

DPL SKIN REJUVENATION SYSTEM

User manual



OEM&ODM Accepted
Machine



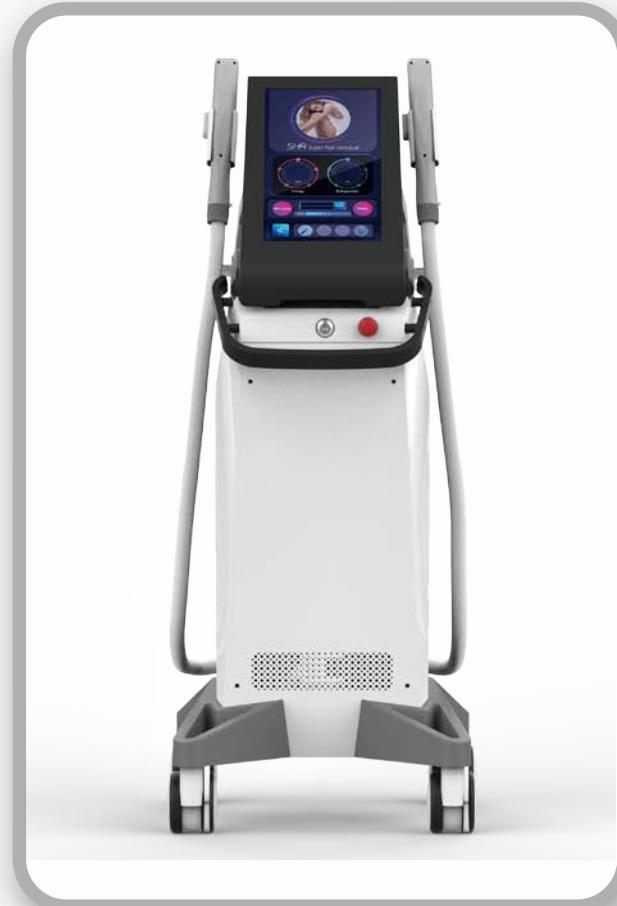
Easy operation



Human engineer
design



Product Display



Principle

The machine uses DPL(Dye Pulsed Light)precision skin rejuvenation technology that is narrow-spectrum photo skin rejuvenation (DPL), it refers to a new optical skin rejuvenation technology,different from traditional technology (such as IPL),The new technology can stimulate 100nm narrow pulsed light which also contains the absorption peaks of melanin and oxygen and hemoglobin,allowing accurate concentration of effective therapeutic energy, thus quickly and efficiently solve the facial freckles and telangiectasia (red face) problems.

Treatment Theory

The machine uses DPL(Dye Pulsed Light)precision skin rejuvenation technology that is narrow-spectrum photo skin rejuvenation (DPL). it refers to a new optical skin rejuvenation technology,different from traditional technology (such as IPL).The new technology can stimulate 100nm narrow pulsed light which also contains the absorption peaks of melanin and oxygen and hemoglobin.allowing accurate concentration of effective therapeutic energy, thus quickly and efficiently solve the facial freckles and telangiectasia (red face) problems.

DPL delicate skin rejuvenation technology

The selected 500-600nm and 550-650nm cover the absorption peaks of pigment and oxygenated hemoglobin in the skin, which are more selective than traditional IPL, and clinical treatment can achieve better results and shorten the treatment time;
Wavelength 500-600nm; Solve the problem of vascular aging and rejuvenate light skin.



1. It is used for the treatment of telangiectasia, acne red marks, sensitive skin, hormone-dependent dermatitis, rosacea and other superficial vascular problems. with better immediate response and better curative effect.



2. Used for light-skinned skin rejuvenation. it can improve dull skin, large pores, rough skin, fine wrinkles and other aging problems.



