

**3 IN 1 OPT +ND YAG LASER+RF  
BEAUTY MACHINE**



————— User manual

# USERMANUAL MANUAL

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## I . Safety notices

### **A. Safety of IPL**

Any people who are eligible in using and maintaining can safely use this machine . Any operators and his/her assistants must know well the following safe notices and make sure both the operator and the customers are safe during the treatments .

- a) The machine will start inspection automatically after it is on.
- b) Adopt the close filter /crystal of transferring light, the IPL can only emit from the front face
- c) Independent electrical circuit, it will automatically stop working if the energy is too high.
- d) The emergency switch is convenient when you are in emergency
- e) The key switch can protect it from stolen because they can't start the machine without certain key

**B.**Any intensive light without correct using will hurt people. It can work out high voltage when working;we suggest anybody who operates this machine should read this safety notices before using it.

**For Operator:** it's possible to touch the intensive light. So make sure you wear the 3 grade glasses.

**For customer:** it is better if the operator is trained eligible and arrange a proper treatment room for the customer. It is even better if the customer knows the treatment theory and cooperates with the operator during the treatment. He/she must make sure wear the professional protective eye patch which protects his/her eyes from burning.

**About the treatment room:** there must be clear mark which shows “using intensive light NOW!”

### **1) 【MAIN WARNING】**

Please make sure you will carefully read the following warning tips:

- a) We need to warn you that it has dangerous high voltage .Anybody except technicians that authorized by our company can repair this machine. Especially the inside of device e.g.: electrical source,cooling system, optic organs and treatment head. etc.
- b) Make sure the voltage of this machine is same with yours, (110V or 220V)
- c) It will hurt both you and the machine if you repair it when it is still working, we strongly warn you that you must turn off the machine and pull out the electricity line and then start repairing it.
- d) Keep the probe clean. MAKE SURE there is no cooling gel inside the probe.
- e) Stop using the machine when the headpiece is leaking water, if it is already on, please close it immediately.

### **2) 【WARNING ON INTENSIVE LIGHT】**

- a) The intensive light is possible to hurt your eyes or cause fire and burnt .so we suggest you wear the glasses.
- b) It will hurt the customer if you use too high energy or make too many shots in one

certain treatment area

c) Do not directly see the intensive light or laser light even if you wear the protective glasses and eye patch.

d) Do not point the treatment head to the air. Point it to the treatment area when using and hang it on the bracket when you don't use it.

### **C. Safety of the electricity and equipment**

a) Keep all the panels and cover board closed.

b) There is high voltage inside the machine even when it is off. So it is better not open the equipment if there is no need.

c) Please make sure the electricity is off if you want to repair the machine

d) this machine is about 45kg in net weight .it might hurt people if you move it in not proper ways. So pls make sure you move it slowly and carefully

e) Safe power line designed with 3 cores.

1)

a) The temperature of objects will rise after absorbing light energy, so please take actions to reduce the inflammable risk on treatment areas and surrounding areas.

b) Do not use alcohol, acetone or other inflammable things on skin before treatment. You can just wash the skin with water or sometimes a little soap.

c) If you use alcohol to disinfect the treatment head or any other parts, please wait till dry and then start the machine, otherwise it is dangerous.

### **2) 【SYSTEM SAFETY SETTINGS】**

are  a) Everybody in the operation room must know where the safety sets and how to use them.



b) Anybody who doesn't have our key is not able to start the machine.

c) There is a red indicator light which will be on if you start the machine.

d) Emergency button: the red switch is used to switch off power when you come to any emergency. Just press it and the machine will stop working .next time you use the machine, you need to turn this emergency button on.

### **3) 【AUTOMATICAL INSPECTION】**

It will start inspecting itself automatically when you start the machine. You need to turn on and turn off the machine repeatedly for 3 times and then start using it.

### **4) 【LEVEL OF EQUIPMENT】**

a) Level of motor protection: 1 CLASS, BF CLASS

b) Anti - corrosive liquid: general

c) Not allowed to use this machine in room that exists inflammable anesthetic and nitrous oxide.

d) Operation manner: continuous operation

## **II. E-light Part**

### **1. Theory**

E-light takes strong pulse IPL and bipolar radio frequency electromagnetic wave with special width-spectrum, selectively acts on target texture, to do skin rejuvenation, freckle removal, hair removal, wrinkle removal effectively. On treatment if 5 to 10 times than traditional photon therapy.

#### **1.1. Bipolar RF + IPL + Epidermis refrigeration:**

E-LIGHT combines good traits of IPL and Radio Frequency, warms up strong pulse, takes bipolar rf to strengthen acting on deep tissue, uses skin can selectively inhale light energy, to induce different impedance between target texture and normal skin. Under the circumstance of low light energy, it strengthens target texture to inhale radio frequency, greatly eliminate side effect like bleb, pigmentation caused by heat action of light energy filtering. E-light can penetrate skin deep, selectively act on hypodermal pigment, blood vessel, dissolve freckle, close abnormal vein, solve skins all kinds of flaws. Simultaneously, E-light can stimulator hypodermal collagen rebirth, make skin youth, health and smooth.

#### **1.2. Specially**

Under precondition of precooling, energy will directly push into skin deep, epidermal pigmentation cannot inhale energy, so it can safely act on pigmented skin. Energy can enter 15mm under skin. Light energy mainly uses on adjusting target texture impedance, avoid energy echo and reflection problem. Effectively act on any colored pathological changes, like target texture with similar as skin color. Surpass traditional laser and strong pulse therapy, E-light can completely solve many problems like skin rejuvenation, hair removal, acne skin etc. No matter what type of skin or hair color, all can get safe and effective therapy.

#### **1.3. Applicable range :**

##### **1.3-1. Wrinkle removal, facelift, skin lift.**

**Theory:** It combines E-light (IPL and RF) technique, that is also said electromagnetic wave and IPL heat energy, to increase dermis layer temperature, stimulate collagen fibre rebirth and rearrangement, so as to do wrinkle removal, face lift and lift skin without pain.

**Safety:** Cause it mainly uses RF energy to penetrate hypodermal 15MM, acts on dermis layer, and very low influence on epidermis, collects main energy on target texture, so-called very safe.

##### **1.3-2. Permanent hair removal.**

**IPL hair removal theory:** It uses light with selective inhalation, through hair nipple of hair trunk and hair folliculus, which exists rich melanin cell, to inhale strong pulse IPL, produce heat energy into hair folliculus, folliculus temperature will be rapidly increased and the folliculus will be putrescence, so that can effective remove hair for ever.

**IPL and RF together to do hair removal:** Based on IPL technique, it combines radio frequency energy which can down to hypodermal 15MM, directly acts on hair folliculus, make their melanin inhale more energy, so that has better effect on tiny thin hair, light hair, golden hair and white hair.

**Safety:** It simply uses IPL hair removal equipment, very safety on light skin, thick and black hair., but uses IPL and RF together, will also very safety on all colored skin and hair, and more effective on hairs around the lip, golden hair and white hair.

### **1.3-3. Dispel deep freckle, epidermis freckle, whiten skin, dispel thread vein.**

**Simple IPL technique:** it uses Hemoglobin and pigment group which can inhale light selectively and dissolve, to increase target texture temperature. Under the premise not to damage normal skin tissue especially epidermis, make target texture, putrescence, so as to get good therapy.

### **1.3-4. Acne skin therapy**

The before IPL equipment, it doesn't have effective therapy on acne skin, but now, we uses IPL and RF technique together, get very good result in clinic.

**Theory:** It uses IPL and RF energy, act on and kill Ciprofloxacin bacilli existed in acne, decrease sebaceous gland activation, at same time, it will elimate pigmentation, stimulate deep collagen rebirth and rearrangement, so as to get good result.

**Safety:** Cause it uses IPL and RF complex energy, it can act on different deep layer, not single energy, so it can make sure more safety and effective on curing.

## **2. Functions**

We know E-light machine is good at removing thick black hair, but it can't remove thin light hair .e.g.: lip hair,Intensive pulse light works on the hair which absorbs the light and transfer it to heat and transport it to hair follicle and then destroy it . But if it is thin light hair .the energy that it can absorb is not high enough to destroy its hair follicle .so we develop E light system to solve this problem. E light's RF energy can directly work on hair follicle that is 15nm under derma .so it is also good at thin light hair removal .

### **Standard:**

1) Hair removal (**640nm~1200nm**)

2) pigment & wrinkle removal (**530nm~1200nm**)

3)Skin rejuvenation & Vascular (480nm~1200nm)

**Optional:(430nm,560nm,590nm,690nm)**

**Note:** this machine only one handle,so you can choosing the filter.

### 3. Course of treatment

Item	Period of treatment(PT)	Remark requirements
Hair removal	1 time every 21-40days, 3-6 times every PT.	Shaving the unwanted hair at the treatment area
Freckle removal	1 time every 21-28days, 6 times every PT.	1. The patients should be suitable to accept treatment. It means they don't have the symptom described in Contraindications 2. No hypersusceptibility recently 3. The patients should cooperate with operator's instructions 4. Clean treatment area after treatment
Skin rejuvenation	1 time every 21-28days, 6 times every PT.	
Vascular therapy	1 time every 21-28days, 3-6 times every PT.	
Acne skin	1 time every 21-28days, 3-6 times every PT.	
Lifting	1 time every 21-28days, 6 times every PT.	

