——Skin tightening/Freckle removal/Acne repair——

Pro CO2 Fractional Laser Product Manual



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Product introduction

CO2 Fractional

CO2 Fractional laser is a very popular skin beauty technology. It not only has the rapid and significant effects of invasive treatment, but also has the advantages of non-invasive treatment with minimal side effects and short recovery time. It combines the advantages of both.
Unique advantages:
1、Wavelength: Fractional laser can directly reach the deep dermis of the skin, stimulating the damaged part of the dermal tissue to repair, causing the dermis to produce more collagen and rearrange it, achieving skin rejuvenation and anti-aging effects.
2、No harm: Fractional laser creates micropores with a diameter of 100-2000μm in the skin. These micropores can be closed within one day after treatment.
3、Customizable personalized care plan: According to personal needs, a personalized care plan can be customized. During treatment, the diameter and depth of the micropores can be adjusted.

Working principle

Fractional laser treatment uses laser to evenly make tiny holes in the skin, thereby forming three areas of thermal exfoliation, thermal coagulation, and thermal effect in the skin layer, which in turn triggers a series of skin biochemical reactions, stimulates the skin to repair itself, and achieves skin tightening, Skin rejuvenation and freckle removal effects.During care, only part of the skin tissue will be covered, and the newly made holes will not overlap each other. Part of the normal skin will be preserved, speeding up recovery, and you can return to normal life after 3-5 days; at the same time, it can treat any part of the body, such as acne, scars, dilute and eliminate spots, surgical scars, traumatic scars, scald scars, chloasma, Civatte heterochromia, wrinkles, skin sagging, photoaging skin.

Product specifications

specifications	
Laser Type: CO2 Fractional Laser	Cooling System: Air Cooling
Output Mode: Continuity, Ultra Pulse, Fractional	Input Power: 600W
Spot Mode: Single-Mode Beam Profile	Laser Wavelength: 10600nm
Spot Diameter: 100-2000μm (changed by zoom lens barrel)	Laser Working Mode: Continuity
Spot Shape: Triangle, Square, Circle, etc.	Fractional Working Mode: Intermittence, Continuity, Pulse
Beam Delivery System:7 Joints Laser Arm	Pulse Energy: 8.3-166mJ
Spot Size: 1*1cm, 2*2cm, 3*3cm	Pulse Width: 0.1005-10.05ms
Pulse Interval: 1-100ms (0.1ms step)	Aiming Laser Power: ≦5mw
Scanning Method: Sequence, Random, Center-out	Aiming Laser Wavelen gth:635nm
Voltage: AC220±10%, 50Hz	Meas.: 104*53*134.5cm