3. Treatment of zero pain. fixed-point treatment and sliding treatment.

DPL VS IPL

Type	DPL	IPL
Pulse Duration	Narrow 100nm(550-650nm)	Wide (560-950nm)
Melanin absorption	more than 2-5 times of IPL	Low
vascular absorption	3 times higher than IPL	Low
treatment times	2-3 times	4-6 times
Effect	The clearance rate is more than 90%, which will further dilute the cases that have been treated with IPL and have no subsequent changes.	The clearance rate is about 70%, leaving a light mark
Comfort	Low total energy, Comfort is significantly higher than IPL	High total energy, Pain, low comfort





Function:

Hair removal/skin rejuvenation/skin tightening/Acne removal/Pigment removal/Vascular lesion

Multifunctional Therapeutic Platform



Hair removal



Skin rejuvenation



Skin tightening



Acne removal



Pigment removal



Vascular lesion



Handle is equipped with different filters

Multiple wavelengths available for use on all skins
Auto-identified 5 handles for your choice

AR(420-520nm)

Improve acne,remove acne scar

PR(550-650nm)

Remove freckle,sunbum.age spots,
acne scar and facial defects etc

VR(500nm-600nm)

Remove vascular and improve face
redness

SR(560-950nm)

Pore remover, skin whitening.skintightening
anti-puffi-ness ,dark circles etc

HR(650nm-950nm)

Permanent and Painless Hair removal.
Remove un-wanted hair on full body

Machine Operation

1. Power switch on, into “Welcome” interface. (Figure 1)

2. Choose treatment model(Figure 2). Treatment model description: SHR for hair removal , OPT for different 5 kinds functions. Choose SHR enter into (Figure 3)



