

EVO C2 with V-lift

USER MANUAL



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I. INSTALLATION AND PRECAUTIONS

1) Components of the Device

A. Package of the machine

You will receive the machine as below



B. Accessories

No.	Name	Picture	Qty	No.	Name	Picture	Qty
1	VRL probe		1	2	Laser Bracket		1
3	Power cord		1	4	Fractional probe		1
5	Articulated arms		1	6	Fractional probe for vulva		1
7	Pedal		1	8	Glasses for operator		1
9	Goggle for patient		1				

2) Main parts of the machine



- ① key switch
- ② emergency button
- ③ LCD screen
- ④ Articulated arms

- ⑤ probe
- ⑥ foot pedal
- ⑦ power supply input
- ⑧ air switch protection

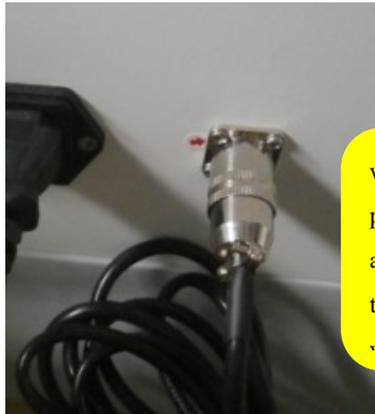
3) Installment

Beginning

A. Placement: place the machine on level ground, make sure the treatment room is clean and it is about 22~28°C and humidity more than 20%.

B. Installation of the power cord: one side connects with the power outlet, the other side insert to the Single-phase three-wire power socket which is well ground.

C. Pedals installation:



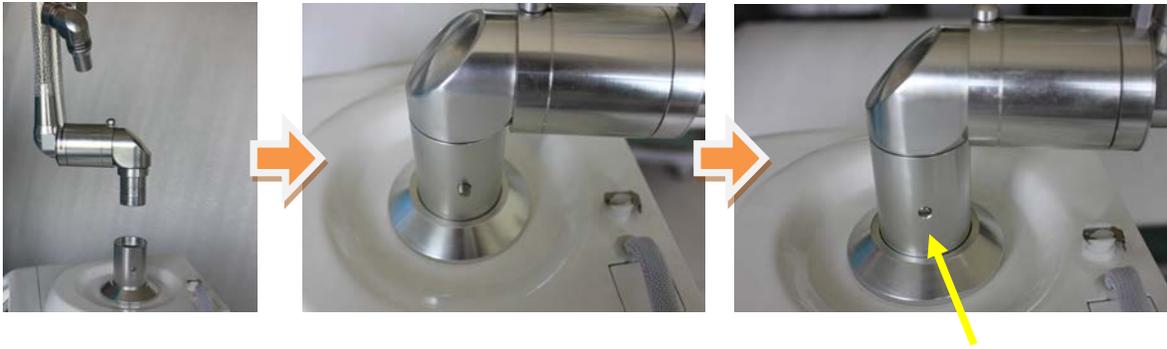
warning : in the left picture, the connection has a in-pin, please make sure the pin is correct when you install

D. Installation of articulated arm:



Please loose the screw firstly

Take out articulated arm from accessories case, and insert in above picture. Make sure 100% insert downwards, keep the gap less than 2 mm. show as following:



Tighten this, and keep the gap less than 2

E. installation of probe

①. Bind USB cable and blowing pipe to the articulated arm, show in follows:



Note: pay more attention in USB cable and blowing pipe binding, avoid 90 degree of dead angle and make sure easy movement of 360 degree.

②. Aim the probe to connector, and move the articulated arm in clockwise for fixing; show as following:



Connect the probe of fractional laser:
insert the probe to arm directly

And then screw the black button
as arrow showing

F. installation of blowing pipe:

It's the type of "plug and play", so just easy insert for installation.



Note: pay more attention in USB cable and blowing pipe binding, avoid 90 degree of dead angle and make sure easy movement of 360 degree.

4) Notice

VRL system can be used in hospital, here is some installation notices:

1. Unpacking, put it at the right place.
2. Check the integrity of the equipment and the parts.
3. Make sure the switch and power supply connects well.
4. Install the treatment head firmly and make sure the cable connection in good condition.
5. Notice: The input voltage must be consistent with the machine voltage
6. Test all the functions of the equipment work or not.

II. INTRODUCTION OF VAGINAL THERAPY

1) Preface

Many medical workers already paid much attention on the female vagina health in the early 20th century. “We should care about women and help them to enjoy the happiness of sexual life.” Elizabeth Blackwell, the first U.S female Medicine-Doctor said in 1902.

With the developing of society, female social status continually increases. The vagina health becomes unobscured and being attached importance by more and more women.

2) Female Reproductive System

Female reproductive system is the last mature but earliest get-old system in human body.

With the age growth, woman’s face and body come to senescence and so does the private parts. In addition, giving birth and sex will accelerate the ageing progress of vagina.