Product introduction

Structure introduction



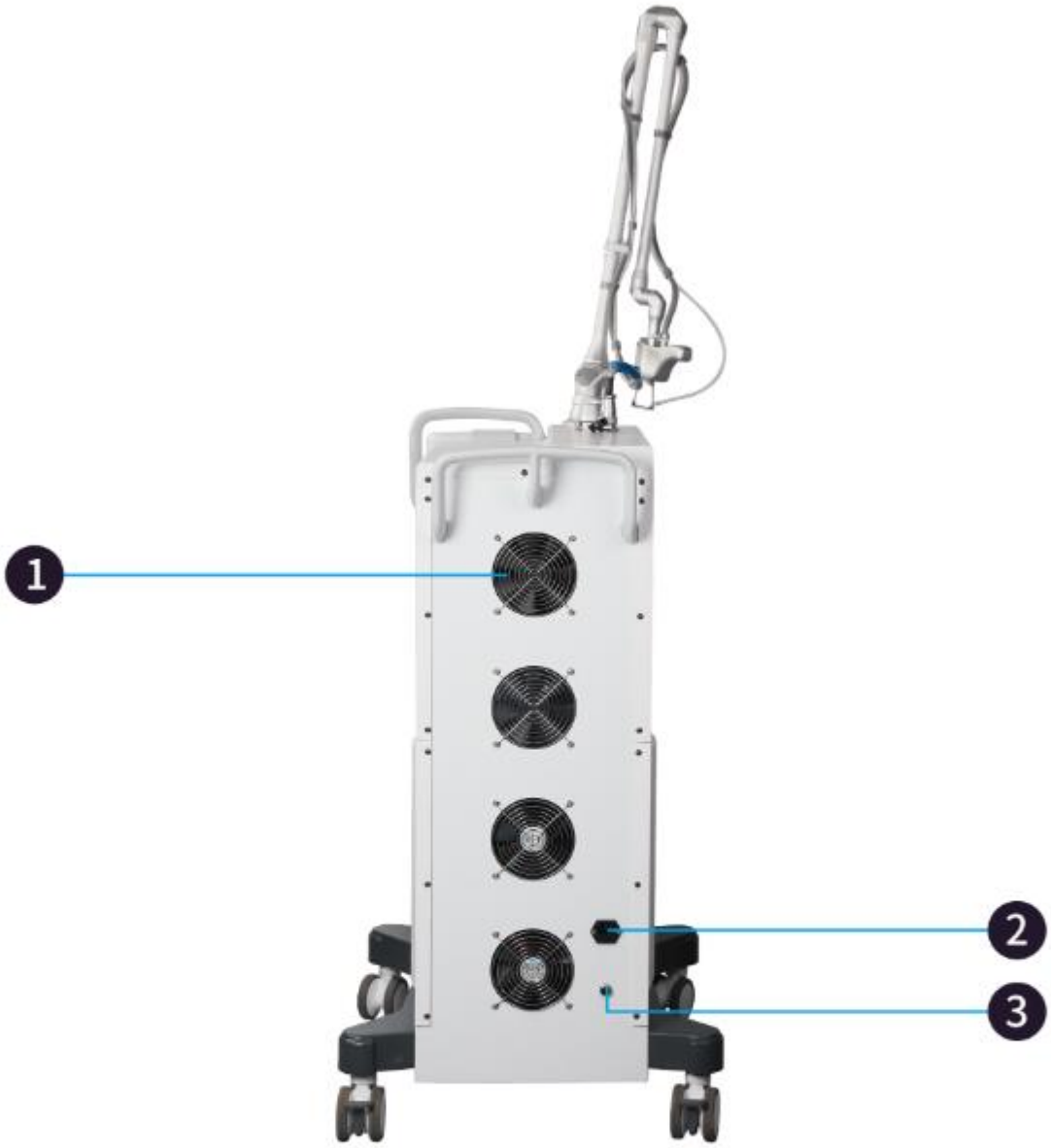
Product Front

(Pictures are subject to the actual product)

1. Fractional Head
2. Status Indicator
3. 10-inch Touch Screen
4. Emergency Stop Switch
5. Key Switch

Product introduction

Structure introduction



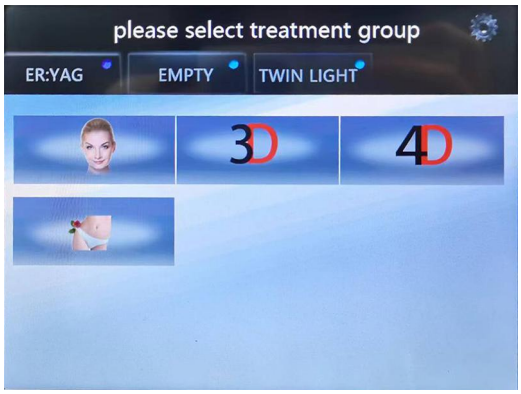
Product Back

(Pictures are subject to the actual product)

1 Heat Dissipation Fan
2 Power Cord Socket
3 Pedal socket

Instructions for use

Interface instructions



(Picture 1)

Turn on the machine and select treatment mode



(Picturer2)

Select the Fractional mode (Picture 2) and install the fractional head;
Select the treatment graphic, adjust the graphic size, set parameters according to the customer's actual situation, click Preview to see whether the graphic size is appropriate, and click Ready for operation.



(Picture 3)

Select 3D Pulse mode (Picture 3) and install the cutting head.
set parameters according to the customer's actual situation, click Ready for operation.