Figure 1

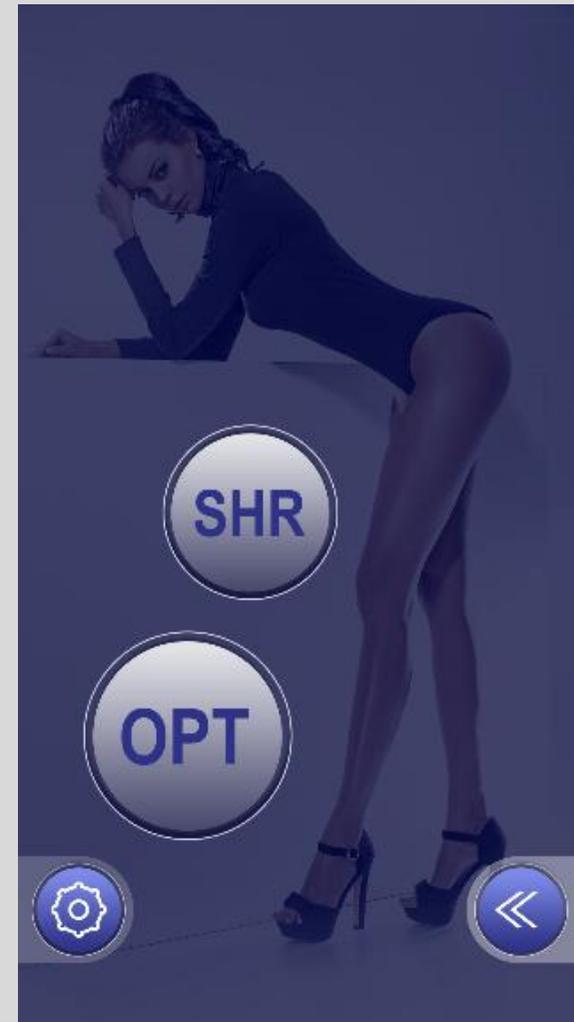


Figure 2

Machine Operation

3. SHR hair removal operation screen. (Figure 3)

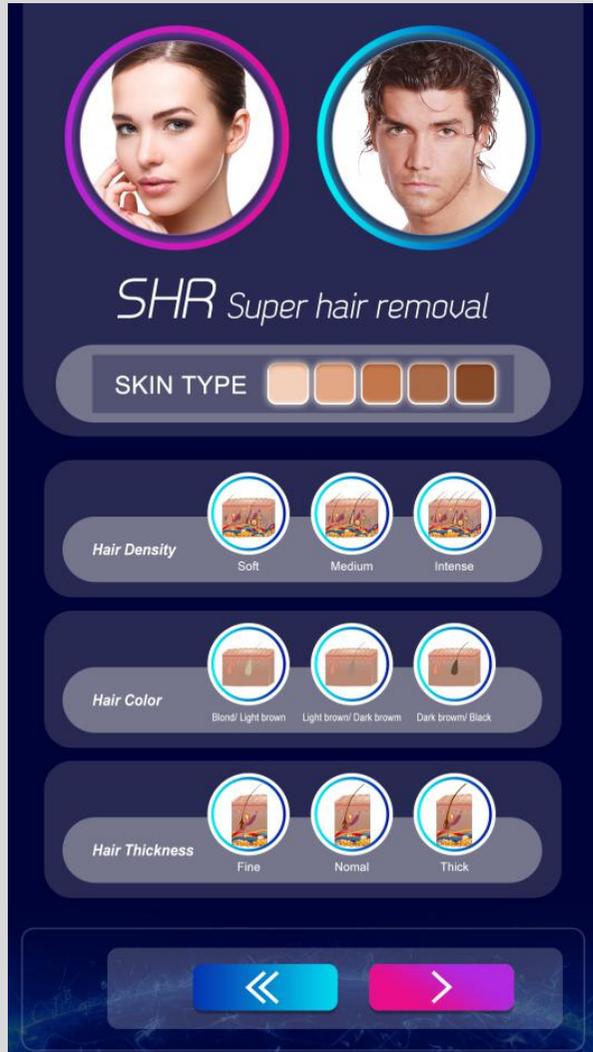


Figure 3

Choose Male or Female, Skin Type. Hair Density, Hair Color and Hair Thickness. then Enter into Next Main Operate Interface. (Figure 4)

4. Screen description:



Figure 4

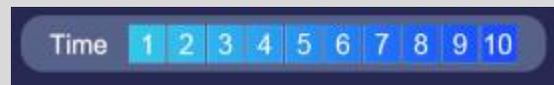
Machine Operation



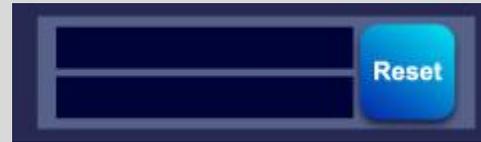
SHR power control range 1—50J/CM²,adjust according customer's physical condition ,can adjust under treatment.



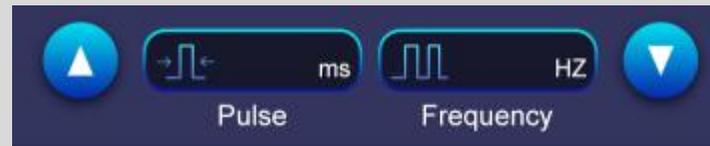
Handle refrigeration adjust range:1—5, adjusting when you need under treatment.(PS:when you do treatment, you must set the refrigeration range)



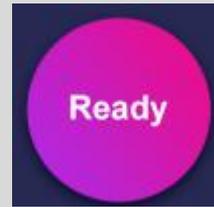
Time setting range is 1-10S, this time after the release of the pedal is not pressed emission time, the cure process can be adjusted.



First column is this cure times above the display, followed by zero point reset key. The second shows the total number of therapeutic cure mode. To this end, in the background settings interface can be cleared. (at the back will detail how to be cleared).



Choose pulse and frequency. The default value is 5.



After all the settings are finished, ready to start.



Handle state: inactive or active.



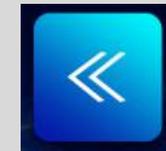
Normal temperature.



Normal water flow.



The charged state.



Return

Machine Operation



DPL HR mode in the upper left corner

You need to select any position of “abcd” on the right, and then adjust the digital addition and subtraction. For example, select position “a”, and then click plus or minus   to adjust the number of position “a”.

▲ This mode is suitable for professionals to adjust according to their personal operating habits.

a. The upper part represents the width of each pulse width

c. The left side represents the number of consecutive light emission of each string

b. the lower part represents the interval between two consecutive pulse widths

d. The right side represents the interval of each series of continuous pulses



Figure 5

Machine Operation

5. OPT Operate guide is same with SHR Operate. If you press OPT treatment mode. it will enter into five interface as followed picture;

