

# Fractional CO<sub>2</sub> LASER OPERATING



Shenzhen Bowei tech Co.ltd.

ADD:RM902;ShangMei Times;NO.57;LongGuan RD;Long Hua Dist Shenzhen, China;518000

Tel:86-755-29994192 13148703639

Email:sales@bowei-ch.com <http://www.bowei-ch.com/>

## Notes to users

### Dear users:

Thank you for choosing the equipment designed and manufactured by EILY, in order to get better effect of the product, below are our sincere advice, pls check:

- Before using the machine, pls carefully read this instruction, and properly keep for future reference
- Please installation, use and operation the machine according to the requirements of this instruction
- Please don't to disassemble the machine, and also don't change any parts of it
- Except the EILY authorized personnel, others to open the machine cover and open the main engine is prohibit
- Without authorization for repair and renovation is prohibit
- If there is any problem during operation, pls feel free to contact us

### Product information:

#### 1. Principle:

Vaginal tightening laser is the use of water uptake 10600nm gold standard laser, using a three-dimensional lattice technology and 360-degree circular emission perfect combination of technology, to produce 50-70 degrees Celsius in a controlled depth of the vaginal mucosa, stimulate lamina propria and myometrium newborn fibroblasts, and damaged collagen fibers, elastic fibers, such as restructuring, so as to achieve vaginal wall thickening and tightening of the vagina so that firmness, sensitivity enhancement, vagina tight as ever.

Vaginal tightening laser does not produce skin burns due to high temperature, each capable of Homogeneous heat, acting on a few hundred nanometers thickness Mucosa organization.

#### 2. Application

thermal radiation make Mucosa tissue contraction and collagen fibers thereby improving and restructuring vaginal tightening.

1. Shrink vagina: rapid tightening, constriction, lasting firmness.
2. Beautify vagina: dilute pigment, pink labia.
3. Moist vagina: increase secretion, eliminate dryness.
4. Maintenance vagina: deep rejuvenation, prevent aging.
5. To improve sensitivity.
6. Private health, balance PH, improve the internal environment.

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### 3. Specification

Wavelength:	10600nm
Laser apparatus:	Sealed off laser device simulated by direct current
Output power:	40w
Spot size:	0.02~0.05mm <sup>2</sup>
Aiming beam:	Red semiconductor laser (635nm, less than 5mw)
Beam transport device:	Articulated arm with 7-joint and balance weight
Working mode:	Continuous operation
Output Mode:	Continuous, single pulse, interval pulse and super pulse
Scan scope:	Max 20mmx20mm
Scan graphics:	Circle, triangle, square, rectangle, hexagon, ellipse, line
Scanning Mode:	Random, Normal and Midsplit scan
Scanning speed:	More than 10m/s
Energy:	1- 40W
Distance:	0.1-2.6mm
Cooling system:	air circulation
Weight:	60kg
Dimension:	58*70*108cm
Power:	220V/110V

### 4. Direction for Use

#### 1) Accessories list



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## 5. Instrument assembly steps:

10

11 Frac treatment head

Super pulse focusing head

7 Vaginal treatment head

8

9

1. Take out joint arm, connected it to the joint arm seat in the machine, and use coil to tighten it.

2. Connect the scanner socket and the top of the data socket

3. Insert the gas-guide tube on the panel jack on the machine, and tightening the screws.

4. Connecting the scanner light input interface and joint arm light beam output interface

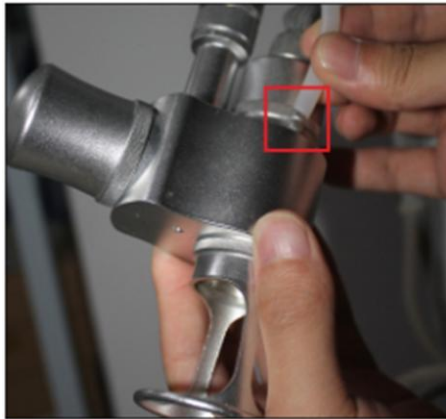
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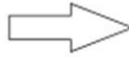
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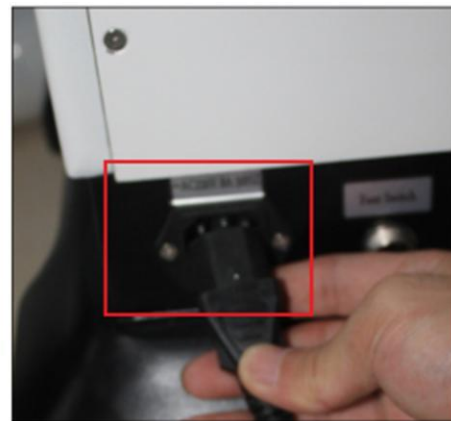
5. Connect the gas-guide tube on the graphics generator



6. Connected the filling funnel and tighten it, add water until the water overfall come out of water, then it's completed



9. Plug the foot switch and remote switch



10. Connect the 220V/110V power line

## 6. Installation

### 1) Checking

1. Check the packing box before open, if no abnormal, you can open it. Because the machine is equipped with laser tube and precision optical system, forbid pound and collision when open the box.

2. Take out the packing list after opening the box, then take out the host and spare parts

according to the packing list, check every spare parts, wire connections, confirmed no abnormal or troubleshooting before installation, if have any problem, please contact manufacturer timely, so that resolve the problem Quickly.

## 2) Fill distilled water

1. Press the stainless steel sheet at the above of the overflow hole, pull the water tube into the hole.

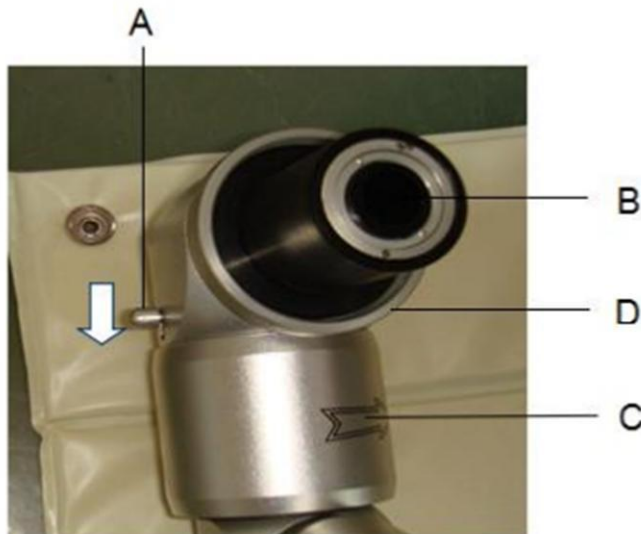
2. Put the tube into the affusion hole, do like as above said, fill distilled water, it's ok when the water overflow the overflow hole; after turn on the machine for 3 minutes, the machine need fill water again.

Attention: you can't pull out the tube from the affusion hole when using the machine. You need to change the water in every 60 days.

## 3) Installation of guide light arm

Guide light system was made up of guide light arm and connection seat .connection seat has fixed into the top of the shell. After check the guide light arm, connect it to connection seat, then fix the screws firmly.

**Attention: guide light arm only can move to the arrow direction.**



Move B 180 degree according to C, then press A according to the Arrow. Then insert B to the hole on main unit, then screw D, fix the guide light arm firmly.

## 4) Installation of the scan head

1. Whirl the scan head to clockwise direction.

2. Installation of control wire on the scan head, insert the control wire, then fix the screws firmly.

## 5) Installation of power cord and foot switch

1. Insert the power cord to the connector on the back of the machine, then check if firmly.

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2. Connect the foot switch, aim at the gap, whirl to the clockwise direction, check if firmly.

#### 6) change water

Put “add water” and ”run off water” connect, ventage plug connect run off water, then add water again.