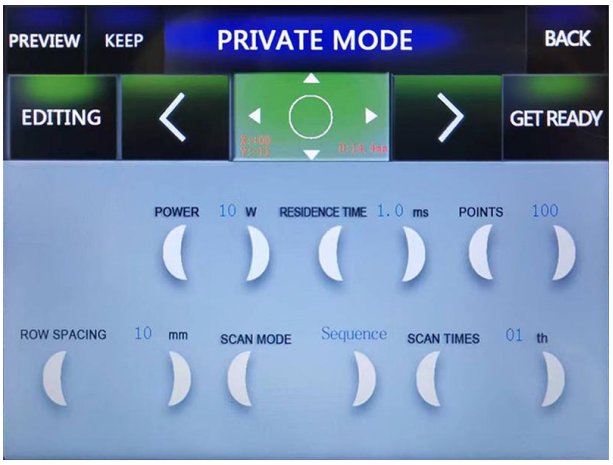
Instructions for use

Interface instructions



(Picture 4)

Select the 4D Vulva mode (Figure 4) and install the vulva head; (vulva head must be sterilized by high temperature)
Select the treatment graphic, adjust the graphic size, set parameters according to the customer's actual situation, click Preview to see whether the graphic size is appropriate, and click Ready for operation.



(Picture 5)

Select the Private mode (Picture 5) and install the private head;
Select the treatment graphic, adjust the graphic size, set parameters according to the customer's actual situation, click Preview to see whether the graphic size is appropriate, and click Ready for operation.
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Instructions for use

Parameter setting

	Laser power	Resid en-ce time	Inter -vals time	Dot Pitch	Scan Mode	Numb er of scans	Scope of care
Fractio nal	6-8	1.5	0.8	1	3 Mode s	1	Facial resurfacing, acne, scars
	6-10	2.5	0.8	1		1	Stretch marks or scars
3D: 1)Singl e point mode, 2) Pulse mode, 3) Contin uous mode	15	Single point mode	Dot reside n-ce time 90	Pulse width 8-10	Intervals Time 1.0		Effectively treats acne pits, spots, scars and other areas with relatively large and deep trauma areas; Single pulse: suitable for fine operations or for treatment of relatively small parts (after treatment, the epidermis will turn white immediately, otherwise the parameters need to be adjusted)
	5	Pulse mod	Dot reside n-ce time 1	Pulsew idth 0.5			Pulse: Mainly adjusts the pulse width, that is, the time that laser acts on the treatment area; (after treatment, the epidermis will turn white immediately, otherwise the parameters need to be adjusted)
	1.0	Conti-nuous mode	Dot reside n-ce time 0.1	Pulse width 0.1			Continuous pulse: belongs to the carbonization mode, or is used to stop bleeding on wounds.
4D	31	1.0	10	0.3	3 modes	1	It mainly improves white lesions of the vulva, malnutrition, relieves itching, and improves skin elasticity and color.
Private	6-9	1	Dots per row 7	Row pitch1		1	Postpartum repair, private tightening, cervical lifting, color improvement, urinary incontinence improvement,etc.

Instructions for use

Warning

1、It is not allowed for people with heart disease, mental illness, and severe high blood pressure.
2、Pregnant women and women during menstruation are prohibite. .
3、This procedure is prohibited for those with a constitution that is prone to scarring, those with inflammation of the skin, or those with severe allergies.
4、Those who have done other optoelectronic instrument projects within the past month should do it one month later.
Those who have had skin filled with hyaluronic acid or implants should wait three months.
5、People who have been exposed to the sun in the past month should rest their skin for a month before trying this project.

Precautions

1、2 hours after finishing the treatment, you can apply a room temperature sterile repair mask or moisturizing product.
2、Within 3-5 days after the treatment, you can apply a hydrating mask every day and use repair products.
3、Within 3 days after the treatment, try to avoid going to high-temperature places, such as saunas, hot springs, etc.
4、Within 7 days after treatment, reduce irritation and rubbing to the skin, and do not use exfoliating and fruit acid products within one month after treatment
5、After treatment, pay attention to moisturizing and sun protection, such as wearing a hat, using an umbrella, applying moisturizing cream and sunscreen, etc.

Configuration list

Item	Quantity
Machine	1pcs
Toolkit	1pcs
cutting head	1pcs
control rod	1 set
Pedal	1pcs
Power cord	1pcs

Note: The instrument is a light product. During operation, be careful not to point it at people's eyes. After operation, you need to put the handle into the protective cover to prevent accidental operation and injury to people.