



# EVO IPL & SHR & E-light Machine

2 Hand pieces + 12 filter handle

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## User Manual



Thank you and congratulations on your choice of the  
EVO IPL & SHR & E-light Machine.



Before Installing or Operating this equipment, please read these instructions carefully, and keep near the device for future reference.

### **Manufacturer's Disclaimer Statement**

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# Chapter 1 - Introduction of EVO IPL&SHR&E-light Machine

## 1.1 Treatment Principle

### IPL

IPL technology is a type of Intense Pulsed Light that generates intense bursts of red or blue light. These heat the dermal tissue without harming or removing the outer epidermal layers of the skin. The body's natural processes then work to break down and remove these marks. The appearance of any skin imperfection is then visibly reduced.

### SHR

SHR stands for Super Hair Removal and it's the latest breakthrough innovation in IPL technology to launch onto the ever-advancing beauty and aesthetics market.

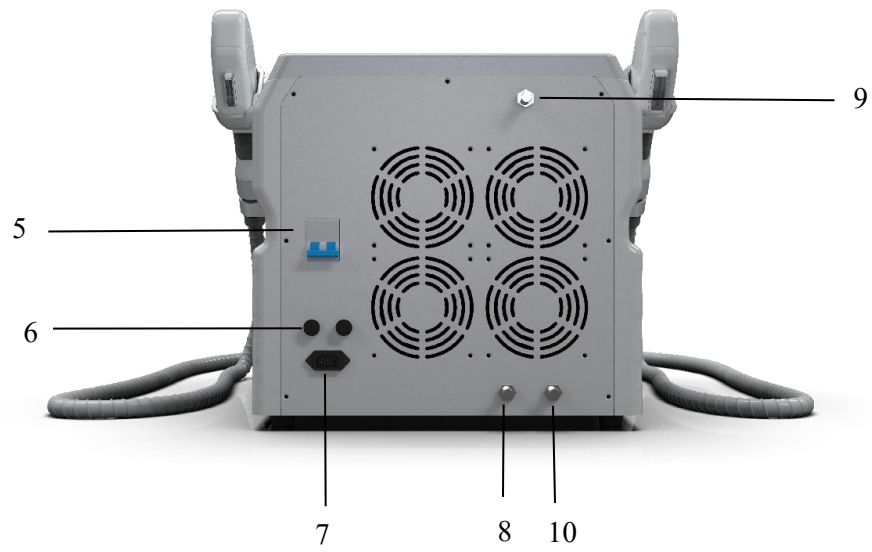
### E-light

E-light is IPL and Radio Frequency, while doing IPL treatment, radio frequency energy is output from the metal splints on both sides of the IPL treatment head, which has the effect of lifting and tightening.

## 1.2 Device Structure

The machine structure consists of the following units:





1. touch screen 2. handpiece 3. key switch 4. emergency stop button 5. leakage protection	6. fuse 7. power connector 8. outfall 9. water inlet 10. vent
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# Chapter 2 - Safety and Compliance

## 2.1 Client Safety

Client's safety mainly depends upon well-trained operators, client consultation, correct skin analysis and a suitable treatment room. The attending operators must inform the client of all the risks with the use of this device. Clients should be instructed to wear protective glasses or other tools (black out goggles, eye shield etc.) to protect the eyes during treatment.

## 2.2 Beam Reflection

To perform measurements to avoid reflections of the light that may lead to assessment hazards, it is recommended that the following minimum measures should be taken:

- ♦Windows and shutters should be non-reflective, and may require fire protection when using higher power light.
- ♦Walls, ceilings and accessories should be painted with light-colored matte paint to enhance lighting and reduce specular reflections.
- ♦Avoid using reflective surfaces, such as cabinets with glass panels.
- ♦Make sure to cover any reflective surfaces when necessary.
- ♦Keep the optical trolley away from debris, take out jewelry, watches, etc.

The lighting in the operating room should be sufficient to allow the operator to observe the skin reaction and perform the operation.

## 2.3 Safety Precautions

- ♦Please make sure to turn off the instrument when you clean the handle.
- ♦Never emit light onto an area not to be treated.
- ♦The emergency cut off switch is used to shut down the device in case of any emergency. After engaging the emergency shut off button, turn the device off by rotating the key in a counter clockwise direction.
- ♦Rotating the emergency cut off switch in the direction indicated by the arrows will release the button.