Senescent vagina just likes the disrepair house. The net of elastic fiber in vaginal wall is to vagina what steel skeleton is to house. Once the steel skeleton breaks down, the whole house will lost its support structure. Then the urethra, rectum, uterus etc will squeeze the original position of vagina, which causes a series of pelvic floor dysfunction disease, like uroclepsia, constipation, pelvic organ prolapsed. All of these will badly harm female health and sexual life.

3) Genital system aging

Besides, reproductive system aging will aggravate the senescence of other organs, in result of female senilism. It will badly influence sexual health, easily result in woman bad-tempered, depressed and disordered hormone secretion, then cause or

sharpen chlosma. George P. Tomson also pointed that reproductive system senescence will speed up aging progress of face and body.

4) The effect of vaginal aging

✧ **Pigment Increase**

Caused by long-term repeated gynecologic inflammation and toxin vestigital.

✧ **Dark Skin**

Caused by unharmonious sexual life, disordered liver function.

✧ **Senescence Accelerated**

Disharmony sexual life results in disorder hormone secretion.

5) The therapy of vagina

VRL is the most eye-catching therapy of non-invasive vaginal rejuvenation in European and America. Aiming at vaginal relaxation, disorder of vaginal inner environment, bad sensitivity and uracratia etc problems, it provides a series revolutionary, painless and accurate solutions, which is no anesthesia, no pain, no recovery and utilizes unique disposable sterile laser cover tube (avoid cross infection). It only takes 15 minutes for the whole treatment, can achieve lasting firming effect, and is the most popular new project for woman plastic body.

6) Enormous harm of loosen vaginal

Sexual life is a very important part of emotional life. Vaginal relaxation can severely impact on the quality of couple's sexual life, then lead to inharmonious sexual life. And inharmonious sexual life must impact on couple's feelings, which will result in quarrel, betrayal, even divorce!

A. Easily be Infected

Vaginal relaxation will result in completely loss of vaginal self-cleaning capacity. Consequently, germs, toxin, dead skin cells and undrained menstruation will lead to external genitalia painful and itching, odor, discoloring, even stenching and cervical erosion, worse to pelvic inflammation. Eventually, female suffer a lot because of vaginal relaxation.

B. female become aging fast

Vaginal relaxation makes muscle tension decline and vagina mucosa atrophy, which will further result in female hormone secretion sharply decreasing, vagina and endometrium severely aging, labia wizenig, dark and rough, even menstrual disorders. Next, many aging symptoms such as, obesity, chloasma, age pigment, eye bag, and wrinkle will come out, which make a female looks older about decades.

III.MACHINE WORKING THEORY

1) Theory

An anti-aging therapy with golden 360° emitting technology, in which laser effect the vaginal mucosa tissue around 50 to 70°C. Then it can stimulate collagen tightening, remodeling and regenerating, so that thickens the walls of the vaginal canal and improving the cell circulation and dynamic response, then adjusting PH value, resulting in rejuvenating nourishing vagina.

- ✓ Accelerate collagenous fiber hyperplasia largely, and remodel.
- ✓ Improve vagina mucosa microcirculation function.
- ✓ Increase cell secretion and dynamic response function.
- ✓ Correct PH, improve internal environment.

2) Application

Constipation: female vagina and large intestine are before and after adjacent. The main tissue maintaining vagina tightness is muscle and fascia.

But with vaginal delivery, muscle and fascia will encounter different degrees of damage, and with increasing of age, fascia will degenerate little by little and also muscle tension will decline, which will make vagina become looser and looser. Thus, rectum wall will protrude towards vagina and occupy the space, resulting in rectal protrusion. When bowels pass through rectum, it will silt and pile up in this dead space, leading to chronic constipation.

3) Function

- A. Tighten vagina

Fast recover vagina tightening. No longer than half an hour treatment will let you enjoy the “grip” feeling.

B. Clean and maintain vagina

Clean vaginal internal part, nourish and prevent vagina from germs, guard against infection and its derivative lesion.

C. Nourish vagina, eliminate dry situation

Stimulate vaginal internal parts self-healing, improve aningeresting, accelerate regeneration of new cells, normal internal secretion and improve the fun of sexual life.

D. Beautify, pink, nourish and soft vagina

Effectively eliminate pigmentation around vaginal internal part and labia external part, reduce pigment, immediately change labia into tight, soft and pink.

4) Technical Feature

C. Ideal laser wavelength can be absorbed by vaginal mucosa micron tissue, so that prevent the tissues and organs from heat damage.

D. The laser energy emit by short pulse with optimized time gap, which can effectively form symmetrical heat in vaginal mucosa surfaces but no heat damage.

E. Owing to the accurate adjustment of temperature and soft non-invasive therapy, it will not emerge tissue damage or other bad phenomena.

