

# E-LIGHT

Model No.: AS-200



## Operating instructions

## **1、 Product Introduction**

Ice beam skin softer is a beauty equipment combining the most popular facial care terms at present, which has a significant clinical effect and has been proven to safely and effectively apply to different skin types and skin complexion.

Applying the most advanced technologies in the field of optical beauty, smart and fast painless hair removal machine could solve two traditional difficult problem of hair removal slowness and pain, it brings revolutionary change in the optical hair removal field, making the customer enjoy easy and comfortable hair removal.

## **2、 Technological Advantages**

- Latest technique of mobile light therapy, fast and efficient.
- Latest single pulse technology, 640-1200nm band, hair removal easy and comfortable.
- Latest plug and play butt joint, separate water and electric design, more secure and easy to install.
- Perfect combine of large capacity stainless steel tank and industrial radiator, it provide water cycle cooling system which satisfies customers' continuous treatment demand.
- Nine operating languages suit to different colleagues in different countries.
- Water flow and temperate self- testing system and self-correcting system to guarantee safe operation.

## **3 、 Technical Principles**

E-light technology: Aimed at entire dermis and connective tissue, IPL and Bipolar RF technology stimulates and makes the collagen in different depths rearrange and grow so as to achieve the therapeutic effect, while bipolar radio frequency simultaneously releases energy, making diseased tissues in epidermis and dermis produce light pyrolysis through skin's selective absorption of light energy. Because of energy it needs far lower than traditional IPL, it makes the pigmented and vascular diseased tissues in epidermis and dermis absorb more energy without skin damage and removes these diseased tissues, by which achieves therapeutic effect.

#### 4、 Range of application

- Hair removal: permanent hair removal, hairs through whole body(hairs in growing period, including tiny hairs with light color
- Freckle removing: removing freckles, chloasma, sunburn, age spots, acne marks and facial blemishes
- Skin Rejuvenation: improving large pores, rough skin, tiny wrinkles, and restoring skin elasticity.
- Telangiectasia treatment: redness, facial flush.
- Improving dull complexion to whiten and uniform skin
- Specifically eliminating red, brown, suntan and other colored tattoos.
- Effectively wiping out all kinds of eyebrow, embroider eyebrow, tattoos, eyeliner and lip liner.
- Treating pigmented skin lesions and mixed hyperpigmentation such as age spots, birthmarks, ota nevus, moles and so on.

#### 5、 Technical Parameters


Illuminant	IPL	Spectral Range	640-1200nm
Illuminance Area	8*40mm	IPL Energy	1-50J/cm <sup>2</sup>
Adjustable pulse width	2-99ms(E-LIGHT)		
Display Screen	8.0- inch color touch screen	Cooling system	Water cooling + semiconductor refrigeration, air cooling
Total Power	800W	Voltage	AC220V

## 6 、 Attachment Lists

Terms	Unit	Amount	Remarks
Main Engine	PCS	1	
Hand Tools	PCS	1	
Power Line	PCS	1	
Keys	PCS	2	
Blinder	PAIR	1	Used by customers
Protective Glasses	PAIR	1	Used by conductors
Water-injected Funnel	PCS	1	
Protective Tube	PCS	2	Standby
Rack	PCS	1	E-LIGHT
instructions	PCS	1	

Please check the items immediately with the attachment list after unpack, and contact our company in 24 hours if there is any missing or damaged term.

## 7、 Installation and debugging

Step One: Hand-tool installation	<p>1 Pick out rack screws and install E-LIGHT、 OPT racks</p> <p>2 Contact handpiece in handpiece interface tightly and appropriately and put handpiece on its holder.</p> <div data-bbox="555 1480 863 1637"> <p>Ensure the below and above blue buttons pop-up and the snap joint is tight and appropriate when connecting a handpiece, otherwise it will be easy to cause inefficient flow that will burns out hand tool.</p> </div> 	Key Step
Step Two : Apparatus	<p>1、 Screw off the sealing cap of injection hole and overflow hole.</p> <p>2 、 Screw water-injected Funnel in injection hole and inject</p>	Key Step

