

# INCREDIBLE Fractional Multi-CO<sub>2</sub> Laser™

User Manual



## INCREDIBLE Devices

The INCREDIBLE Fractional Multi-CO<sub>2</sub> Laser™ User Manual offers detailed instructions for effective skin resurfacing treatments and maintenance.

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## Chapter 1 – Introduction

### 1.1 – Theory

*Fractional Laser Technology* has been the latest and most popular skincare technology in North America, garnering the most attention in the global dermatology community over the past two years. It represents a minimally invasive procedure, somewhere between invasive and non-invasive.

The theory of fractional laser treatment, known as Fractional Photothermolysis, was first published in 2004 by Dr. Rox Anderson, a laser medicine expert at Harvard University. It quickly gained worldwide recognition and clinical application. Fractional Photothermolysis is an extension of traditional Selective Photothermolysis. It combines the rapid, significant results of invasive procedures with the minimal side effects and short recovery time of non-invasive procedures.

Fractional laser treatment uses laser light to create evenly distributed microscopic holes in the skin, triggering a series of biochemical reactions that tighten, rejuvenate, and remove dark spots. Because fractional laser treatment only covers a portion of the skin, and the newly created holes do not overlap, some healthy skin is preserved, accelerating recovery. Patients can resume their normal activities after four to five days.

The procedure itself is relatively safe and can be performed on any part of the body. Indications include acne scars, fading and eliminating pigmentation, surgical scars, traumatic scars, burn scars, melasma, poikiloderma of Civatte, wrinkles, sagging skin, and photoaging. These applications are currently being used clinically both domestically and internationally, with proven efficacy.

### 1.2 – Function

1. Acne scars
2. Lightens and eliminates dark spots and melasma
3. Surgical scars, traumatic scars, and burn scars
4. Wrinkles, sagging skin, and photoaging
5. Facial rejuvenation

### 1.3 – Taboo

- Pregnant women.
- People with a history of keloids.
- People with active herpes or skin damage.
- People with severe diabetes, hypertension, or epilepsy.
- People with atypical moles or malignant lesions in the operating area.



- People who are inevitably exposed to strong sunlight during daily work.
- People with photosensitivity or drug-induced photosensitivity, or those currently taking photosensitizing medications.

## 1.4 – Operation Theory

### 1.4.1 – Fractional Mode

**Main Treatments:** All types of acne scars, all trauma, surgical and burn scars, deep wrinkles, exfoliation removal, laser fractional injection, and pore shrinkage.

#### 1.4.1.1 – Acne Scars



To address the unevenness and facial marks left by acne and pimples, the high-energy beam from the fractional laser is absorbed by the skin and converted into heat. Heat energy can reduce inflammation in the skin's surface tissue and decrease bacterial infection. At the same time, light energy can also stimulate the regeneration of skin collagen, promote skin repair, improve the appearance of marks left by acne and scars, and inhibit the formation of new acne.

**Note:** Adjust the operating parameters according to the actual situation.

| Energy (W) | Light Output Time (ms) | Point Spacing (mm) | Number of Scans | Scan Interval (s) | Number of Treatment Courses (Times) | Treatment Interval (Months) |
|------------|------------------------|--------------------|-----------------|-------------------|-------------------------------------|-----------------------------|
| 15 – 25    | 0.6 – 0.8              | 0.6 – 0.8          | 1               | 0.5               | 3 – 6                               | 2 – 3                       |

#### 1.4.1.2 – Scars



For scars caused by trauma, surgery, etc., fractional laser treatment uses a laser to create tiny holes in the skin evenly. The laser can penetrate deep into the dermis,



improve blood circulation in the skin, rearrange the elastic fibres in the dermis, and stimulate the production of collagen, thereby making sunken scars appear fuller and less noticeable.

**Note:** Adjust the operating parameters according to the actual situation.

| Energy (W) | Light Output Time (ms) | Point Spacing (mm) | Number of Scans | Scan Interval (s) | Number of Treatment Courses (Times) | Treatment Interval (Months) |
|------------|------------------------|--------------------|-----------------|-------------------|-------------------------------------|-----------------------------|
| From 25    | 1.5 – 2.5              | 0.7 – 0.9          | 1 – 3           | 0.5               | 3 – 6                               | 2 – 3                       |

#### 1.4.1.3 – Reduce Wrinkles



For skin wrinkle problems, fractional laser stimulates collagen proliferation and reorganization through laser heat, thereby increasing skin elasticity and firmness. Wrinkles can also be significantly improved after multiple treatments.

**Note:** Adjust the operating parameters according to the actual situation.

| Energy (W) | Light Output Time (ms) | Point Spacing (mm) | Number of Scans | Scan Interval (s) | Number of Treatment Courses (Times) | Treatment Interval (Months) |
|------------|------------------------|--------------------|-----------------|-------------------|-------------------------------------|-----------------------------|
| 15 – 25    | 1 – 1.5                | 0.7 – 0.8          | 1               | 1                 | 2 – 3                               | 2 – 3                       |

#### 1.4.1.4 – Skin Tightening



For skin sagging and tightening problems, a fractional laser penetrates deep into the dermis and uses high energy and high heat to promote the regeneration and reorganization of collagen fibres and elastic fibres, effectively improving skin elasticity and vitality, and tightening sagging skin.

**Note:** Adjust the operating parameters according to the actual situation.

| Energy (W) | Light Output Time (ms) | Point Spacing (mm) | Number of Scans | Scan Interval (s) | Number of Treatment Courses (Times) | Treatment Interval (Months) |
|------------|------------------------|--------------------|-----------------|-------------------|-------------------------------------|-----------------------------|
| 20-25      | 0.6-0.8                | 0.8                | 1               | 1                 | 3-5                                 | 2-3                         |

#### 1.4.1.5 – Reduce Pigmentation



For facial pigmentation problems such as freckles and melasma, fractional lasers emit regularly arranged micro-laser beams in a matrix. The diameter of these micro-laser beams is typically between 100 µm and 1000 µm. When these laser beams interact with the skin surface, they stimulate the metabolism of pigments in cells, thereby reducing pigmentation.

**Note:** Adjust the operating parameters according to the actual situation.

| Energy (W) | Light Output Time (ms) | Point Spacing (mm) | Number of Scans | Scan Interval (s) | Number of Treatment Courses (Times) | Treatment Interval (Months) |
|------------|------------------------|--------------------|-----------------|-------------------|-------------------------------------|-----------------------------|
| 6-12       | 0.3-0.6                | 0.7-0.8            | 1               | 1                 | 2-3                                 | 1-2                         |



#### 1.4.1.6 – Improve Enlarged Pores



To address enlarged pores, fractional laser uses high-energy lasers to target the skin, generating microthermal damage to stimulate skin regeneration and collagen reorganization, thereby shrinking pores.

