

Manual

nuCO2 FX



WORLD AESTHETIX

www.worldaesthetix.com

USER MANUAL

This manual contains important information on the use and operation of this machine.

Please read all the information carefully for optimal performance to prevent any damage or misuse of the machine. Any change or modification not expressly approved in this manual could void the warranty for this equipment

CATALOGUE

Basic Introduction

- Theory
- Advantage
- Application
- Contraindication
- Specification

Installation Instruction

- Accessory
- Installation step

Operation Instruction

- Before operation
- During operation
- After operation
- Recommended parameter

Other Information

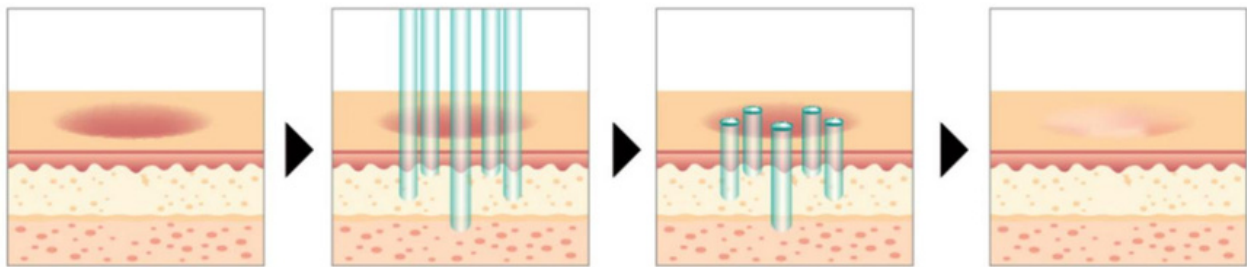
- Security
- Precaution
- Warranty
- Troubleshooting

Following these instructions will help you use the equipment efficiently and safely and will prolong the machine life.

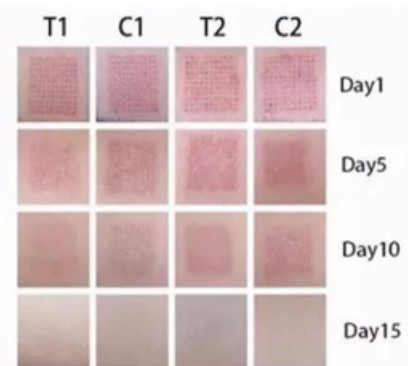
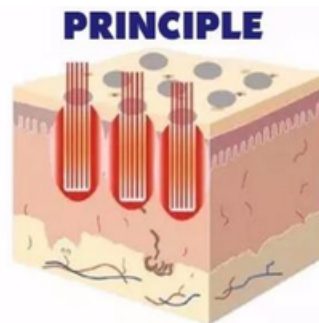
Basic Introduction

THEORY

nuCO2 FX by World Aesthetix is a 10600 nm fractional CO2 laser designed for high-impact skin resurfacing, scar remodeling, benign lesion removal, and gynecologic / intimate wellness treatments. Fractional, pulse, and dedicated gyne modes give you the control to smooth, tighten, and precisely vaporize tissue while protecting surrounding skin.



These thermal micro-columns treat the dermis superficially and also in depth, reaching the underlying layers of the dermis and stimulating collagen formation. In addition, this mechanism allows for individualized treatments, adapting them to the needs of each patient.



This CO2 fractional laser also applies for vaginal treatment and has a good effect.



Vaginal health:
Overall improvement
Reduce infection

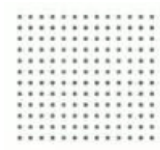
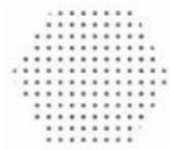
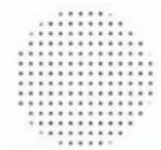
Vaginal sensitivity:
Cell regeneration
Response enhancement

Vaginal lubrication:
Secretion promotion
Dryness elimination

Vaginal tightening:
High-effective tightening

ADVANTAGE

- ❖ Fractional mode (aesthetic), Normal mode (surgery), Gynae & Vulva mode (gynecology), 4 modes can meet all needs of beautician, plastic surgeon, and gynecologist.
- ❖ The best quality RF laser tube, the famous "USA-Synrad" brand, it is not necessary to change it frequently in the future.
- ❖ 7-joint articulated arms imported from South Korea with high-quality lenses and best transmission efficiency.
- ❖ Mini-Stepping-Motors imported from Germany used in the arm, makes the laser shoot faster, the energy much more uniform and stable.
- ❖ High-quality constant current and constant voltage power supply ensure stable and continuous energy for the machine.
- ❖ Uniquely designed scan heads, easy to operate.
- ❖ Variety of scan graphics optional, applying for different skin types and treatment areas.



- ❖ Only 10~15 minutes is needed for the whole treatment process, efficient and fast.
- ❖ No downtime. No worry about the postoperative impact.

APPLICATION

Fractional Mode

- ✓ Skin rejuvenation
- ✓ Wrinkles removal
- ✓ Pigment removal
- ✓ Acne treatment

Normal Mode

- ✓ Sarcoma removal
- ✓ Nevus removal
- ✓ Grown nails removal
- ✓ Skin tags removal

Gynae & Vulva Mode

- ✓ Vaginal tightening
- ✓ Vaginal lubrication
- ✓ Vaginal sensitivity
- ✓ Uremic Treatment



Smooth scars, such as surgical scars, burned scars, acne scars, etc.



