HZ: 1	Fluence 13 HZ: 1	Fluence 11 HZ: 1	Fluence 11 HZ: 1	Fluence 14 HZ: 1

FEMALE	I	II	III	IV	V	VI
Face	Fluence 14 HZ: 1	Fluence 14 HZ: 1	Fluence 12 HZ: 1	Fluence 11 HZ: 1	Fluence 10 HZ: 1	Fluence 10 HZ: 1
Armpit	Fluence 14 HZ: 1	Fluence 14 HZ: 1	Fluence 14 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1
Hairline	Fluence 11 HZ: 1	Fluence 11 HZ: 1	Fluence 11 HZ: 1	Fluence 10 HZ: 1	Fluence 10 HZ: 1	Fluence 10 HZ: 1
Bikini	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 11 HZ: 1	Fluence 10 HZ: 1	Fluence 10 HZ: 1
Thigh	Fluence 14 HZ: 1	Fluence 14 HZ: 1	Fluence 13 HZ: 1	Fluence 12 HZ: 1	Fluence 11 HZ: 1	Fluence 11 HZ: 1
Leg	Fluence 14 HZ: 1	Fluence 13 HZ: 1	Fluence 12 HZ: 1	Fluence 12 HZ: 1	Fluence 11 HZ: 1	Fluence 11 HZ: 1

MAN	I	II	III	IV	V	VI
Face	Fluence 28 HZ: 2	Fluence 26 HZ: 2	Fluence 26 HZ: 2	Fluence 25 HZ: 2	Fluence 25 HZ: 2	Fluence 25 HZ: 2
Armpit	Fluence 29 HZ: 2	Fluence 28 HZ: 2	Fluence 28 HZ: 2	Fluence 27 HZ: 2	Fluence 27 HZ: 2	Fluence 25 HZ: 2
Hairline	Fluence 25 HZ: 2	Fluence 24 HZ: 2	Fluence 23 HZ: 2	Fluence 22 HZ: 2	Fluence 22 HZ: 2	Fluence 21 HZ: 2
Bikini	Fluence 24 HZ: 2	Fluence 23 HZ: 2	Fluence 22 HZ: 2	Fluence 22 HZ: 2	Fluence 21 HZ: 2	Fluence 21 HZ: 2
Thigh	Fluence 29 HZ: 2	Fluence 29 HZ: 2	Fluence 28 HZ: 2	Fluence 27 HZ: 2	Fluence 27 HZ: 2	Fluence 25 HZ: 2
Leg	Fluence 28 HZ: 2	Fluence 27 HZ: 2	Fluence 27 HZ: 2	Fluence 22 HZ: 2	Fluence 22 HZ: 2	Fluence 28 HZ: 2

FEMALE	I	II	III	IV	V	VI
Face	Fluence 29 HZ: 2	Fluence 28 HZ: 2	Fluence 26 HZ: 2	Fluence 22 HZ: 2	Fluence 21 HZ: 2	Fluence 21 HZ: 2
Armpit	Fluence 29 HZ: 2	Fluence 29 HZ: 2	Fluence 28 HZ: 2	Fluence 25 HZ: 2	Fluence 25 HZ: 2	Fluence 25 HZ: 2
Hairline	Fluence 22 HZ: 2	Fluence 21 HZ: 2	Fluence 21 HZ: 2	Fluence 21 HZ: 2	Fluence 21 HZ: 2	Fluence 21 HZ: 2
Bikini	Fluence 25 HZ: 2	Fluence 24 HZ: 2	Fluence 23 HZ: 2	Fluence 21 HZ: 2	Fluence 21 HZ: 2	Fluence 21 HZ: 2
Thigh	Fluence 29 HZ: 2	Fluence 28 HZ: 2	Fluence 27 HZ: 2	Fluence 23 HZ: 2	Fluence 22 HZ: 2	Fluence 21 HZ: 2
Leg	Fluence 28 HZ: 2	Fluence 27 HZ: 2	Fluence 26 HZ: 2	Fluence 25 HZ: 2	Fluence 22 HZ: 2	Fluence 22 HZ: 2