**Note:** Adjust the operating parameters according to the actual situation.

| Energy (W) | Light Output Time (ms) | Point Spacing (mm) | Number of Scans | Scan Interval (s) | Number of Treatment Courses (Times) | Treatment Interval (Months) |
|------------|------------------------|--------------------|-----------------|-------------------|-------------------------------------|-----------------------------|
| 10-15      | 1.5-2                  | 0.7-0.8            | 1               | 1                 | 1-3                                 | 2-3                         |

#### 1.4.2 – Cutting Mode



**Main Treatments:** Removal of acne pits, mild to moderate scars, moles, and growths.

The INCREDIBLE Fractional Multi-CO<sub>2</sub> Laser works by dividing a single laser beam into nearly a hundred tiny laser pulses. These tiny beams are applied to the skin surface, creating tiny pores and forming a small area of thermal damage. This area of thermal damage effectively stimulates the growth of collagen and elastic fibres in the subdermal tissue beneath the skin, promoting the skin's self-repair process. It helps with faster repair and healing, achieving the goal of removing the unwanted growths.

**Note:** Adjust the operating parameters according to the actual situation.

| Mode | Energy (W) | Light Output Time (mess) | Interval time (ms) | Probe (mm) |
|------|------------|--------------------------|--------------------|------------|
| 3    | 0.8-2.4    | 5                        | 50-80              | 50/100     |



### 1.4.3 – Private 90° Mode

The INCREDIBLE Fractional Multi-CO<sub>2</sub> Laser™ utilizes focal photothermal effects to address issues such as localized pigmentation, wrinkles, and sagging, thereby tightening the skin and enhancing its elasticity.

**Note:** Adjust the operating parameters according to the actual situation.

| Position          | No. of Operations | Power (W) | Pulse width  | Rotation Angle | Dot Quantity | No. of Scans | Scan Interval |
|-------------------|-------------------|-----------|--|----------------|--------------|--------------|---------------|
| Inside the Vagina | 3                 | 20-25     | First Time:<br>6.0 – 6.5ms<br><br>Second Time<br>7.0 – 7.5ms<br><br>Third Time:<br>8.0 – 8.5ms | 90°            | 7-9          | 0            | 1             |
| Middle Vagina     |                   |           |  |                |              |              |               |
| Orificium Vaginae |                   |           |  |                |              |              |               |

### 1.4.4 – Private 360° Mode

The INCREDIBLE Fractional Multi-CO<sub>2</sub> Laser™ stimulates collagen regeneration through thermal effect, removes excess melanin, reduces pigmentation, and makes the private area more uniform and smoother. It can also alleviate vaginal laxity symptoms, enhance skin firmness, and make the private area look younger.

**Note:** Adjust the operating parameters according to the actual situation.

| No. of Operations | Interval (mm) | Power (W) | Pulse Width (ms) | Scan the No. of Circles | Radius Difference (m) | Dot Quantity | No. of Scans | Scan interval |
|-------------------|---------------|-----------|------------------|-------------------------|-----------------------|--------------|--------------|---------------|
| First Time        | 5             | 40        | 6.5 – 7.5        | 5                       | 1                     | 1            | 1            | 0.5           |



|                    |  |  |         |   |     |  |  |  |
|--------------------|--|--|---------|---|-----|--|--|--|
| <b>Second Time</b> |  |  | 7.5 – 8 | 2 | 2.5 |  |  |  |
| <b>Third Time</b>  |  |  | 8.5     | 3 | 1.5 |  |  |  |



## Chapter 2 – Introduction to Vaginal Laser Technology

### 2.1 – Female Reproductive System

The female reproductive system is the last to mature but the first to show signs of aging. As women age, their faces and bodies undergo aging. Similarly, the private area also gradually ages, and factors such as fertility and sexual history can further accelerate its aging.

An aging vagina is like an old and dilapidated house. The elastic fibre network in the vaginal wall is like the steel frame. Once the steel frame breaks, the entire house loses its supporting structure, causing the urethra, rectum, uterus, etc., to occupy the original position of the vagina, triggering a series of pelvic floor diseases such as urinary incontinence, constipation, and pelvic organ prolapse, which seriously affect women's health and quality of life.

### 2.2 – Aging of the Reproductive System

Furthermore, the aging of the private area can also accelerate the aging of other tissues and organs in the body, leading to premature aging of the female private area. The aging of the female private area seriously affects the health of both sexes, easily causing women to have irritable tempers, depression, abnormal hormone secretion, and thereby forming or exacerbating age spots. George P. Tomson also proposed that the aging of the private area is likely to cause premature aging in women, thereby accelerating the aging process of the face and body.

### 2.3 – The Impact of Secret Aging

- Dark and dull complexion.
- The complexion of women shows an increase in pigmentation spots.
- Disorder in hormone secretion caused by an imbalance in sexual life.
- Long-term and repeated gynecological inflammations with residual toxins.
- Inharmonious sexual life leads to stagnation of liver qi and accelerates aging.

### 2.4 – Confidential Operating Procedures

Private Youth Laser is the most highly regarded non-invasive method for rejuvenating the private area in Europe and America. It addresses common female problems such as vaginal laxity, disrupted vaginal environment, low sensitivity, or urinary incontinence. It offers a revolutionary, precise, painless solution: no anesthesia required, pain-free throughout the process, no downtime, and uses a unique disposable sterile laser cannula to prevent cross-infection. The operation can be completed in just 15 minutes and maintains a firm effect for a long time. It is currently the most popular new body plastic surgery project among women.



## 2.5 – The Huge Danger of Vaginal Relaxation in Women

### 2.5.1 – Inharmonious Life

Life is a very important aspect of emotional life. Vaginal laxity can seriously affect the quality of sexual life between couples, leading to disharmony in sexual relations. And disharmonious sexual relations will inevitably affect the emotions of both parties, causing arguments, infidelity, and even leading to divorce.

### 2.5.2 – Prone to Infection

Due to vaginal relaxation, the self-cleaning ability of the vagina is completely lost. Bacteria, toxins, dead skin cells, and undigested menstrual blood remain in the vaginal folds for years, causing pain, itching, bad odor, discoloration, and even foul-smelling symptoms in the lower genital area. Cervical erosion may occur, which can lead to pelvic inflammatory disease. This causes great suffering for women.

### 2.5.3 – Women Age Rapidly

The relaxation of the vagina reduces muscle tone and the atrophy of the vaginal mucosa, leading to a significant reduction in estrogen secretion, severe aging of the vagina and uterine cells, shriveled and dark, rough, menstrual disorders, obesity, melasma, age spots, eye bags, wrinkles and other aging symptoms. The whole person looks like he has been aging for decades.

## 2.6 – Theory

The patented 360-degree circular emission technology generates 50-70 degrees of heat deep within the controlled mucous membranes, stimulating contraction, reorganization, and collagen regeneration, achieving significant and long-lasting firmness, nourishment, and rejuvenation of the female private area, and providing an anti-aging therapy for a fulfilling sexual life.

## 2.7 – Working Principle

- Promote the massive proliferation of collagen fibres and other substances, as well as remodelling.
- Improve microcirculatory function in the vaginal mucosa.
- Increase cell secretion and dynamic response functions.
- Correct the pH value and improve the internal environment.

## 2.8 – Functions

Constipation: The vagina of women is adjacent to the large intestine in front and back. The primary tissues that maintain the elasticity of the vagina are the pelvic floor muscles and fascia. However, vaginal delivery can cause varying degrees of damage to



the muscles and fascia. Moreover, as one ages, the fascia gradually deteriorates and the muscle tension decreases, causing the vagina to become even more lax. As a result, the rectal wall protrudes towards the vagina, occupying space and forming rectocele. The feces cannot easily pass downward and become trapped in this corner, leading to chronic constipation.