**Remarks:** Parameters should be adjusted according different person, professional beautician should keep asking the feeling of the client and adjust parameters according the actual status.

### 4. Installation

#### 1) 【Components of the device】

##### ◆ Assembly parts

Power line

Water pipe

Water funnel

Professional protective glasses

Professional protective eye patch

##### Pictures



protective glasses for doctor



protective eyepatch for patient

## 2) 【how to install this machine ?】

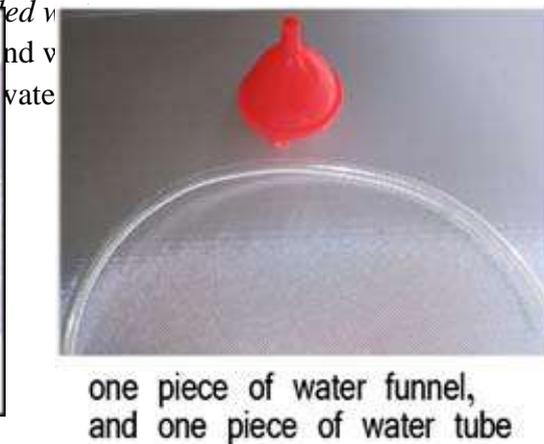
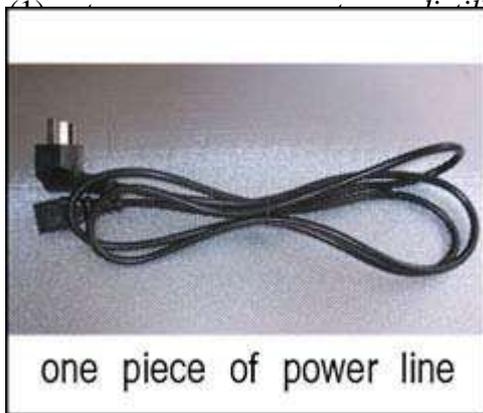
- a. Open the package when receiving the machine
- b. place the machine on flat ground -
- c. check up

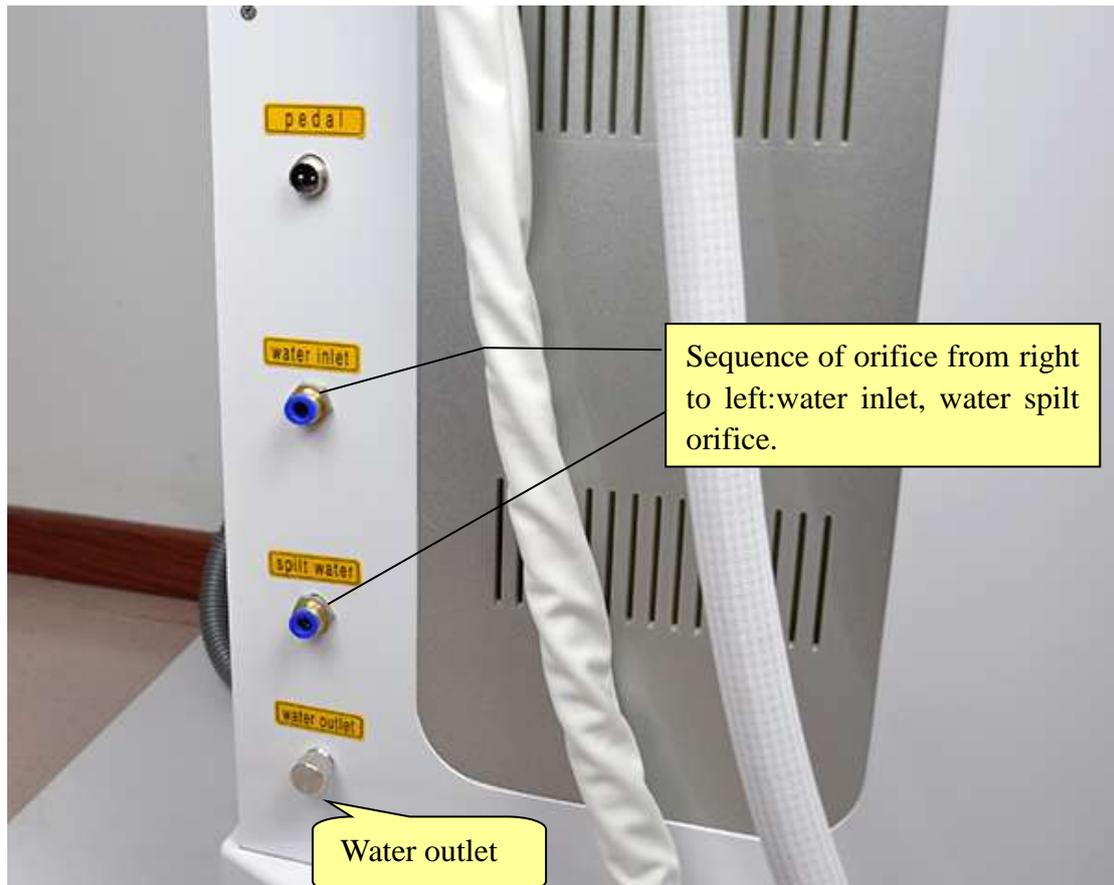
whether good condition of machine from appearance, make sure no damage in transportation.

Good condition of machine but there's some water on the surface of the machine; please wait till dry then input water to test. In fact, we do function test before shipment; and output water after perfect performance. Sometimes the water may spill, but normally, please do not worry about.

After above operation, Keep 22°C - 28°C temperature and the humidity not more than 20% in the treatment room. Finally input water and function test.

d. Input water:





**(4). How to know enough water input?**

Please observe water spilt, water spill automatically from the water spilt, means enough water input.

(5). Draw out water pipe and water funnel.

**Note: change water every 10-15 days approximate.**

**3) Function test:**

a. Turn on machine, when show the first LCD display, please do not do any other operation.

b. Turn off machine

**PS:** this is to make sure good water circulation before normal operation. It's allowed to operate only based on good water circulation.

**How to know good water circulation inside machine?**

1. Generally you can hear water flow sound;
2. Under machine power on, the probe (sapphire) turn to cold after 3 - 5 minutes.
3. from the observe window, you can see the something rotate inside.

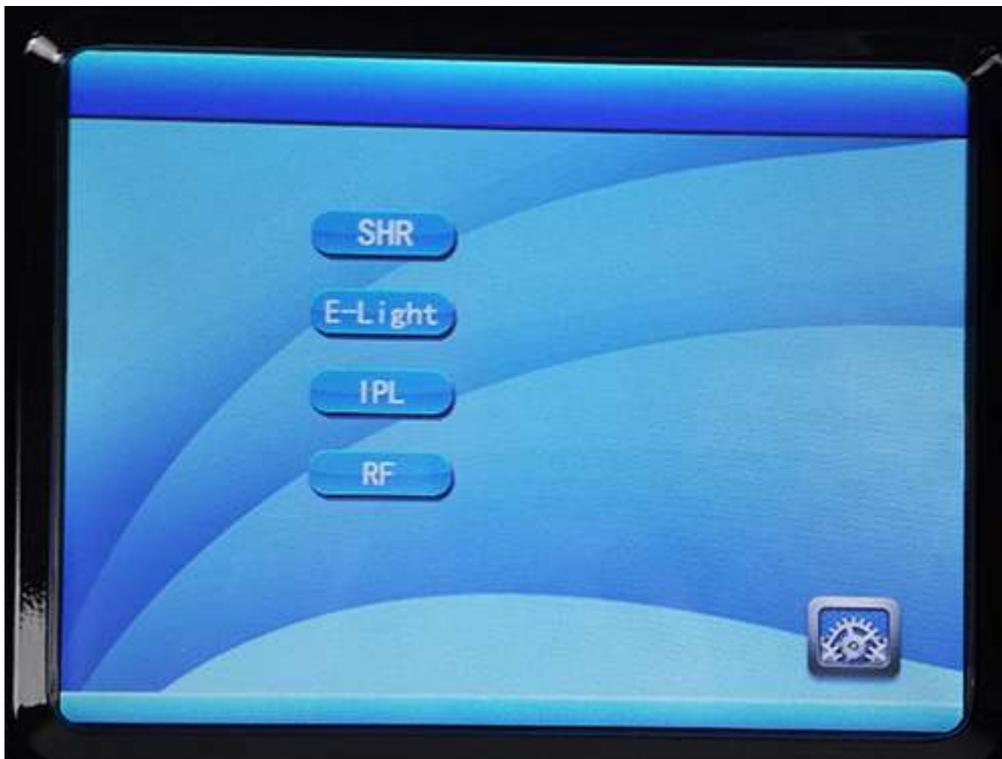
If the water doesn't cycle well or the probe does not cold, there might be some air in the pump. We suggest do as following:

- a. Pull the handle ,Turn on machine, when show the first LCD display, please do not do any other operation.
- b.Let the handle put the earth Lower than the machine . Check the probe whether cooling well . If no, write the next step .
- c. Button the water injection , until it spurt the water ,then turn off machine . Look at the picture .
- D. Connect the probe well . Turn on the machine .