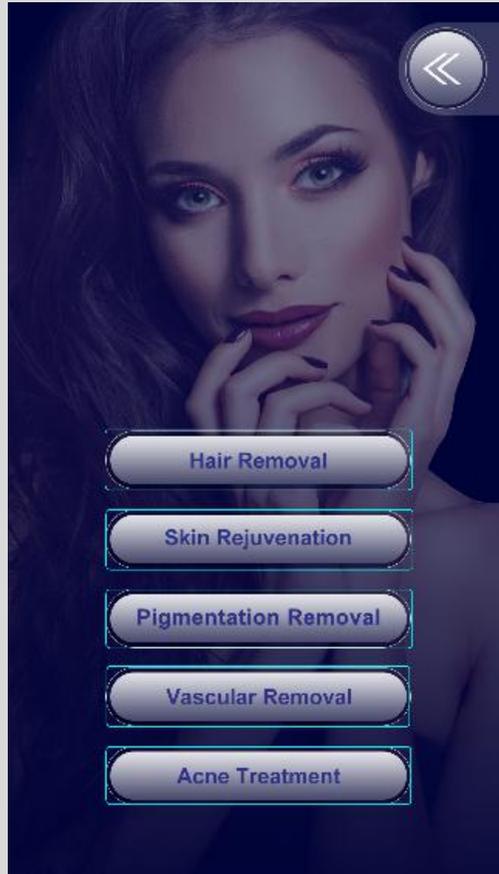


Figure 6

Choose for different functions Operate guide is same with SHR Operate.

6. If you would like to set Frequency or other parameters. Please press this button  (on figure 2) enter into followed screen.

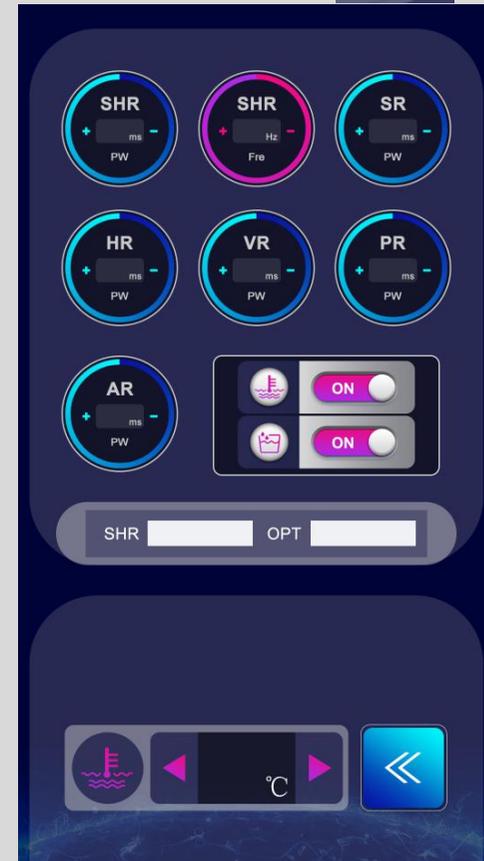
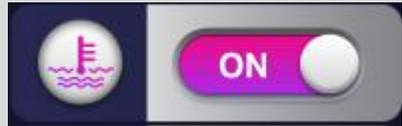


Figure 7

Machine Operation



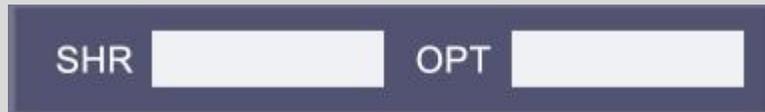
press "+" or "-" to adjust ms.



water temperature alarm



water flow alarm



shots count



set water temperature alarm number



back to main interface



Using Notice

Clients Safety

- 1). Pregnant women;
- 2). Heart disease;
- 3). Suffer high blood pressure.
- 4). Have photosensitive skin or cicatricial diathesis;
- 5). Have taken any photosensitive medicine recently;
- 6). Received any IPL peeling treatments within half a year
- 7). Received any chemical peeling treatments within half a year.

Optics Safety

- 1). Do not wear jewelry, watches or spectacles reflecting intense pulsed light;
- 2). Intense light can do harm to eyes and cause fire. During clinical treatment, beautician and customer shall wear goggle;
- 3). The operating handpiece can not be used outside the scope of this manual;
- 4). Skin might get hurt if it absorbs too much light energy;
- 5). Put the handpiece on the handpiece stand if you don't use it;
- 6). Keep the handpiece crystal clean and do not make cooling gel leak into handpiece;
- 7). Use cooling gel to protect the skin while treating.