### 2.8.1 – Function

#### Contraction: Tightening the Vagina

Quickly restore the tightness of the vagina. The operation takes no more than half an hour, allowing you to experience the pleasure of “tight holding.”

#### Clean the Vagina: Maintain the Vagina

Clean the inside of the vagina, moisturize and protect the vagina from bacterial invasion, preventing infection and its related complications.

#### Moisturize the Vagina: Eliminate Dryness

Stimulate the self-repair system inside the vagina, improve dryness, regenerate new tender cells, normalize endocrine, and enhance the excitement of sexual life.

#### Beautify the Vagina: Brighten and Nourish.

Effectively eliminate pigmentation inside the vagina and outside the labia, lighten melanin, and instantly become delicate and moist.

### 2.8.2 – Technical Features

- The ideal laser wavelength can be absorbed by the micrometre-sized tissues of the mucosa, avoiding thermal damage to deep tissues or organs.
- The laser energy is output in an optimized intermittent, short-pulse form, which can prevent the formation of high temperatures on the skin surface and cause thermal damage, while forming a uniform thermal effect in the several-hundred-micrometre surface layer of the mucosal tissue.
- The gentle non-invasive mode operates on the vaginal mucosal tissues without any side effects, as this mode can precisely control the temperature to avoid tissue damage.

### 2.9 – Effectiveness

1. **Contract the vagina:** Quick tightening, long-lasting tightness, and tightness increased by 60%
2. **Beautify the Vagina:** Lighten pigmentation, beautify labia, pinkness enhanced by 70%



3. **Moisturize the Vagina:** Increase secretion, eliminate dryness, and the moisture level increases by 80%
4. **Nourish the Vagina:** Deep anti-aging, prevents aging, and increases youthfulness by 80%

## 2.10 - Notes for Attention

- Pay attention to maintaining external genital hygiene during the operation.
- After the operation, pay more attention to rest and keep the vulva clean and tidy.
- Sexual activities are prohibited for one week.

## 2.11 - Restricted Groups

- Hypertension, diabetes, and hemophilia are not recommended for use.
- Menstrual period
- Pregnant women
- Not recommended for operation within six months after giving birth.

## 2.12 - Materials Required for Vaginal Laser Procedures

- Iodophor
- White Coat
- Knife Blade
- Alcohol 75%
- Vaginal Dilator
- Large Bandage
- Saline Solution
- Large Cotton Swab
- Medical Cotton Balls
- Anesthetic Ointment
- Syringe (5ml or 10ml)
- Kermycin Eye Ointment
- Disposable Sanitary Pad
- Medical Disinfection Pot
- Disposable Medical Cap
- Disposable Medical Gauze
- Disposable Medical Gloves



## Chapter 3 – Installation Instructions

### 3.1 – Machine Installation

**Placement:** Place the machine stably in a clean operating room or treatment room.

#### Installation

- **Laser Arm:** Connect the laser arm to the corresponding light outlet of the machine.
- **Power Cord:** Connect one end to the machine's power socket and the other end to a well-grounded single-phase three-wire power outlet.

After completing the above operations, press the button to immediately switch on the whole machine. At this time, the water will circulate and the system cooling system will start automatically.

Check for any water leakage at the connection between the treatment head and the instrument. If there is any water leakage, turn off the power and reconnect it.

### 3.2 – Precautions

The INCREDIBLE Fractional Multi-CO<sub>2</sub> Laser™ can be installed in Medical Spas, Clinics or Beauty Salons. Installation precautions include:

- Unpack and place the machine at the selected location
- Check the integrity of the equipment and its components
- Connecting to the power supply
- Install the laser arm
- Test all functions of the device

### 3.3 – Installation

#### 3.3.1 – Packing Box



Main Machine





Figure 1

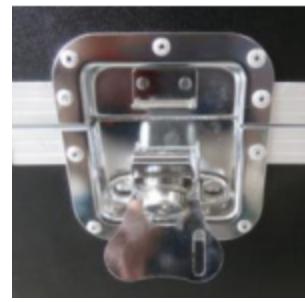
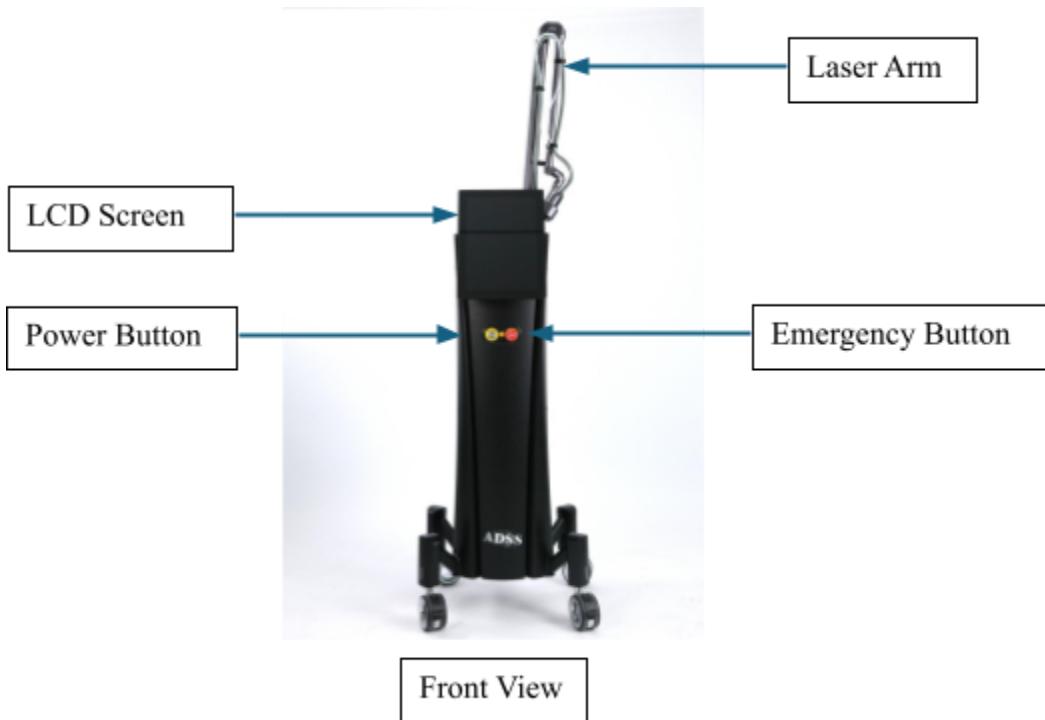