## 5. Operation

### 一： Splash Screen:

Turn on the power switch device, the display into the interface.



Picture 1 Screen

### 二： Select interface language:

Click“Setting”into the language selection screen



Can choose Chinese and English language

Picture 2 language selection screen

Click on the arrow, you can set different national language choice.

### 三： Interface Introduction

#### SHR Treatment interface



## E light therapy interface



(Picture 二)

After entering treatment mode selection screen, shown in Figure 2. Press the "Ready" button to trigger the head and automatically charge the capacitor when charging is completed to enter treatment, press the "standby" button to turn the head, enters the standby state.

**Treatment records:** Display (3 E light therapy mode) current treatment records, you can record different treatment parameters have been easy to treat different patients, click to change the treatment records, there are three options;

**Cooling adjustment:** Used to adjust the treatment bald refrigeration temperature, divided into five-speed adjustable, the more blue snowflake, the stronger cooling, blue snowflakes disappear, refrigeration closed;

**Return:** To return to treatment mode selection menu, Gray unavailable (treatment status);

**Is Energy:** Adjust the size of the head of the output energy, the adjustment process in the display window shows the current energy output of the energy value of the adjustment range 1 ~ 50J / cm<sup>2</sup>, this setting can be directly adjusted directly in the treatment process, the adjustment "Δ or ∇" key, "Δ" key to increase, "∇" key to reduce, hold down the "Δ or ∇" to quickly adjust the output power;

**RF Energy:** RF output power adjustable size adjustment process energy display

window shows the current value of output energy adjustment range of 1 to 30, this setting can be directly adjusted directly in the course of treatment, with "Δ or ∇" to adjust, "Δ "button to increase," ∇ "key to reduce, hold down the" Δ or ∇ "to quickly adjust the output power;

### E-Light Mode parameter modification

In the treatment of the interface, we can adjust the treatment parameters. Click "treatment parameters settings" interface to modify the parameters, the treatment parameters are selected, while the bottom down arrow will appear. To increase the value, press the up arrow to increase the value, press the down arrow to decrease the value, click again for the adjustment is complete treatment parameters store the

Tip the contents of the current adjustment

IPLMode, adjusting treatment parameters

Pulse parameter adjustment window

Increase / decrease buttons

(Picture 三)

Treatment parameters represent the course of treatment data can be adjusted by adjusting the treatment parameters, we can change the treatment bald energy output, pulse width and pulse number, so as to achieve different therapeutic effect.

A total treatment parameters adjustable 8 (shown in Figure IV):

 3 : Adjust the pulse interval pulse therapy, adjustment range (1 ~ 4S) seconds, you can directly click adjustment;

 3S : The number of pulse modulation therapy, adjustment range (1 to 6), directly click to adjust;

 600ms : RF regulating action time adjustment range (50 ~ 1000) ms, click directly to adjust the unit is 50ms, the larger the number, the longer the duration

of action of RF is recommended between 300-900ms, can be adjusted according to the actual situation;

**The first pulse width:** Adjusting the pulse width of the first pulse, when the pulse width of the single pulse is applied, when the multi-pulse applied to the first pulse width adjustment range (1 ~ 10ms), 0.1ms steps.

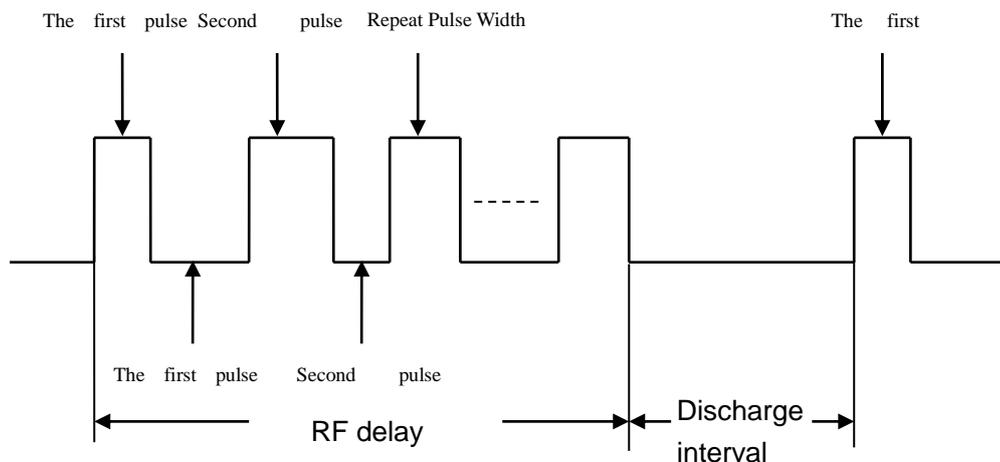
**The first pulse interval:** Adjust the first pulse and auxiliary pulse delay (second pulse) between the adjustment range (1 ~ 100ms), 1ms steps.

**Second pulse width:** Adjusting the auxiliary pulse (second pulse) of the pulse width, the application is not displayed when a single pulse, the adjustment range (1 ~ 10ms), 0.1ms steps.

**Second pulse interval:** Delay adjustment auxiliary pulse (second pulse) and the repeating pulse (pulse and after the third pulse) between the single pulse application does not show, the adjustment range (1 ~ 100ms), 1ms step.

**Repeat Pulse Width:** Adjustment repetitive pulses (third pulse and after) the pulse width of the single pulse application time is not displayed adjustment range (1 ~ 10ms), 0.1ms steps.

### Pulse output diagram



(四)

### Treatment

Press "Ready" button (Green) and the capacitor will trigger automatic charging, when charging is completed to enter treatment, press the "Standby" button (red) closed, enters the standby state. After the power charging is completed, wait about 10 seconds later, the head temperature drops after you can start treatment. Hold down the treatment button "Work Button" treatment parameters set in accordance with the work of the head start. While holding down the treatment button "work button", press any key to the system is not reflected in the treatment of the head must be released "job buttons" can perform the operation. In the course of therapy, you can modify the treatment parameters. At the end of treatment, according to "Standby" button to exit

### **the treatment program, shut bald.**

During RF treatment must ensure good contact with the skin RF electrode and apply cold gel, RF energy from low to high to adjust the time the electrode in contact with the skin should not be too long, to avoid skin burns. RF treatment is mainly internal skin feel feeling fever, if they feel tingling too, it is a cold gel coated plates too little or poor contact with the skin, should be re-coated cold gel or adjust the position of the plate.

RF duration of action may be needed to adjust, but not too large (recommended between 300-900ms), short duration of action is not easy to effect, and the role of time too easy to burn the skin.

## **四. Various functional parameters reference amplitude**

### **1.Hair removal Parameter Reference**

Based on the above picture settings, shed parameters, IPL is set to 18J / CM<sup>2</sup>; RF set about 1-3J 05. Due to different patients in different situation, can be adjusted IPL.

### **2.pigmentation removal Parameter Reference**

Based on the above picture settings, remove the stain parameters, IPL is set to 10J / CM<sup>2</sup>; RF set about 1-3J 05. Due to different patients, the situation is different, you can fine-tune the IPL.

### **3.Skin rejuvenation Parameter Reference**

4.Based on the above picture settings, shed parameters, IPL is set to 5J / CM<sup>2</sup>; RF set about 1-2J 05. Due to different patients in different situation, can be adjusted IPL.

### **5.Acne therapy Parameter Reference**

Based on the above picture settings, shed parameters, IPL is set to 8J / CM<sup>2</sup>; RF set about 1-2J 05. Due to different patients in different situation, can be adjusted IPL.

### **5.Vascular therapy Parameter Reference**

6.**Based on the above picture settings**, shed parameters, IPL is set to 5J / CM<sup>2</sup>; RF set about 1-2J 5. Due to different patients in different situation, can be adjusted IPL.

### **7.OPT-SHR hair removal Parameter Reference**

Based on the above picture settings, shed parameters, Energy set to 15J / CM<sup>2</sup>; Due to different patients in different situation, can be adjusted around IPL 1-2J.

