Remove Tattoos | Shrink Pores | Remove Freckles | Rejuvenate Skin

SUPERSPEED PICOSECOND B

User Manual



Catalogue

Product introduction

Working principle 01

Product specifications 01

Structure introduction 02

Instructions for use

Interface instructions 04

Parameter setting table 05

Contraindications 05

Precautions 06

Accossories List 06

Product introduction

Working principle

Photomechanical Effect: This is the most significant characteristic of ultrafast picosecond lasers. Traditional lasers primarily rely on thermal energy to damage target tissues, while ultrafast picosecond lasers utilize extremely short pulse durations to induce the phenomenon of photomechanical effect within the skin. In this effect, laser energy is rapidly transferred to target pigments or tissues, causing them to be instantaneously fragmented into tiny particles by high-intensity pressure waves, rather than being destroyed through heating. This greatly reduces thermal damage to surrounding healthy tissues, lowering post-treatment inflammation and recovery time.

Non-thermal damage: Due to the extremely short pulse duration of ultrafast picosecond lasers, they can achieve precise destruction of target substances without generating excessive heat.

Biostimulatory Effect: n addition to its direct physical effects, ultrafast picosecond lasers also promote the regeneration of collagen and elastic fibers.

Dual-layer Burst Theory: Certain ultrafast picosecond laser technologies employ specific designs that enable the generation of two distinct beams with different characteristics in a single pulse, targeting different depths of the skin. This approach effectively addresses epidermal pigmentation issues while also improving the structure of the dermis, achieving comprehensive skin beautification effects.

Product specifications

Power	3000W
Spot Size	2-10mm
Frequency	0-10Hz adjuatable
Wavelength	532nm
	785nm
	1064nm
Energy	0.3-3.0J/cm^2
screen size	12ins
Cooling System	air+water+TEC