## 7. Direction for use and Operating procedure

- 1) Turn on the power of device
- 2) Appear to be the stand-by screen as below when key switch is ON.
- 3) Select a mode (Fractional/Normal) and range of adjustment when the stand-by screen comes up.
- 4) Operate it by stepping FOOT SWITCH after completing every procedure
- 5) Detail instructions of each mode are as follows

## 8. Fractional system

The main screen of CO2 FRACTIONAL mode appears when selecting FRACTIONAL box at the standby Screen



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- 1) After selecting Power mode, the bottom of the screen using the UP, DOWN keys to set the power. (Range: 1W ~ 40W energy PE point for each point of energy)
- 2) After selecting the Duration mode, the bottom of the screen using the UP, DOWN button to set the dwell time point. (Range: 0.1ms ~ 10ms).
- 3) After selecting the Distance mode, the bottom of the screen using the UP, DOWN button to set the time interval.(Range: 1ms ~ 5000ms).
- 4) After selecting the Repeat mode, the bottom of the screen using the UP, DOWN keys to set the directions of light intensity. (Setting range: 1~5).
- 5) After selecting Overlap mode, the bottom of the screen using the UP, DOWN keys to set the spacing between points. (Range: 0.1mm ~ 2.6mm, dot coverage PE, percentage of coverage is the point.)
- 6) After selecting Shape mode setting emission patterns. (Each time you press when changing form)  
Transmitting forms: linear, square, rectangular, triangular, hexagonal, round and oval
- 7) select the scan (scan mode) mode, set the transmit mode (each mode change when press once), a total of three kinds).  
Transmission mode: Shuffle play, while the reference to the order of play, according to the maximum distance between two points play
- 8) use Save (Save) key to save the set value.  
First in the assigned key is just to save the set value, set a good example in the pres after the digital value in 1, then store (save) button, press the number 1 key to the future, the stored setting automatically entered Value.
- 9) After setting is completed, it will transmit standby (Standby) key into the ready (permitted by) mode, the ready (ready) mode, press the foot switch-emitting laser.
- 10) emitting laser, press (pre-read) key to display a preview of the effect of light indication.
- 11) After completion of launch, according to three top of the screen arrow to return to the standby screen.



Fractional model energy parameter reference table	
Power (W)	8~15, According to the degree of skin and repair itself the ability to choose, is generally used 9.
Duration(ms)	1.0~2.0, 1.0 is generally used, the greater the residence time, the laser acts on the skin longer, whereas shorter.
Repeat(ms)	1.0~2.0, 1.0 is generally used, the greater the interval, the faster the laser light, on the contrary, the slower.
Distance(mm)	1.0~2.0, 1.0 is generally used, the greater the spacing, the laser effects on the skin point of the more sparsely, on the contrary, more dense.
Scan	Generally used sequence.
Overlap(th)	1 is generally used, the laser shot times
Shape	The actual shape of the scar selected according to, generally used in the square.

(The above parameters are only limited reference, please be adjusted according to the actual situation)

## 9.Normal System:



1) After pressing the power button, use UP, DOWN keys to set emission energy.

Range: 1W ~ 40W

2) After pressing the mode key, the use of 1,2,3 key to set the transmit mode.

Transmission mode: Single (1), continuous (2), pulses (3)

3) pulse width, multiple action time, frequency, left and right to adjust.

**Predetermined area:**

Single, only the pulse width of the work, adjustment range: 10ms ~ 1000ms

When continuous, long open laser, no adjustment time

Pulse, only several action time, frequency function, adjustment range: 10ms ~ 1000ms

4) After setting the STANDBY (standby) into the READY (ready) state, then step on the pedal to laser output.

To return to the top in three arrow key to return to the previous screen.