Injection	<p>water(pure water or medical distilled water)in machine, until water flows from the overflow hole.</p> <p>3、 Screwed on the sealing cap after injection is completed, and screw tightly the sealing cap of overflow hole while injection hole is not used.</p>	
<p>Step Three :</p> <p>Apparatus Debugging</p>	<p>1、 and ensure the waterway and circuit is connected accurately, then plug in the power line, turn on power switch behind the backboard and start up on the condition that joints do not leak.</p> <p>2、 Clockwise screw the sudden button and clockwise to unscrew the key switch and start the apparatus.</p>	<p><b>Key Step</b></p>

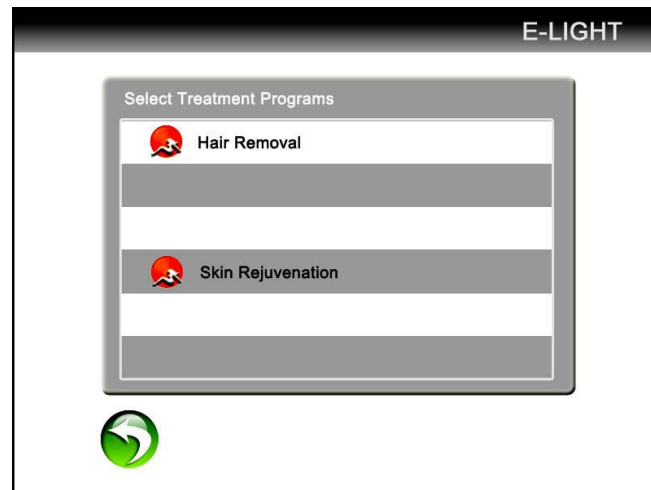
## 8、 Operating Instructions

After the machine started and system automatic testing, click home screen and enter function select.

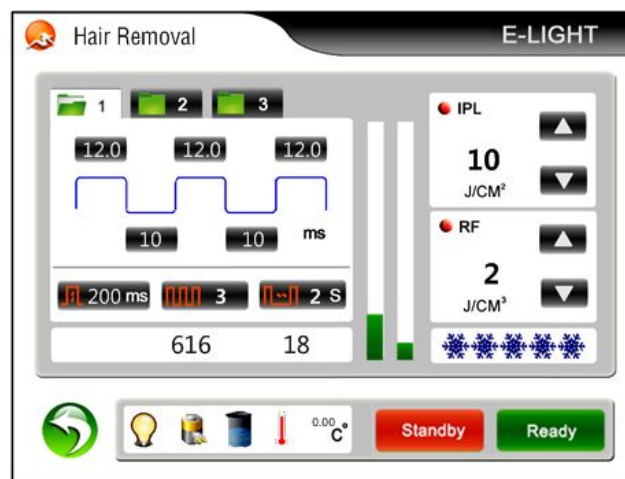


### 8.1、 Operating instructions of E-light functions

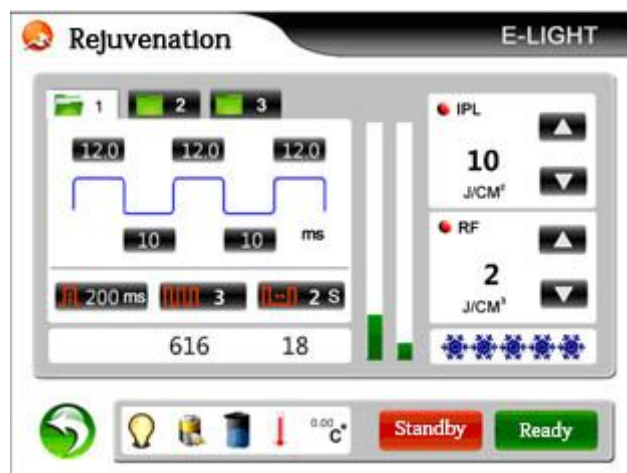
- ① Click E-LIGHT functions and enter select screen of treatment mode



