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## 2D HIFU Machine

### User Manual



Thanks for choosing our IPL machines and please read this manual carefully before operation.

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## Introduction

### **I. An overview of HIFU machine**

The latest high-end rejuvenation 2D HIFU machine, features three perfect functions—refirming, rhytidectomy and shaping. The advance of focused ultrasound is that it adopts the most advanced ultrasonic power, deep penetrating, which is able to reach the SMAS layer of the skin, making the collagen contracted immediately and stimulating the collagen fibres, so that skin elasticity can be enhanced from the bottom layer of skin (safer repairing mechanism). It is the safest and most effective way for facial skin aging and sagging treatment at present. The magic anti-wrinkle promotion effect of focused ultrasound skincare apparatus, the cross-age skincare apparatus, has been recognized by beauty industry authority for no wound, no convalescence, no bleeding and many times of treatment for face promotion, which is honored as magic light for forever young.

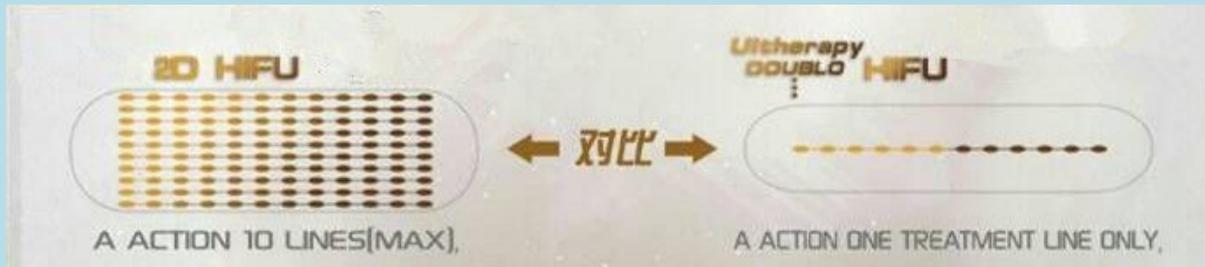
### **II. Principle of HIFU machine**

Ultrasonic focusing reaches the SMAS layer with its specific high-energy focused ultrasound, improves the SMAS suspension, comprehensively solve the facial sagging and relaxation problems. It accurately positions the ultrasonic power on the SMAS 4.5mm under skin, performing the best effect of shaping, pulling and compacting for muscle growth and traction; impacts on the collagen layer 3mm under skin, making the collagen restructured and newborn, solving the aging problems by recovering

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elasticity, skin whitening, wrinkle removing and pores shrinking.

It is unnecessary to worry about the skin injury because the power is across the epidermis. Moreover, it has the functions of quick pulling, counter compacting and quick wrinkle smoothing.



### III. Technological advantages

1. MAX treatment area for one shooting (face & neck): length 25mm \* width 1mm-10mm \* depth 3.0mm & 4.5mm. User can adjust parameter as your demands. The width of one shooting is bigger than others, so it will not only shorten much time to operate HIFU machine on one face or neck or body, but also make energy points of the skin be more uniform and better curative effect.
2. It adopts the most advanced high technology, accurately working on various skin depths according to the facial skin condition equipped with three treating heads. The power lightly crosses the skin at the treatment, and there is no injury absolutely. Meanwhile, the depth of treating head works on the skin conforms to the setting value, ensuring the customer to be non-pain and comfortable.
3. It has heat effect on dermal collagen and collagenous fibers as well as thermal stimulus on fat layer and SMAS, whose treatment effect is more

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than the Thermage.

4. It is easy and convenient for operation, and no consumable items are required, which greatly saves the treatment cost.

5. Tightening and shaping effect is obvious after treatment. It can be maintained at least 18 to 24 months after one treatment and realize negative growth of skin age once a year.

6. The normal life and work will not be influenced if you make up the moment after treatment.

#### **IV. Technical parameters**

Number of heads: 3.0mm, 4.5mm

Energy type: HIFU 4Mhz/7Mhz

Energy output: 0.2J-2J (0.1 step)

Width: 0-10mm (adjustable)

Line clearance: 1-5mm (adjustable)

Pitch of spot: 1-5mm (adjustable)

Shot length: 5mm-25mm (1mm step)

Shot lines: 1-10 lines (adjustable)

Head shots: 10000



1、The HIFU machine is equipped with 2 heads of different depths

applications	Depth and effects of skin
3.0mm heads	The power reaches the subcutaneous tissue directly to speed the cell activity, making the collagen newborn and reorganized and increasing the skin elasticity and skin compacting.
4.5mm heads	The power reaches the SMAS layer to make heat coagulation of SMAS, performing the pulling and SMAS suspension well, having improvement from deep to shallow so as to support the skin structure, better helping bottom layer recover elasticity, wrinkles removing and facial skin improvement.

