—— Hair Removal / Skin Rejuvenation / Spot Removal / Mole Removal ——

Mermaid 808+Picoseconds

instruction manual



Table of Contents

Product Introduction

Working Principle 01
Product Parameter 01
Product Structure Introduction 02

Instruction for Use

Interface Introduction 04
Parameters Setting 09
Contraindications 09
Precaution 10
Accessories List 10

Product Introduction

Working Principle

PICO:
Using the Q-switched mode with a gemstone, and leveraging the principle of photoacoustic fragmentation, the laser concentrates high-energy emissions for an instantaneous effect, allowing the fixed-wavelength laser to penetrate the epidermis in an extremely short timeframe. The corresponding pigment clusters, rapidly heated, expand and burst instantly. Some of these pigment clusters shatter into tiny particles that can be engulfed by the body's macrophages. These minute particles are subsequently expelled from the body through the lymphatic circulation system, achieving the desired outcome of eliminating pigmented spots.

DIODE LASER:
Based on the principles of selective photothermolysis, by carefully adjusting the wavelength, energy, and pulse width, light penetrates the skin surface to reach the hair follicles at the root. This results in the destruction of follicular tissue, slowing down or halting hair growth. The Rapid Freezing Hair Removal System employs a unique freezing technique, cooling the local epidermis to 5 degrees Celsius, overcoming the drawbacks of cold touch phototherapy. The operation is convenient and simple, causing no damage to the epidermis, enabling effortless hair removal.

Product Parameter

PICO	
Wavelength	532nm/755nm/1064nm
Frequency	1-10Hz
Energy	330-2300J/CM^2

Product Introduction

Product Parameter

Diode Laser	
Spot Size	12*12MM
Screen	8-inch
Shots	50000000
Wavelength	755nm/808nm/1064nm
Frequency	1-10Hz
Energy	1-50J/CM2
Power	2000W
Pulse Width	1MS-20MS
Voltage	200-240V
Cooling System	TEC+AIR+WATER
Meas.	56*51*123CM
Language	Customizable
Water Tank	5L
GW.	37.25kg