MAN	I	II	III	IV	V	VI
Face	Fluence 42 HZ: 3	Fluence 38 HZ: 3	Fluence 38 HZ: 3	Fluence 37 HZ: 3	Fluence 37 HZ: 3	Fluence 37 HZ: 3
Armpit	Fluence 43 HZ: 3	Fluence 42 HZ: 3	Fluence 42 HZ: 3	Fluence 41 HZ: 3	Fluence 41 HZ: 3	Fluence 37 HZ: 3
Hairline	Fluence 37 HZ: 3	Fluence 32 HZ: 3	Fluence 35 HZ: 3	Fluence 33 HZ: 3	Fluence 33 HZ: 3	Fluence 31 HZ: 3
Bikini	Fluence 32 HZ: 3	Fluence 35 HZ: 3	Fluence 33 HZ: 3	Fluence 33 HZ: 3	Fluence 32 HZ: 3	Fluence 32 HZ: 3
Thigh	Fluence 43 HZ: 3	Fluence 43 HZ: 3	Fluence 42 HZ: 3	Fluence 41 HZ: 3	Fluence 41 HZ: 3	Fluence 37 HZ: 3
Leg	Fluence 42 HZ: 3	Fluence 41 HZ: 3	Fluence 41 HZ: 3	Fluence 33 HZ: 3	Fluence 33 HZ: 3	Fluence 42 HZ: 3

FEMALE	I	II	III	IV	V	VI
Face	Fluence 43 HZ: 3	Fluence 42 HZ: 3	Fluence 38 HZ: 3	Fluence 33 HZ: 3	Fluence 31 HZ: 3	Fluence 31 HZ: 3
Armpit	Fluence 43 HZ: 3	Fluence 43 HZ: 3	Fluence 42 HZ: 3	Fluence 37 HZ: 3	Fluence 37 HZ: 3	Fluence 37 HZ: 3
Hairline	Fluence 33 HZ: 3	Fluence 32 HZ: 3	Fluence 32 HZ: 3	Fluence 31 HZ: 3	Fluence 31 HZ: 3	Fluence 31 HZ: 3
Bikini	Fluence 37 HZ: 3	Fluence 36 HZ: 3	Fluence 35 HZ: 3	Fluence 32 HZ: 3	Fluence 31 HZ: 3	Fluence 31 HZ: 3
Thigh	Fluence 43 HZ: 3	Fluence 42 HZ: 3	Fluence 41 HZ: 3	Fluence 35 HZ: 3	Fluence 33 HZ: 3	Fluence 32 HZ: 3
Leg	Fluence 42 HZ: 3	Fluence 41 HZ: 3	Fluence 38 HZ: 3	Fluence 37 HZ: 3	Fluence 33 HZ: 3	Fluence 33 HZ: 3

MAN	I	II	III	IV	V	VI
Face	Fluence 56 HZ: 4	Fluence 51 HZ: 4	Fluence 51 HZ: 4	Fluence 50 HZ: 4	Fluence 50 HZ: 4	Fluence 50 HZ: 4
Armpit	Fluence 58 HZ: 4	Fluence 56 HZ: 4	Fluence 56 HZ: 4	Fluence 55 HZ: 4	Fluence 55 HZ: 4	Fluence 50 HZ: 4
Hairline	Fluence 50 HZ: 4	Fluence 48 HZ: 4	Fluence 46 HZ: 4	Fluence 45 HZ: 4	Fluence 45 HZ: 4	Fluence 41 HZ: 4
Bikini	Fluence 48 HZ: 4	Fluence 46 HZ: 4	Fluence 45 HZ: 4	Fluence 45 HZ: 4	Fluence 43 HZ: 4	Fluence 45 HZ: 4
Thigh	Fluence 58 HZ: 4	Fluence 58 HZ: 4	Fluence 56 HZ: 4	Fluence 55 HZ: 4	Fluence 55 HZ: 4	Fluence 50 HZ: 4
Leg	Fluence 56 HZ: 4	Fluence 55 HZ: 4	Fluence 55 HZ: 4	Fluence 45 HZ: 4	Fluence 45 HZ: 4	Fluence 56 HZ: 4

FEMALE	I	II	III	IV	V	VI
Face	Fluence 58 HZ: 4	Fluence 56 HZ: 4	Fluence 51 HZ: 4	Fluence 45 HZ: 4	Fluence 41 HZ: 4	Fluence 41 HZ: 4
Armpit	Fluence 58 HZ: 4	Fluence 58 HZ: 4	Fluence 56 HZ: 4	Fluence 50 HZ: 4	Fluence 50 HZ: 4	Fluence 50 HZ: 4
Hairline	Fluence 45 HZ: 4	Fluence 43 HZ: 4	Fluence 43 HZ: 4	Fluence 41 HZ: 4	Fluence 41 HZ: 4	Fluence 41 HZ: 4
Bikini	Fluence 50 HZ: 4	Fluence 48 HZ: 4	Fluence 46 HZ: 4	Fluence 43 HZ: 4	Fluence 41 HZ: 4	Fluence 41 HZ: 4
Thigh	Fluence 58 HZ: 4	Fluence 56 HZ: 4	Fluence 55 HZ: 4	Fluence 46 HZ: 4	Fluence 45 HZ: 4	Fluence 43 HZ: 4
Leg	Fluence 56 HZ: 4	Fluence 55 HZ: 4	Fluence 51 HZ: 4	Fluence 50 HZ: 4	Fluence 45 HZ: 4	Fluence 45 HZ: 4