## 2.4 Electric Safety

To ensure safe use, the rated voltage of the operating system is 220V, the maximum input current is 10A or 110V, and the maximum input current is 15A. This machine is equipped with an automatic leakage protection device. When a leakage occurs, the machine will automatically cut off the protection system.

## 2.5 Fire Prevention

- ♦The light device generates thermal energy. Avoid using combustible material such as acetone or alcohol near the device.
- ♦If alcohol based products are used to disinfect the device, ensure that the alcohol has completely evaporated prior to operation.
- ♦Flammable and explosive objects, anesthesia, drugs, alcohol, gas etc, should be removed from the treatment room.

## Chapter 3 - Installation Procedure

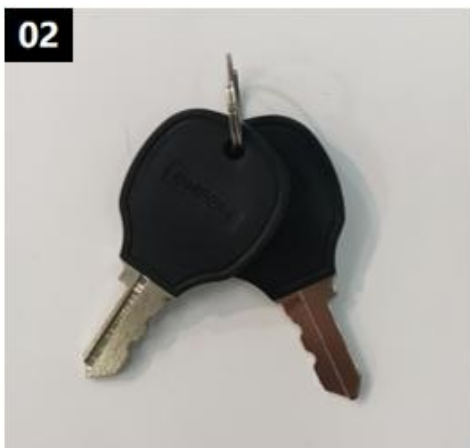
The process of installation includes:

- ◆Unpacking the device and checking contents.
- ◆Assembly of its components and ensure that all connections are firmly in place.
- ◆Fill the water tank with distilled water only.
- ◆Connect the power cable.
- ◆Switch on the device and test all functions / parameters of the system.

### 3.1 Accessories List

Unpack the unit, remove all packaging material, and examine for damages.

Do not proceed with installation if unit is damaged.



1. Laser glasses	5. Power cable
2. Keys	6. Goggles
3. Rings	7. Fuse
4. Funnel and tube	



**IMPORTANT ATTENTION:** Please keep all packaging for safe storage and in case of any warranty returns or servicing.

It is forbidden to open the machine and tear down all the components without any authorization.

### 3.2 Installation Requirements

Place the equipment according to the requirements below:

- ◆Treatment Room Temperature: 10°C~30 °C
- ◆Relative humidity: ≤75%
- ◆Air pressure: 860-1060hpa
- ◆Power requirement: AC 220v±10%; 50Hz±2% ;
- ◆Water: Distilled water

### 3.3 Installation of the handle

Below are picture by picture steps on installing the handle:



Align the handle and connector as indicated by the arrow.



Tighten the knob in the direction of the arrow.



Install the two handles as the picture shows.