Product Introduction

Product Structure Introduction



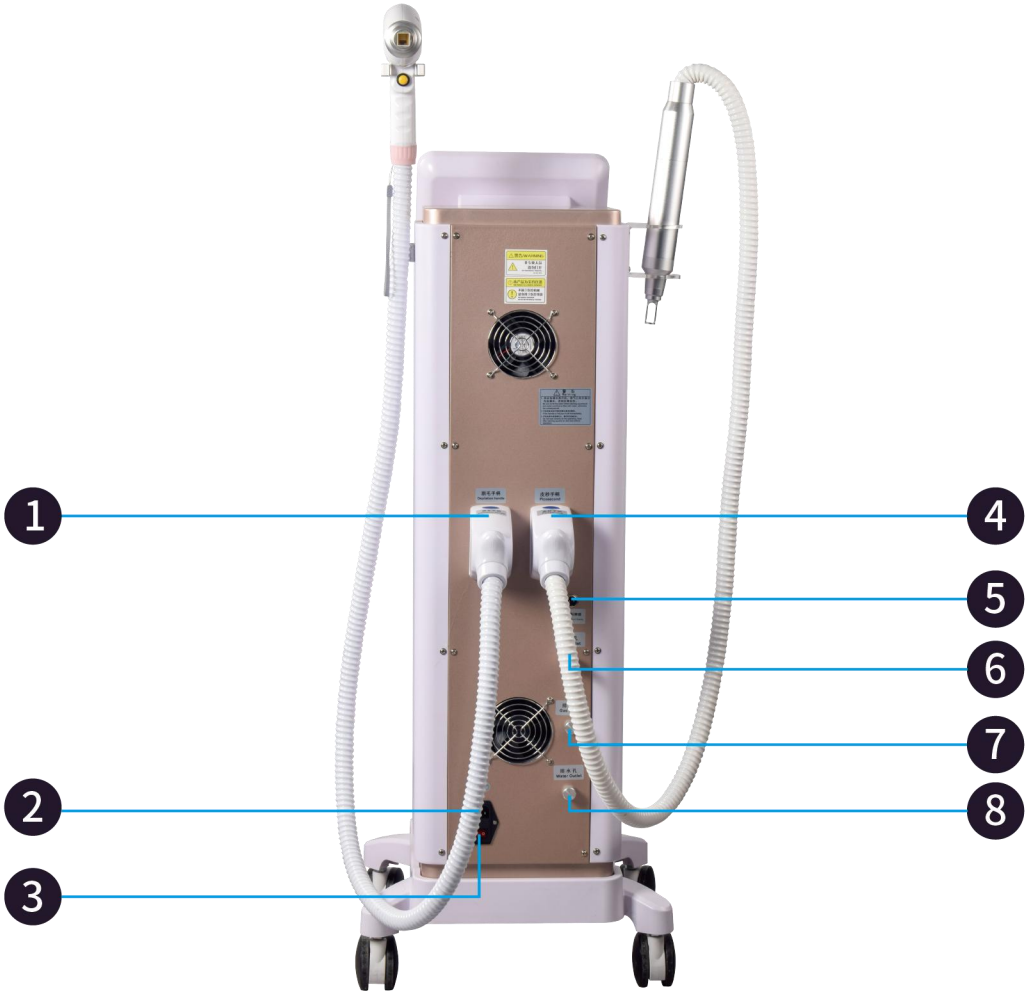
Instrument Front

(The picture is subject to object)

1 Picosecond Handle
2 Super Clear LCD Screen
3 Hair Removal Handle
4 On/Off

Product Introduction

Product Structure Introduction



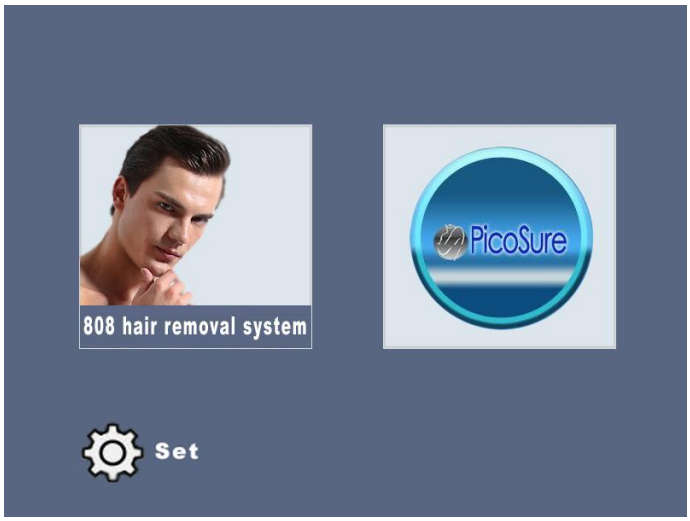
Instrument Back

(The picture is subject to object)

1. Hair Removal Handle Socket
2. Power Cord Socket
3. Power Switch
4. Picosecond Handle Socket
5. Pedal Socket
6. Water Inlet
7. Gas Outlet
8. Water Outlet

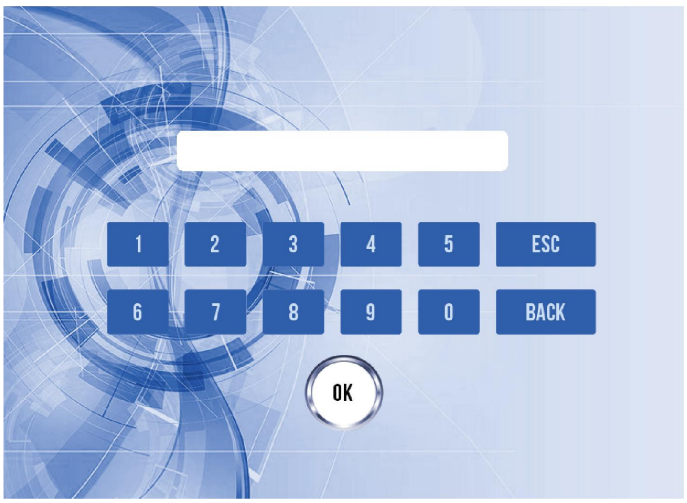
Instructions for use

Interface Introduction



1-1

urn on the device, enter the interface, where you can choose between 808 and Pico mode. Click on 'Settings,' allowing you to configure language preferences in the background, reset the shot count, and set the startup password (1-2).

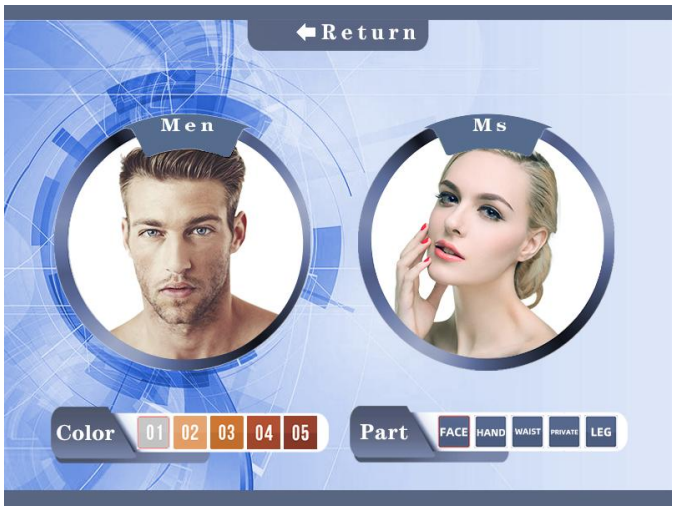


1-2

（1-2） Enter the backstage password '88888888' and click the OK button.

