



HELEN

HELEN HOLDING GROUP

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Departure Destination | Saudi Arabia

FROM 2024



Destination Reaching | The World

TO 2025

# CO2 FRACTIONAL

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BUSINESS CLASS TICKET



9 2 0 0 3 3 7 9 4



# Safety Information

Thank you for choosing our products! This user instruction is specially designed for the safety of you and others. Please read the instructions carefully before installing or using the machine and follow them when using. The company does not take any responsibility for any accidents and problems caused by improper operation or mistakes, excluding quality problems.

# Electrical Safety

Before installing the machine, make sure that your local electric network complies with the voltage and frequency indicated on the tag on the rear panel. Otherwise, the machine may be damaged in case of excessive current or voltage rise.

Never touch the machine with damp or wet hands or feet.

It is dangerous to change or try to modify the function of this machine in anyway.

Do not attempt to operate this unit if the power cord has been frayed or broken.

Do not spill water or other liquids into or onto your unit.

During long periods of non-use, disconnect the unit's main power

easy to  
perform  
very  
effective



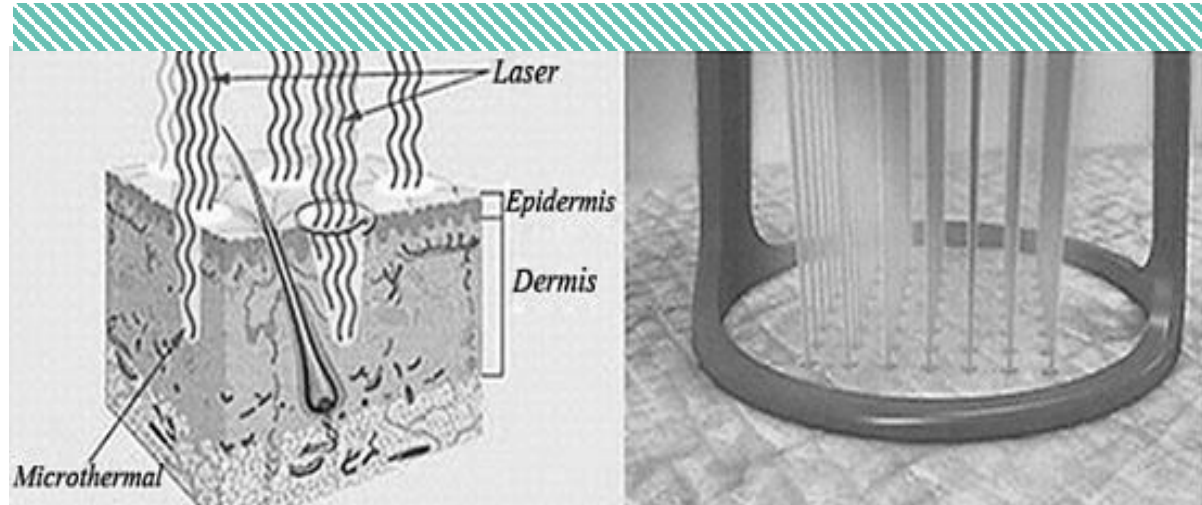
# Working Theory

The wavelength of CO<sub>2</sub> laser is 10.6μm, which can be fully absorbed by human biology tissue (all the skin are available). The sealed-off fractional CO<sub>2</sub> laser, whose output laser-light will be transferred by articulated arm, which has better sense of direction and higher energy density.

The CO<sub>2</sub> laser operates in the invisible infrared waveband, and an aiming beam is required to see where the treatment beam will impact tissue more recently from a visible red diode laser. When the laser beam go through the focus lens, the produced heat will gasify the target tissue.

With fractional laser resurfacing the laser beam is broken up or fractionated into many small micro beams which are separated so that when they strike the skin surface small areas of the skin between the beams are not hit by the laser and left intact. These small areas of untreated skin promote a much more rapid recovery and healing with less risk of complications. The small areas treated by the fractional micro beams, called micro treatment zones, cause sufficient laser injury to promote new collagen production and resultant facial skin rejuvenation.