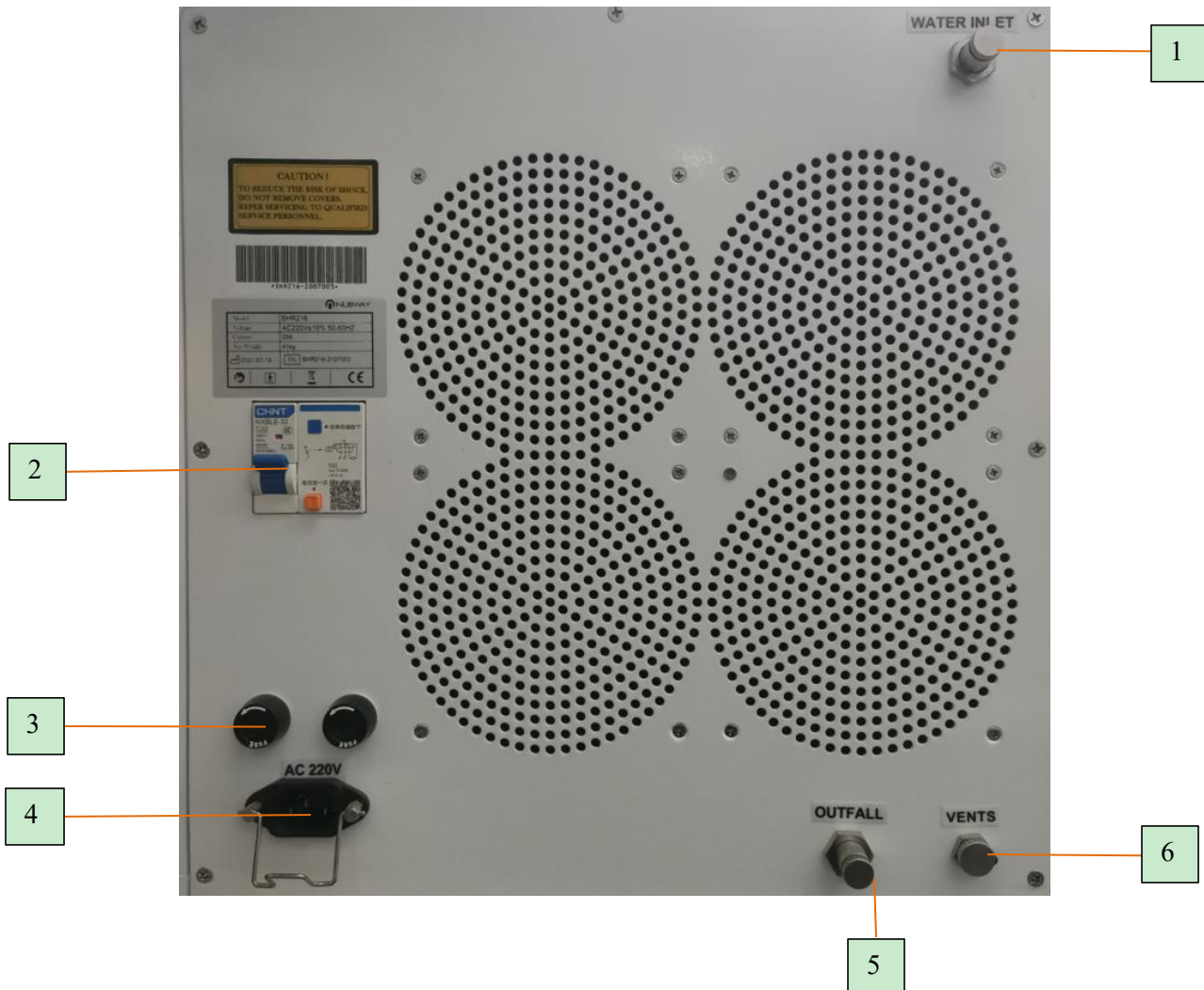
### 3.4 Filling the Cooling Water Tank



**CAUTION:** Operating machine when the water tank has no water or has not enough water is absolutely prohibited!

#### 3.4.1 The overview of the machines' back

Picture of the back of the machine



1. Water inlet. Attach hose onto inlet to fill machine with water.
2. Leakage protection. Main Power Switch.
3. Fuse. Avoid serious injury caused by internal failure of the machine.
4. Power supply socket. Mains cable goes into here.
5. Outfall. Water outlet, water comes out when emptying the machine.
6. Vent. Excess water comes out whilst filling up tank.



**CAUTION:** Only use distilled, de-ionised or pure water in this device, DO NOT use tap or bottled drinking water

We advise pure water, because normal water has scale, using normal water will result in:

- ♦A risk of blocking the water pipe.
- ♦Potential burn out of cavity.
- ♦Weakening the power.
- ♦Invalidate any warranty.

### 3.4.2 Procedure for injecting cooling water



**Step1.** Remove the screw caps of the water inlet and vent, and place a water container under the water outlet.



**Step2.** Connect the soft end of the water pipe to the water inlet and pour the water into the machine. Carefully pour distilled water into the funnel. Lift the funnel above the machine to facilitate filling.



**Step3.** Water will flow out of the vent. This means that the water injection has been completed and the water tank in the device is now full of water.



**Step4.** Tighten the vent and water inlet nut.

### 3.5 Connect Power Supply



Connect one end of the mains lead to the rear of the machine, and insert the plug into the mains outlet.

### 3.6 Leakage Protection



**OFF**



**ON**

After the mains lead is connected, flick the Leakage protection upwards and the machine is now ready for use.

**NOTICE:** Once the machine is turned on allow the water to properly circulate for 5 minutes before entering precombustion mode.

# Chapter 4- Operational Procedure

## 4.1 Requirement for Operators

- ♦The operator should be aware of the expertise required to use a the machine, should be trained to meet local and national laws and adhere to best practice for the country the machine will be used in.
- ♦Complete Core of Knowledge Training.
- ♦Have full insurance that covers Public Liability, Contents and Treatment Risk insurance.

## 4.2 Safe Operation

Make sure the operation room is clear when operating the equipment.