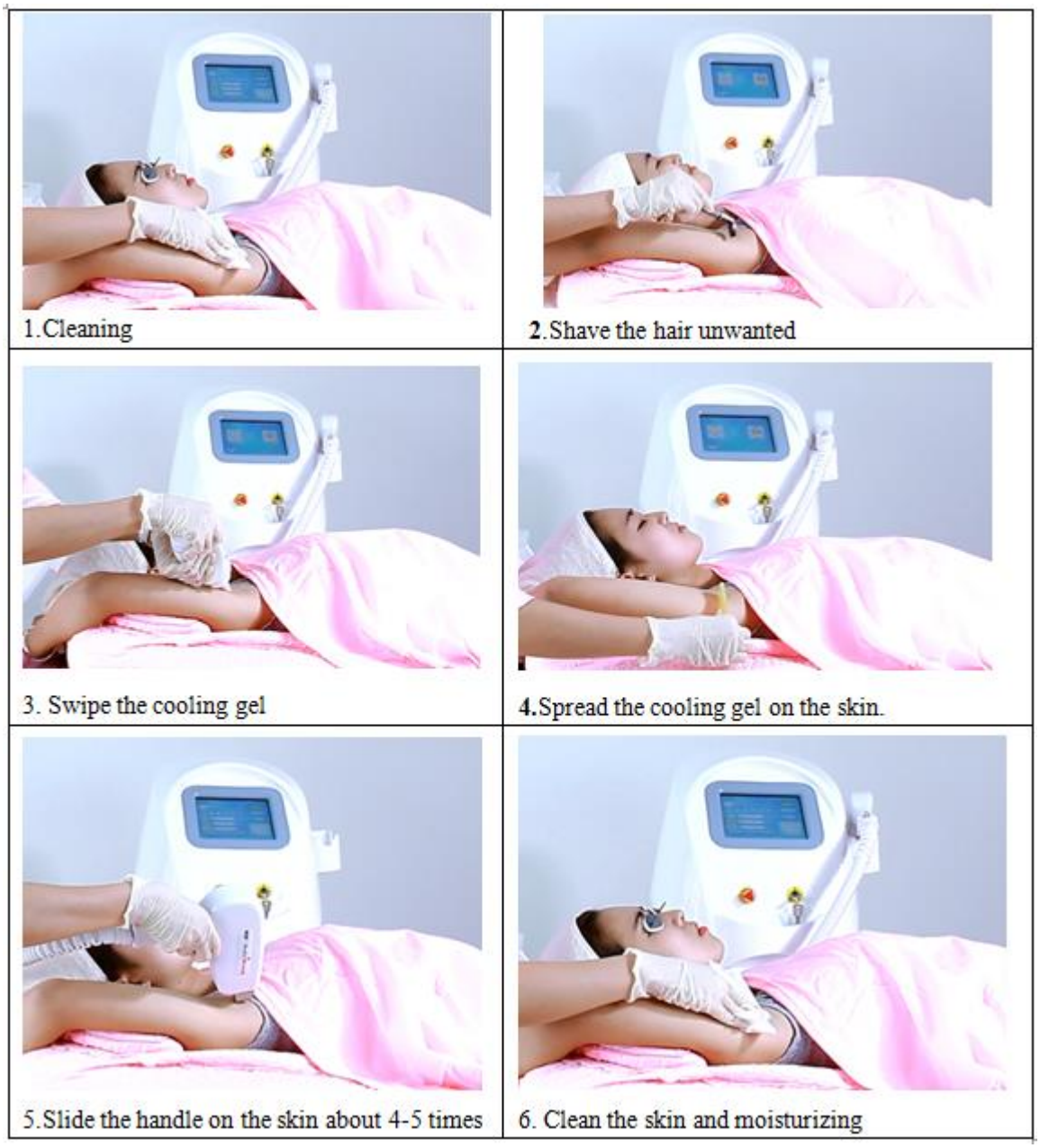
MAN	I	II	III	IV	V	VI
Face	Fluence 53 HZ: 5	Fluence 64 HZ: 5	Fluence 64 HZ: 5	Fluence 50 HZ: 5	Fluence 47 HZ: 5	Fluence 50 HZ: 5
Armpit	Fluence 53 HZ: 5	Fluence 53 HZ: 5	Fluence 53 HZ: 5	Fluence 68 HZ: 5	Fluence 68 HZ: 5	Fluence 50 HZ: 5
Hairline	Fluence 50 HZ: 5	Fluence 60 HZ: 5	Fluence 58 HZ: 5	Fluence 47 HZ: 5	Fluence 47 HZ: 5	Fluence 45 HZ: 5
Bikini	Fluence 60 HZ: 5	Fluence 58 HZ: 5	Fluence 47 HZ: 5	Fluence 47 HZ: 5	Fluence 46 HZ: 5	Fluence 46 HZ: 5
Thigh	Fluence 54 HZ: 5	Fluence 54 HZ: 5	Fluence 53 HZ: 5	Fluence 68 HZ: 5	Fluence 68 HZ: 5	Fluence 50 HZ: 5
Leg	Fluence 53 HZ: 5	Fluence 68 HZ: 5	Fluence 68 HZ: 5	Fluence 47 HZ: 5	Fluence 58 HZ: 5	Fluence 53 HZ: 5