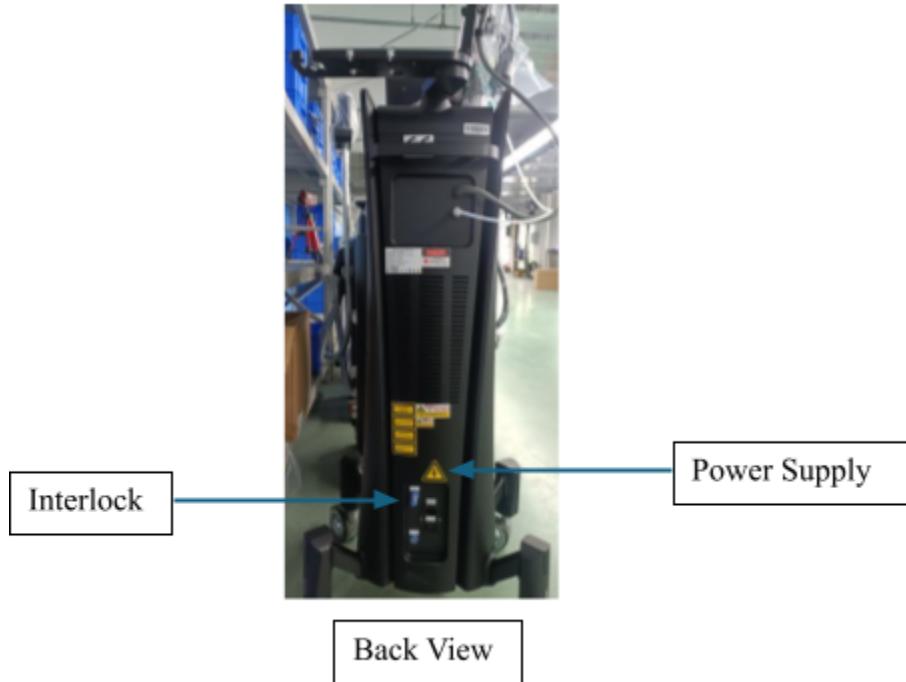
Figure 2

To open the box:

- A. Unscrew the wrench in Figure 1 and proceed to Figure 2.
- B. Rotate the wrench to open the box.

### 3.3.2 - Appearance Introduction





### 3.3.3 – Equipment List



Power Cable



Foot Pedal



Glasses



Goggles



Air Pipe



Fuse



Laser Arm



Frame



Fractional Probe



Fractional Probe  
(For Vulva)



CO<sub>2</sub> Probe  
(100mm)



CO<sub>2</sub> Probe  
(50mm)

### Accessory Description

- **Foot Pedal:** It controls the light output of the treatment head.
- **Power Cable:** Connect the machine to a 220V socket to power it on.
- **Glasses:** Protective glasses for operators.
- **Laser Arm:** For laser treatment.
- **Goggles:** Protect the client's eyes.

### 3.3.4 – Laser Arm Installation

Unscrew the dust cover on the laser arm and main unit.

As shown in the figure below :

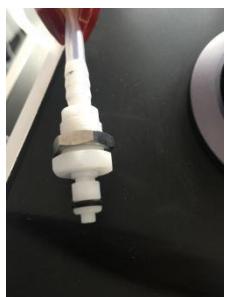




Align the laser arm with the main unit mounting hole, then insert it vertically and tighten the nut clockwise. As shown in the figure below:



Insert the trachea, as shown in the figure:



**Note:** The air pipe must not have a 90° dead angle and must rotate 360° without resistance.



### 3.3.5 – Install the Probe

Align the probe with the instrument, then turn the laser arm clockwise, as shown in the figure below. :



**Note:** The installation of the dot matrix operation head and the blowing part (and the installation of the air tube will only be required when the dot matrix is used).

### 3.3.6 – Installation of Accessories



Foot Pedal Installation



Power Supply Installation

### 3.4 – Startup and Use

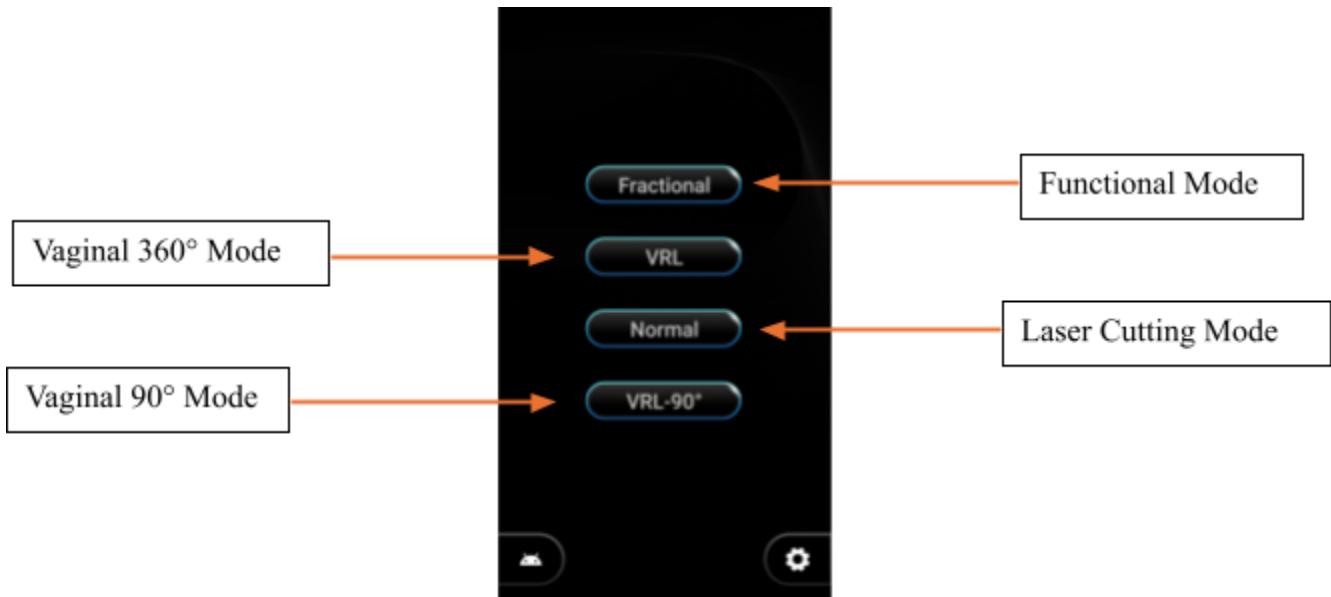
After checking the instrument's safety, press the button switch to start the device.