Fire Prevention

- 1). The clinic room shall not be easy to get fire;
- 2). If you cleaned the equipment with alcohol, you shall not turn on the equipment until it is totally dry;
- 3). If you don't use this equipment for a long time, cut off the power supply

Working environment

- a) environment temperature: operate the machine about 25°C, the temperature should not be too high or too low
- b) Relative humidity: $\leq 80\%$
- c) Atmospheric pressure range: 860hPa ~ 1060hPa
- d) Power: 110 ~ 220V + 10%, 50 / 60Hz

Transport and storage conditions

- a) Temperature range: -20 ~ 60 °C
- b) Relative density range: $\leq 100\%$
- c) Atmospheric pressure range: 500hPa ~ 1060hPa

Precautions before use

- [1] Before open the machine, the water tank should be full of the water, the treatment handle should set well.
- [2] Check button to make sure they work properly.
- [3] When use the machine, the CPC should be inserted in the exhaust port, exhaust bubbles.
- [4] When change the water, discharged a small amount of water from the drain water, it is ok, when water outflow

Notice in treatment process

- [1] Please removal the hair in treatment area, because the hair will absorb laser energy and produce strong heat, which can lead to heat injury of local skin, and the damage of treatment handle
- [2] Start with low power to prevent burns, then adjust more higher to find the proper energy.
- [3] Ensure laser output is can touch the skin
- [4] During treatment, make sure that the sapphire is clean. The material in the handle can absorbs the laser energy and produce the heat to cause the skin damage and pain

Notice after treatment

- [1] Can not be turn off the machine while the handle still work, when turn off the machine, you should back to the origin state
- [2] Use alcohol to clean the handle after each treatment
- [3] The machine must be turned off when pulling the handle
- [4] change the water once a month, you must use pure water or distilled water

Treatment Procedure

- (1) All cosmetic treatment should be done before consultation, protection, camera, etc., patients need to have the right attitude toward the treatment
- (2) Cleaning the treatment area, patients need to be off the jewelry
- (3) Taking a skin test before the treatment, choose the area without the effect on appearance, such as ears, apply the Cold gel on the testing skin, adjust the energy about 2-3 spots. After 3min, observe the treatment area, if there is redness, it is the suitable energy.
- (4) After skin test, apply the cold gel in the treatment area about, use the suitable energy to do treatment. Do not press the skin during the treatment.
- (5) Before the hair removal treatment, shave the hair until 1-2mm, the treatment process is same as above.
- (6) According to the normal physiological process, the interval time is 21 days. The whole treatment should be 3-5 times.

Postoperative care

Because people has the different Physiological condition, some patients will has discomfort symptoms such as Blisters, pigmentation, swelling and so on

- (1) Use the ice to reduce the pain;
- (2) After treatment, avoid the treatment area to touch the hot water within 12 hours;
- (3) Do not take a bath, aerobic exercise, massage and so within 4-5 days
- (4) Take sun care to prevent pigmentation within one month after treatment, the scab should fall off naturally
- (5) After a few days, the treatment area may appear dry, pay attention to moisturizing (with mild moisturizer)
- (6) Do not make-up immediately, the suitable time for make-up is 4-5 days. This period of skin is very sensitive. At the same time, suggest the customers use some drugs such as vitamin C, vitamin E

Indications

Freckle removal:

freckles, spotted age spots, etc.

DPL precise skin rejuvenation:

whitening and rejuvenating skin, tightening pores, improving skin texture, and enhancing skin elasticity

Acne:

improve acne, improve local inflammation and redness Red blood streaks: red blood streaks caused by facial flushing and capillary dilation

Hair removal:

including front and back hairline, face, lip hair, neck, arms, hands, body, bikini, legs, feet

Contraindication

- Pregnant woman
- Use of light-sensitive drugs
- Most recent tanned skin (within a month)
- Scar experience
- Diabetes unless controlled
- Cancer, especially skin cancer
- Heart disease, epilepsy

Parameter Settings

This OPT Hair Removal Treatment Parameters based on the different type skin customer feedback, which use the OPT Beauty Equipment do a hair removal or skin care treatment. This Parameter used for the most people, but everyone body will have some different, the salon treatment operator can do some adjustments combine the each client detail situation