FEMALE	I	II	III	IV	V	VI
Face	Fluence 54 HZ: 5	Fluence 53 HZ: 5	Fluence 64 HZ: 5	Fluence 47 HZ: 5	Fluence 45 HZ: 5	Fluence 45 HZ: 5
Armpit	Fluence 54 HZ: 5	Fluence 54 HZ: 5	Fluence 53 HZ: 5	Fluence 50 HZ: 5	Fluence 50 HZ: 5	Fluence 50 HZ: 5
Hairline	Fluence 47 HZ: 5	Fluence 46 HZ: 5	Fluence 46 HZ: 5	Fluence 45 HZ: 5	Fluence 45 HZ: 5	Fluence 45 HZ: 5
Bikini	Fluence 50 HZ: 5	Fluence 60 HZ: 5	Fluence 58 HZ: 5	Fluence 46 HZ: 5	Fluence 45 HZ: 5	Fluence 45 HZ: 5
Thigh	Fluence 54 HZ: 5	Fluence 53 HZ: 5	Fluence 68 HZ: 5	Fluence 58 HZ: 5	Fluence 47 HZ: 5	Fluence 46 HZ: 5
Leg	Fluence 53 HZ: 5	Fluence 68 HZ: 5	Fluence 64 HZ: 5	Fluence 50 HZ: 5	Fluence 47 HZ: 5	Fluence 47 HZ: 5

HR stack mode treatment mode :

It is a updated program to make the software operating much easier . But according to clinical experience in diode laser beauty equipment filed . The fluence between 10J/cm2 to 20J/cm2 is effective treatment parameters to get great treatment result . It suitable for small area treatment .

Treatment methods



Post-Treatment Instructions

1. You may have a mild sunburn sensation following treatment, this is usually gone within a few hours. Skin redness, mild bruising and/or slight edema (swelling) are normal and may last a few days. You may

Take over-the-counter anti-inflammatory medication (such as ibuprofen) as desired. Avoid sun exposure. If sun exposure is unavoidable, you should use sunblock (SPF 30 or greater) for 4 to 6 weeks following your treatment.

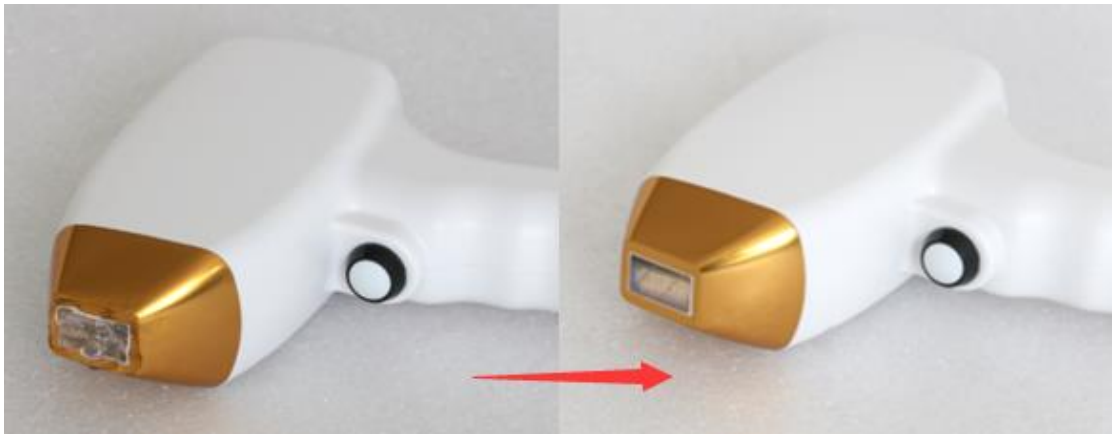
2. Keep the treated area clean and dry for the next several days, gently wash twice daily. The pores will be open and you should not apply heavy creams or lotions as these may plug the pores and cause

Complications.