## **五: Procedure practices:**

1、**Hair removal:** 1. Trim the hair (1-2 mm) 2, 3 clean, apply a thin layer of cold gel four red hair with hair

removal tips (tip lightly against the skin to fight, a site next to a part to play, stubborn hair can be slightly tilted angle of the face direction of hair growth tips to play) 5, playing 3-5 times (see the hair slightly curled hair or smell a burning smell it) 6, apply a thick layer of cold gel 10 minutes about clean can (smear repair growth factor)

**2、Vascular therapy:** 1, clean the skin two operating parts evenly cold gel 3 (tip close to the skin epidermis play, next to a part of the site at the spot to play) 4, back and forth three times more unequal fight, until you see the color deepened mentioned epidermis good 5, smear a thick cold gel for about 10 minutes to clean (smear repair growth factor)

**3、skin rejuvenation:** 1、Cleaning operation site 2、Were associated with cold gel smear 3(Tips to play close to the skin epidermis, a site next to a part to play) from chin to forehead, cheeks go down to fight, fight back and forth 3-5 times 4、 Apply a thick layer of cold gel for about 10 minutes to clean (Apply fixes growth factor)

**4、Acne therapy:** 1、 Cleaning operation site 2、 Were associated with cold gel smear 3(Tip close to the skin epidermis play a part to play next to a site) from chin to forehead, cheeks go down to fight, fight back and forth 3-5 times 4、 Acne appears reddish better 5、 Apply a thick layer of cold gel for about 10 minutes to clean (smear repair growth factor)

**5、Vascular therapy:** 1、 Cleaning operation site 2、 Were associated with cold gel smear 3 (Tip close to the skin epidermis play a part to play next to a site) from chin to forehead, cheeks go down to fight, fight back and forth 3-5 times 4、 Redness site becomes dark red or red-purple better 5、 Apply a thick layer of cold gel for about 10 minutes to clean (smear repair growth factor)

**Note: All projects done 24 hours can not contact hot water, non-exposure, not the sauna, with growth factors to repair skin repair to avoid pigment reflow phenomenon**

**Note:**

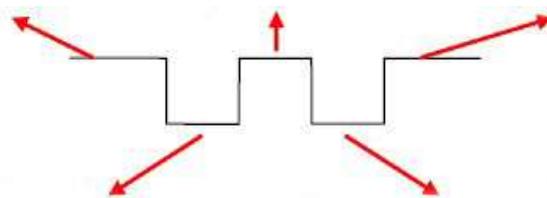
1. please do not point the probe to people’s eyes directly; the intensive pulse light is alarm to people’s eyes.

2. IPL and RF can work alone.If you only want to skin lifting function,stop IPL( press " IPL " button and then it will become gray color)

**Parameters setting:**

**Sequent of pulse parameter: (from left to right)**

Discharge interval (output interval): 1 - 4s Pulse Number (pulse frequency): 1 - 6  
 First pulse duration: 1 - 9.9 Second pulse duration: 1 - 9.9 Sequent pulse duration: 1-9.9



Cooling adjustment,Keep the top cooling level or higher cooling

Counter

First pulse interval: 1 - 99

second pulse interval: 1 - 99

**Attention:**

During the process of parameter adjustment or parameter settings, do not press the control button on handle, after the adjustment or settings and want to start the treatment, and then press the control button.

## **How to use the elight?**

### **I 【Clinic operation】**

#### **A. Before treatment**

##### **To the machine:**

- b). Input enough water and make good water circulation before actual operation
- c). Water source: distilled water or pure water
- d). Before the operation, make sure probe cold. Then it's able to start the operation. (if take operation under the state of no water circulation or hot probe, the handpiece is easy to damaged.)
- e). Inflammable and explosive things should be kept away from operating room, such as stupefacient, liquid and gas.

##### **To the patients:**

- a). Classification of skin: it's safe and effective to the white, brown or yellow skin.
- b). Clean skin to eliminate the perfume and cosmetics.
- c). Use digital camera for memory, take photo from different orientations, if necessary
- d). If necessary, use external anesthetic one hour before the treatment; Please shave hair firstly under hair removal treatment.
- f). Spread the cooling gel on skin, about 3 mm thickness
- g). Wear eyepatch before actual option

**Note:** can not look at the intensive pulsed light directly, or alarm to people's eyes, such as keratitis, cornea brushing off, or even lose sight.

- h). forbidden to wear watch and necklace etc. during the treatment.

##### **To the operators:**

- a). Adjust the right parameters
- b). Touch the "Start" on the LCD
- c). Test the device working, please shot the 3 first pulse to ground at beginning, make sure even energy output in treatment.
- d). Wear glasses before actual option
- e). forbidden to wear watch and necklace etc. during the treatment.
- f). can not look at the intensive pulsed light directly, or alarm to people's eyes, such as keratitis, cornea brushing off, or even lose sight.
- g). Please do not optionally open the panel of the machine even power stopped, in case high voltage danger.
- h). It must tighten up the screw caps of machine before movement.
- i). vertically slide the probe on skin, and keep close to skin

- J). Keep the machine rest every 2 - 3 hours continuously working
- k). The handle is fragile, please keep special care when hanging to the holder or in handle
- l). Please do treatment from the lower energy at the beginning, and adjust the energy according to actual conditions.



If the probe is not cold or it even becomes hot, please stop using this machine and turn to us for help. Otherwise it will hurt people and damage the machine.



Please do not press the button on handle one press by one press or step the foot pedal step by step. That will make skin gets different energies which will sure hurt the customer.

### **Others:**

#### **System alarm of water temperature:**

The lowest system settings of water temperature is 25 degree the highest system setting of water temperature is 60 degree. During 25---60 degree, the machine works well. If lower 25 degree or higher 60C,now pulse output from the probe.

### **B. In the process of treatment**

- a. Spread approximate 3 mm cooling gel in front the ears and below the chin. Making test of 2 - 3 spots according to the former parameter designed. After 3 - 5 minutes, observe the reflection of skin, to make sure the right treatment parameter. However, it needs to wait for a little longer time.
- b. When taking the treatment to the protruding parts in the bone structure (like forehead, mandible and cheekbone). Appropriately adjust the RF energy based on different conditions of patients.
- c. During the treatment, vertically slide the bipolar probe on skin with level force, and observe whether it's touched well or not. Overlapped shoot makes sure to good effects of treatment area.
- d. please continuously step the pedal or press the button on handpiece.
- e. Adjust the energy from low to high, and step - by - step; make sure not more than 2J each time,avoiding skin burn.



Please do not press the button on handle one press by one press nor step the foot pedal step by step. That will make skin gets different energies which will sure hurt the customer.

- f. When ending the treatment or try to change another treatment part or parameter adjustment,firstly release the button on the handpiece or pedal firstly, avoiding

electric shock by chance.

g. It's can be adjusted the energy, according to the actual conditions of the patients.

### C. Special Notices

a. Avoid sunlight and burn before and after the treatment, could use the suntan lotion (cream).(SPF>30) to avoid direct sunshine.

b. Avoid chemical or mechanical stimulation before and after 1 week of the treatment

c. Do not take filled things or injection treatment before and after 2 weeks of the treatment

d. Avoid direct or indirect heat stimulation to the treatment area after 3 days of the treatment,especially to those of high pigment deposit.

e. If taking laser skin care treatment before, please wait for 3 weeks at least and then do this treatment.

f. After the treatment, patients are not allowed to eat the foods of dark color or great pungent within two weeks, such as the sauce, coke, seafood, capsicum etc.

g. It's not allowed insolation in sun before and after the treatment

h. It's not allowed that use any cosmetics after the treatment, suggested that use the natural moisturize products

i. Please cooling the bad reaction area after the treatment, like tumescence and causalgiase.

j. After the operation, make sure clean the probe.

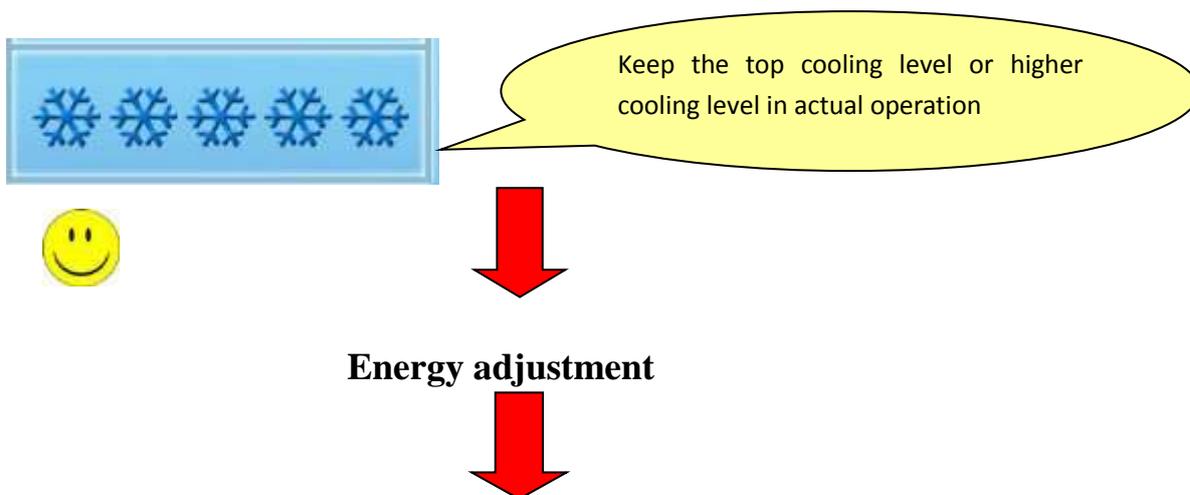
k. It's not allowed to operate the machine without professional operators.