# Working Theory



10000



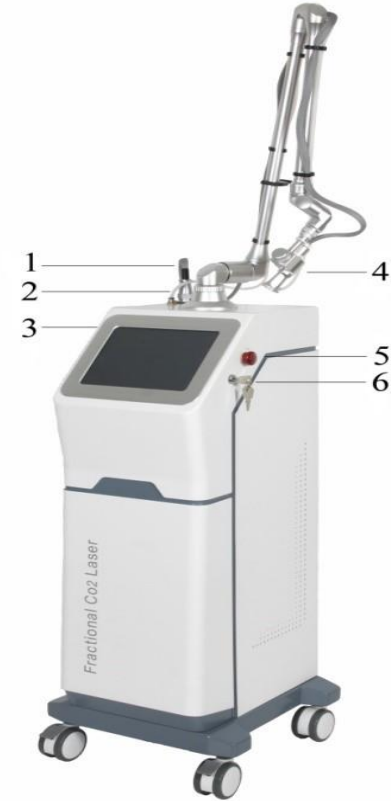
# Application

- (1) Remove acne and acne marks;
- (2) Eliminate dry pattern, fishtail, etc around the eyes;
- (3) anti-aging: skin firming, wrinkle removal, improve the skin condition;
- (4) Treatment of pigmentary lesions such as freckles and ostrum miracles;
- (5) Scar: treatment of depressed, old dispersion, convex vascular / fibrous scar;
- (6) Stretch marks.



# Parts Introduction

- 1 Laser Socket
- 2 Water Flow Socket
- 3 Touch Screen
- 4 Treatment Handle
- 5 Switch
- 6 Key