3. An over-the-counter ointment healing may also be used if blisters develop. Ice packs or cool compresses are especially useful for the first few days. Avoid heat and do not use warm compresses. The treatment area may be left open and uncovered with no bandage or special dressing needed. Loose and comfortable clothing is recommended.

4. Do not scrub or exfoliate the treatment area for 7 days. Do not use chemicals or medications (other than those referred to in these Instructions) on the treated area for one week.

Please remember to clean hand piece after treatment.



Chapter Six Simple Maintenance and Repair

I. Normal problems and failures

SYMPTOMS	POSSIBLE CAUSES	ACTIONS
After the main power is on, the indication on the screen does not light	The supply voltage is short	Check the required supply voltage is 230V AC or not
	The power plug has not been properly plugged	Tighten the plug
	The emergency switch is pressed	Turn the red emergency button clockwise release Emergency button
There is no light output, but the system seems running normally	Working button on hand piece is not pressed or broken	Change button
	Power board problem	Repair power board for change it
	Adjust the energy to zero	Adjust the energy to suitable parameter
Screen show "No water"	Screen flash "No water" and makes Alarm sound	Check hand piece connection plug water tube is folded or not

II. Daily maintenance and repair

1. Change the Distilled Water or Pure water every two or three weeks
2. Change the Water Filter every month
3. Sweep this machine surface once a week with the soft wet cloth. Neutral detergents can be used but be careful and do not let the liquid infiltrate into the machine.
4. The light lead crystal should be clean at any times. It should be wiped each time after treatment. When wiping the light lead crystal, wipe with the wet soft cloth first time, use another piece of soft cloth with absolute alcohol to clean, then dry in the air.
5. Each Diode laser treatment head has a specific service life. Please contact the dealer when replacing a new treatment head at the appointed time.
6. This section enumerates some malfunction phenomenon and solutions.

Malfunction phenomenon	Solutions
Has no display	Check power cable
	Check the urgent switch, press bottom and loosen it clockwise.
	Check the air switch, if it jumps down, push it up. If it jumps down again, please contact the manufacture
While touching the key, the system has no reaction	Please contact the manufacture
The system won't start	Key switch is not turned to the appropriate position, turn it clockwise.
System can't initialize	Please contact the manufacture
Malfunction of diode laser treat head	The Laser transmitter has reached to its end of life, please change the diode laser treat head or Laser transmitter The diode laser head is probably damaged, please change diode laser head or contact the manufacture
The diode laser head is leaking	The diode laser head is probably damaged, please change the diode laser treatment head or contact the manufacture
The cooling system temperature is high	Close the system, lower the temperature, Re- start Contact the dealer.
The power of The laser treatment head to weaken	The life of the diode laser treatment head is not long.

How to replace the water filter?

Uninstallation step:



1. Take down the filters as the arrow mark indicates.
2. Take down the blue small clip.
3. Press down the inner button as the arrow mark indicates.
4. Unplug the filters as the arrow mark indicates.

Installation step:



1. Plug the filter into the PE pipe following the arrow direction
2. Plug the blue clip into the slot of inner layer pipe following the arrow direction
3. Adjust the place of blue clip, making it inserted in the end
4. Push the filters into clamps following the arrow direction

Filter Installation Notice:

1. Please unplug the power cord and draw off the water before change the filter.
2. When connect the filter, the filter need insert in the end, to ensure can't be pulled out. Install the blue clip. If want to take out the filter, need to keep pressing down the inner button of the connector, then take out the filter.
3. If you want to change the filter, need to do strictly according to the arrow direction on the filter. Prohibit exchange the position and direction of the 2 filters.
4. After start the machine, check if there is any leaking carefully, if no leaking, then check again after 1-2 hours, to make sure everything is okay.

III. Warranty

1. All products are strictly tested before sale. We can guarantee one-year free repair from the date of purchasing. During the guarantee period, we will repair the machine for free if the malfunction is caused by the quality of our product.

2. The standard of operation and environment should comply with the product Specification.

3. Malfunctions caused by the following reasons are out of the scope of our guarantee:
a. Malfunctions caused by abused operation
b. Malfunctions caused by other artificial factors like move or tear down in proper motion, or collision, etc.
c. Energy reduce caused by wet environment and dust
d. Malfunction caused by uncontrollable natural force e. Spare parts and accessories of this machine