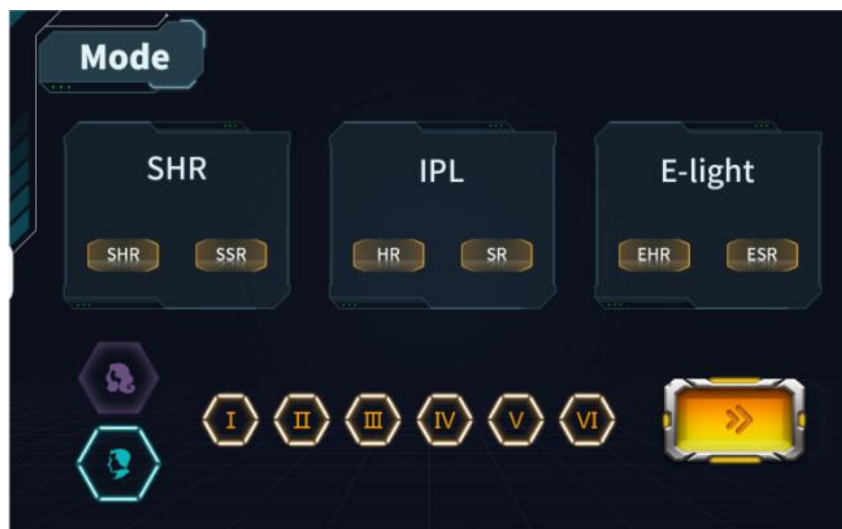
- ♦The illumination in the operating room should be sufficient, so that the operator can observe skin reaction and perform the operation.
- ♦Don't use any reflective surfaces while you use the light machine.
- ♦The operator must carry out a full consultation before any treatment and be informed about any diseases and symptoms of the clients and tell them the possible normal responses during and after operation.
- ♦Operators must keep the light away from non-treated areas.
- ♦Operators must make sure the clients eyes are properly protected with the correct goggles/glasses for the specific treatment wavelength being used for treatment.

## 4.3 Examination

Examine to make sure the equipment is installed according to the installation instructions and requirements. Check the water level is normal and the working environment is suitable.

## 4.4 Specific Functions

There are three modes with different functions.





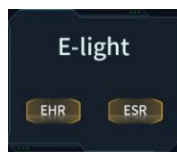
## SHR

This mode can be used for hair removal and skin rejuvenation, mainly for rapid hair removal treatment. The sliding operation is used for large skin treatment areas with relatively gentle energy.



## IPL

This mode can be used for hair removal and skin rejuvenation, mainly for targeted skin rejuvenation. The use of fixed-point treatment, targeting different parts and small areas, requires more energy than the SHR mode, and the effect is remarkable.



## E-light

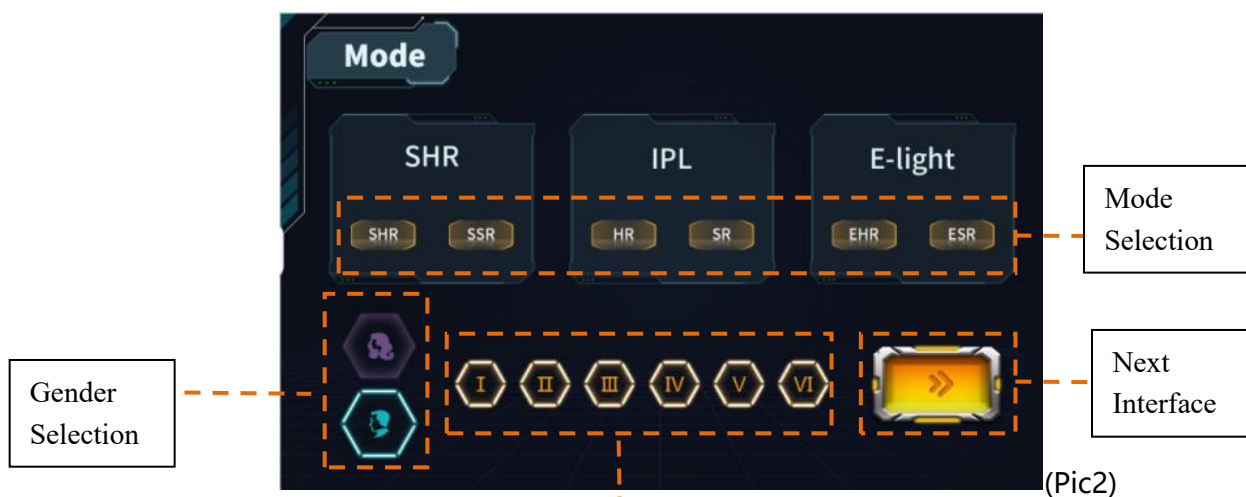
This mode can do skin rejuvenation and lift. It can be used in conjunction with IPL skin rejuvenation treatment to help lift and firm the face.