Skin renewal and repaving, especially recovery from sun



Eliminate wrinkles; Skin tightening.



Eliminate pigments, such as intractable chloasmas, age spots, etc



Acne treatment, Restore your beauty



Vaginal stretching; Vaginal whitening; Urinary incontinence

CONTRAINDICATION

- ❖ Pregnant and lactating women;
- ❖ Women who experience severe vaginitis, cervical erosion, metroptosis;
- ❖ Women who are subjected to abortion within three months;
- ❖ Patients with acute inflammation;
- ❖ Highly sensitive to treatment intolerance;
- ❖ Isotretinoin use within the previous six months;
- ❖ Active cutaneous bacterial or viral infection in the area to be treated;
- ❖ History of keloid formation or hypertrophic scarring;
- ❖ Ongoing ultraviolet exposure, prior radiation therapy to treatment area;
- ❖ Collagen vascular disease, chemical peel and dermabrasion;
- ❖ Patients with malignant tumours, heart disease, mental illness, severe hypertension, diabetes mellitus, systemic SLE, skin cancer, etc.

SPECIFICATION

Wavelength	10600nm
Power	1 ~60W
Laser Type	UltraPulse and CW
Treatment Mode	Fractional mode, Normal mode, Gynae mode, Vulva mode
Articulated Arm	Seven-join Arm
Scan Graphic Size	20mm*20mm(MAX)
Scan Graphic	Rectangle, Square, Triangle, Round, Hexagon, Linear
Scan Mode	Order, Center or Random
Screen	12" Color Touch LCD
Voltage	220/110V, 50/60HZ

Installation Instruction

ACCESSORY

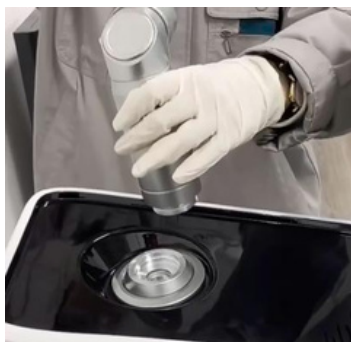
Picture	Description	Quantity
	Articulated Arm	1
	Fractional Head	1
	Normal Mode Heads	3
	Grinder Holder, Gynae Heads	1,2
	Vulva Heads	2
	Handle Support	1
	Protective Glasses	1,1
	Power Cord	1
	Foot Pedal	1
	Chain Safeguard	1
	Keys	2

Note: Subject to the actual delivery of accessories.

INSTALLATIONSTEP

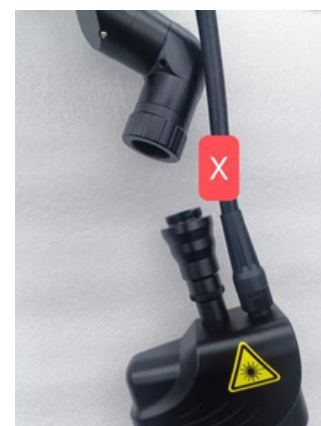
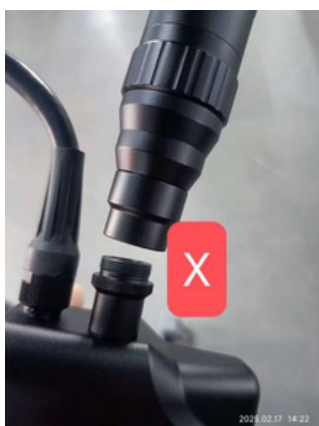
1. Articulated Arm Installation

Rotate and tighten the Articulated Arm into the screw slot.



2. Fractional Handle Installation

- Therapeutic head mounting. Note: do not remove more or less when replacing.

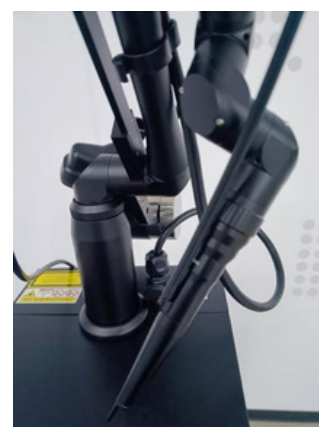




Connect the ends 1 and 2 of the laser galvanometer wire and the ends 3 and 4 of the blow wire as shown in the diagram.



3.Normal Handle Installation

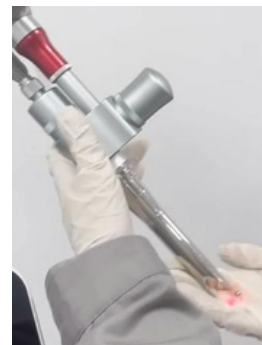


4.Gynae Handle Installation

Screw the gynae handle into the slot, and attach the grinder holder to gynae handle.



5.Vulva Handle Installation



6. Chain Safeguard Installation

Insert the chain safeguard into the **blue** port on the back of the machine



7. Foot Pedal Installation

Insert one end of the foot pedal into the gray port on the back of the machine.