Skin type I

Part	Times	Refrigerat	Frequeny	Pulse	Energy
Underarm	4~8s	5	1~2Hz	3.1~4.7Ms	15~18J
Face	7~10s	5	2~4Hz	4.6~5.2Ms	16~20J
Back	9~12s	5	4~6Hz	5.0~5.8Ms	19~22J
Arm	10~14s	5	6~8Hz	5.4~6.1Ms	21~24J
Leg	13~16s	5	8~10Hz	5.9~5.8Ms	23~26J

Skin type II

Part	Times	Refrigerat	Frequeny	Pulse	Energy
Underarm	4~8s	5	1~2Hz	3.2~3.8Ms	13~16J
Face	7~10s	5	2~4Hz	3.6~4.2Ms	15~18J
Back	9~12s	5	4~6Hz	4.0~4.7Ms	17~20J
Arm	10~14s	5	6~8Hz	4.3~5.1Ms	19~22J
Leg	13~16s	5	8~10Hz	5.1~5.6Ms	21~24J

Parameter Settings

Skin Type III

Part	Times	Refrigerat	Frequeny	Pulse	Energy
Underarm	4~8s	5	1~2Hz	3.1~3.6Ms	11~14J
Face	7~10s	5	2~4Hz	3.4~4.0Ms	16J
Back	9~12s	5	4~6Hz	3.9~4.5Ms	18J
Arm	10~14s	5	6~8Hz	4.3~4.9Ms	20J
Leg	13~16s	5	8~10Hz	4.5~5.1Ms	22J