Formal model energy parameter reference table	
<b>Single mode</b>	Power: (8~15)W, According to adjust the size of the mole the size of the fat particles, generally used 9W.  The residence time: (1.0 ~ 2.5) ms, generally used 1.5ms, the greater the residence time, the laser acts on the skin longer, whereas shorter.
<b>Continuous mode</b>	Power: (6~9) W
<b>Pulse mode</b>	Power: (6~12)W, Generally used 8W, according to the cut of meat the size of a mole skin tolerance and other adjustment

**(The above parameters are only limited reference, please be adjusted according to the actual situation)**

## 10. vaginal system:



- 1) Laser pulse mode: This feature is of the order of 360 laser shots, divided into three types, order, out of order, and the maximum distance. Use the picture of the plus and minus keys to set.
- 2) Shot counter: Use the picture of the plus and minus keys to set up to 10 times the commonly used value is 1 times.
- 3) Shap size: This feature is the size of the cone to the laser scanning on the screen using the plus and minus keys to set normal value is fixed, usually between 4.5mm-5mm, often without alignment.
- 4) Duratio: This feature is a single point of the laser burn time is an important parameter determining the amount of energy, the maximum value of 10, using the picture of the plus and minus keys to set common is 2-5.
- 5) Power: This function is the laser output power, an important parameter in determining the amount of energy, the maximum value of 40, using the picture of the plus and minus keys to set, generally set at between 33-40.
- 6) Spot size: This feature is the number of 360-degree laser spot of the week, the maximum value of 100, 4 units adjust the screen using the plus and minus keys to set, generally set at between 12-28, this value not too big, too, as the equivalent of peeling, vaginal stand.
- 7) Frequency: This function is the laser scanning turns, up to 10 laps, often a value

of 1 or 2.

8) 12345 for the preservation of five commonly used parameters, points Save, Save.

9) Preparations complete set (Ready), the parameter setting is completed, press the foot switch can work.

10) Stand by

11) Back

12) Plus and minus to set parameters to adjust, to go up or down.

Vaginal model energy parameter reference table	
<b>Power (W)</b>	inside vaginal treatment head: 10~20, According to the degree of pain and skin repair their own ability to choose, generally used in 15. Outside vaginal treatment head: 6~9, According to the degree of pain and skin repair their own ability to choose, is generally used 7.
<b>Duration(ms)</b>	1.0~2.0, 1.0 is generally used, the greater the residence time, the laser acts on the skin longer, whereas shorter.
<b>Spot size(mm)</b>	1.0~2.0, 1.0 is generally used, the greater the spacing, the laser effects on the skin point of the more sparsely, on the contrary, more dense.
<b>Scarn model</b>	Generally used in sequence
<b>Shot counter(th)</b>	1 is generally used, the laser shots time

**(The above parameters are only limited reference, please be adjusted according to the actual situation)**

## 11. Actual Operation

### Fractional laser mode:



First: Install graphics generator



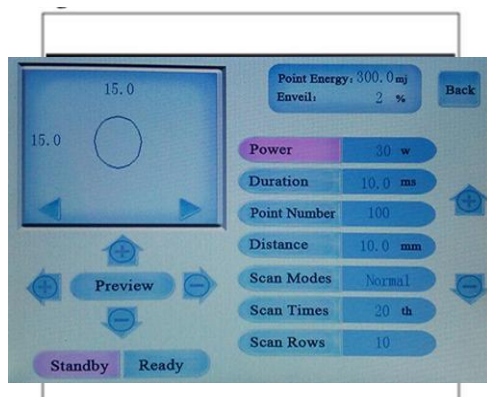
Second: The acceptor clean the treated areas



Third: If the treated area is in the face, pls wear the acceptor safety glasses



Fourth: The Operator wear the professional safety glasses



Co2 Fractional Laser Operation Interface



Fifth: Let the graphics generator aim at the treatment parts, and adjust to appropriate energy, with foot switch to control, then can begin to operate.

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# Normal model:



First: Install laser focusing head



Second: The acceptor clean the treated areas



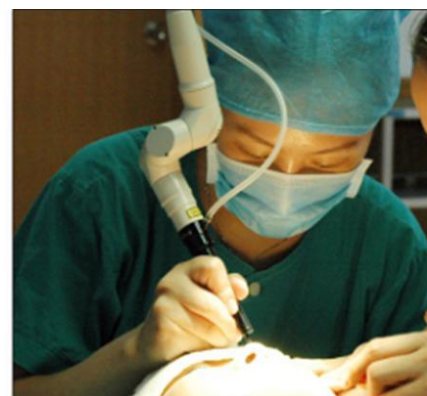
Third: If the treated area is in the face, pls wear the acceptor safety glasses



Fourth: The Operator wear the professional safety glasses



Co2 Fractional Laser Operation Interface



Fifth: Let the graphics generator aim at the treatment parts, and adjust to appropriate energy, with foot switch to control, then can begin to operate.