## 4.5 Interface Operation

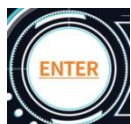
After turning on the machine, you will see the following operation interfaces(Pic1).









(Pic2)







Skin Color Selection

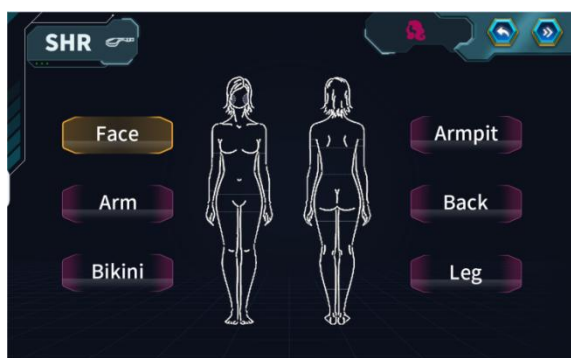
Click the  button of welcome interface (Pic 1) to enter next interface of 3 treatment modes(Pic 2). Choose the treatment mode which you would like to use, and set gender and the skin color, then click the  to enter the next interface.

#### 4.5.1 SHR mode

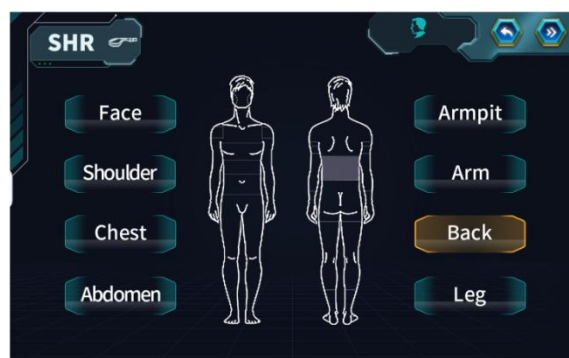


There are two modes: SHR and SSR. , select one of them according to customer needs and enter the operation interface.

If you choose SHR, then you will see the interface like (Pic3 or Pic4), then you choose the body part and click  to enter the parameter setting interface(Pic5), and click  then click  to start treatment.



(Pic3)



(Pic4)



(Pic5)

If you choose SSR, you will see the following interface(Pic6).



(Pic6)



Click to reduce or increase the energy.



The pulse width can be adjust here . Click the plus or minus sign to adjust it.



The frequency can be adjust here . Click the plus or minus sign to adjust it.



Click the small triangle then you can see the cooling level of the handle



, you can click the number to choose it.






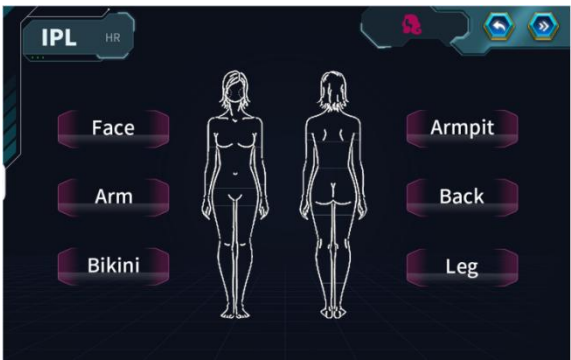
4.5.2 IPL mode



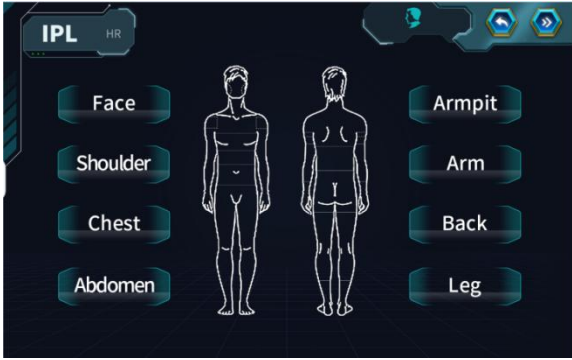
There are two modes: HR and SR. ,select one of them according to customer needs and enter the operation interface.

If you choose HR, then you will see the interface like (Pic7 or Pic8), then you choose the body part and

click  to enter the parameter setting interface(Pic9), and click  then click  to start treatment.



(Pic7)



(Pic8)





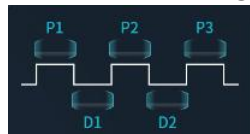
(Pic9)





If you choose SSR, you will see the following interface(Pic10).



(Pic10)

Click   to reduce or increase the energy.