# Parts Introduction

7 Overflow

8 Foot Switch Socket

9 Water Inlet/Outlet

10 Power Line Socket

11 Power Switch

12 Foot Switch



# Parts Introduction

Ultra Pulse Head

**Note:** The fractional head uses in fractional mode, the ultra pulse head uses in normal mode.



# Parts Introduction

Fractional Head

**Note:** The fractional head uses in fractional mode, the ultra pulse head uses in normal mode.



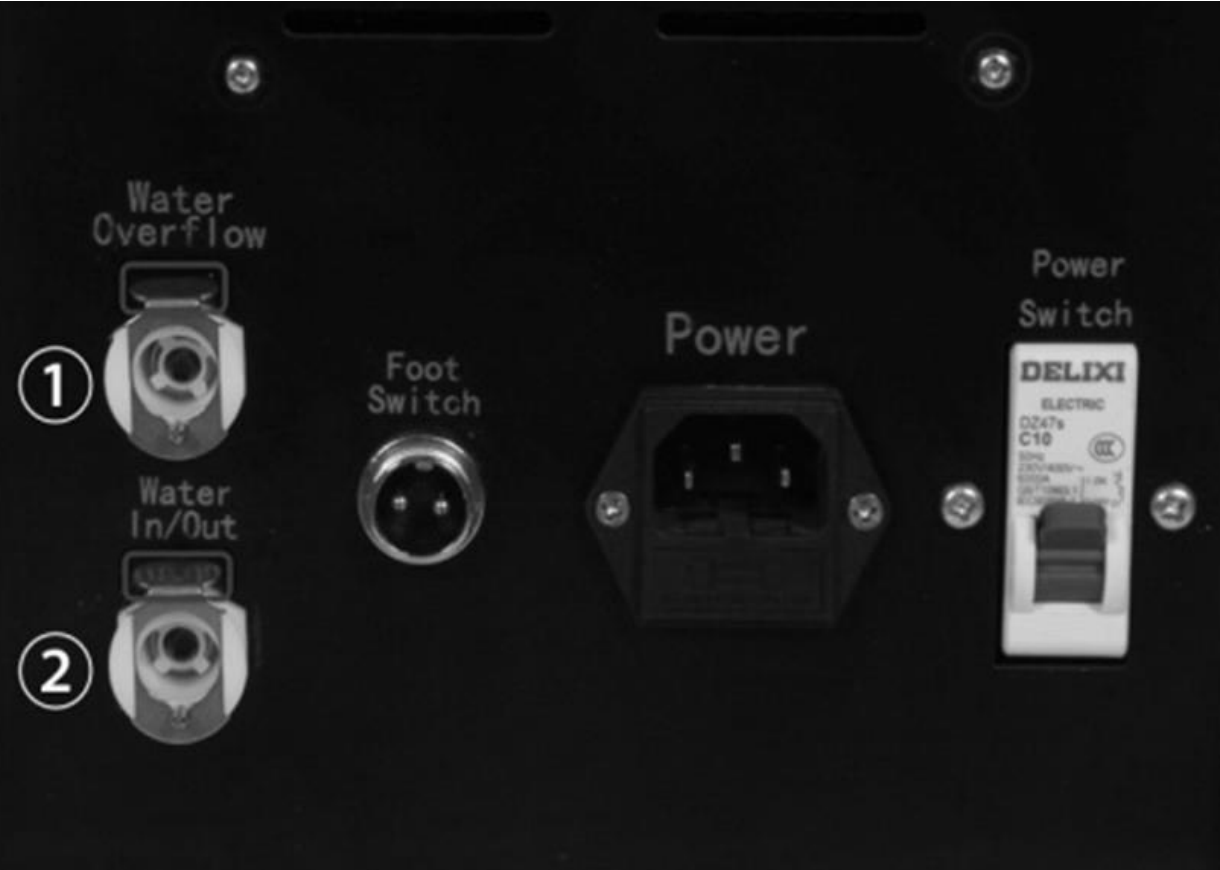
# Water Inlet & Outlet

Press the red frame shown in the left picture.

To fill in water, connect the cup with water inlet port ②, inject the water pipe with port ①, fill in water until the water flow out from port ①.

To drain off the water, connect the pipe with water outlet port ②, inject the water pipe to port ①, then the water inside will flow out.

Attention: add pure water before turning on the equipment, otherwise the equipment will be damaged, change the water every month.



# Operation

Interface When the key switch is turned on, the interface displays two operating modes .



# After USING FRACTIONAL CO<sub>2</sub>

- After treatment, press button , switch the key and turn off the machine.
- The operating arm is placed in an unstressed natural location to maintain a good output stability.
- Remove the treatment head and other tools to clean and disinfect.
- When the machine is not used, unplug the key switch, keep it safe. (3)

## Treatment Course

- 3-5 treatments generally, each interval is 1 - 2 months.





# Before Treatment

- Avoid exposure 2 weeks before treatment, apply sunscreen prevention.
- Within 1 week before treatment, avoid taking aspirin or aspirin drugs, except for medical advice. Try to avoid alcohol, fish oil nutritional supplements and vitamin E.
- 1 week before treatment, please deactivate skin care products containing type vitamin A, or nursing products containing fruit acid. The products can be used 2 weeks after treatment.



# After Treatment

- After treatment, the customer cannot immediately touch the local to prevent bacterial infections; the treatment area uses antibiotic or non-antibiotic ointment according to the doctor's order to prevent bacterial infection.
- Keep the treatment area clean and dry, avoid water within 3-7 days. The surrounding skin can be cleaned with a wet towel.
- After the crusting, it is not necessary to force zushing to prevent damage to the skin, extend the cure time.
- After string, avoid sunlight or using sunscreen to prevent pampine. If a pigmentation occurs, apply the spot cream, or the pigment naturally disappear after 3 months or more.
- After string, check the residue of the disease, if there is residue, an early supplementation is necessary.



# Parameters

Working mode	single pulse, continuous pulse, repeated pulse, ultra pulse
Output power	0-60W （adjustable）
Input power	450VA
Laser type	Sealed-off CO <sub>2</sub> laser
Laser wavelength	10.6μm
Divergence angle	4mrad
Focused spot diameter	≤0.4mm
Tool bit focus	F=100mm(optional)
Pulse width	0.02-0.99s
Aiming beam	Red diode laser(650nm, 2mW)
Transmission system	Spring-balanced 7 joint arms
Cooling system	Inside-circle coolant
Display screen	LCD
Working environment temperature	5-40℃
Humidity	<80%
Air pressure	86Kpa-106 Kpa
Input power	AC220V±10%, 50Hz
Preheating-time	> 5min
Electromagnet	No electromagnet interrupt
other working environment	No obvious shaking or airflow
N. W.	37kgs
Size	183 (with arms) ×45×40cm





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