IV. SPECIFICATION

CO ₂ laser source	RF laser tube(COHERENT)
Output power	30W
Wavelength	10,600nm
Scan pattern	Square, rectangle, round, triangle, oval, 6-diamond shap, line or customized graphics
Scan pattern size	0.1 x 0.1mm – 20 x 20mm
Scan mode	Free scan; sequence scan; maximum distance scan
Spot size	0.01 – 0.07mm
Pulse duration	0.1 – 2.6ms adjustable
Spot distance	0.1 – 2.6ms adjustable
Pulse energy (Power)	1 – 100mj adjustable on LCD screen
Interval between scanning	0 – 6s
Laser apparatus	Sealed off laser device stimulated by direct current
Condenser focus	F = 50mm
Beam divergence angle	0.3 mrad
Aiming beam	635nm infrared ray
Beam transport device	7 articular optical arm
Cooling system	Air
Dimension of machine	60*54*32 cm
Dimension of package	67*71*49 cm & 22*74*14 cm
N.W.	28.5 KG
G.W.	45 KG & 5KG
Packing	Aluminum alloy case
Voltage	220V/110V

V. OPERATION INTERFACE

1)First step, Initial states, tap the screen into the second step



2)Second step, Choose VRL



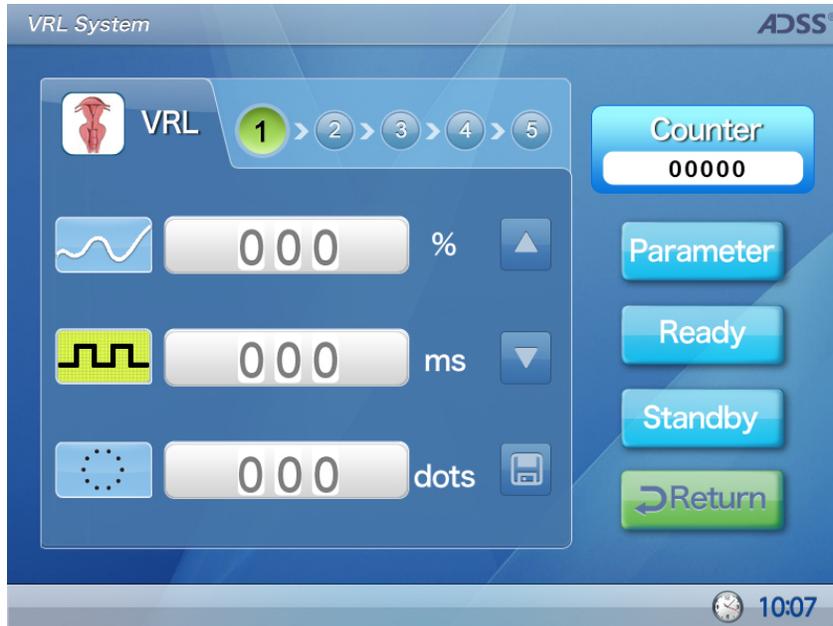
3)Third step

A. After entering the VRL system, select the mode and set treatment parameters.

B. Then point Ready, step the pedal for treatment.

4)Setting

Detailed use method and function of every mode are as follows,



A.  are the five commonly used preserved parameters, you can set 5 different parameter for different patients or treatment, then

point  to save.

B.  Laser Power. This function means the output power of the laser, also the critical parameters in determining the amount of energy, maximum value of 100, use the buttons of triangle and inverted triangle in the screen to set, it is recommended to use the value of **100**.

C.  Duration. This functionality is a single point of the laser with the burn time, Is an important parameter determines the amount of energy, the maximum value of 10, use the buttons of triangle and inverted triangle in the screen to set, it is recommended to use the value of **6-8 ms**.

D.  Spot size. This feature is the number of laser spot of 360 degrees, maximum value of 100, be adjusted in units of 4, use the buttons of triangle and inverted triangle in the screen to set, generally set at between 12-28, this value cannot be too big, too big like peeling, vaginal cannot stand it. It is recommended to use the value of **16 point**.

E. Complete the work to set (Ready) , complete parameter settings, press the foot switch can work.

F. Parameter setting status (Stand by) .

G. Go back (return) .

H. Triangle and the inverted triangle set parameters to adjust, to go up or down.

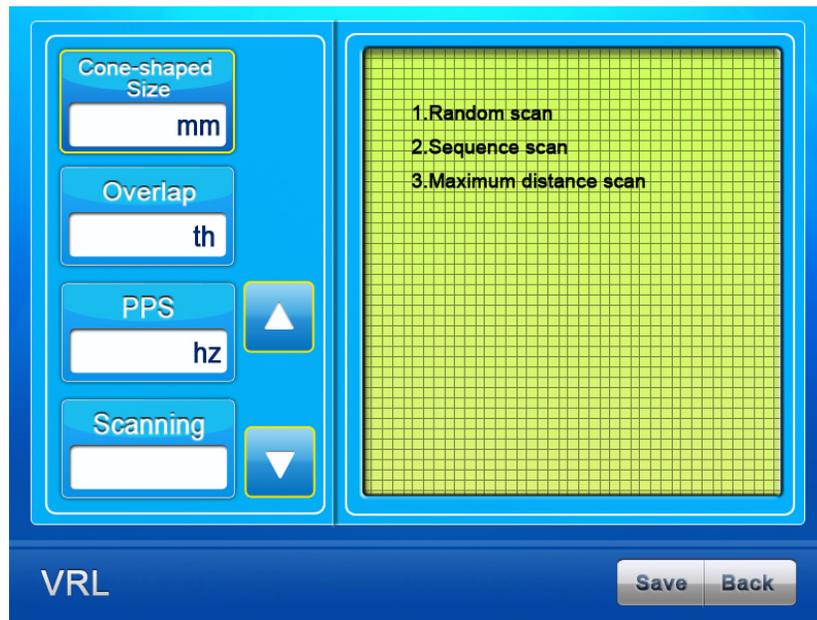
I.  Counter. This function is to counter the numbers step on the pedal.