The pulse width can be adjust here . P1, P2, P3 means pulse width of the sub-pulse. D1, D2 means the pulse delay. And here  pulse means the number of sub-pulse. Speed  means the interval between the lights. Click the parameter which you would like to adjust, and click the plus or minus sign   to adjust it.

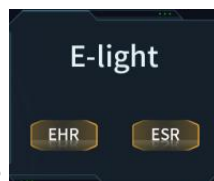


Click the small triangle then you can see the cooling level of the handle






, you can click the number to choose it.

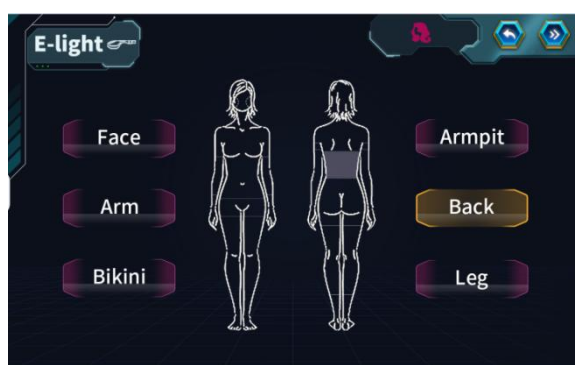
### 4.5.3 E-light mode



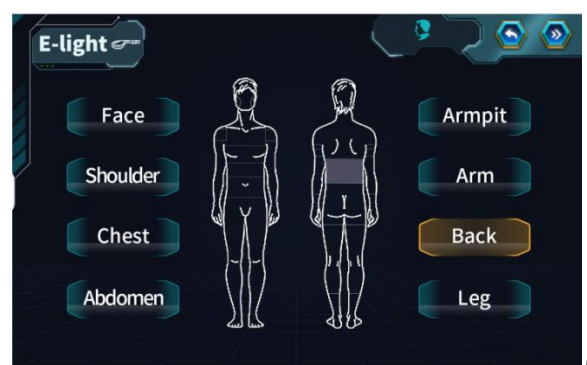
There are two modes: EHR and ESR. ,select one of them according to customer needs and enter the operation interface.

If you choose EHR, then you will see the interface like (Pic11 or Pic12), then you choose the body part and

click  to enter the parameter setting interface(Pic13), and click  then click  to start treatment.



(Pic11)



(Pic12)





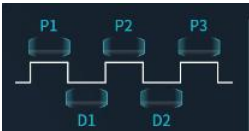




(Pic13)


If you choose ESR, you will see the following interface(Pic14).




(Pic14)

Click   to reduce or increase the energy.

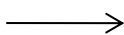
The pulse width can be adjust here . P1, P2, P3 means pulse width of the sub-pulse. D1, D2 means the pulse delay. And here  pulse means the number of sub-pulse. Speed  means the interval between the lights. Click the parameter which you would like to adjust, and click the plus or minus sign   to adjust it.

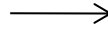
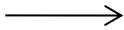
Click the small triangle  then you can see the cooling level of the handle

, you can click the number to choose it.

**NOTICE:** After setting all the treatment parameters, press the STANDBY button to enter the precombustion mode, The STANDBY button will light up in yellow. Press the REDEADY button, then it will turn yellow and the power button will light up green.

Both can be seen below:





## 4.6 Treatment Operation

### Step1. Preparation of the treatment

- ♦Fully communicate with customer. Understanding the guest's needs, physical condition (whether there are injections, whether skin care products containing hormones are used, whether they have been exposed to the sun recently), take photos, and fill in customer information files.
- ♦Check if the instrument is working properly, clean the handle before treatment.
- ♦Explain to clients how they might feel during treatment.

### Step2. Clean the skin and wear goggles for guest

- ♦Clean the treatment area with towel and the saline, make sure that there is no make up on the surface.
- ♦Shave the hair from the treatment area
- ♦Wear the goggles for the guest.

### Step3. Turn on the machine and do the experimental spot

- ♦Turn on the machine and select the mode you need and adjust the parameter. Adjust instrument parameters according to the treatment item. After adjusting the parameters, emit 1or 2 light spots on the ground (to avoid that when the instrument is lowered from high energy to low energy, the high energy has nowhere to be released, and it is easy to have too much energy when it directly acts on the skin), and then test it on the customer's jaw or behind the ear, wait 1-2 minutes to see the skin reaction, and decide whether to continue the operation and adjust the parameters.
- ♦The following picture shows the suggested parameters for the different kinds of symptom.