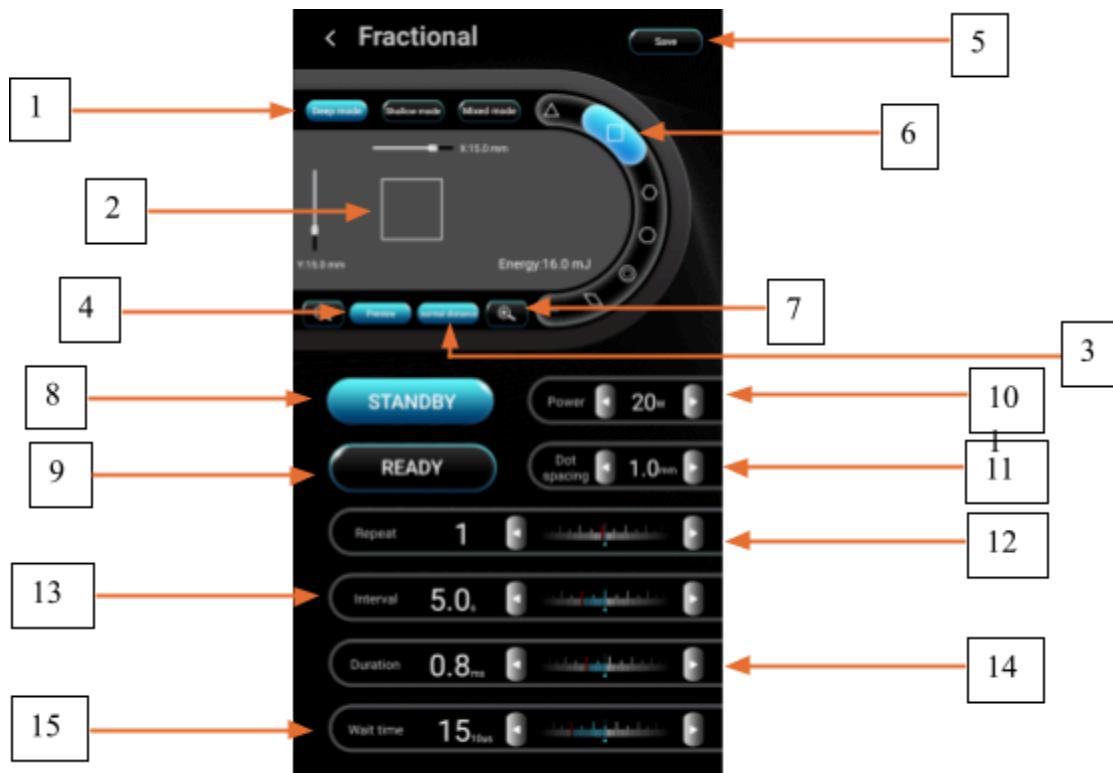
## Chapter 4 – Interface Operation Instructions

### 4.1 – Function Selection Interface

Function selection interface: According to the customer's treatment needs, select the corresponding function and enter the corresponding operation treatment interface, as shown in the figure:



## 4.2 - Fractional Mode Operation Instructions



The function keys are described as follows:

### 1. Treatment Mode Selection

According to the treatment plan, you can choose from three modes: deep, shallow, or mixed.

### 2. Treatment Graphic Display

According to the treatment plan, different treatment graphics are selected. The selectable graphics are: triangle, square, hexagon, circle, ring, diamond, and straight line. The length of the square and the circle can be adjusted to become a rectangle and an ellipse.

### 3. Dotting Mode Selection

Depending on the treatment plan, you can choose the normal mode or the random mode.

### 4. Preview Button

Select whether to preview with red aiming according to your needs. When it is on, a red-light graphic outline will be displayed at the handpiece treatment site. When it is off,

no red-light graphic outline will appear at the handpiece treatment site; only a dot will appear.

## **5. Save Button**

Interface parameter adjustments can be saved by clicking the Save button.

## **6. Graphic Shape Selection**

According to the treatment plan, you can choose from 7 treatment shapes: triangle, square, hexagon, circle, ring, diamond, and straight line.

## **7. Graphic Resize Buttons**

Adjust the graph size according to the treatment plan. Click "+" to make the graph larger and "-" to make the graph smaller.

## **8. Standby Button**

Click the standby button to exit the working state.

## **9. Prepare Button**

Click the Ready button to enter the ready working state.

## **10. Power Display and Adjustment**

The treatment power is displayed here. Use the left and right buttons or slide to adjust the power. The adjustment range is 1-Pmax, with a step of 1W. Adjust the power according to the treatment plan.

## **11. Dot Pitch Display and Adjustment**

The treatment point spacing is displayed here. It can be adjusted with the left and right buttons or by sliding. The adjustment range is 0.2-2.6mm, with a step of 0.1. Adjust the point spacing according to the treatment plan.

## **12. Scan Pattern Times Adjustment**

The number of scan graphs is displayed here. It can be adjusted with the left and right buttons or by sliding. The adjustment range is 0-10 times, with a step of 1. The number of scans can be adjusted according to the treatment plan.

## **13. Graphic Scanning Interval Display and Adjustment**

The length of the graphic scanning interval is displayed here. It can be adjusted by the left and right buttons or sliding. The adjustment range is 0.5-5s, with a step of 0.5s. Adjust the scanning interval according to the treatment plan.



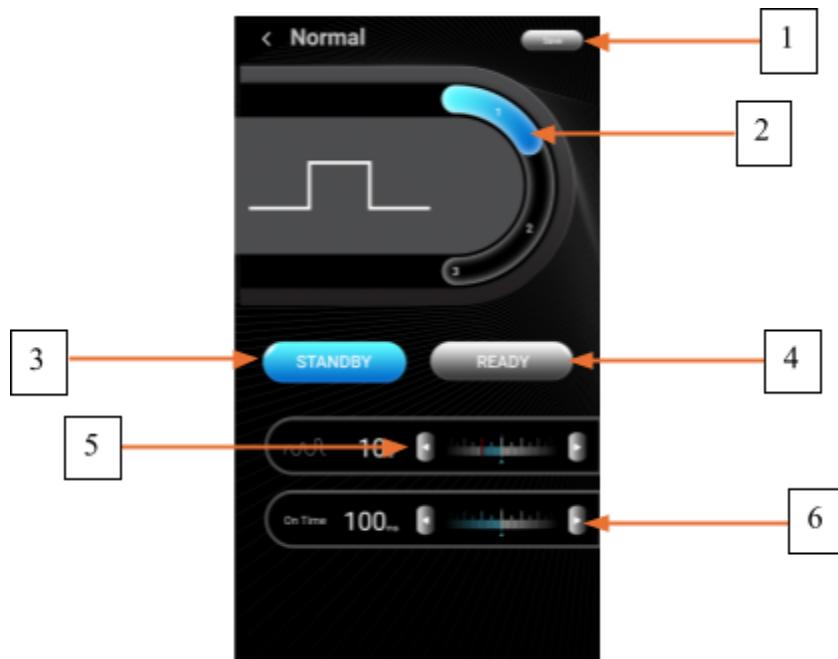
## 14. Point Light Emission Time Display and Adjustment

The light emission time of each dot is displayed here. It can be adjusted by the left and right buttons or sliding. The adjustment range is 0.1-10ms, with a step of 0.1ms. The larger the value, the greater the energy of the dot.

## 15. Adjust The Waiting Time Between Interval Points

The waiting time between interval points is displayed here. It can be adjusted by pressing the left or right button or sliding. The adjustment range is 1-100 (10  $\mu$ s) with a step size of 10  $\mu$ s.

### 4.3 - Cutting Mode Operation Instructions



There are three modes in the cutting interface. Different modes correspond to different treatment parameters. Mode 1 is shown in the figure:

The function keys are described as follows:

#### 1. Save Button

The parameter adjustments of the interface can be saved by clicking the Save button.

#### 2. Mode Switch Key

Current display mode 1: Single pulse mode. In this mode, pressing the pedal will generate a single output.

#### 3. Standby Button



Click the standby button to exit the working state.