### Parameters of each treatment

When turning on the machine, the screen will show as the picture below:

b. Select relevant treatment mode, such as Hair Removal, Skin Rejuvenation...

Now take Hair Removal mode for example, show as follows:



Actually we have set these parameters for you already, so that really saves time for you, you don't need to set those parameters each time you have customers. You just

adjust the IPL and RF energy and the cooling mode and you can start the treatment. Clean the customer's skin with water, shave the unwanted hair on the treatment area or shear the unwanted hair till 1mm to the hair root.



Cooling gel is used to let customers' skin feel cold and better lead light into deep layer of skin. Spread the cooling gel on the treatment area, about 3mm thickness.

During the process of parameter adjustment or parameter settings, don't touch "Start.", you can press it when you finished setting the parameters.

Touch "Start" on LCD display, press the control - button on handpiece or step the pedal, pulse output from the probe, means can do the actual operation.

**Note:** please do not point the probe to people's eyes directly; the intensive pulse light is alarm to people's eyes.

- a. 3 - 5 treatments as one session.
- b. Do the first 3 treatments every 3 weeks, then do every 4 weeks afterwards.
- c. Feelings in the treatment: some stinging & heat sensation on skin, but be comfortable and acceptable by patients. Generally, 1 - 2 minutes later after treatment, a little red on skin and will disappear soon. In this case, can tweezer the hair root lightly, naturally shedding and no pain, which means the best effect. If redness or inflammation on treatment area, mean big energy in clinic. In this case, should take some internal or external antiphlogistic. If burn and wound, we suggest look for doctor for professional treatment immediately.
- d. Effect of cooling gel: cooling and light transfer
- e. Usage:
  1. Clean skin
  2. Should shave the unwanted hair firstly. Because the dark color hair is easy to absorb IPL energy; over absorb may result in skin burn more or less. But pls do not worry about. It won't happened in normal & logical operation. logical operation condition means: dark & heavy hair on treatment area; small energy at the beginning; slow slide speed of probe on skin.
  3. Spread the cooling gel on the treatment area before treatment, about 3mm thickness; and scrape the gel 20 minutes later after the treatment.
  4. Keep spot of overlap one third of the former one
  5. Touch "Start" on LCD display and continuously press button on handpiece or continuously step pedal to start operation.

**Attentions:**

- a. In operation, vertically slide the probe on skin with balance force, make sure the probe touch skin firmly.
- b. Press button on handpiece after the probe close touch on skin, avoid electric shock.
- c. Increase speed of probe sliding step by step, avoid burn skin, as long time treatment, the probe may create bigger heat on probe accordingly.
- d. Keep spot of overlap 1 - 2mm, Overlapped shoot makes sure to good effects of

treatment area.

**Notice:**

Actually we have set these parameters for you already, so that really saves time for you, you don't need to set those parameters each time you have customers. You just adjust the IPL energy and the cooling mode in the actual operation.

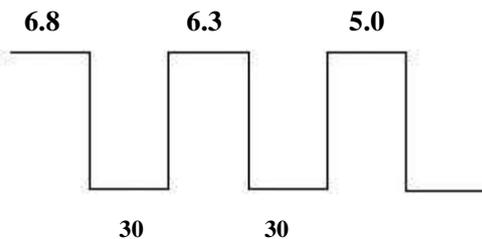
The following parameters just for your reference:

**(1) Parameter for Hair removal**

**To black skin:**

Discharge interval: 2s

Pulse Number: 5T



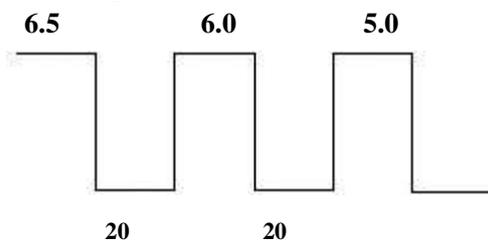
Ipl energy: suggest start from 18J/cm<sup>2</sup> RF energy:suggest start from 5-8  
According to the actual condition of patients, to adjust the IPL energy in turn.

**Attention:** the black skin is easy to absorb energy, so take special care IPL energy adjustment in the actual treatment.

**To yellow skin:**

Discharge interval: 2s

Pulse Number: 5

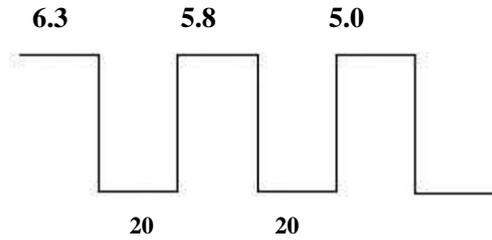


IPL energy: suggest start from 22J/cm<sup>2</sup> RF energy:suggest start from 5-8  
According to the actual condition of patients, to adjust the IPL energy in turn.

**To white skin:**

Discharge interval: 1s

Pulse Number: 5



IPL energy: suggest start from 22J

RF energy: suggest start from 10J

According to the actual condition of patients, to adjust the IPL energy in turn.

**Attention:** It can be increasing the value, according to the actual conditions of the patients; generally, the best treatment results are stinging sensation under tissue, which is acceptable.

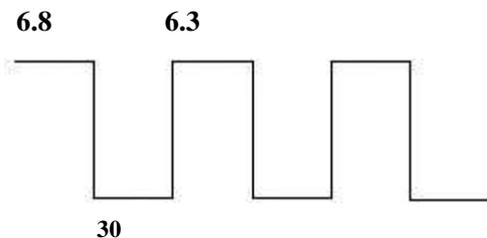


## (2) Parameter for Freckle removal

**To black skin:**

Discharge interval: 2s

Pulse Number: 2



IPL energy: suggest start from 15J

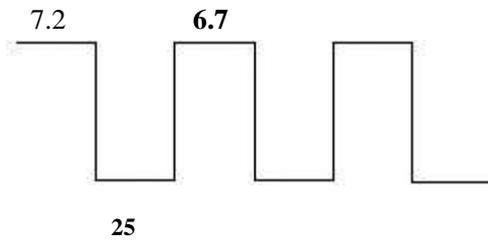
RF energy: suggest start from 5-8

**Attention:** the black skin is easy to absorb energy, so take special care IPL energy adjustment in the actual treatment.

**To yellow skin:**

Discharge interval: 2s

Pulse Number: 2



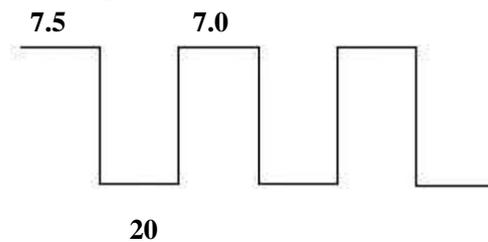
IPL energy: suggest start from 20J

RF energy: suggest start from 5-8

**To white skin:**

Discharge interval: 2s

Pulse Number: 2



IPL energy: suggest start from 22J

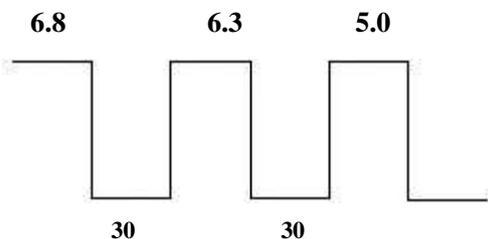
RF energy: suggest start from 5-8

**(3) Parameter for Skin rejuvenation**

**To black skin:**

Discharge interval: 2s

Pulse Number: 3



IPL energy: suggest start from 15J

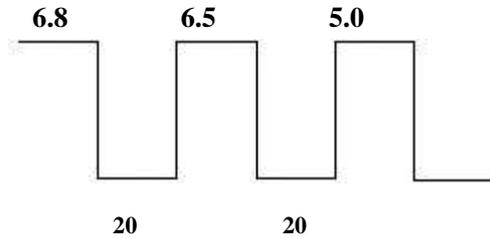
RF energy: suggest start from 5-8

**Attention:** the black skin is easy to absorb energy, so take special care IPL energy adjustment in the actual treatment.