SHR Mode					
		Energy	Frequency	Pulse width	Times
HR	dark skin&thick hair	6-10	2-3	5-7	
	white skin&fine hair	8-13	3-4	5-7	
SR		8-11	2-3	5	2-3
★HR operating speed: slide back and forth 5-6 times in the skin at the length of the spot, so that each spot is repeated 3-4 times.					

IPL Mode		
		Energy
HR	dark skin	13-15
	white skin	15-23
SR	dark skin	8-13
	white skin	13-18
<p>★ Freckle removal: On the basis of skin rejuvenation, increase the energy by 2-3, only for the spot.</p> <p>★ Acne: It is recommended to increase 1-2 energy on the basis of skin rejuvenation.</p>		

◆Click the STANDBY button and then click the READY button, then begin the treatment.

**NOTICE:** Suggested parameters are for reference only. Please adjust the energy from low to high according to the user's feeling during the operation.

# Chapter 5 - The Operation of the machine

## 5.1 Treatment Notice

### Before treatment

- ♦Fully communicate with customers, understand their needs, physical conditions (whether) there are injections, whether skin care products containing hormones are used, whether they have been exposed to the sun recently), take photos, and fill in customer information files.
- ♦Check whether the instrument is working properly and clean the lens before treatment.
- ♦Explain the feelings during treatment.

### In treatment

- ♦Apply the gel to the operation area, the gel needs to be spread evenly.
- ♦Both operators and customers need to wear glasses.
- ♦The light outlet of the treatment handle is gently attached to the skin, and always keeps it vertical to the skin (tilting can easily cause energy to concentrate on the epidermis, which is easy to burn.)
- ♦Choose sliding or fixed-point treatment according to the area and treatment items (sliding treatment is recommended for large-area hair removal and small-area hair removal, skin rejuvenation, freckle and acne removal, red blood is recommended for fixed-point treatment.)
- ♦During the operation, always pay attention to the skin reaction of the guests, and adjust the treatment parameters in time.
- ♦Inquire about the client's feelings during the treatment process and communicate in time.

### After treatment

- ♦Apply repair products to repair in time.
- ♦Explain the precautions after treatment and make an appointment for the next treatment time.
- ♦Turn off the instrument and record the parameters used by the guests.

## 5.2 Precautions after treatment

- ♦Do not use hot water on the treatment area on the day after the treatment, clean it with warm or cold water.
- ♦Don't soak in hot springs and saunas within a week, do not rub the treatment area.
- ♦Do not eat spicy food, seafood, or photosensitive food within three days.
- ♦After the skin rejuvenation and freckle treatment, a lot of water needs to be replenished, and a moisturizing and repairing mask should be applied continuously for a week, and do not use functional skin care products.
- ♦Be sure to pay attention to sun protection: After treatment, the metabolism of melanin is accelerated, and melanin is more active, which is easy to cause pigmentation.
- ♦If there is a scab after treatment, be sure to let the scab fall off naturally to avoid leaving pigmentation.
- ♦If the operation area is red after treatment, ice compress and apply repair gel in time.
- ♦If an inflammatory reaction occurs, repair drugs such as repair cream or growth factors can be applied.

### 5.3 Clinical manifestations

◆Hair Removal: The light hair is slightly hot, slightly thorny, the hair has a slightly muggy smell, curly, and the skin is reddish. Deep shaggy hair is slightly hot, slightly thorny, and curly, and has a burnt smell, hair follicles protruding, and the skin is reddish.

◆Freckle removal: slight heat, slight thorns, and the skin is reddish. The spots darken and crust over.

◆Removal of red blood: slight heat, slight sting, and the skin is reddish. The blood flow of the red blood is slowed down and the color is deepened.

◆Skin Rejuvenation and Acne Removal: Slightly hot and slightly thorny during operation, and the skin becomes reddish after the operation.

### 5.4 Taboo crowd

◆Those who during pregnancy and lactation.

◆Those who have been exposed to sunlight within the past 1 week.

◆There are open wounds and infected wounds in the operation area.

◆Those who have recently taken photosensitizing drugs or are allergic to light.

◆Severe scar constitution (proliferative scar constitution).

◆It is forbidden to operate the upper eyelid and lips.

◆Those who suffering from skin diseases (psoriasis, vitiligo, etc.).

◆People who are in an allergic period.

◆Epilepsy patients, severe heart disease patients, diabetes patients, high blood pressure patients.

◆Those who use functional products should stop using them for one month before they can operate.