8. Power Cord Installation

- Insert one end of the power cord into the **black** port on the back of the machine and another end into the power strip.
- Switch power button from "O" to "I" position.



Operation Instruction

BEFORE OPERATION

- It is necessary that users should read the manual carefully prior to the application of this machine.
- Consult whether the patient has the above contraindications.
- Pre-operative agreement signed, photographed and filed.
- Prepare sterile saline, non alcoholic povidone iodine, anesthetic, vaginal speculum, small and big cotton swabs, gloves, ice bag, gauze, leather knife etc. before treatment.
- It is suggested that this machine is operated in a separate room.
- Disinfect the treatment heads and other therapeutic devices.
- The treatment surface must be strictly disinfected during CO2 treatment, especially when subcutaneous infiltration anesthesia is required.
- When disinfecting the treatment area with alcohol, avoid running the alcohol into the hair and always dry it with a dry sterile gauze before performing the treatment.
- For fractional treatment, a superficial anesthetic can be used.
- When treating around the eyes, take care to protect the patient's eyes, protective goggles are required.

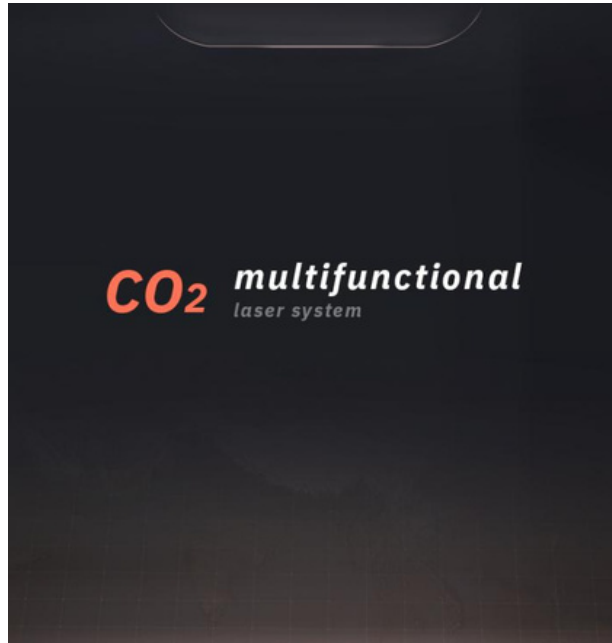
DURING OPERATION

1. Turn on the machine:

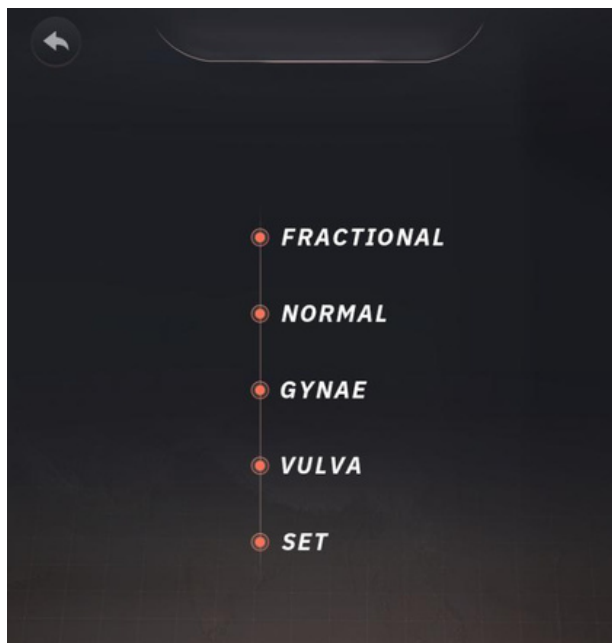
- Turn the **red emergency button** clockwise and it will bounce up, which indicates that the machine is unlocked. If the red emergency switch is pressed down, the power will be shut off immediately. It should be released when you are trying to start the machine.
- Turn the key clockwise from OFF to ON and the machine starts working.



2. After turning on the machine, you will see the initial screen as shown below.



3. Click the "CO₂ multifunctional laser system" button to enter into the following interface. There are 4 working modes ("Fractional", "Normal", "Gynae", and "Vulva") and "SET" available on the main screen.



4. Click "FRACTIONAL" to enter into the treatment level selection interface.



- Light: Shallow resurfacing mode.
- Deep: Deep activation mode.
- Fusion: Mixed mode, deep then shallow.
- Classic: Classic mode for experienced operators, adjust parameters as needed.

➤ Click “Light” to enter into the following interface.



Energy: Energy

Times: Number of times the light is emitted.

Total points: Total number of laser points.

Distance: Laser dot spacing.

Order : Laser output mode.

Graphics : Graphics selection.

Preview, Pause, Start : Preview, Pause, Start.

Light Mode for the treatment of: epidermal superfluous organisms: age spots, sun spots, freckles, age warts, etc.

Skin rejuvenation: enlarged pores, rough skin.

Spiral light output, laser only works on the surface of the skin.



➤ Click “Deep” to enter into the following interface.



Energy: Energy
Times: Number of times the light is emitted.
Total points: Total number of laser points.
Distance: Laser dot spacing.

Order Center Random : Laser output mode.

Y **X** : Graphics selection.

Preview **Standby** **Ready** : Preview, Pause, Start.