**To yellow skin:**

Discharge interval: 2s

Pulse Number: 3



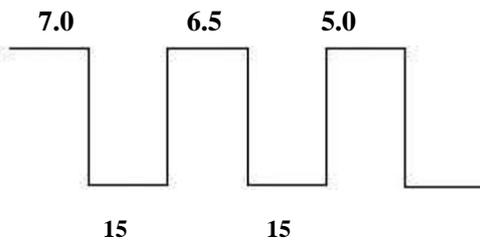
IPL energy: suggest start from 20J

RF energy: suggest start from 5-8

**To white skin:**

Discharge interval: 2s

Pulse Number: 3



IPL energy: suggest start from 20J

RF energy: suggest start from 5-10

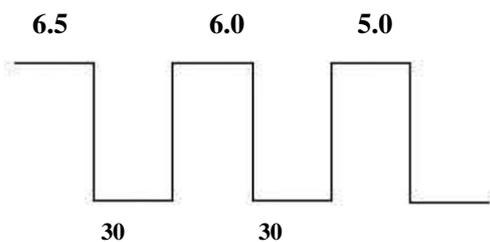


#### (4) Parameter for Vascular therapy

**To black skin:**

Discharge interval: 2s

Pulse Number: 3



IPL energy: suggest start from 22J

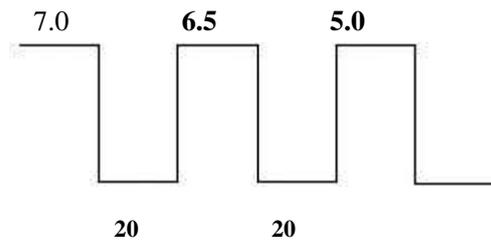
RF energy:suggest start from 3-5

**Attention:** the black skin is easy to absorb energy, so take special care IPL energy adjustment in the actual treatment.

**To yellow skin:**

Discharge interval: 3s

Pulse Number: 3



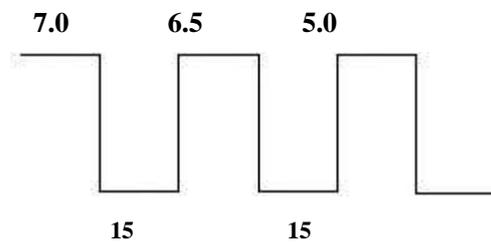
IPL energy: suggest start from 20J

RF energy:suggest start from 5-8

**To white skin:**

Discharge interval: 3s

Pulse Number: 3



IPL energy: suggest start from 22J

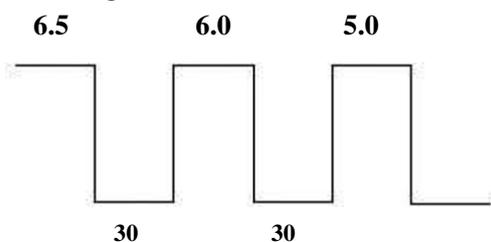
RF energy:suggest start from 5-8

### (5) Parameter for Acne skin

**To black skin:**

Discharge interval: 2s

Pulse Number: 3



IPL energy: suggest start from 20J

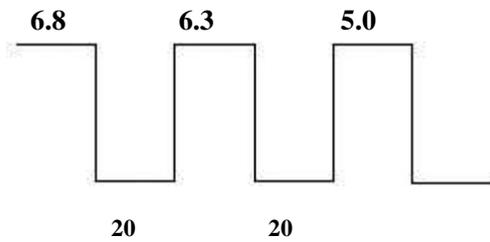
RF energy:suggest start from 5-10

**Attention:** the black skin is easy to absorb energy, so take special care IPL energy adjustment in the actual treatment.

**To yellow skin:**

Discharge interval: 2s

Pulse Number: 3



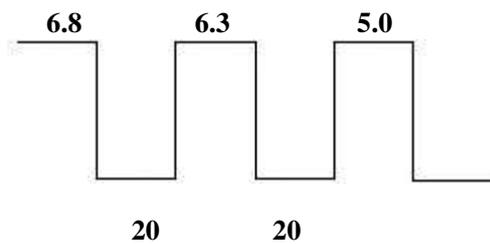
IPL energy: suggest start from 20J

RF energy: suggest start from 5-8

**To white skin:**

Discharge interval: 2s

Pulse Number: 3



IPL energy: suggest start from 20J

RF energy: suggest start from 5-8

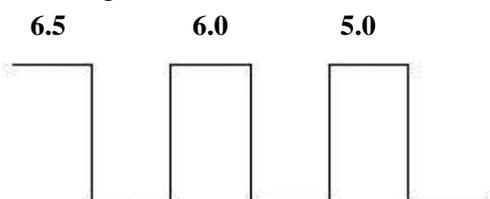


## (6) Parameter for Lifting

**To black skin:**

Discharge interval: 2s

Pulse Number: 3



30

30

IPL energy: suggest start from 15J

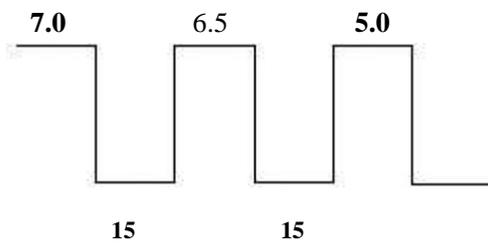
RF energy:suggest start from 5-8

**Attention:** the black skin is easy to absorb energy, so take special care IPL energy adjustment in the actual treatment.

**To yellow skin:**

Discharge interval: 2s

Pulse Number: 3



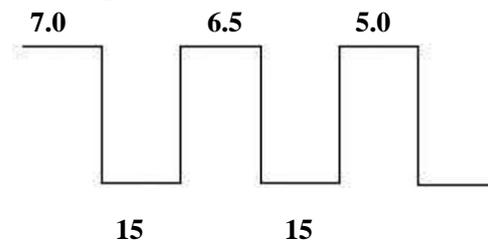
IPL energy: suggest start from 15J

RF energy:suggest start from 5-8

**To white skin:**

Discharge interval: 2s

Pulse Number: 3



IPL energy: suggest start from 10J

RF energy:suggest start from 10J

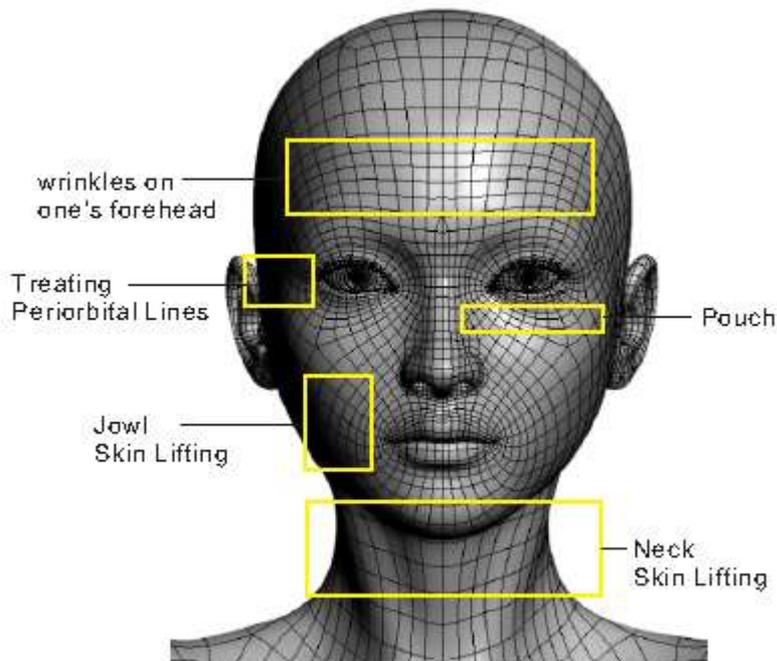


### III. RF PART

#### I. How to use the RF

#### RF Operate pattern

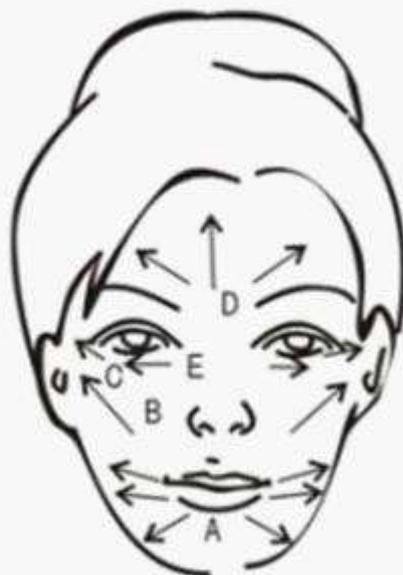




## II.RF Treatment Procedure

### 1 .Operateion technigue:

Let the treatment probe touch the target area ad mover(Or Slide)from the inner to the outer and round and round and from the lower place to the higher, when you do the treatment ont he upper lid,Pls move a bit more quickly,when the gel on the face get drier,please add some GEL and go on with the treatment.