Parameter

J. Parameter. This functionality into the background settings page as below,



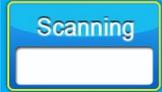
- i. Cone-shaped size. This feature is the size the laser scanning on the cones, use the buttons of triangle and inverted triangle in the screen to set, normal value is fixed, generally between 4.5mm-5mm, don't need always to adjust it. It is recommended to use the value of **4.8mm**.



- ii. Overlap. Use the buttons of triangle and inverted triangle in the screen to set, up to 20 times, 1 is commonly used. it is recommended to use "**1th**".

- iii.  PPS, This function for the laser scanning laps, up to 10 laps,

1 or 2 is commonly used. It is recommended to use “**1Hz**”.

- iv.  Scanning. This function is the order of the laser 360-degree shot, divided into three types, order, disorder, and the maximum distance. Use the buttons of triangle and inverted triangle in the screen to set. It is recommended to use “**model 3**”.

- v.  Point it for save the parameters.

- vi.  Back to the main system.

VI. CLINIC APPLICATION



WARNING!

- Do not put the handpiece to people's eyes directly to prevent from eye damage
- Be careful not to directly look at the light and lest it be reflected on the reflective surface
- In order to prevent the emitted or reflected light from being exposed accidentally, all persons in charge who are using this system should be sure to wear the protective glasses.
- Be careful lest the light face eyes. Even in case that the output is low, you may suffer a fatal eye injury.
- Do not pull the power cord using force or touch the power plug with a wet hand. (There may be a risk of electrical shock or fire).
- Do not operate the device in a place where there are volatile substances like ductile anesthetics, alcohol, gasoline or solvents
- Always keep a fire extinguisher near the device

Do not give any treatment to follows people,

- hypertension, diabetes, hemophilia patient
- Menstrual period
- Pregnant woman
- within half a year after parturition

It requires an experienced therapist to use it and also patient cooperation for getting good results.

1) Before treatment

The first step in the treatment procedure is asking whether your patient has contradictions and did below things which decrease either the safety or effectiveness of their treatment.

- a) Sexual life should be avoided for 1 day prior to treatment.

b) Patients should wait 3 days after period.

- Evaluating your patient. Observe and document your patient skin color
- Discuss the treatment goals with your patient and establish realistic expectations based on the treatment area, her vaginal degree of tightness and her vaginal perimeter. If your patient vaginal still at mature age and has full cleaning function system, explain to her that it may not have very much effect because her vagina is still under the normal level numbers of collagen.
- Explain to your patient that during the course of the session, she may feel a gradual build-up of heat into the area being treated.
- When does vulva therapy, have your patient lied down, then shaves and cleans the area to be treated.

2) Starting treatment

For eye protection, the last step before starting the laser treatment is to ensure that the treatment room door is locked, and that you, your patient and anyone else in the treatment room has put on protective eyewear.

Let's set the system parameters to start treatment. We suggest you do a patch test with following method to get the appropriate parameters for each patient because each person has different skin impedance even same skin type

How to get appropriate parameters?

- a) Power is the joules per square meters. Before the treatment to do patch test on patients is suggested. Do not adjust power (make it stable at 100%) when you do vaginal inside treatment, only adjust duration is ok.
- b) Duration is how long time one pulse working on skin. E.g., 10ms means light lasting 10ms on skin. So the less number of duration, the less energy will be felt.
- c) Dots is how many dots will be shot in one round, means you step the pedal, how many hot trauma will be dug by laser.

For inside of vagina,

Range Of	3 steps	Power	Duration	Dots	PPS	Overlap	3 times shooting
Inside Vagina	First step	100%	6-8 ms	16	1	1	Each 1mm one circle treatment
	Second step	100%	6-8 ms	16	1	1	Each 3 mm one circle treatment
	Third step	100%	6-8 ms	16	4	1	Each 8mm one circle treatment

For vulva,

	Power	Duration	Distance	Interval
Range Of Vulva	9%	2.5 ms	0.6mm	1
	10%	2.5 ms	0.8mm	1
	11%	2.5 ms	0.8mm	1
	12%	2.5 ms	0.9mm	1
	13%	2.5 ms	0.9mm	1
	14%	2.5 ms	0.9mm	1
	15%	2.5 ms	0.9mm	1

Notice: Dark skin absorbs light easily, please always start parameter from low setting!