Instructions for use

Interface Introduction



2-1

（1-1） Select the hair removal mode to enter the interface (2-1). First, choose the skin tone, the targeted area, and then select the gender before proceeding to (2-2).



2-2

Adjust the pulse width between 10-12, frequency between 3-4, and energy starting from 15-20. Adjust the cooling, then click start. During the operation, adjust the energy level based on the customer's actual situation.

Instructions for use

Interface Introduction



3-1

（1-1） Select the Pico mode to enter the interface (3-1). Choose the corresponding wavelength for the operation.



3-2

Begin by clicking on the energy (mJ), then press the increase or decrease buttons. Typically, set the energy to start around 500. Adjust the frequency (Hz) between 3-4 and the pulse width (mm) between 1-3. Fine-tune the spot size, then click start. During the operation, adjust the energy level based on the customer's actual situation.

Instructions for use

Parameters Setting Table

Pico Laser Handpiece Parameter Settings

(As per the actual treatment conditions, adjust as reflected by the patient during the treatment)

Type	EnergyJ/cm²	Wavelength/nm	Notes
Whitening	500-1200	1064/755	until slight redness
Epidermal spot	1000-1200	1064/755	until the spots turn white and bleed slightly
Dermal spot	900-1500	1064	until slight redness or light petechiae
Melasma	900-1200	1064	until spots turn white and slight redness
Mole	1000-1300	1064	until bleed slightly or moles turn white
Eyebrows Tattoos Eyeliner Lip Line	1300-1500	1064	for new-school shallower black and blue tattoos, until tattoos turn white
	900-1000	1064	for old-school deeper black and blue tattoos, until tattoos turn white
	900-100	532	for colored tattoos, until tattoos turn white
Blackhead	1100-1300	1064	until the blackheads are removed

Diode Laser Handpiece Parameter Settings

Skin Tone	Hair Color	Pulse Width	Frequency	Energy	Time
Medium	Brown	10~15	3~6	from 20	10~15min
Light	Blone	10~15	3~6	from 25	10~15min
Dark	Black	10~15	3~6	from 15	10~15min

Instructions for use

Contraindications

1.Pregnant women, individuals with hypertension, heart disease, or diabetes;

2. Those who are sensitive or allergic to light are prohibited;

3. Individuals with open wounds;

4. Those who cannot abstain from sexual activity in the recent period;

5. Prohibition during menstruation。

Precautions

Precautions after Pico Treatment

1. Cold Compress: Typically, the skin may experience mild redness post-treatment, similar to the feeling after sun exposure. Apply an ice pack to the treated area for 15-30 minutes.

2. Intensify Moisturization: Within the first week post-procedure, the skin may develop flakes or scabs. Enhance moisturization and repair, practice sun protection, refrain from using makeup, and the scabs will gradually fall off within 3-5 days.

3. In cases where fluorescent powder is detected, it is advisable to undergo a repair session before picosecond treatment. Direct treatment may lead to the reactivation of melanin, as the previous pigments have been forcibly suppressed and isolated by harmful substances.

4. Energy Settings: Adjust the energy settings based on local weather conditions and UV levels, as energy requirements may vary.

5. If taking Chinese medicine, wait for one week before undergoing the procedure. Within the first week post-procedure, refrain from consuming photosensitive foods (such as celery, spinach, parsley, lemon, etc.) and photosensitive drugs (such as tetracycline).

Instructions for use

Precautions after Pico Treatment

1. Avoid using soap or shower gel and refrain from applying makeup to the treated area within the first 6 hours of hair removal. Do not wash the treated area during this time, and on the same day, avoid using cosmetics and resist rubbing the treated area vigorously.

2. Use only mild skincare formulas after freezing-point hair removal.

3. Maintain dryness by wearing loose-fitting clothes following freezing-point hair removal.

4. Steer clear of sun exposure, sauna, and swimming after freezing-point hair removal.

5. Post freezing-point hair removal, abstain from using exfoliants, alcohol, and antiperspirants. During bathing, use lukewarm water and avoid hot water on the treated area.

6. Within one week, avoid consuming photosensitive foods (such as celery, spinach, parsley, lemon, etc.) and photosensitive drugs (such as tetracycline). Also, steer clear of spicy and irritating foods.

Accessories List

Name	Quantity
Pico Handle	1
Diode Laser Handle	1
Pedal	1
Power Core	1
Carbon Gel	1
Goggles	1

Note: Exercise caution during operation to avoid directing the handle towards people's eyes or the machine. After operation, place the handle into the protective cover to prevent accidental injury to individuals.