Suitable for sagging, wrinkles and other aging skin problems. Deep penetration, which can reach the dermis, to activate collagen, promote collagen regeneration.



➤ Click “Fusion” to enter into the following interface.



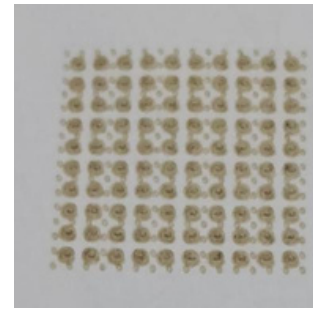
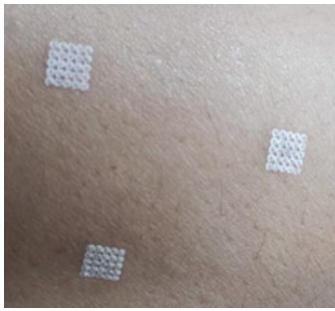
Energy: Energy
Times: Number of times the light is emitted.
Total points: Total number of laser points.
Distance: Laser dot spacing.

Order Center Random : Laser output mode.

Y **X** : Graphics selection.

Preview **Standby** **Ready** : Preview, Pause, Start.

For the treatment of scars/acne pits, first activate the subcutaneous tissue to soften the connective tissue, then activate the basal layer superficially to awaken the skin regeneration function.



➤ Click “Classic” to enter into the following interface.



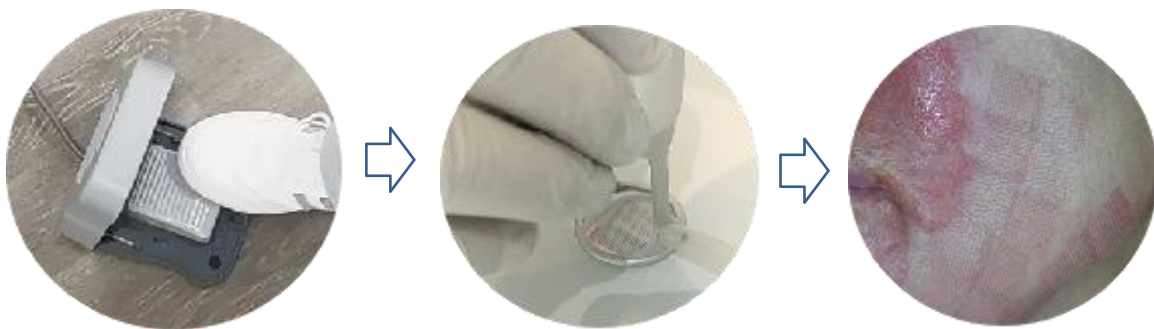
The treatment head will display in the upper right corner of the screen.

a. Click on the on-screen parameters to set from low to high depending on the size of treatment area and the feeling of patient

- Click the “+” or “-” button to increase or decrease the value of “Power” (1w~60w) accordingly.
- Click the “+” or “-” button to increase or decrease the value of “Pulse Width” (0.1ms~10.0ms) accordingly.
- There are FIVE groups of common parameters optional, you can edit and save.
- Click “○ □ △ ▢” to choose the scanning graphic (Beam Spot Shape) (“Round”, “Hexagon”, “Triangle” or “Square” optional) according to the shape of treatment area and the selected shape will sync in the right area.
 - ◆ Click “<” or “>” to decrease or increase the horizontal axis dimension(mm) of a scanned beam spot shape (1.0mm~20.0mm).
 - ◆ Click “^” or “v” to increase or decrease the longitudinal axis dimension(mm) of a scanned beam spot shape (1.0mm~20.0mm).

◆ When one graphic is selected ,click “SYNC” button and adjust any of the the(“>”&“^”) or (“<” & “v”) to increase or decrease the length and width of the graphic **equally and simultaneously**.

- Click “Times” (1~10th) to adjust the number of scanning.
 - Click “Distance” (0.5mm~10.0mm) to adjust the distance between two points.
 - Choose scanning mode: “Order”, “Center” or “Random”.
- b. Wear gloves, clean and sterilize the fractional head and screw it to the scanning handpiece.
- c. Put on protective goggles for the operator and patient to protect their eyes from the laser.
- d. The face or treatment area is numbed with local anesthesia.
- e. Click “Preview” to make this machine emit a red laser. Press “Ready” button, and the machine will start..
- f. When stepping on the pedal, the treatment head is moved across the skin and a powerful light beam is emitted section by section. Each ablated area is treated in a preset pattern, which may sometimes leave behind a tiny mark on the skin. The patient may feel like a rubber band snapping at the treatment site.
- g. After scanning, the machine will no longer emit laser and then release the pedal. Or release the foot pedal to stop lasing at any time.
- h. After treatment, unscrew the treatment head, clean, sterilize and store it away.



Note:

- Energy (mJ) = Power (w) * Pulse Width (ms). The “Energy” value goes from small to large, its color changes from blue (low, safe value), to yellow (medium, cautionary value), and then to red (high, warning value).
- T he “Total points” is determined by “Time”, “Shape” and “Distance” and any one changes, it will change automatically.
- T he smaller the “Space”, the higher the total energy and the more prominent the thermal destruction effect.
- Click “**Continuous Mode**” button, the “Times” and “Total Points” setting will be skipped. During the treatment, the lasing won’t stop until the operator releases the foot pedal switch.