3) After treatment

- A. Pay attention to genital health after operation.
- B. Keep enough rest and genital clean after operation.
- C. Forbid sexual life within one week.

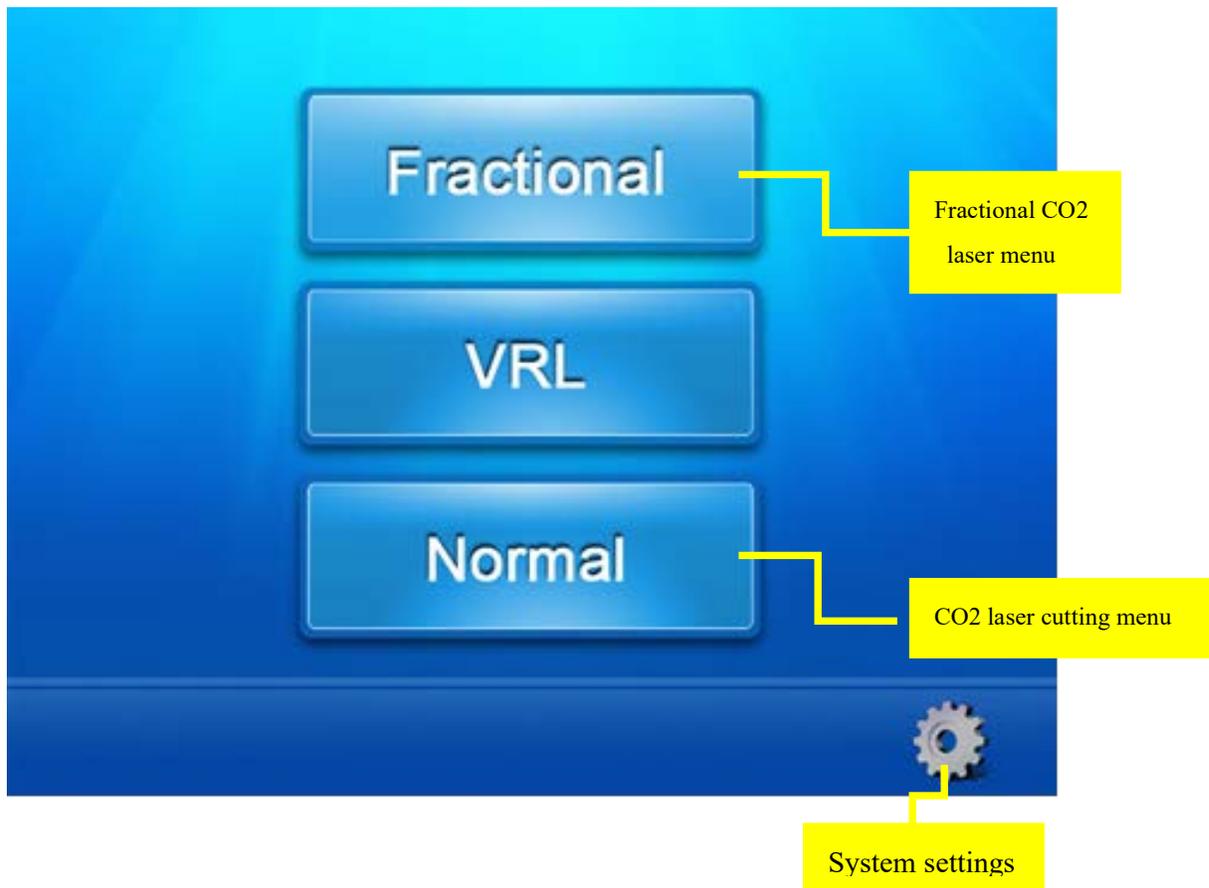
4) Effective

- A. Tighten vagina: fast tightening, continual tight and narrow, tightness increase 60%.
- B. Beautify vagina: reduce pigment, beautify labia, pink and softness increase 70%.
- C. Nourish vagina: improve secretion, eliminate vaginal dryness, moisture increase 80%.
- D. Maintain vagina: deep anti-aging, prevent aging, youth increase 80%.