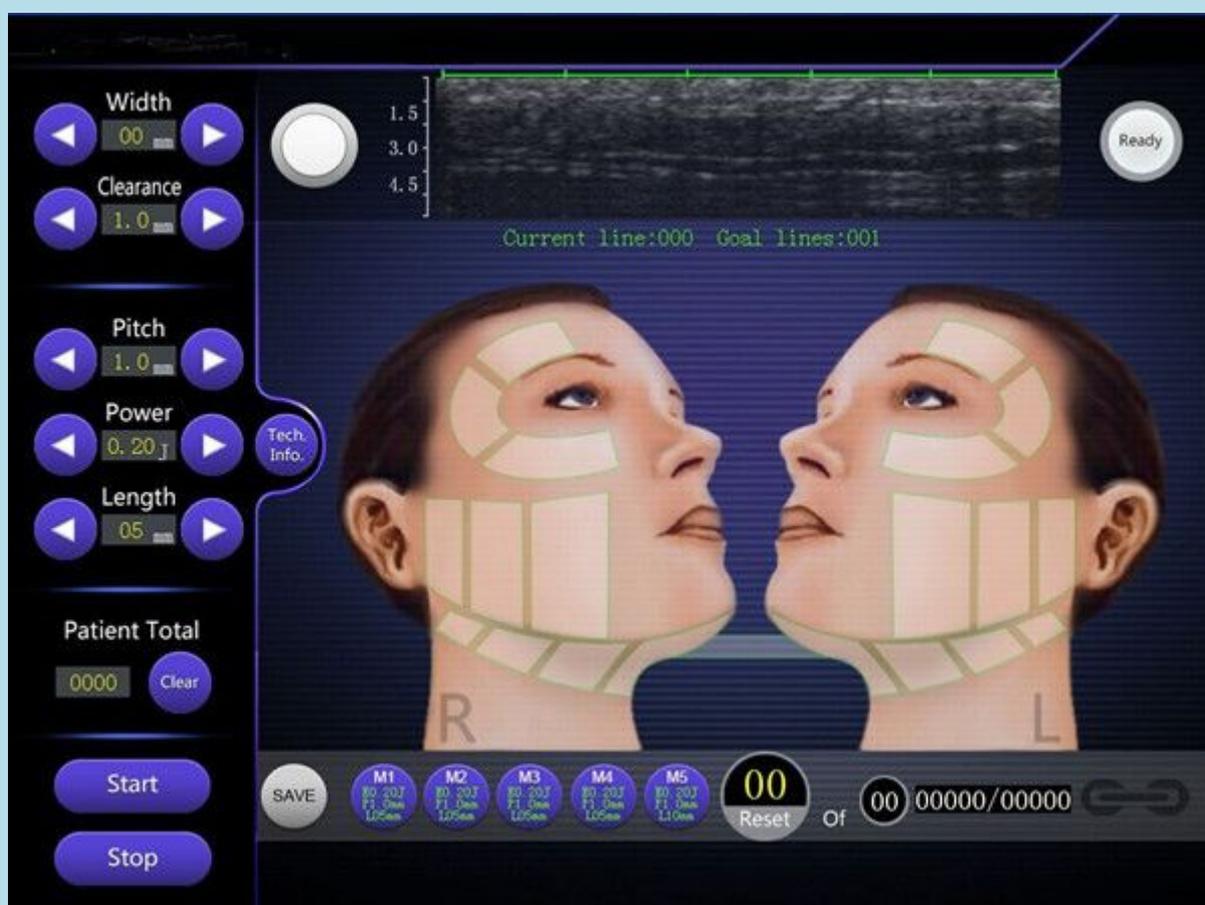
### III. Display instruction

#### (1) Starting

Check whether the apparatus is correctly connected. The following starting interface will appear after power on. The launch bar on the picture indicates that the apparatus is starting and loading pressure.