They cannot use functional products during the treatment period.

◆Those who have undergone micro-injection within one month, avoid the injection area.



## Chapter 6 - Maintenance of EVO IPL&SHR&E-light Machine

For assuring a safe and reliable operation, periodic maintenance and good care are very important. This section describes daily and other regular maintenance of the machine that can be carried out by the operator.

### 6.1 General Cleaning

Clean the outer part of the equipment regularly with soft damp cloth or microfibre cloth. You may also use a neutral detergent, and alcohol free wipes. You should clean the lens regularly after use.



You should clean the output lens once a week or when required such as during and after Carbon facial as there may be a carbon build up on the lens after treatment.

The output lens should always be free of dirt and attachment.



**Warning !**

**It is strictly prohibited to check and clean output lens during machine open!**

### 6.2 Test the Leakage Protection

This product is equipped with a leakage protector. You should test whether the leakage protector is effective every month. Press the button on the leakage protector. If the protector is activated, it means it works effectively.





### 6.3 Regular Cooling Water Changes Are Required

The frequency of water change depends on the usage:

- ◆ If the machine runs every day, the water should be replaced every 2/3 months.
- ◆ If the machine runs once or twice a week, the water should be changed every 6 months.
- ◆ No matter whether the machine is used or not, the cooling water must be replaced once a year.
- ◆ After changing the water, you must allow the water to circulate normally for 5 minutes.
- ◆ If the temperature in the treatment room is lower than 2°C, all cooling water in the device must be drained and replaced with new cooling water.

**PLEASE NOTE:** Only use distilled, de-ionised or pure water in this device. Bottled or tap water is not suitable to use, as the impurities in the water will cause scale build up which will affect the normal workings of the device and cause irreparable damage which will void any warranty.

### 6.4 Transport, Storage and Moving

- ◆ Minimize transportation, because the risk of damage to the equipment is greater.
- ◆ When moving or storing, please keep and use the original packaging.
- ◆ If you move to another treatment room, please keep the equipment level when moving.
- ◆ Be careful when storing and using, taking care to avoid knocks, collisions, squeezing and vibration. And the machine needs to be reset after each use and stored in dust proof.
- ◆ Before long-distance transportation, the cooling water in the water tank should be drained. When moving or storing, keep and use the original packaging. Don't move the device unless necessary. If you move to another treatment room, keep the equipment level when you carry it.
- ◆ Avoid machine moisture condensation; ensure the safety and service life of the machine.
- ◆ 220V/110V, 2000W voltage stabilizer should be installed to prevent voltage instability and pulse interference from causing damage to the machine.
- ◆ Before starting the machine, please make sure that the air-cooling and water-cooling systems are working properly.

- ♦The machine should be placed in a room with a temperature higher than 20°C, and stay for at least 6 hours before use.

## **6.5 Troubleshooting Guide**

This section outlines the most basic troubleshooting steps for the machine.

### **6.5.1 The machine will not start**

- ♦Check the power supply has electricity and the attaching plugs are securely inserted both ends and socket is switched on.

- ♦Check the red emergency button is released.

- ♦Check key is in correct position.

- ♦Examine fuse and replace if necessary.

### **6.5.2 The water cycle is abnormal when you start the machine**

- ♦Check the water level, if there is not enough water inside to cycle properly this will trigger the water level cut- out switch.

- ♦Replace the cooling water inside as per instructions.

### **6.5.3 There is no beam output when you press the button**

- ♦Check that the machine is in the correct working state.

- ♦Check the cable and connecting plug for damage, if any part is damaged contact us for a replacement.

- ♦Check the ready key is pressed.

### **6.5.4 The energy becomes weak or there is no light that comes out**

- ♦Any impurities adhered to the treatment lens will lead to blocking the light, please check the lens. If there is any pigmentation, dirt or dust etc.; clean as directed.

- ♦You must stop working and not use the machine in 30 minutes if the apparatus has overheated.

- ♦Examine the optical lens to see if it is damaged.

### **6.5.5 You may get an electric shock when you touch the machine**

- ♦You should use the three grounding plugs and the electrical outlet must be correctly earthed.

- ♦The voltage is unstable, you should introduce a voltage stabilizer.

### **6.5.6 There is no noise when you press the preheating key.**

- ♦Please raise the temperature appropriately if indoor temperature is too low. You can install air conditioning.

- ♦The fans are broken or the fans have friction with other parts. Please change a new fan or clear the fans obstruction.

- ♦The indoor humidity is too high, keep the room dry.

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