VII. Fractional CO2 Model

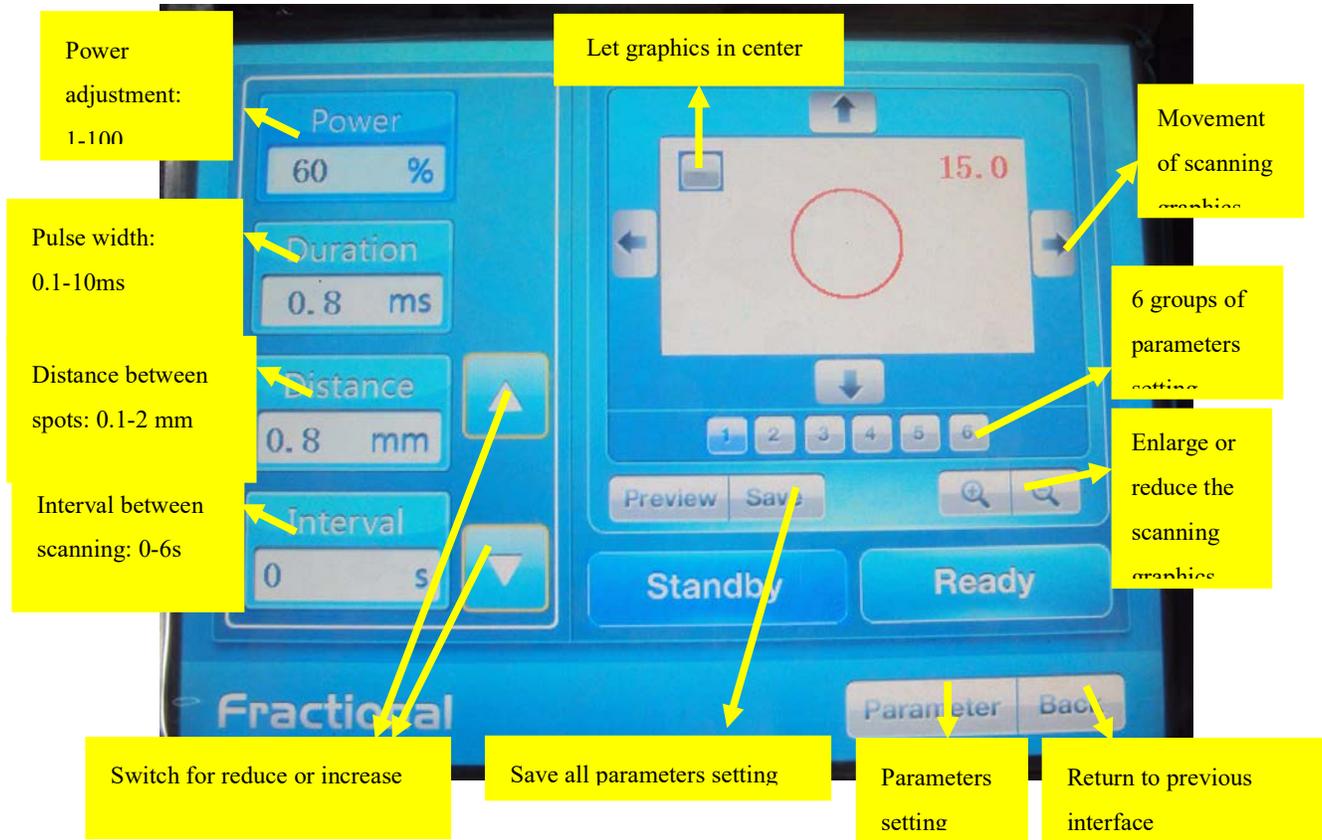
1) Menu screen

First interface (turn on machine and show picture 1); Two working modes are optional.



Picture 1

2) Fractional CO2 laser menu



△ is to increase , ▽ is to decrease

A. Power button: Adjust power from 1% to 100%

B. Duration button: Adjust the pulse width, the smaller the number, the smaller the shot. And if the number is larger, the energy is bigger. Scale of adjustment 0.1—10ms

C. Distance: The distance between shot and shot, adjust scale 0.1-2.0 mm

D. Back: Return to previous menu

E. button to enlarge or lessen the graphic: Enlarge or lessen the graphic

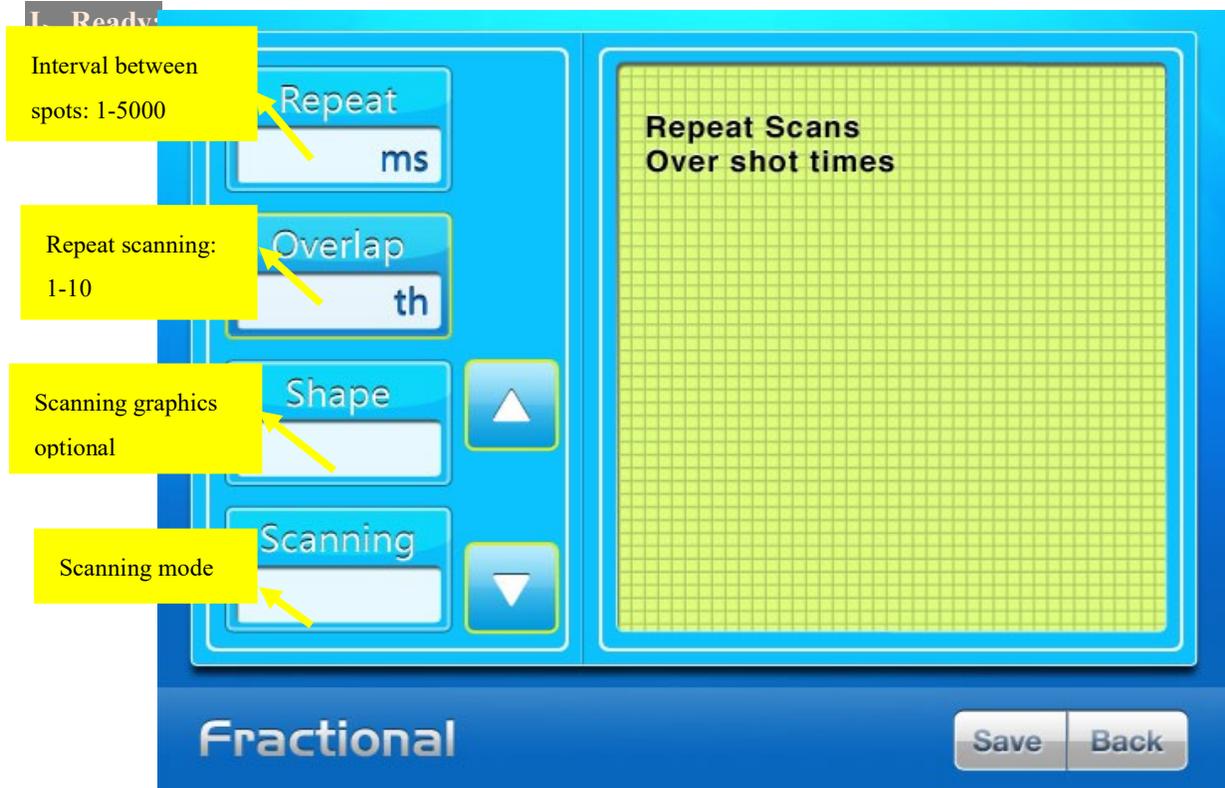
F. Save: Save the parameters after setting up