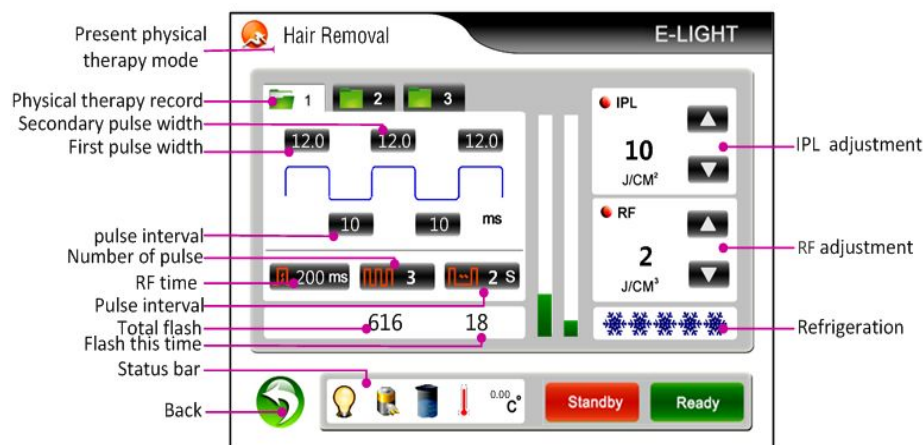
② Click the treatment mode, hair removal, and enter operating screen



③ Click the "rejuvenation" treatment mode, enter interface



#### ④Introduction to E-LIGHT operation interface



**Physical therapy record:** Physical therapy record can show the present record. Also, it can record different physical therapy parameter for different customers. Click the button to choose three different physical therapy records.

**Number of Pulse:** It refers to the number of pulse when the system is triggered to discharge. Increasing the number of pulse can make the light deeper function in the skin. Click the button to adjust the range from 1 to 5.

**First pulse width:** It refers to the time that the first hard pulse functions in skin. Click the button to red and press ▲ ▼ to set. Click the button to white to quit the setting.

**Secondary pulse width:** It refers to the time that the secondary pulse functions in skin. The button will not light under the condition of single pulse. Click the button to red and press ▲ ▼ to set. Click the button to white to quit the setting.

**Pulse interval:** It is the time between two pulses. Click the button to red and press ▲ ▼ to set. Click the button to white to quit the setting.

**RF time:** It is the time that RF functions in skin. The adjustment range is 50 to 2500ms. Click the button to red and press ▲ ▼ to set. Click the button to white to quit the setting.

**Total flash:** It refers to the total number of times of flashing.

**Flash this time:** It refers to the number of times that the machine flash this time.



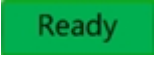
**Status bar:** It shows the stage of light, stage of charging, stage of water level and stage of water temperature.

**Back:** Click the button to back to the operation interface.


**IPL adjustment:** Click the button to adjust the energy output of IPL. The window will show the present energy value during the adjustment.

**RF adjustment:** Click the button to adjust the energy output of RF. The window will show the present energy value during the adjustment.

**Refrigeration:** Click the button to adjust physical therapy temperature. It totally has ten gears. The more the blue snow is, the lower the temperature is. No snows means refrigeration is closed.

**Ready:** Click  to start the machine. And press the handle into the lighting stage.

**standby:** Click  to stop the machine.

⑥Click  into background set:



- Click Language to choose language
- The keys Setting and Update are not allowed to click if you are not the engineer.

## 9、 General knowledge of operation

### 9.1 Taboo crowd

- Cardiac patients and hypertensive patients
- Pregnancy and epileptic patients
- Hypertensive patients and diabetics
- Light sensitiveness customer

- Customers who work long time in bright light and whose skin was sunburnt recently
- Customers who have changed skin recently
- Customers who are taking medicine like antioxidant and hormone

## 9.2 Preparation for physical therapy

- ①、Consult before operation and fill in files
- ②、Preparation: Prepare cold-set gels, scraper and safety glasses and preheat equipment
- ③、Operation procedure: Remove makeup—clean the face—scrap extra hairs—smear cold-set gels—facula test—physical therapy operation—cold compress—moisturizing—smear repair products