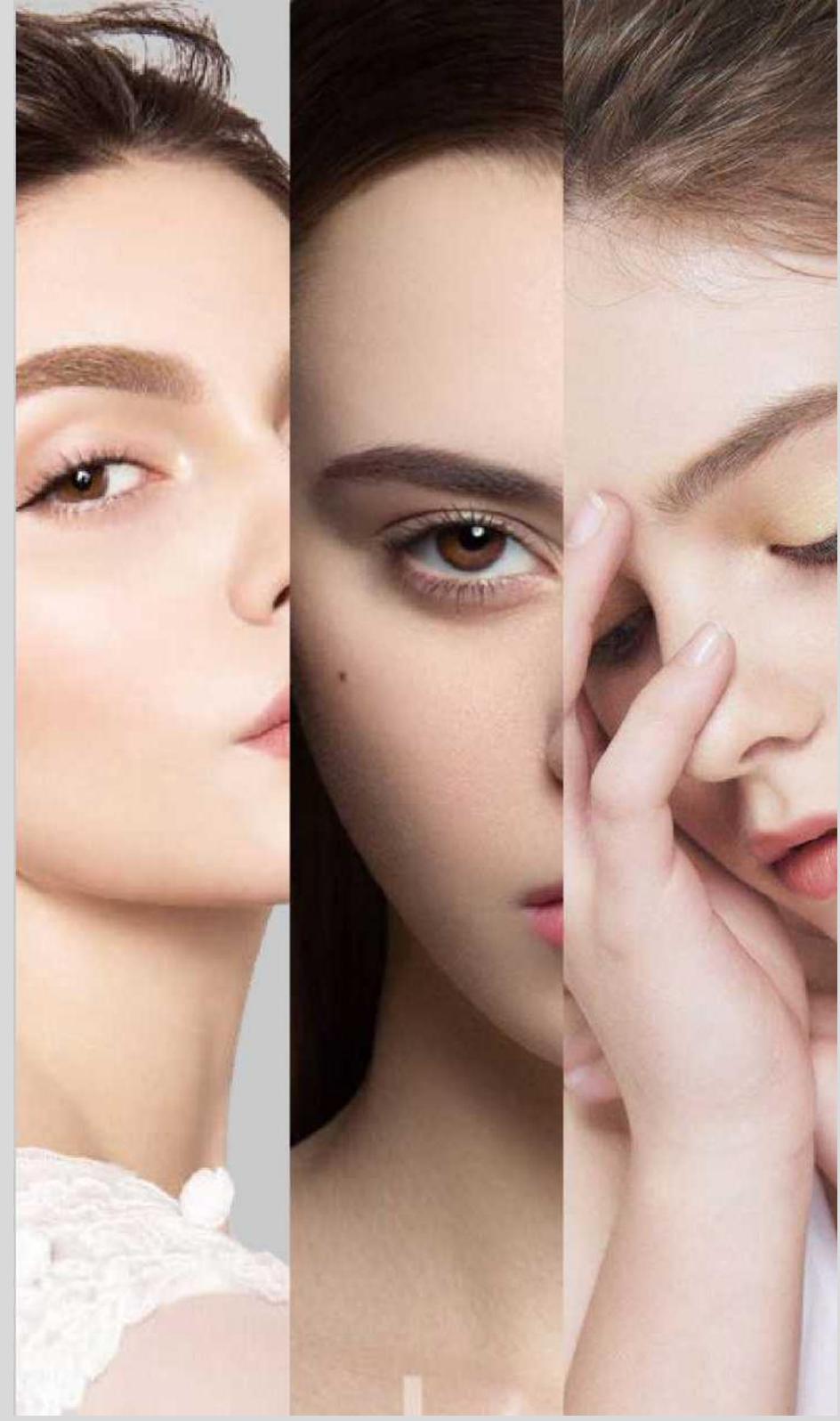
Skin Type IV

Part	Times	Refrigerat	Frequeny	Pulse	Energy
Underarm	4~8s	5	1~2Hz	2.3~2.9Ms	10~12J
Face	7~10s	5	2~4Hz	2.7~3.2Ms	14J
Back	9~12s	5	4~6Hz	3.0~3.6Ms	16J
Arm	10~14s	5	6~8Hz	3.4~3.9Ms	18J
Leg	13~16s	5	8~10Hz	3.7~4.3Ms	20J

Parameter Settings

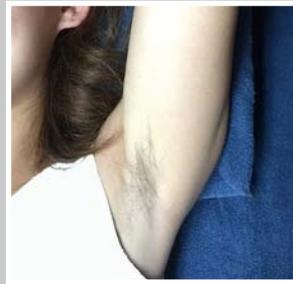
Skin Type V

Part	Times	Refrigerat	Frequeny	Pulse	Energy
Underarm	4~8s	5	1~2Hz	1.8~2.3Ms	7~10J
Face	7~10s	5	2~4Hz	2.1~2.6Ms	9~12J
Back	9~12s	5	4~6Hz	2.5~3.1Ms	11~14J
Arm	10~14s	5	6~8Hz	2.9~3.6Ms	13~16J
Leg	13~16s	5	8~10Hz	3.4~3.9Ms	15~18J



Treatment result

Before & After treatment



Before



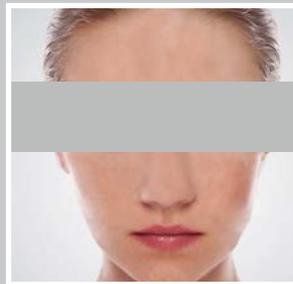
After



Before



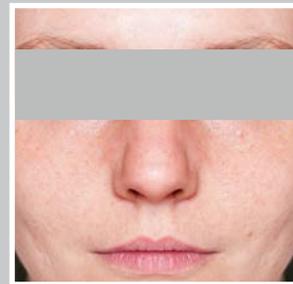
After



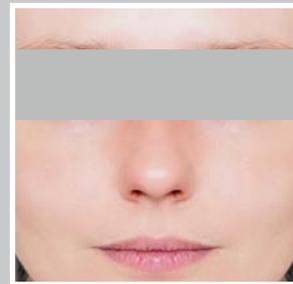
Before



After



Before



After



Certificate

Quality Management System Certificate

Registration No.: 12919Q30039R05

This is to certify that

Forever Beauty Laser ,Ltd.
Unified: 911101115731733987

Registered Address: Room 1904, Building 16, No.1, Tianxing Street, Fangshan District, Beijing, 102488

Has been audited to conform to the following Quality Management System standard
GB/T19001-2016/ISO9001:2015
This Quality Management System is valid for the

Sales of Medical Laser Instruments, Physical Therapy and Rehabilitation Equipment and Cosmetic Instruments (Within the Scope of Qualifications)

Issue Date: 2019-01-15
Term of Validity: 2022-01-14

12 months after the date of issue, the certified organizations must accept the supervision and audit regularly and after the examination and approval, this certificate shall be valid only if it is used with the notification of remaining certification registration. The certificate information is retrieval at the National Certification and Accreditation Commission official website (www.cnca.gov.cn) and (www.biqcx.cn) for this certificate's validity status.