G. preview: Preview scan graphic and aim at treatment area

Usage: Before treatment, press preview button to preview

H. ①②③④⑤⑥: 6 menus to save five different groups data (parameters)

I. Standby: Press the button, the machine will go out of working condition



A. Repeat: Adjust the time between shot to next shot.

Scale of adjustment 1—5000ms

B . Overlap: Choose scanning times, adjust scale 1-20

C . Shape: Choose different graphics, there are 7 graphics totally

Use \triangle and ∇ to choose graphic

D. Scanning choose different scan methods:

1、 free scan, 2.Sequence scan 3、 maximum distance scan

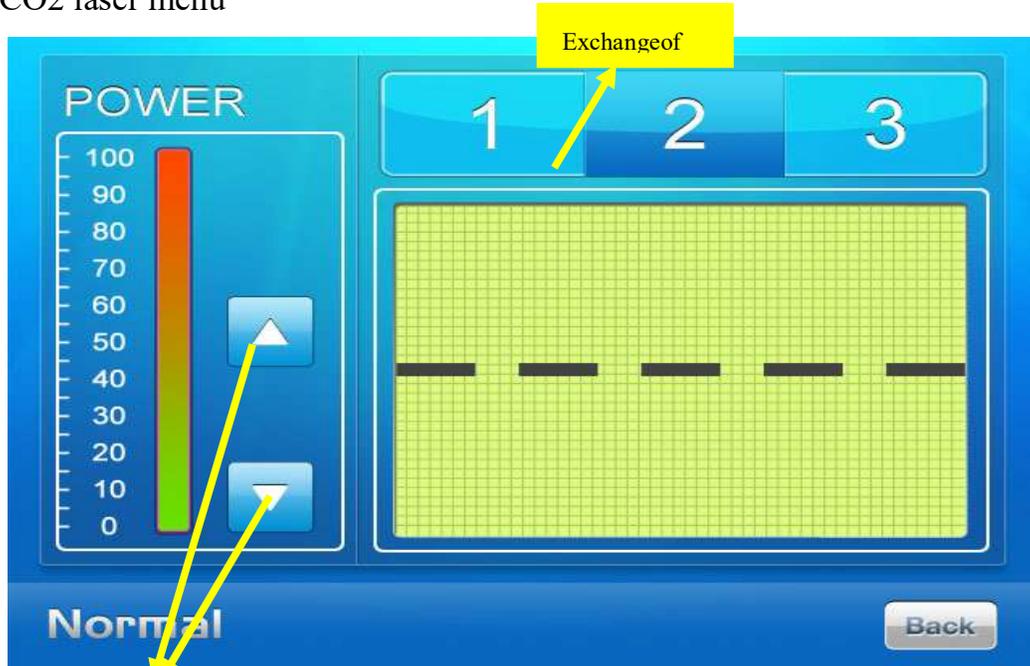
. \triangle & ∇ are used to choose scan method