Product introduction

Structure Introduction

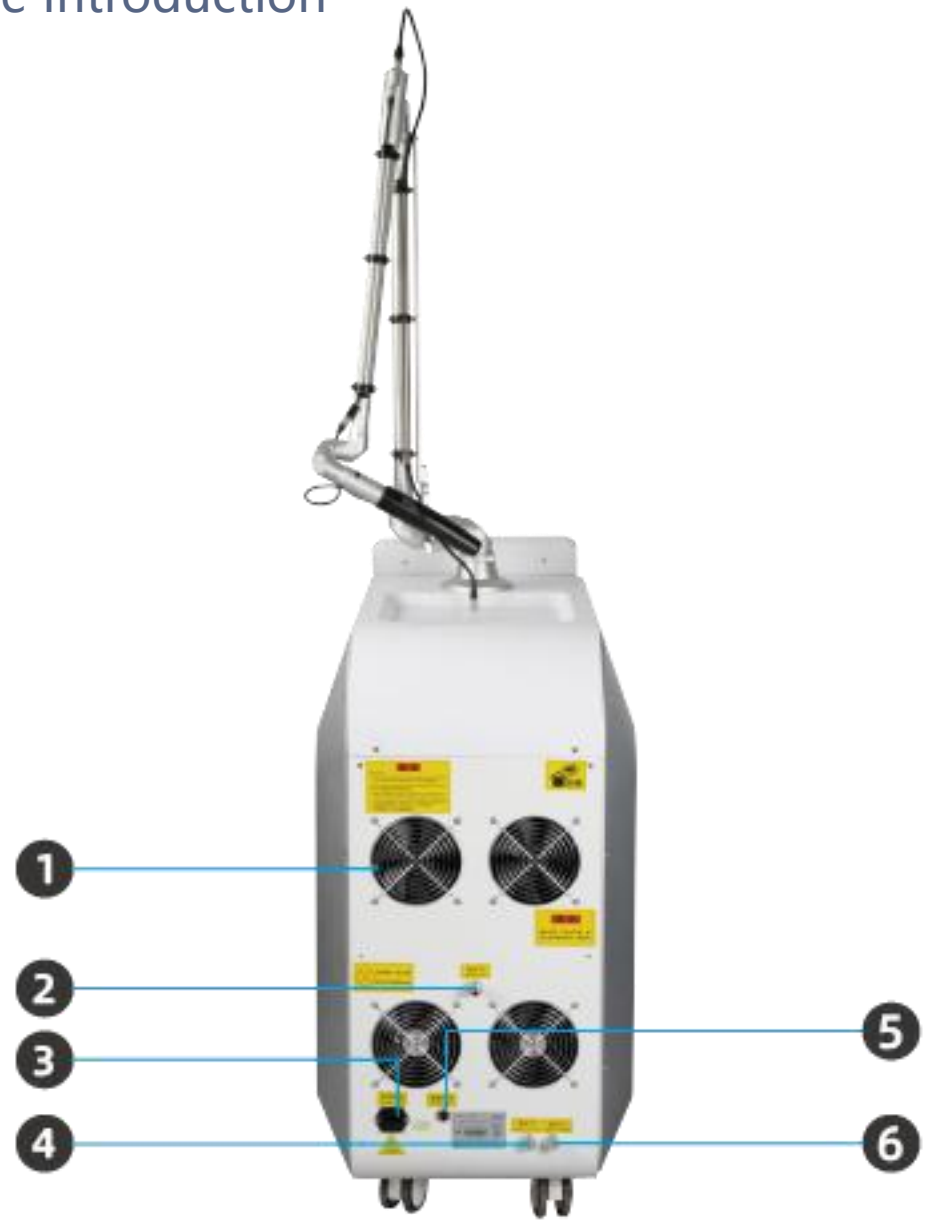


The Front Of Machine
(Product In Kind Prevails)

1 Light Guide Arm
2 Handle
3 Emergency Stop Button
4 12-inch Display
5 Key Switches

Product introduction

Structure Introduction

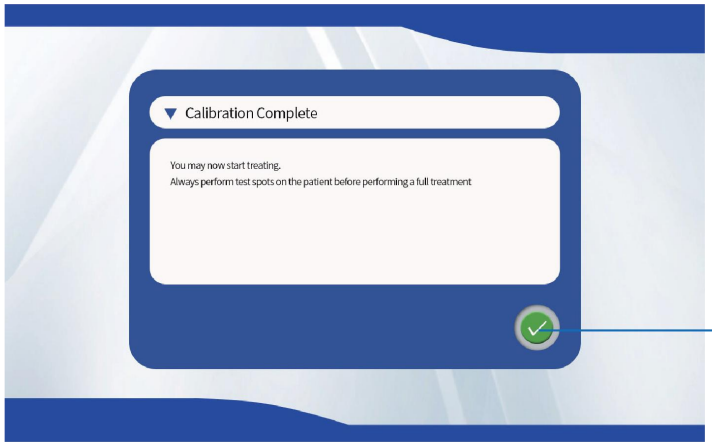


The Back Of Machine
(Product In Kind Prevails)

1 Vent
2 Water Inlet
3 Power Outlet
4 Overflow Opening
5 Foot Switch
6 Water Outlet

Instructions for use

Interface instructions



(1-1)



(1-2)

Power on and enter (1-1), then click on the "√" to proceed to the next page (1-2). On the interface of image (1-2), select the desired wavelength, adjust the energy and frequency according to the parameter setting table, click on the red aiming beam, then click on standby. Remove the handle, aim at the treatment area, step on the foot pedal to start the treatment. Once the treatment is complete, click on standby, place the handle back properly, and turn off the device.

Instructions for use

Parameter setting table

(Adjustments during the treatment will be made based on feedback from the patient's experience.)

Treatment	Energy J/cm²	Wavelength/nm	Tips
Rejuvenation and Whitening	0.9-1.2	1064/785	until slight redness
Epidermal spots	1.0-1.2	1064/785	until the spots turn white and bleed slightly
Dermal spots	0.9-1.2	1064	until slight redness or light petechiae
Chloasma	0.7-1.0	1064	until spots turn white and slight redness
Moles	1.0-1.3	1064	until bleed slightly or moles turn white
eyebrow, tattoo, lip line, eyeliner	1.3-1.5	1064	for new-school tattoos, until tattoos turn white
	0.9-1.0	1064	for old-school deeper black and blue tattoos, until tattoos turn white
	0.9-1.0	532	for colored tattoos, until tattoos turn white
Blackhead	1.1-1.3	1064	until the blackheads are removed

Contraindications

1. Pregnant women, hypertension, heart disease, diabetes.
2. People with photosensitivity are prohibited.
3. People with open wounds are prohibited.
4. People who cannot avoid intimate activities in the near term.
5. Prohibited during menstruation.

Instructions for use

Precautions

1. After picosecond freckle removal, avoid contact with water in the treated area for a period of time and refrain from touching the treated area with hands. During the recovery period, avoid vigorous exercise to prevent excessive sweating and skin infection.
2. Avoid consuming photosensitive foods and medications after treatment.
3. Do not pick at scabs when they form; allow scabs to fall off naturally.
4. Use cold compress masks or ice packs for cold compress therapy after treatment to alleviate discomfort caused by inflammatory reactions. Drink plenty of water and use medical sterile masks to moisturize the skin.
5. Cleanse the face gently without rubbing and avoid using skincare products that may contain additives or irritants.

Accessories List

Accsssory	Quantity
Laser Guide Arm	1
Pedal	1
Power Core	1
Carbon Gel	1
Goggles	1

Note:During operation, be careful not to point the handle at people's eyes or the machine. After operation, the handle should be put into the protective cover to prevent accidental injury to people.