#### 4. Prepare Button

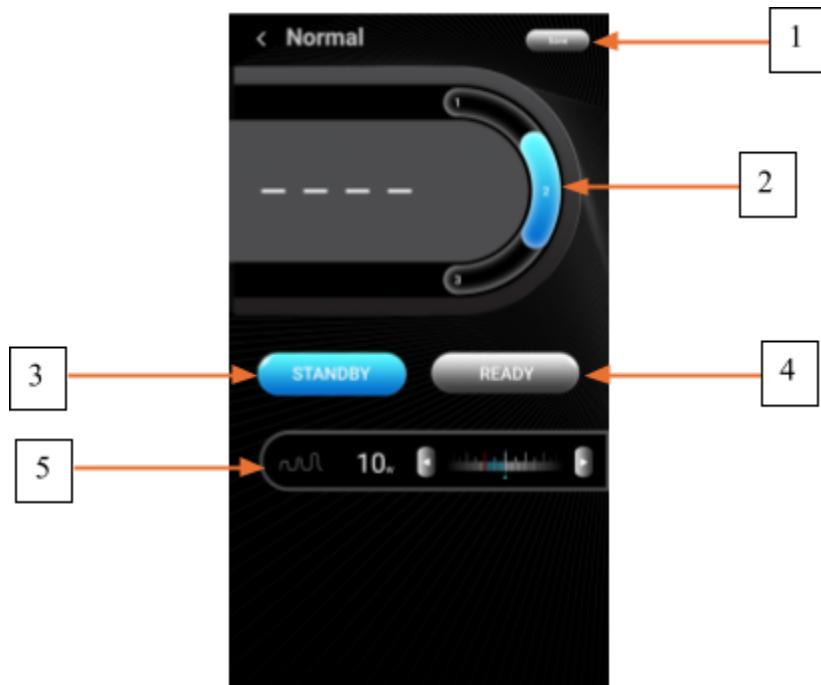
Click the Ready button to enter the ready working state.

#### 5. Power Display and Adjustment

The treatment power is displayed here. Use the left and right buttons or slide to adjust the power. The adjustment range is 1-Pmax, with a step of 1w. Adjust the power according to the treatment plan.

#### 6. Point Light Emission Time Display and Adjustment

The light time is displayed here. It can be adjusted by pressing the left and right buttons or sliding. The adjustment range is 0.5-1000ms, with a step of 1ms. The larger the value, the greater the energy.



Mode 2, as shown in the figure :

The function keys are described as follows:

##### 1. Save Button

The parameter adjustments of the interface can be saved by clicking the Save button.

##### 2. Mode Switch Key

Current display mode 2: Continuous mode. In this mode, the laser emits light continuously when the pedal is pressed.

### 3. Standby Button

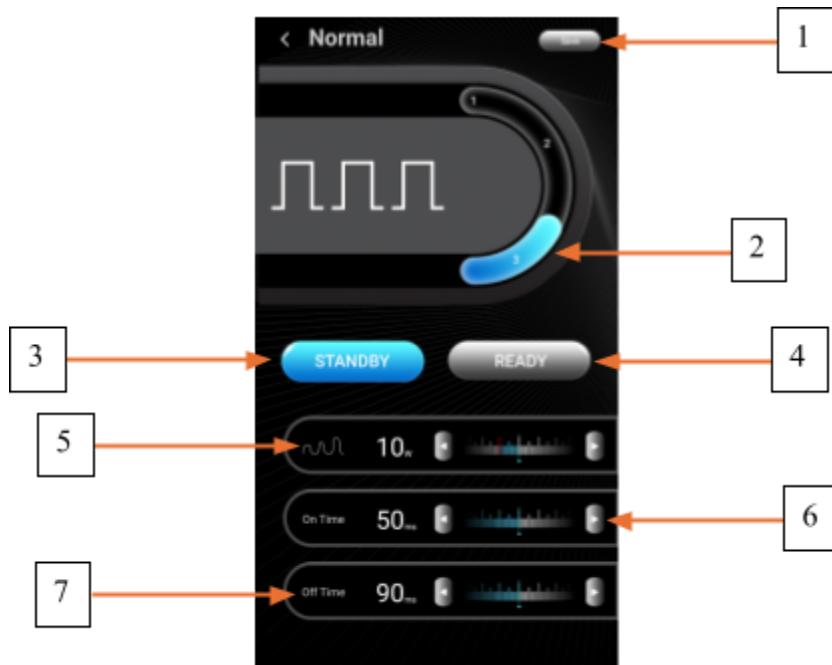
Click the standby button to exit the working state.

### 4. Ready

Click the Ready button to enter the ready working state.

### 5. Power Display and Adjustment

The treatment power is displayed here. Use the left and right buttons or slide to adjust the power. The adjustment range is 1-Pmax, with a step of 1w. Adjust the power according to the treatment plan.



Mode three, as shown in the figure:

The function keys are described as follows:

### 1. Save

The parameter adjustments of the interface can be saved by clicking the Save button.

### 2. Mode Switch

Current display mode three: multi-pulse mode. In this mode, pressing the pedal continuously generates a series of taps.

### **3. Standby**

Click the standby button to exit the working state.

### **4. Ready**

Click the Ready button to enter the ready working state.

### **5. Power Display And Adjustment**

The treatment power is displayed here. Use the left and right buttons or slide to adjust the power. The adjustment range is 1-Pmax, with a step of 1w. Adjust the power according to the treatment plan.

### **6. Point Light Emission Time Display and Adjustment**

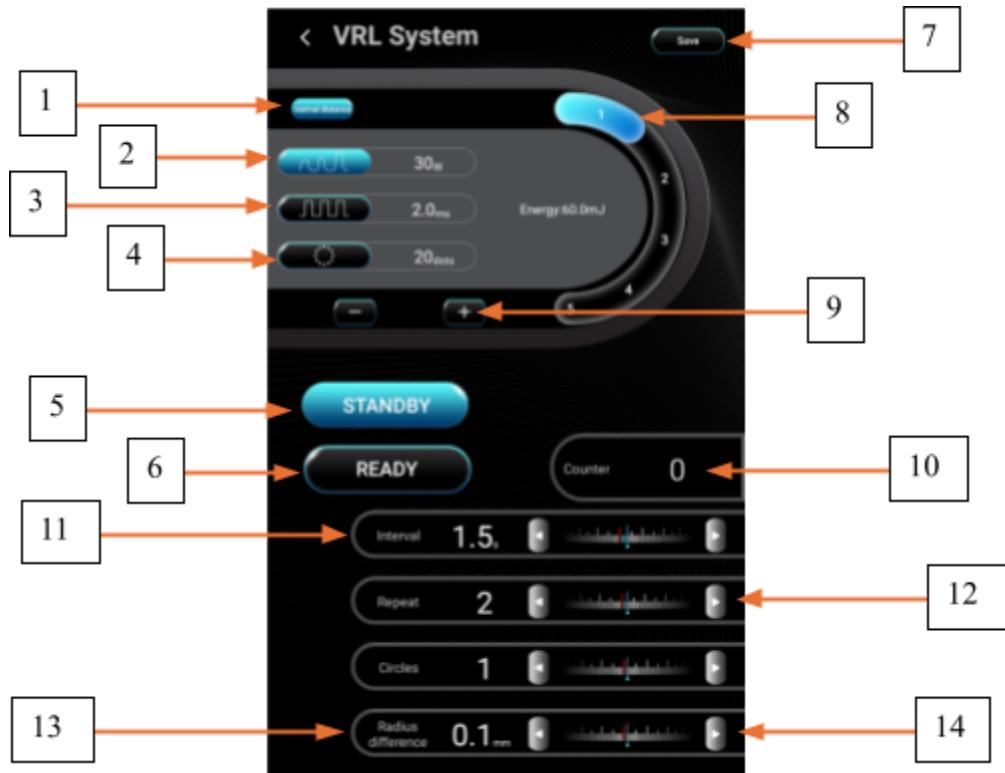
This shows the light output time of each dot. It can be adjusted with the left and right buttons or by sliding. The adjustment range is 0.5-1000ms, with a step of 1ms. The larger the value, the greater the energy.