Issued by:

Beijing Guochengxing Inspection & Certification Co., Ltd.
(Desheng gate) Room 424, 426, 24th Building, #1, Baohonglou Street, Xibei District, Beijing, 100120
Tel: 010-82015837 <http://www.bjgjc.cn>

Certificate of Conformity

The following products have been tested by us with the listed standards and found to conform to the product EMC directive 2014/53/EC. It is possible to use CE marking to demonstrate the conformity with the EMC Directive.

Reference No.	LC19082001001
Applicant	FOREVER BEAUTY LASER CO., LTD Room 1904, 16th Floor, (Longfang South Street), Langfang City, Hebei Province, China
Manufacturer	FOREVER BEAUTY LASER CO., LTD Room 1904, 16th Floor, (Longfang South Street), Langfang City, Hebei Province, China
Trade Mark	FBL
EUT	Beauty Shining Machine
EMC	EN 60601-1-2, EN 60601-1-8, EN 60601-1-11, EN 60601-1-12, EN 60601-1-13

Test Standards:
Medical electrical equipment Part 1-2: General requirements for safety - Coloured standard.
Electromagnetic compatibility - Requirements and test.

CE

The test report was carried out from the submitted specimens of a product in conformity with the specification of the respective standards. The certificate holder has the right to file the CE-mark for EMC directive of the product complying with the respective samples.

CERTIFICATE OF Conformity
Medical Devices Directive 93/42/EEC

Registration No.: AT11100035
Report No.: 2011100035

Applicant: Forever Beauty Laser Co., Ltd.
First Floor 16th Floor, (Longfang South Street),
Langfang City, Hebei Province, China

Product: CO2 Fractional Laser Machine

Manufacturer: Model No.: F2-1, F2-2, F2-3

Trade Mark: FBL

Rating: 100-240V~, 50/60Hz, 30-100W

Test Standards: EN 60601-1-2: 2007
EN 60601-1-8: 2006+A1: (2006-02) 2007
EN 60601-1-11: 2011

The aforementioned manufacturer has implemented a quality assurance for manufacture and final inspection of the respective product/production categories according to Annex VI, Section 1 of the Directive 93/42/EEC on Medical devices.

CE

The CE Marking may only be used if all relevant and effective EC Directives are complied with.

CE

CERTIFICATE OF Conformity
Low Voltage Directive 2006/95/EC

Registration No.: AT11100035
Report No.: 2011100035
Attachment 1 to Declaration
Page 2 of 2

Model No.	Rating
100-240V~, 50/60Hz, Class I, 100W, Type BF	
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100-240V~, 50/60Hz, Class I, 50W, Type BF	
100-240V~, 50/60Hz, Class I, 100W, Type BF	
100-240V~, 50/60Hz, Class I, 100W, Type BF	
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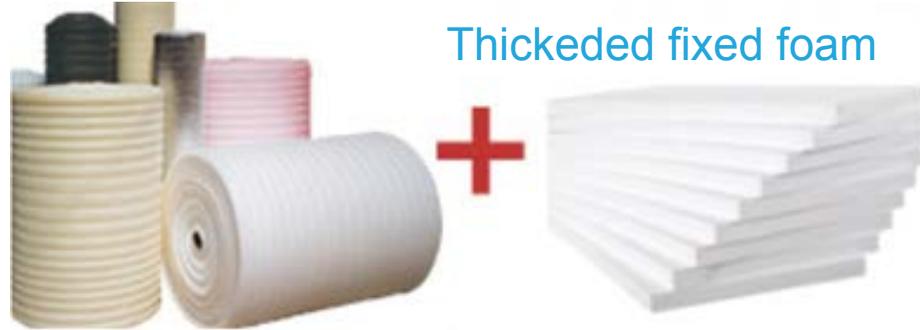
CE

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CE

Packaging & Shipping

Pearl wrapped



Thickened fixed foam

Internal pearl wrapped, soft surface, thickened fixed foam, double protection, to prevent friction damage



Carton Box with internal pearl and foam



Wood packaging, export fumigation packaging, durable wear, play a very good protective effect.



Aluminum alloy materials, woven materials, plastic materials, multiple protection.



MACHINE



INTO PACKAGE



WAIT SHIPPING