#### (2) Selection of standby and control lever

The standby screen will appear under circumstance of normal starting of apparatus (see picture 1)

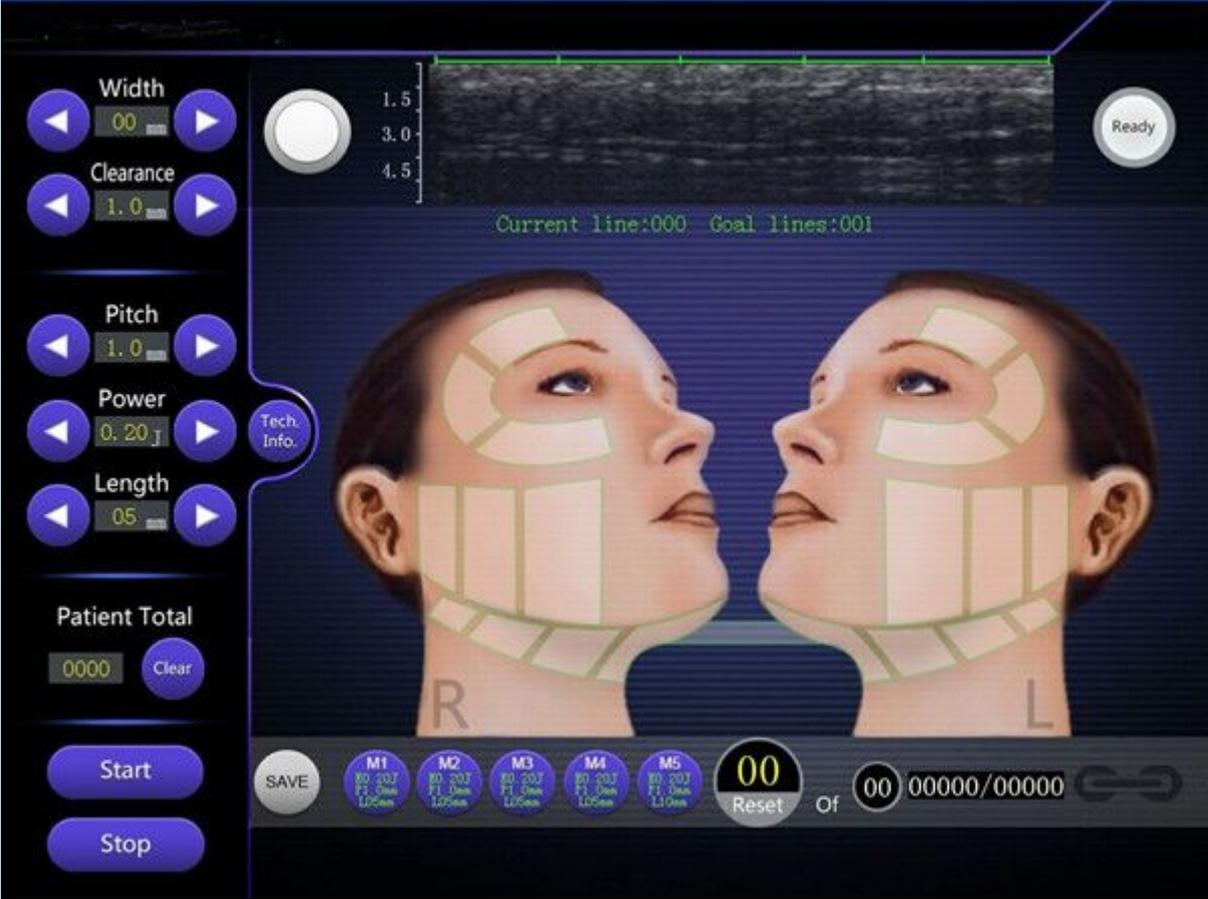


Picture 1

Corresponding treatment head will be chosen for various problems of different degrees. The red figure is the selected treatment head;

moreover, it can be replaced for the need treating head by pulling out directly.

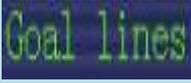
### (3)Functions



Picture 2

In home screen, you may adjust all kinds of parameters such as: **Width** total width for one shooting , **Clearance** the space between two lines , **Power** ultrasonic scalpel power , **Pitch** the space between two dots(in one line), **Length** indicates the length of ultrasonic scalpel treatment (one shooting) , **←** (reduce) and **→** (increase) adjust time, **Patient Total** have

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treated shots,  clear treated dots.  start working(start treatment),  
 stop working,  keep memory(previous  
treatment),  current treatment line,  total current treatment  
lines .

#### IV. Operating steps

1. please don't shoot if the head is not against skin or Acrylic (don't empty shooting)
2. Clean the application part and dry the water-drop on face before using.
3. Daub the product (phototherapy gel) evenly on the parts need treatment.
4. Replace the treating head needed before operating, and the power should be optimally within experiencers' range from low to high.
5. Keep the treating head flattens the skin during operation and the operating distance should be tight.
6. Inquiry the experiencer for comfort degree and adjust the power during operation so as to keep experiencer delighted during the operation.
7. Strengthen the treatment on the problem areas.