5.Click “**NORMAL**” to enter into the corresponding treatment interface.

The treatment head will also display in the upper right corner of the screen.

- a. Click on the on-screen parameters to set.

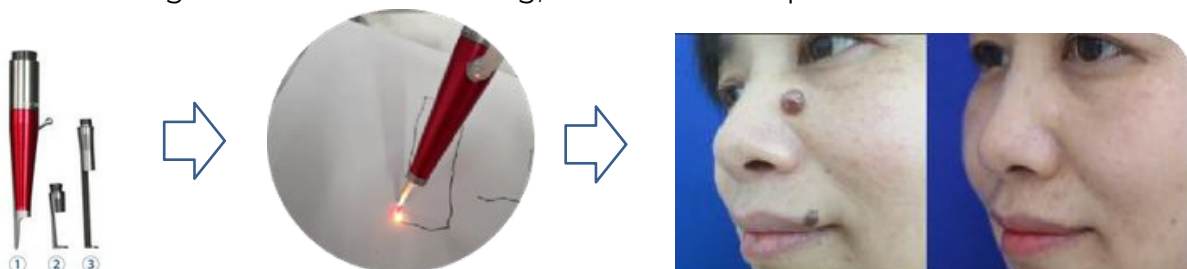
- Click     to choose the PULSE TYPE ("Continuous", "Single pulse", "Continuous pulse" or "Ultra pulse" optional) according to the therapeutic needs and the selected pulse type will sync in the right area.
 - ✓ Click  to choose the "Continuous", only "Power" needs to be set. Click the "+" or "-" button to increase or decrease the value of power (1w~60w) accordingly
 - ✓ Click  to choose the "Single pulse". Click the "+" or "-" button to increase or decrease the values of "Power" (1w~60w) and "Pulse Width" (0.1ms~20.0ms) accordingly
 - ✓ Click  to choose the "Continuous pulse". The same way to increase or decrease the values of "Power" (1w~60w) and "Pulse Width" (1ms~50ms) accordingly. Click "Pulse Interval" and click "<" or ">" to decrease or increase the value (1ms~50ms) accordingly.
 - ✓ Click  to choose the "Ultra pulse". Adjust "Power" (1w~60w), Pulse Width (0.1ms~1.0ms), Pulse Interval (1ms~100ms) in the same way as above.
- Click any one of the FIVE groups of common parameters and click "Save" button to save



b. Put on protective goggles for the operator and patient to protect their eyes from the laser.

Press the "Ready" button, and the machine will start.

Hold the treatment head close to the skin tissue needed to be cut, step on the foot pedal and move along the tissue. After cutting, release the foot pedal.



Note: □

- Probe 1: Surface treatment;
- Probe 2 & 3: Cut at the base of the flab.
- Two or more pulses are required to create a pulse interval. So there will be pulse intervals in “Continuous pulse” and “Ultra pulse” modes. □
- Energy (mJ) = Power (w) * Pulse Width (ms). The “Energy” value goes from small to large, its color changes from blue (low, safe value), to yellow (medium, cautionary value), and then to red (high, warning value). □
- Please refer to the next part for recommended parameters.

6. Click “GYNAE” to enter into the corresponding treatment interface

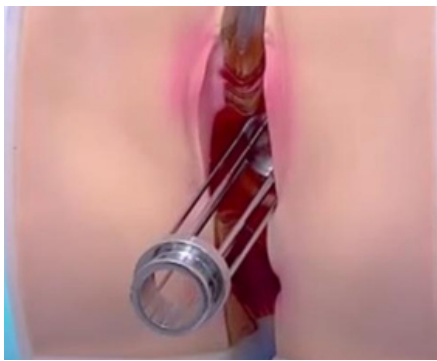


- Choose a scan graphic:  “Round”(360°head)or “Square”(45° head) according to treatment needs and the selected shape will sync in the right side.
- Adjust parameters from low to high depending on the size of the treatment area and the personal feeling of patients (Refer to the previous screen for key operation).
 - “Power” (w): Set the working energy
 - “Pulse width” (ms): Set the laser beam dwell time.
 - “Distance” (0.3mm~1.5mm):Adjust the distance between two points.
 - “Times”(1~10th):Adjust the number of scanning.
 - Thereare FIVE groups of common parameters optional, you can edit and save.

*Energy (mJ) = Power (w) * Pulse Width (ms). The “Energy” value goes from small to large, its color changes from blue (low, safe value), to yellow (medium, cautionary value), and then to red (high, warning value).*

- With gloves on, the doctor shaves and cleans the treatment area, then applies anesthesia.
- Sterilize the grinder holder and gynae head (360° head and 45° head)

- e. Put on protective goggles for the operator and patient to protect their eyes from the laser.
- f. Then do the sensitivity test. Put the grinder holder into the vagina about 7cm slowly and gently. Usually erythema, edema, and tolerable pain mean that energy is properly.
- g. Put the gynae 360° treatment head or 45° treatment head according to the patient's therapeutic needs into the grinder holder slowly. Press the "Ready" button and the foot pedal is stepped, and the light is emitted. Move back the gynae head half to 1cm step by step until it reaches the vaginal mouth (*The treatment head must be positioned perpendicular to the surface of the treatment area during the entire treatment.*)



- h. The machine will stop automatically when the scanning time is finished. Or release the foot pedal to stop lasing at any time.
 - i. Apply a cold compress immediately to the patient's treatment area(10 seconds in one way area to avoid cold injury and the total time is about 30 minutes).
 - j. After treatment, sterilize and disinfect the treatment head with high temperature.
7. Click "VULVA" to enter into the corresponding treatment interface.