Operation diagram for RF treatment

## 2.Face

(Including cheek,eye,forhead,lip,neck) Operation procedure( About 50minutes for whole face,15- 20 minutes for neck)

- 1) Carry out a skin evaluation before treatment.
- 2) Clean skin
- 3) Tone skin
- 4) Massage with GEL
- 5) Clean skin
- 6) Smear gel on skin and apply treatment with trobe.
- 7) Let the probe touch the skin and make treatment

Course of treatment: One course of treatments includes 5 treatments at an interval of every 10-15days.

### Curative effect

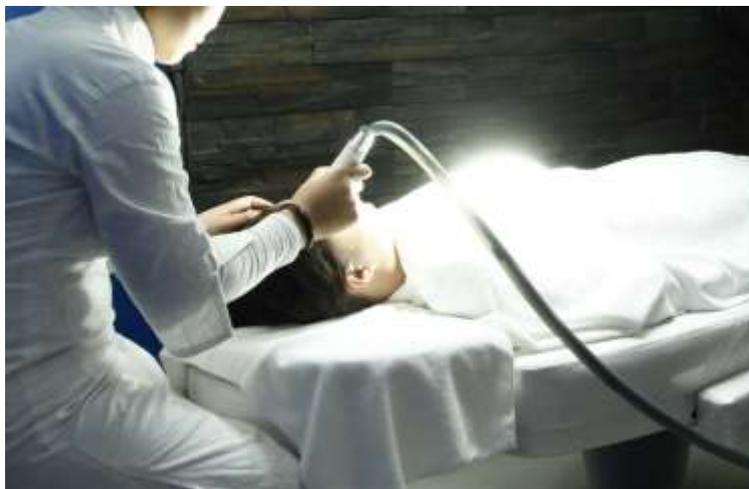
After one treatment,the heated subcutaneous fiber shrinks instantly,therefore fins wrinkles are improved,and skin becomes tender,sommth and compact.After onecourse of treatment:the collagen protein is regenerated for long term,skin becomes tender and smooth,wrikles are reduced, and skin is tightened and compact.

## 3.Body(striae gravidarum)

Operation procedure(About 60-90minutes for topical area)

- 1) Carry out a skin evaluation before treatment.
- 2) Clean skin
- 3) Massage with body slimming distillate
- 4) Smear body slimming diatillate on skin and apply treatment with probe.
- 5) Clean skin
- 6) Let the probe touch the skin and make treatment.
- 7) Course of treatment:One course of treatments includes 5 treatments at a interval of every 10-15days.

Curative effect After one treatment,the heated subcutaneous fiber shrinks instantly,therefore skin become smooth,compact and elastic.After one course of treatment;Skin becomes compact and flabby skin is improved.



## Treatment Caution

1. For treatment is that the patient should feel needling&hot.
2. The treatment head must be kept on the skin (sliding); otherwise, the skin will get burned.Before the treatment head leaves the skin, you must loose the button on the head or loose the foot switch.
3. When the temperature of the treatment head is over too high, you should stop treatment.The energy you adopt should not be too high; otherwise, the skin will get burned.
4. Please carry out skin moisturizing and sun proof cream work after treatments, do not wash faces with hot water (use water under the body temperature), and do not go for hot spring and massage.

## III . Laser part

### 1. Theory

#### Treatment Theory

Eliminate spots ,remove tattoos : The specific laser wavelength will effect on and melanin of epidermis and dermis . The pigments will begin to swell and explode to tiny particles after absorbed this high energy laser . One part of them will be shot out of the body ,the other parts will be gradually removed by metablism .

Tighten skin ,contract big pores:Spread specific fine carbon on face ,after absolutely infiltrated in pores,then to shoot ,it's easily burst the carbon particles to break out the spots and cutin of epidermis . The heat will stimulate re-growth of collagen ,to tighten skin and shrink pores

#### Application

To wipe out tatoos ,to eliminate eyebrow cleaning ,eye-line cleaning ,age spots,birthmard ,etc.

### Laser head



1064nm



532nm



1320nm moppet head



**532nm(round)**



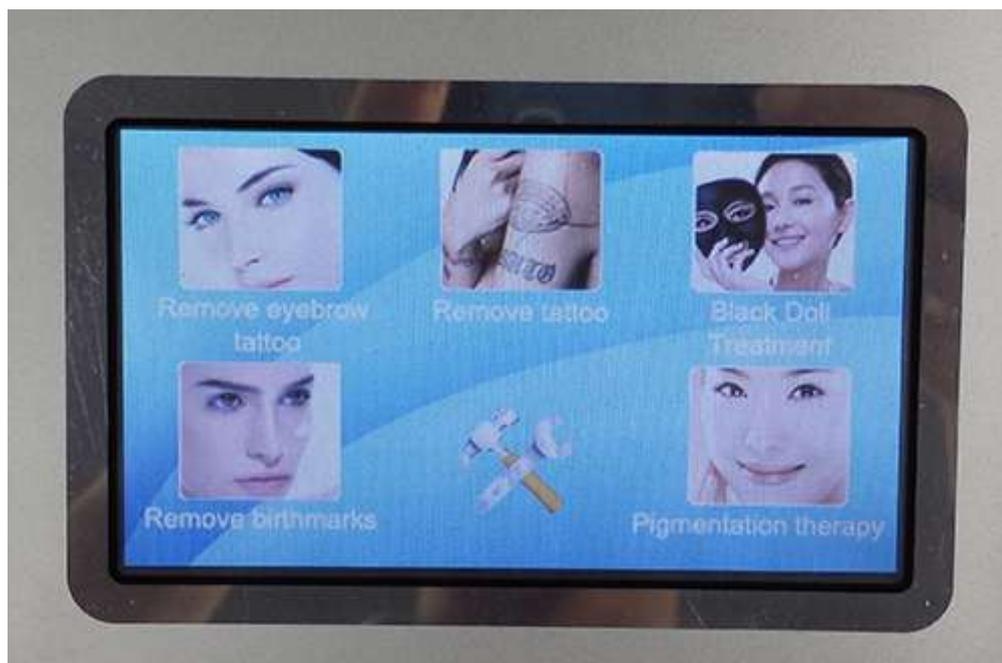
**1064nm(square)**

### **Features**

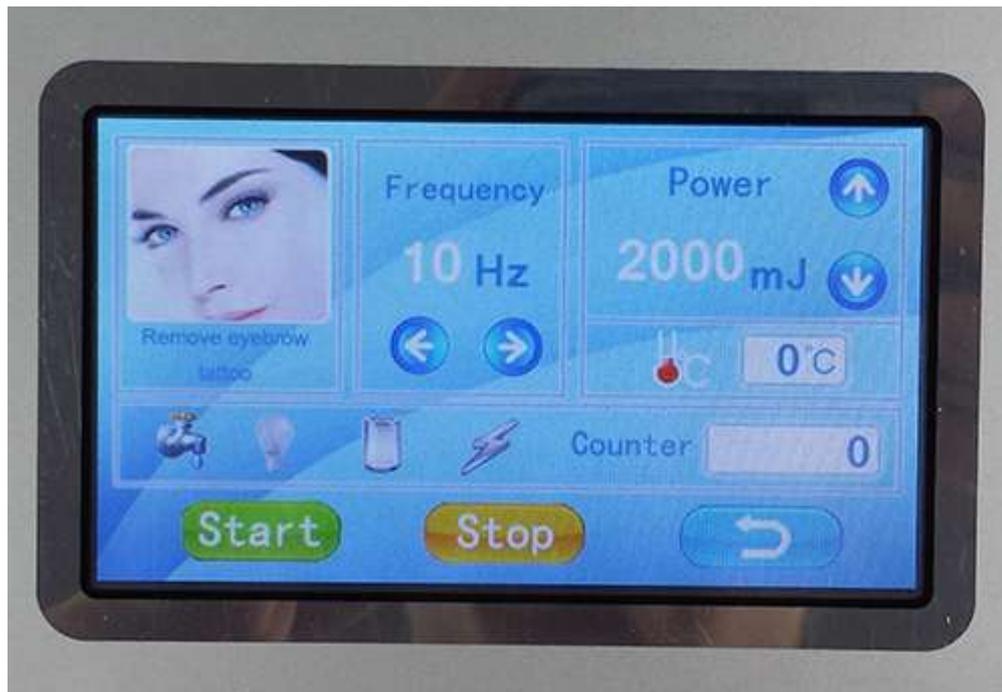
Moderate treatment ,no risk of scars and wound . It's the most moderate laser treat .  
No side effect ,no recovery time ,back to work at once .

### **2. Operation**

Install the correct probe on the handle ,turn on the key for ND-YAG laser ,the screen will show as follows :



Choice Laser system ,showing as follows :



## Pre-operation

1. Clean skin
2. Spread even cooling gel on treatment area, about 3-5mm.

## Operation Steps

- a. Filling water.
- b. Choose Treatment head: 1064nm or 532nm, Then fix it in the laser handle
- c. Adjust the power energy and frequency
- d. Open the direct-Light
- e. Click "Start" button, now treating
- f. After finish treatment, click "Stop" button. Then click "Return" to the mode selection interface.