### **7. Light Interval Time Display and Adjustment**

The interval between two light outputs is displayed here. It can be adjusted with the left and right buttons or by sliding. The adjustment range is 0.5-1000ms, with a step of 1ms. The larger the value, the longer the interval.



## 4.4 – Private 360° Mode Operation Instructions



The function keys are described as follows:

### 1. Dotting Mode Selection

Depending on the treatment plan, you can choose either the normal-order dosing mode or the random-order dosing mode.

### 2. Power Regulation

The treatment power is displayed here. The power can be adjusted by adding or subtracting the buttons below. The adjustment range is 1-Pmax, with a step of 1w. The power can be adjusted according to the treatment plan.

### 3. Point Light Emission Time Display and Adjustment

This shows the duration of each dot. You can adjust it by pressing the left or right button or sliding the slider. The adjustment range is 0.1-10ms, with a step of 0.1ms. The larger the value, the greater the energy.

### 4. Scan Points

Scan point adjustment, select the scan point adjustment point and use the plus and minus signs below to adjust the scan points

## **5. Standby**

Click the standby button to exit the working state.

## **6. Ready**

Click the Ready button to enter the ready working state.

## **7. Save**

The parameter adjustments of the interface can be saved by clicking the Save button.

## **8. Buttons for Selecting Different Treatment Parameter Combinations**

You can choose different numbers to save different treatment parameters

## **9. Adjustment Button**

The different parameters selected above can be adjusted by adding or subtracting here.

## **10. Scan Times Count**

The scan count record is displayed here.

## **11. Graphic Interval Time Display and Adjustment**

The graphic interval time is displayed here. It can be adjusted by pressing the left and right buttons or sliding. The adjustment range is 0.5-5s, with a step of 0.5. Adjust the graphic interval time according to the treatment plan.

## **12. Graphic Scan Times Display and Adjustment**

The number of graphic scans is displayed here. Use the left and right buttons or slide to adjust. The adjustment range is 0-10 times, with a step of 1. Adjust the number of graphic scans according to the treatment plan.

## **13. Scanning Circle Display and Adjustment**

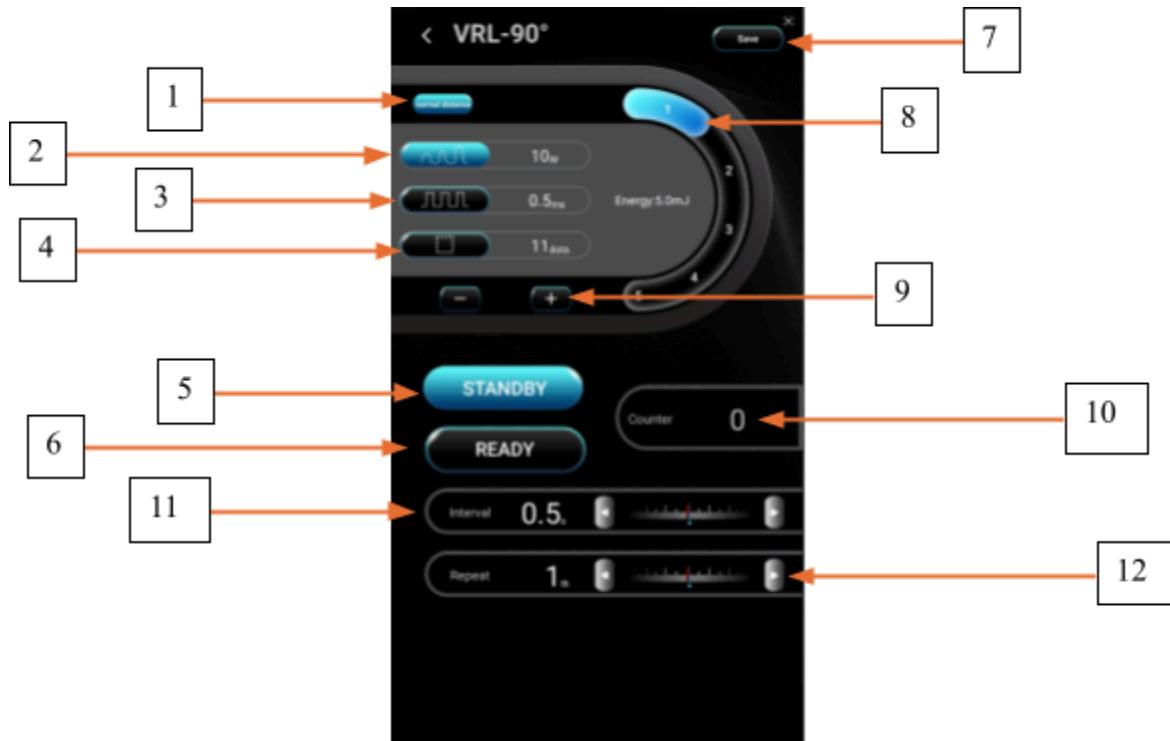
The number of scan circles is displayed here. It can be adjusted by pressing the left or right button or sliding. The adjustment range is 1-10, with a step of 1. Adjust the number of scan circles according to the treatment plan.

## **14. Radius Difference Display and Adjustment**

The distance between the treatment dot circles is displayed here. It can be adjusted by pressing the left and right buttons or sliding. The adjustment range is 0.1-1.5mm, with a step of 0.1. The radius difference can be adjusted according to the treatment plan.



## 4.5 – Private 90° Mode Operation Instructions



The function keys are described as follows:

### 1. Dotting Mode Selection

Depending on the treatment plan, you can choose the normal order dosing mode or the random order dosing mode.

### 2. Power Regulation

The treatment power is displayed here. You can adjust the power by pressing the button below to add or subtract. The adjustment range is 1-Pmax, with a step of 1w. Adjust the power according to the treatment plan.

### 3. Point Light Emission Time Display and Adjustment

This shows the duration of each tap. You can adjust it by pressing the left or right button or sliding the slider. The adjustment range is 0.1-10ms, with a step of 0.1ms. The larger the value, the greater the energy.

### 4. Scan Points

Adjust the number of scanning points in each row of the square. Select the point to adjust the number of scanning points, and use the plus and minus signs below to adjust the number of scanning points.

## **5. Standby**

Click the standby button to exit the working state.

## **6. Ready**

Click the Ready button to enter the ready working state.

## **7. Save**

Interface parameter adjustments can be saved by clicking the Save button.

## **8. Buttons for Selecting Different Treatment Parameter Combinations**

You can choose different numbers to save different treatment parameters

## **9. Adjustment**

The different parameters selected above can be adjusted by adding or subtracting here.

## **10. Scan Times Record**

The scan times record is displayed here.

## **11. Graphic Interval Time Display and Adjustment**

The graphic interval time is displayed here. It can be adjusted by pressing the left and right buttons or sliding. The adjustment range is 0.5-5s, with a step of 0.5. Adjust the graphic interval time according to the treatment plan.