E、 Save: Save the parameters after setting up

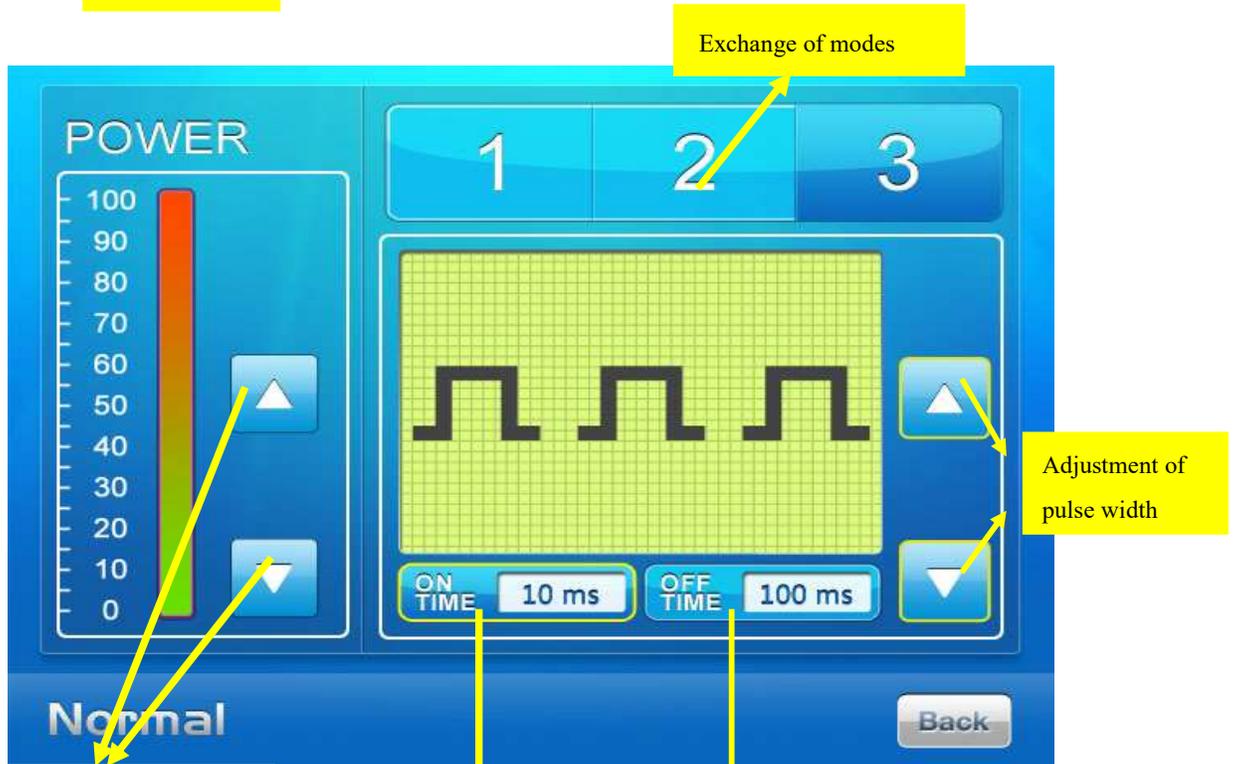
3) Treatment parameter setting:

Items	Power	duration	Overlap	Distance	Repeat	Mode	Interval
Rolling scars	10%	2.4	1-2, According to the patient's reaction, Until the target tissue turns to be white yellowish-white color	1-2mm	5ms	3	0
hyperplastic scar	24%	2.6					
Slight Stretch marks	15%	2.4					
Moderate stretch marks	20%-25%	2.4					
Heavy stretch marks	40%-45%	2.4					
Pigment	10%	2.4-2.6					
Wrinkles	Starts from 20%	0.3-0.8		0.8-2mm			
Skin rejuvenation	15%-20%	0.8-1		0.6-0.8mm	0.2-1		

4)CO2 laser menu



Energy



Energy adjustment

Width of pulse

Interval between pulses width

△ is to increase , ▽ is to decrease

A. Power button: Adjust energy from 1% to 100%, generally use 10%-15%

B. Exchange of mode button: exchange in 3 kinds of modes:

1. One pulse
2. Continuous pulses
3. Multi pulses

C. on time: it appears under mode 3, adjust pulse width; the smaller value the shorter time of output pulse, the bigger value the longer time of output pulse. Adjust scale 10-1000 mm

D. off time: It appears under mode 3, adjust interval between two pulse width; the smaller value the shorter interval, the bigger value the longer interval. Adjust scale 10-1000 mm

VIII. CLINICAL APPLICATION

1) Treatment course

A. wrinkle removal, acne scar removal

- a. 3-5 treatments per course
- b. interval per treatment: 3-4 weeks

B. Scar removal:

- a. 4-6 treatments per course
- b. interval per treatment: 4-5 weeks

C. Facial skin rejuvenation:

- a. 3-5 treatments per course
- b. interval per treatment: 3-4 weeks

2) Attentions during the treatment

- A. energy starts from low to higher, or it may burn skin
- B. every interval treatment time is no less than 3 weeks.
- C. don't wet skin after treatment in 24 hours
- D. don't expose treatment area in the sun after treatment in 7 days
- E. if there is not professional doctor, we suggest not using Normal Co2 Separately.

Daily maintenance and repair

- 1). machine insulation prohibited
- 2). take hope-pocket cover lens against dust, including whole machine, too
- 3). take care of probe (important)
- 4). keep machine good ventilation, and out of dust (important)
- 5). unprofessional operator prohibited