**Attention:** During the treatment, Patients should be coordinated with operator, Don't move, do not open eyes, The distance between probes and treatment area is about four fingers (about 12cm), the laser handle should be perpendicular to treatment area.

## 3. Skin care after treatment

### Uncomfortable Symptoms in 3-5 days after treatment

1. The face will be redness or become swollen, which is a role of heat that will promote collagen re-growth. Pay attention: never make ice cooling at this time, just wait for 20-60 minutes, they will be gradually disappeared.
2. The skin is very dry, so you have to pay more attention to keep moisture of skin.

3. Some people will have a little allergic to carbon powder; you can rub some external medicine.

### **Cosmetic and skin care products**

1. Do not clean face with too hot water and irritant clean products;
2. Choose some moisture lotion and sun protection lotion for skin care;
3. Use some moisture essence, such as Hyaluronic Acid, B5 for skin repair

### **Daily Life**

1. Do not go to High temperature places in 3-5 days after treatment, such as sauna, Hot spring, sunbathing
2. Do not smoke, drinking, stay up all night
3. Pay more attention when make-up remover.

### **4. Compare Effect**

#### **pigment removal of eyebrow**

before



after



#### **tattoo removal**

before



after



#### **birthmark removal**

before



after



#### **pigment removal of lipline**

before



after





**IV. Taboos(who are not suitable to use this machine?)**

- a) Pregnant
- b) Isolation in the sun
- c) Sensitive to light or medicine, or are taking medicine that sensitive to light
- d) Using vitamin within 6 months
- e) Not representative naevi or malignant pathological changes in the treatment area.
- f) Pacemaker or quiver dispelling device user
- g) Herpes or trauma
- h) Pimple record
- i) People who accept Hirudin etc. treatment (should stop using it before 2 weeks).
- j) Severe diabetes patient, high blood pressure sufferer, and epileptic

**V . Technical Parameter & Packing List**

**★ Technical Parameter**

<b>IPL system</b>	
Handle mode	Filters handle, sapphire handle and high power handle

Spot size:	8*40mm <sup>2</sup> , 10*30mm <sup>2</sup> or 15*50mm <sup>2</sup>
Energy density:	1-50J/cm <sup>2</sup>
Pulse frequency:	1~4S, adjustable
Pulse number:	1~6, adjustable
Pulse space:	05~99ms, adjustable
Sub-pulse width:	0.1~9.9ms, adjustable
Handle cooling temperature:	-10 ℃~0 ℃, adjustable
Power:	1600W (Elight ) ; 1200W (Laser)
Lamp longevity:	100,000shots (IPL) , 500.000shots(Laser)
Language	English,Spanish,France .Italian ,German,Chinese
<b>RF system</b>	
RF frequency	10MHZ
Energy density:	1-20J/cm <sup>2</sup>
Output mode:	Bipolar
Energy	2~300J, adjustable
Handle cooling temperature:	-10 ℃~0 ℃, adjustable
Cooling system:	Air + Water + Semi-conductor cooling
Screen	8.4 inch true color touch screen
Power supply	110/240V+10% 60/50Hz
Size	75*48*120cm
Weight	69kg
<b>Laser Parameter</b>	
Laser type	sapphire + ruby switch Q/KTP/YAG laser instrument

Laser wavelength	532nm/1064nm Professional black moppet head
Pulse Energy	2000MJ
Width of pulse	10-20ns
Frequency	1~10Hz
YAG Bar Size	∅ 6
Spot diameter	1-5mm Continuous adjustable
Cooling system	Wind + Water + Semiconductor +cooling
Light source	220V/110v 50Hz/60Hz

### ★ Packing List

Main Device	1pcs
Elight & Laser Handle	2pcs
RF Handle	1pcs(*3)
Water Funnel	1pcs
Protective Eyepatch	1pcs
Protective Glasses	1pcs
Holder	1pcs
Stay Holder	2pcs
Fuse	2pcs
Power cord	1pcs
User manual	1book

## VI. Question & Answer

### Q: Therapy risks?

A: Uses the function of RF, energy decreased, the risks are also greatly reduced accordingly. Can fully guarantee the safe of patient. The cooling handle head can also protect skin, so patients will feel more comfortable during treatment.

### Q: The advantage of hair-removing ?

A: It's fastest, the most efficient, safest, easiest for operation and the most economical. Using to do hair remove, combining the light energy and radio-frequency, which can

be worked on the role and dry hair follicle, in spite of the hair color-----even white hair can effectively eliminate.

**Q: What is E-Light?**

A: It is the first and only technology that simultaneously harnesses the power of bi-polar radio frequency (RF) and optical energy (either laser or light).It can tender skin, remove freckle, remove hair and wrinkle obviously and stably. An E-Light therapy equivalent of 5-10 times of traditional photon therapy. E-Light has three main points: RF+IPL+epidermal cooling.

**Q: What kinds of dermatitis can E-Light treat? How’s the effect?**

A: E-Light has a wide range of light therapy, almost covers all of the former ones, including: lifting, rejuvenation, hair removal, remove rough skin, tender skin, sunburn, age pigment and freckles etc. Further more, E-Light has more effective treatment on flipperty - floppery skin, especially on the neck relaxed skin.

**Q: E-Light applies to which kinds of people?**

A: The people who want to get the following result: Improve the body shape or remove stubbornly cellulite, lift and firm skin. Especially for the ones after liposuction, to accelerate postoperative recovery, compact skin and improve skin condition.

## VII. Maintenance of Machine

### I 【precautions】

- 1) No stress on the touch - LCD, prevent it from breaking up;
- 2) Keep the handle clean. It’s not allowed to clean it with ethanol;
- 3) The handle is fragile, please do be careful when you pick up the headpiece;
- 4) Change water 10-15 days. make sure water circulate normally before you start the treatment.

### II 【Analysis On Simple Malfunction】

1.  **No power supplied**  
Please don’t worry. You can DO AS following the sequence below to find out what the problem is.
  - ① Check up whether there is power supplied from electrical source.
  - ② Check up whether the power line is connected well.
  - ③ Check up if the emergency switch is on
  - ④ Check up if the inside electricity line is connected well
  - ⑤ Check up the fuse, which could be pulled out at the bottom of hole for power plug.

2.  **The probe is not cold**

Check up whether there's water in water tank

- ① and make sure water circulates normally
- ② Check up the direct power supply switch.

 **3. The xenon lamp is not on:**

- a. The lamp is exhausted; the lamp broken down.
- b. Poor contact ( anode and cathode line)
- c. Simmer board broken down

 **4. Only LCD screen displays, but can't enter into the treatment menu.**  
Touch LCD screen broken down

## VIII. After-sale Service And Maintenance

The term of maintaining guarantee is main device 1 year and spare part 3 months from the date of purchasing according to the receipt. (Expendable is not included in it.) Others not included in maintaining guarantee or over the time, we also supply to maintain and renew but need charges. Please contact with the dealer if need change of purchasing the parts and easily expendable products.

**A.** We will guarantee the quality of our equipment, normally there is no quality problem

1. If there is a deficiency, please email or call us on the reasons, it would be best to dealt with by email or telephone. Because some of the problems are caused by using the machine in a wrong way.
2. We suggest the client to take photos of the area where the problem occurs, we will pass them to our technician , our technician will give a satisfactory answer within 1-7 working days
3. If the problem comes from the spare part within the warranty, we could consider in changing the spare part to our client, which could be sent with his/her next order. If the next order is uncertain, we could pay freight cost to send the spare parts.
4. If the problem comes from the main device within the warranty, we could advice our client to post the device back to our company for repair by ordinary post, or we could re-send a new one to our client. If the cost of posting the problematic device back to BEST is more than the value of a new device, BEST would take it into consideration, according to the actual status; apply to re-send a completely new device back to our client.

**B.** We won't supply maintaining guarantee if troubles as below:

- a) Disassembling the machine by self;
- b) Fall it without caution;
- c) Lack of reasonable keeping and protect;

- d) Not operate according to the user manual.
- e) Expendable reasons

If changes of the design and specification of the machine, we will not notice you in addition. If any queries, please feel free to contact with the local marketing company.

All in one, we will try our best to serve you and also need your fully cooperation. Thanks.

<b>Product name :</b>		<b>Purchase date:</b>	<b>deadline:</b>
<b>Seller:</b>		<b>Add.:</b>	<b>Tel.:</b>
<b>Customer:</b>		<b>Add.:</b>	<b>Tel.:</b>
<b>Repair date</b>	<b>Reason of the fault</b>	<b>Repair content</b>	
<b>Maintain list</b>			

Ps: Please refer to the actual product, this manual is only a reference.