- a. Choose a scan graphic:  "Round" or "Square" optional according to the shape of the treatment area and the selected shape will sync in the right area.

- ◆ Click “ < ” or “ > ” to decrease or increase the horizontal axis dimension(mm) of a scanned beam spot shape (1.0mm~9.0mm).
- ◆ Click “ ^ ” or “ v ” to increase or decrease the longitudinal axis dimension(mm) of a scanned beam spot shape (1.0mm~9.0mm).
- ◆ When one graphic is selected, click “SYNC” and adjust any of the (“>” & “^”) or (“<” & “v”) to increase or decrease the length and width of the graphic **equally and simultaneously**.

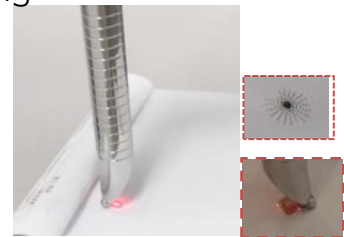
b. Adjust parameters from low to high depending on the size of the treatment area and the personal feeling of patients (Refer to the previous screen for key operation).

- “Power”(w): Set the working energy. □
- “Pulsewidth” (ms): Set the laser beam dwell time. □
- “Distance” (0.3mm~1.5mm): Adjust the distance between two points. □
- “Times”(1~10th): Adjust the number of scanning. □
- There are FIVE groups of common parameters optional, you can edit and save.

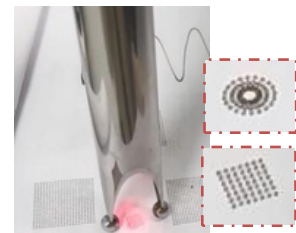
c. With gloves on, the doctor shaves and cleans the treatment area, then applies anesthesia.

d. Sterilize and install one suitable vulva head according to the patient's therapeutic needs.

- Vulva head A type: For the vestibule, vaginal mouth, labia minora for external strengthening and finer treatment after vaginal tightening



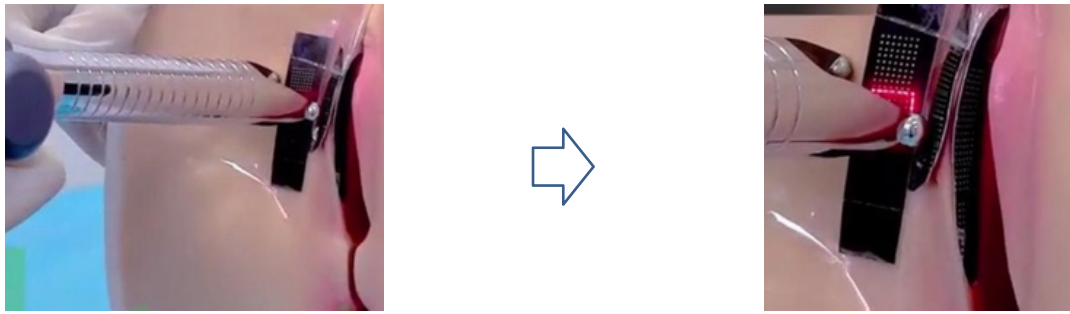
- Vulva head B type: For the treatment of vulva atrophy improve the vulva color and areola color from black to rose.



e. Put on protective goggles for the operator and patient to protect their eyes from the laser.

f. Press the “Ready” button and the foot pedal is stepped, then do the sensitivity test first. Usually erythema, edema, and tolerable pain mean that energy is properly.

g. The treatment head is in contact with the skin and perpendicular to the skin surface, but does not compress the skin, covering 10% of each light spot to avoid mixing and different skin tones to flatten the folds and enhance the effect. Treat one to two times depending on the situation.



- h. The machine will stop automatically when the scanning time is finished. Or release the foot pedal to stop lasing at any time.
- i. After treatment, turn off the power, clean probe and working area, etc. And disinfect the treatment head with high temperature.

Note: □

- Energy (mJ) = Power (w) * Pulse Width (ms). The “Energy” value goes from small to large, its color changes from blue (low, safe value), to yellow (medium, cautionary value), and then to red (high, warning value). □
- Please refer to the next part for recommended parameters. □
- Use of cotton swabs, saline for synergistic cleaning during operation. □
- Constant communication with the patient during the procedure to ensure efficacy and tolerability. □
- Any sudden situation during operation, please press the Emergency Stop button down.