## Vaginal model:

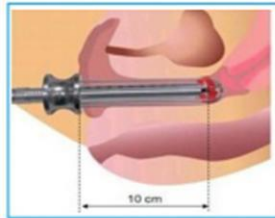


### Step1:

According to the treatment program select corresponding operation mode

### Step2:

Sterilization operations head and clean the treatment part

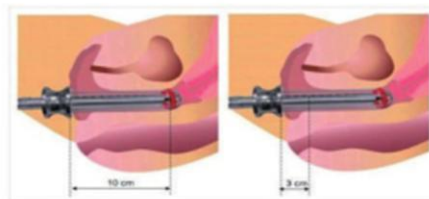


### Step3:

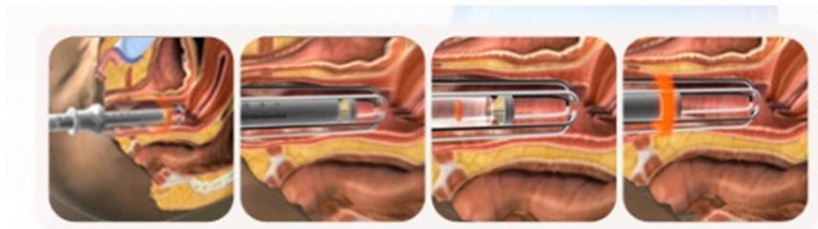
Let laser operations head into vagina and have a comprehensive treatment

### Step4:

Clean the treatment part after treatment finished



Step 1: Shone a laser on the whole vagina Step 2: Focus on irradiating the Vagina Front



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## **12. Maintenance:**

- 1) Notice to use purified water or de-ionized water, not the mineral water or tap water.
- 2) Be careful not to irradiate the machine avoiding the surface of machine injured.

## **Common Questions and Fixing:**

- 1) No signal after power on. The reason is that the power plug doesn't reach it, please directly connect the power plug.
- 2) No signal after power on because of the fuse blowing. Please replace the fuse with 5A/220V AC.
- 3) No signal on the screen because that the Crash-stop switch being pressed. Please lift the Emergency-stop switch up.
- 4) Touch-off light is off state pressing the button on the screen when the machine is on pre-ignition. One reason is that the Xenon Lamp is damaged need to replace a new one. Another reason is that the life time for Xenon is full, change a new one.
- 5) Water leaking out of machine, because of the impact during on shipment process. May in the tube joint. Please call the service people to deal with it.
- 6) If you feel the energy is not big enough or the curing treatment is not well enough, the reason maybe the temperature is too higher or no water in the machine and damaged the body machine. Please stop firstly, after half an hour starting the machine again.

## **Instrument maintenance and after-sales service**

1, the instrument from the date of purchase (with notes) host warranty 12 months, 6 months (non-artificial phenomena) free repair instrument malfunction. More than warranty period can also be responsible for maintenance, according to the regulations of the company to charge the cost of spare parts and consumables (transportation cost client). If need to supplement or purchase, please contact with the company.

2, for the following user personal causes of the fault, does not provide free maintenance warranty service:

- 1) to tear open outfit, modified the products caused by the fault;
- 2) the use of the company caused by the distribution of the adapter failure;



- 3)careless use, throw, drop caused by the fault;
- 4)the fault caused by the lack of reasonable maintenance;
- 5)not according to the instructions of the correct use and cause failure.

## Product warranty

### Product warranty card

The product name		The customer name	
Product model		phone number	
Purchase date		Contact address	
Maintenance date	The cause of the problem	Maintenance content	Maintenance people

**Thanks for using our products! We will give you the best after sales service and technology solutions! Thanks again!**