## V. Parameters setting

	width	clearance	Pwer	Pitch	lenght	Proble m skin	Severity skin
Good skin	0-10	1.0-5.0	0.25-0.5	1.0-2.0	0~10		Once/m onth
Sensitive skin	0-10	1.0-5.0	o.25-0.3 5	1.5-2.4	0~15	Once/C ourse of treatme nt	Three times/co urse of treatme nt

## VI. Notes for use and maintenance:

1. Clean the apparatus with water every time use it and keep it well.
2. Use the plug with ground pins before operation, and make sure that the socket has been connected to the ground truly.
3. Make sure that the apparatus voltage is adaptive. It is suggested increasing the regulated power supply with power matching to the users if the local power voltage is unstable.
4. Please use the specified accessories provided or suggested by the originating factory so as to ensure the treatment effects and normal service life of the apparatus.
5. Do not place the apparatus in humid areas or close to the water source, or expose apparatus to the sun either.
6. Never put the apparatus close to strong thermal source because that may influence the service life and normal

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application of apparatus.

7. Use the current loop arm set in winter or dry air in avoidance of poor contact. Pay attention that it should be wet on the areas contacting to the skin, which can be realized by containing water products or water wiping.
8. Mediums such as water and oil are forbidden in apparatus, as well as striking, knocking and cracking that may damage the apparatus.
9. Please clean the probe and cut off the power timely after using the ultrasonic beauty apparatus.

## **VII. Taboos for apparatus users**

1. This apparatus shall be used with enough caution in the following cases, suggestions from doctors or professionals are necessary prior to use, some details are listed as follows:

Clean the skin at physiotherapeutic part before using the apparatus to prevent dirt from entering into the skin with the ultrasound or compromising the penetrability of the ultrasound. Please remove all metallic objects before the treatment lest unexpected situation impacts curative effects.

2. It is strongly recommended to use medium with certain viscosity to facilitate better fusion between ultrasound and skin and prevent any reflection arising from gap from hampering acoustic and energy absorption.

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3. Generally each physical therapy period shall be maintained for 15 to 20 minutes, over long time or improper use will cause skin fatigue or bad absorption. The user may select appropriate duration considering the size of physiotherapeutic part.

4. The degree of heat at the probe cannot be treated equally as the ultrasonic power output; it is not advisable to penetrate low-concentration agent or drug directly, which will lead to dry skin.

5. When this apparatus is being used, the probe must be kept away from the eye and prohibited from passing the eyeball, the pregnant and patients with severe heart disease.

6. Unless the doctor's permission is obtained, the patients in the course of treatment shall be cautious enough to use this apparatus.

7. Patients with malignant tumor, hemophilia or severe bleeding;

8. Patients with the major disease, skin disease or infectious disease shall be cautious enough to use this apparatus.

9. Enough caution must be given when such apparatus is used in the heart, brain, neck nerve centre, spine, eyeball, bleeding and injection.

10. Patients with the hyperthyroidism, asthma and hypertension;

11. Ultrasonic scalpel treatment is not allowed within 15 days after injection of hyaluronic acid.

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12. Please do not wash your face with hot water and don't massage in one week, please apply mask every day during the first week, please pay attention to sun protection, please don't operate other beauty equipment on treatment skin in one month, such as RF\ Vacuum\ ultrasound\ mechanical roller ect.

## **IX. Troubleshooting**

1. No display on the apparatus interface: Please check if the power plug is inserted well or the power switch is turned on.
2. The apparatus operates normally but the press key malfunctions: Please check if the power supply is connected well.

## **X. Repair and maintenance of the apparatus**

1. Please clean the apparatus with clean water after its use and preserve properly;
2. Power plug with ground pin must be used before application of this apparatus and ensure that the power outlet is truly grounded.
3. The apparatus voltage is adaptive; in case of unstable local supply 5 voltage, we suggest users to add power matching stabilized voltage supply.
4. Please use consistently components provided or suggested by original manufacturers to ensure curative effects and normal lifetime of the apparatus.
5. Neither place the apparatus in damp places or near the water source nor expose them directly to sunshine.
6. The apparatus shall be avoided to approach strong heat source body, because it may affect the life and normal use of the

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apparatus.

7. Please remove firstly all metallic objects lest unexpected situation impacts the curative effects.

8. Avoid poor contact and ensure a certain degree of wetness at the part contacting with the skin, which may be achieved by wiping with water soluble product or water.

9. Please turn off the power switch when the apparatus remains idle and ensure that the general power of the apparatus is turned off before/after its use and the safety of electrical products.

10. Please use this apparatus or train its operators in strict conformity with the instructions in users' manual.