AFTER OPERATION

1. Depressed scars, pigmented nevi, granulomas, scars:

- ❖ The wound will show varying degrees of redness, blistering, oozing, bleeding and crusting for 1 to 2 days after surgery. The scab will fall off naturally in about 1 to 2 weeks and should not be removed early to avoid unevenness or scarring of the skin after healing.
- ❖ If there is a delay in the removal of the scab (more than 3 weeks), contact the treating doctor promptly. Apply antibiotic ointment to the wound once or twice on the same day after surgery, or take oral antibiotics for 5-7 days as prescribed by the doctor.
- ❖ Avoid skincare, make-up, rubbing, strenuous activities, alcohol, spicy and irritating food, photosensitive drugs and sunlight to prevent infection or hyperpigmentation after the scab has fallen off.

2. Skin tightening and rejuvenation, wrinkle reduction, pore reduction:

- ❖ After the procedure, there may be transient burning pain, erythema or small blisters on the treated area. This usually subsides within a few hours to 24 hours. If the blisters are large, contact your surgeon for prompt management.
- ❖ A small number of patients may experience mild facial swelling the day after surgery.
- ❖ Avoid hot baths, saunas, touching, rubbing, strenuous activity, alcohol and spicy food until the blisters or swelling have subsided.
- ❖ For dry skin in the treated area after surgery, topical moisturising skin care products can be used as appropriate.
- ❖ The treatment interval is approximately 3 to 4 weeks and delays in treatment may affect the effectiveness of the treatment.
- ❖ After satisfactory results have been achieved, maintenance treatment is recommended at intervals of 3 to 6 months to consolidate the results.

3. Sweat duct tumours, lid xanthomas, warts:

- ❖ When treating xanthomas of the upper eyelid area, it is important to protect the eye with a lid plate or inner eye shield before continuing treatment. Large lid xanthomas or sweat duct tumours are best removed surgically for aesthetic reasons and for quick recovery.
- ❖ Warts caused by viral infections are treated externally with lasers in conjunction with a combination of medication.
- ❖ Since sweat tumours, lid tumours and warts have a risk of recurrence. They all require local infiltration of lidocaine under the skin.
- ❖ Given that the majority of sweat duct tumours and lid xanthomas are around the eyes, it is important to advise the patient that the oedema in the eyes is high after treatment, and that the more swelling there is, the slower the swelling will be and the slower the recovery will be.

4. Post-operative care

- ❖ Growth factors or antibiotic ointment may be used until the crust falls off.
- ❖ Avoid contact with water in the treated area and shower on the third day after treatment.
- ❖ Do not rub or forcefully remove the crusts, they should be allowed to fall off naturally.
- ❖ Apply sunscreen (at least SPF 30) to the treated area as soon as the scabs fall off and at least 1 hour before going out.

RECOMMENDED PARAMETER

Fractional Mode

LIGHT						
Indications	Energy (mj)	Distance (mm)	Times	Mode	Interval (month)	Sessions (th)
Enlarged Pores	8-15	1.2--2.0	1	Random	2-3	2-3
Freckles, Age Spots	5-10	1.2-1.5	1	Random	1.5-2	1-2
Age Warts	8-12	1.2-1.5	1	Random	1.5-2	1-2

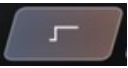
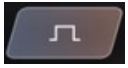
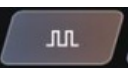
DEEP						
Indications	Energy (mj)	Distance (mm)	Times	Mode	Interval (month)	Sessions (th)
Firming & Anti-Aging	8-15	0.8-1.0	1	Random	2-3	2-3
Wrinkle Reduction	10-20	0.6-0.8	1	Random	1.5-2	2-3
Dermatitis	5-10	0.6-1.0	1	Random	1.5-2	2-3

FUSION						
Indications	Energy (mj)	Distance (mm)	Times	Mode	Interval (month)	Sessions (th)
Scars	10-20	1.2-1.5	1	Random	2-3	2-3
Acne Pits	10-20	1.2-1.5	1	Random	2-3	2-3
Stretch Marks	8-16	1.2-1.5	1	Random	2-3	2-3

Classic							
Indications	Power	Pulse Width	Distance (mm)	Times	Skin Reaction	Sessions (th)	Positive Effect
Acne Scarring	7-10	2.5	1.0	2	Erythema, oozing	1-2	After 2-3 sessions
Skin Rejuvenation & Tightening	5-8	2.5	1.0	1	redness and swelling	2-3	5 times later
Wrinkle Reduction	7-10	2.5	1.0	1	redness and swelling	2-3	5 times later

Pore Expansion	5-8	2.5	1.0	1	redness and swelling	2-3	5 times later
Scar Removal	10-15	2.5	1.0	2	Redness, swelling,oozing	1-2	After 2-3 times
Hormonal Dermatitis	4-8	2.5	1.0	1	Microreactions	1-2	5 times later
Acne Scarring	7-10	2.5	1.0	2	Redness, swelling,oozing	1-2	After 2-3 times

Normal Mode

Mode	Indications	Total Energy (mj)	Power (W)	Pulse width (ms)	Interval. (ms)
	Pigmented nevi, various vegetations	NA	3-5	NA	NA
	Depressed/hypertrophic scars, acne pits	100-200	5-10	20	NA
	Pigmented nevi, genital warts	15-49	5-7	3-7	5-10
	Moles (smaller), flat warts, genital warts, cystic acne	10-75	5-15	2-5	5-10

Gynae & Vulva Mode

Indications	Point spacing. (mm)	Power (W)	Pulse width (ms)	Post-treatment reactions	Remarks
Vaginal tightening	0.6-0.8	15-20	2-3	No significant	The interval is about 4 weeks
Pink vulva, tightening vaginal, pink areola	1.2-1.4	8-10	2-3	No significant	The interval is about 4 weeks

Note: These parameters and pictures above are ONLY FOR REFERENCE! Those applied in practical operation should be adjusted according to personal feeling and actual physical conditions.