## 9.3 Announcements during physiotherapy

- ① Providing the clients with strict and effective eye protection( such as gauze and protective goggles)
- ② During operation, the use of gel is suggested to be 2 to 3mm and for the bareheads, the gel could form the perfect suction with the skin. Avoid pressing heavily or being dangling.
- ③ Slight discomfortable stinging and mild fever within the tolerant range is normal phenomenon.
- ④ The energy parameters are successively regulated for 2 to 3 according to the personal acceptability and cutaneous reaction. After operation, skin redness, exothermic reaction and slight stinging are normal phenomena and could be reduced by applying cold compress with 30 minutes. Pigment would be decomposed and extracted to the top layer of skin after cooling.
- ⑤ Clients with redness must carry out the first operation on the affected area with energy parameter at 15 to 18J/cm<sup>2</sup>. 5 minutes later, repeat the operation with energy parameter at around 25J/cm<sup>2</sup>. This process could repair cuticle cells and alleviate red blood symptoms. After the operation, the symptom of red blood might be more serious and would be alleviated after 10 days.
- ⑥ A few minutes after physiotherapy, skin with freckle and pigmented naevus may have hyperpigmentation phenomenon for pigment have been extracted to the surface of skin. The symptoms of freckle and pigmented naevus would be alleviated and disappeared along with

the metabolism after 3 to 7 days.

⑦ After physiotherapy, there would be a painful burning and stinging sensation on the skin. The skin might turn red slightly and the symptoms would disappear in half an hour(the symptoms may last for 1 or 2 hours for special individuals, esp.those with sensitive skin); within few couple days, there will be itching feeling which is a normal reaction to metabolism and can be relieved by moisturizing.

#### 9.4 Announcements during physiotherapy

① Cooling, cold compress, cold spray and natural cooling are available.

② Moisturizing, it is suggested to apply hydrating masque for 7 days and avoid having sauna or steam. Can only clean face with cold water for 10 days.

③ Anti-sunburn, the use of sunscreen of SPF 20+ and without foundation is necessary. Protect the surgical spot from the sunlight and use sun-resistant products, such as sunshade when going out.

④ Do not take any irritative food like spice or seafood for a week after operation. Photosensitive food such as celery and parsley are forbidden. Do not take too much food with high pigment content and avoid alcohol and tabacco.

⑤ Cosmetics with certain effectiveness and hormone are banned during the treatment.

⑥ The interval period between two physiotherapies is about 28 to 45 days, and the interval of hair removal is 2 months.

## 10、Precautions

### 10.1 Safe handling

This equipment is composed of accurate spare parts, so it is better to avoid removing it for long distance. The water in the equipment must be evacuated and all water holes should be blocked before transportation. Anti-oscillation device provided by the original factory can and only can be used during delivery, or it may cause disorder in the optical system and influence the energy output.

### 10.2 Electrical safety

When operating the equipment, it would generate high voltage. Even if the power is off,

the high voltage devices are still full of danger. It is risky to open up the case arbitrarily.

### **10.3 Operation safety**

- ① Must fill the case with purified or distilled water, otherwise the special parts would be burnt down.
- ② Must check both the electricity and water circuits and keep eye on the security of the circuits during the hole process.
- ③ Must not look directly at the strong light emitted by the front-end export of the skinhead hands.
- ④ Avoid placing any reflective materials in therapeutic room, such as watch, mirror, jewel and so on.
- ⑤ Keep the optical system clean and assure that the cooling gel would not pollute the system.

## **11、 After-sale maintenance and services**

**11.1** The main engine of the equipment is guaranteed for 12 months(the invoice is needed). Maintenance-free for equipment failure(non-artificial) within guarantee period. The company could provide maintenance service for products that are beyond guarantee period, but with charge for the installation kits and consumables(the freight is also assumed by the clients). If there are necessities for supplement materials or purchasing information, please contact with us.

**11.2** The following equipment failures caused by the clients are excluded from maintenance-free range:

- ① Any consequences resulting from unauthorized tampering and refitting with the products.
- ② Any consequences resulting from using skinhead hands offered by other companies.
- ③ Any consequences resulting from misusing, beating and dropping.
- ④ Any consequences resulting from insufficient good maintenance.
- ⑤ Any consequences resulting from disobeying the operation instruction.