## **12. Graphic Scan Times Display and Adjustment**

The number of graphic scans is displayed here. Use the left and right buttons or slide to adjust. The adjustment range is 0-10 times, with a step of 1. Adjust the number of graphic scans according to the treatment plan.

## **13. Graphic Scan Times Display and Adjustment**

The number of graphic scans is displayed here. You can adjust it by pressing the left or right button or sliding the slider. The adjustment range is 0-10, with a step of 1. Adjust the number of graphic scans according to the treatment plan.



## Chapter 5 – Simple Maintenance and Care of the Machine

### 5.1 – Common Problems and Failures

#### 5.1.1 – The Whole Machine Has No Power

##### Workaround

- A. Check whether the emergency switch is popped up. If it is popped up, it is open; if it is pressed, it is closed.
- B. Check whether the air switch is turned on. The top is on and the bottom is off.
- C. Check whether the fuse at the power input on the back of the machine is damaged.
- D. Check whether the power cord is damaged or short-circuited.
- E. Check whether there is power output at the power socket.

#### 5.1.2 – A System Freeze Occurs

##### Workaround

- A. High voltage interference, check whether there are high-power electrical appliances in the surrounding power grid.
- B. Software out of control, replace the controller.

#### 5.1.3 – The Energy of the Graphics Is Uneven or Deviates from the Position

##### Workaround:

- A. Re-adjust the optical path.
- B. The light-exit lens is too dirty. Clean it with an alcohol cotton. Ensure it is dry before use; otherwise, the alcohol may cause the lens to burn and damage.

#### 5.1.4 – No Infrared Light Indicator

##### Workaround:

- A. Check whether the infrared power supply has a voltage output of 3V DC.
- B. Replace the infrared sight.

#### 5.1.5 – No Gas Output from the Blowing Device

##### Workaround

- A. Check to see if the air pump is working properly.
- B. Check the air pipe for leaks.

## 5.2 – Daily Maintenance and Care

### 5.2.1 – Maintenance

- The machine must not be exposed to direct sunlight.
- After use, cover the bald part of the machine with a cloth bag and cover the entire machine to prevent dust from entering (very important).
- The machine operating head must be handled with care (very important).

### 5.2.2 – Care

- Place the device in a dry, ventilated, dust-free room (very important).
- No non-professionals except the operator are allowed to use this machine.



## Chapter 6 – Safety Precautions for INCREDIBLE Fractional Multi-CO<sub>2</sub> Laser™ Operation

### 6.1 – Fractional Laser Safety

The fractional laser system is a high-tech medical device used to safely and reliably remove facial blemishes and excess hair from various parts of the body. It can be used safely by trained and qualified personnel, provided it is properly operated and maintained. Operators and other personnel assisting with operation and maintenance should fully understand the safety information provided in this chapter. The safety of the patient, the operator, and other personnel is of paramount importance. The laser's design incorporates maximum consideration for patient and operator safety. The following are some of its safety measures:

1. The instrument's self-test system starts immediately after power-on and will continuously monitor the circuits while the device is running.
2. The laser is transmitted to the patient's skin using a scanner , and the laser can only be emitted from the front end of the scanner.
3. This machine is designed with an independent safety circuit, which can cut off the circuit when there is leakage.
4. In case of an emergency, the power supply can be quickly cut off through the red emergency stop switch.
5. The key switch prevents anyone from turning on the device at will.

#### 6.1.1 – Warning

Improper use of any laser device can cause personal injury. Laser operation generates high voltage. Personnel operating high-intensity laser devices must remain vigilant at all times and take necessary protective measures as described in this manual.

**Patients:** Patient safety primarily depends on well-trained physicians and appropriately equipped operating rooms. Patient literacy is also crucial; they should understand the principles of operation. Patients should receive effective eye protection when undergoing high-intensity laser procedures.

**Medical Staff:** Operators may be exposed to the laser beam during procedures and should receive appropriate protection from the laser's wavelength. Medical staff should wear professional laser goggles with a 10,600 nm protection rating during procedures to ensure their safety.

**Treatment Rooms:** High-intensity lasers should be clearly indicated in the operating room.



### 6.1.2 – Major Warnings

To ensure the safe use of this system, please observe safety precautions and carefully read the following warnings:

1. No one except authorized technicians is allowed to perform any repairs on the IPL, especially any internal repairs to the unit, including any adjustments to the power supply, cooling system, optical components, or operating head. Be aware that high voltages are present within this unit, which can be hazardous.
2. Confirm that the rated voltage of this system corresponds to the voltage in your country (220V AC).
3. Only perform maintenance on this unit after turning it off and unplugging the power cord. Performing maintenance while it is powered on can cause personal injury and damage to the equipment.

### 6.1.3 – Warning About Lasers

1. Lasers can damage eyes and cause fires or burns. All necessary protective measures must be taken when using this device.
2. Excessive light exposure to the operating area may cause thermal damage to the skin, resulting in hyperplasia, atrophy, or abnormal pigmentation.
3. Even when wearing protective glasses, do not look directly into the laser light emitted from the laser head.
4. Do not point the laser head into the air. When not in use, store the laser head on a hook.

## 6.2 – Electrical and Mechanical Safety

1. Keep all panels and covers closed. Opening covers can be dangerous.
2. Dangerous high voltages are generated within this system. Even after the power cord is disconnected, some components may still retain a stored charge. Therefore, only authorized personnel should be allowed to open the instrument.
3. When maintaining the equipment, do not turn on the power, open covers, or leave the equipment unattended.
4. This system weighs 35 kg. Improper movement can cause personal injury. The unit is well-balanced and movable, but move it carefully and slowly.
5. The unit is grounded via the ground wire in the three-core power cord. Proper grounding is essential for safe operation.

### 6.2.1 – Fire Prevention

1. Objects absorb light energy and their temperature rises. Precautions should be taken to reduce the risk of ignition of flammable materials in or near the operating area.

2. Do not use flammable substances such as alcohol or acetone when performing preoperative skin treatments. If necessary, use soap and water.
3. If alcohol is used to clean the operating head or disinfect any of its components, allow it to dry thoroughly before turning on the machine.

#### 6.2.2 – System Safety Device

1. This system is equipped with several safety devices. All personnel in the operating room must be familiar with their location and operation.
2. **Key Switch:** The key switch is used to turn the system power on and off. This unit can only be powered on with the key provided by our company.
3. **Power Indicator:** Red. Illuminates upon power-up, indicating that the system is receiving power.
4. **Emergency Switch:** This red, mushroom-shaped button provides an emergency shutdown of the entire system. When pressed, power is immediately cut off regardless of the system's current state. Turning the emergency switch clockwise releases it; otherwise, the unit remains in the off state.

#### 6.2.3 – Equipment Self-Test

After powering on, the system circuit immediately enters self-test mode. In this state, the operator should allow the instrument to run for 1-3 minutes before proceeding to the next step.

#### 6.2.4 – Device Level

- **Electric Shock Protection:** Class 1, BF level.
- **Corrosive Liquid Resistance:** General.
- Do not use this device in the presence of a mixture of flammable anesthetics and airborne nitric oxide.
- **Operation Mode:** Continuous.