Other Information

SECURITY

To protect personal safety of operator and patient, this machine adopts an excellent design and production plan, despite of which the energy output of laser may also cause serious harm like burn, blindness, fire and explosion if the operation is carried out by inexperienced persons. Thus, read this chapter as well as other relevant information carefully.

Anti-fire Regulations

Inflammable and explosive objects have fire hazards, so operators need to take protective measures in advance: □

- Keep all the inflammables like narcotic, desiccant factice and synthetic resins away from the operation room. □
- It is forbidden to place liquid like alcohol and gas like oxygen near the machine. □
- Paper and plastic are banned to be placed near the work area of this machine

Anti-electric Regulations

The power source which the machine uses should match the tagged value well. Otherwise, it will not work, and even burn out. Therefore, operators must be cautious in the using process:

- Since the high voltage will be generated in host machine after the power is shut down about five minutes, opening the machine at will is prohibited to prevent electric shock. □
- It is banned to radiate non-treatment area. □
- When installing or operating the machine, keep it away from water and wet hands to prevent splashing with liquid. □
- The operators shall operate this machine in accordance with this manual. □
- During operation, a warning sign should be hung on the door to prevent irrelevant people from accessing the treatment room. □
- When this machine is not in use, power it off and disconnect the power line out of safety concerns.

Laser Instruction

- This machine emits visible red semiconductor laser and invisible CO2 laser both of which are harmful to human body: □
- It is banned to observe the laser beam because it will reflect or scatter after radiation. Otherwise, the damage to retina may be caused. □
- Ornaments that can reflect light should be taken off to prevent the harm caused by laser-bounce. □
- Operators and patients must wear protective goggles in working area.

Other Cautions □

- Do not shoot the light beam directly on the machine. □
- If any abnormal phenomenon occurs, stop the treatment and cut off the power immediately.
- Only the specialized persons empowered by our company are entitled to do the maintenance work. □
- Disassembling our machine and not operating it in accordance with the manual are not allowed. □
- Please pay continuous attention to the environment temperature



PRECAUTION

- Put the machine on the flat and stable surface.
- Check the main machine, accessory and the power cable are intact well before use.
- The machine is fragile. Do not drop it.
- Clean the machine with a wet cloth but make sure no liquid penetrates.
- Do not operate the machine with wet hands.
- Do not bend or turn the power cable and the wires.
- Before you clean or transport the machine, make sure that it is switched off and the power cable is unplugged.
- Put the equipment in a ventilated area. Do not cover the fan or the machine nor put any objects on it.
- Do not use the machine in the toilet or near a microwave or oven. Make sure that the power cable is not worn or broken before you plug it.
- The operator must be trained to be familiar with the structure and performance of the equipment and master how to operate the system.
- Users under 18 years old are not allowed to use the machine.
- The machine cannot be used on animals.
- Do not use the machine for other purposes than those described in this manual. The operating temperature should be in good control.
- The treatment button should always be pressed by hand.
- When there is an error, the system will show a message to the operator, no operation is allowed in this case.
- Turn off the power after the operation. When not in use, be sure to unplug the power cable from the power outlet.
- Please take good care of the machine. The power cable and accessories should be carefully inspected before operation. If there are any traces of damage, stop using them and replace them with a new one.

WARRANTY

All products are strictly tested before delivery. Free repair warranty from date of purchase , during which the maintenance for any breakdown due to non-artificial factors will be performed free of charge. Accessories are not included in the warranty ,so please contact us if needed.

The standard of the operation process and the environment should be in accordance with all the instructions above.

- Malfunctions caused by the following factors are out of the warranty:
- Malfunctions caused by artificial factors like improper movement, collision, etc..
Malfunctions caused by uncontrollable natural force. □
- Abuse operation that is against the manual, like connecting wrong VAC input or using the machine for other purposes. □
- Energy diminishing caused by wet environment or dust

TROUBLESHOOTING

Problem	Possible Cause	Solution
The machine won't start	1. It is not plugged correctly 2. The power cable is not well connected 3. The power button is off 4. The fuse is damaged 5. The electrical circuit is damaged 6. The power cable is broken	1. Check the plug 2. Check the power cable 3. Press the power button 4. Change the fuse 5. Contact the technical service 6. Change the cable /Contact the technical service
The buttons don't work	Defective buttons or damaged circuit	Contact the technical service
The machine won't start or dissipate heat	1. Defective connections 2. Defective handle cable or badly connected handle 3. Breakdown of electrical circuit	1. Check the connection 2. Connect the cable correctly 3. Contact the technical service
The machine works, but the effectiveness has diminished	1. Bad connection of handle 2. Piezoelectric transducer damaged 3. Mechanical damages in handle or machine	1. Connect the handle correctly 2. /3. Contact the technical service



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