Removing moles and spots, shrinking pores,
whitening and rejuvenating the skin

1927 Thulium laser

Instruction Manual



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Product introduction

Thulium laser

Thulium laser is a mid-infrared laser with the rare earth element thulium (Tm) as the gain medium. Its working wavelength is mainly 1927nm. In skin beauty, the 1927nm wavelength has become one of the core technologies of non-exfoliation/microexfoliation skin rejuvenation due to its unique water absorption characteristics and controllable thermal damage depth.

Principle of the product

The role of thulium laser is essentially "Selective pyrolysis light" (Selective Photothermolysis), through the precise light - organization interaction to achieve therapeutic effect, is divided into "laser generated" and "organizations" two stages: the specific process:

1, light and heat energy conversion. Water molecules absorb 1927 nm photons to molecules of oscillations, the local temperature jumped (up to 60-70 ℃);

2, hierarchical role: epidermis layer: instant vaporization heat water cut of keratinocytes and pigment particles (micro) peeling, improving texture/spots; To deep dermis: heat diffusion to make collagen fiber three-dimensional spiral structure modified contraction - instantly firming effect;

3, regeneration: thermal damage activated fibroblasts repair mechanism and sustained release new collagen (type I/III) to improve flabby, blain hole for a long time.

Product specifications

Instrument parameter	
Power：600W	Dot Pitch：0.1mm
Wavelength：1927nm	Scan Mode：Order, Random
Operation Mode：Fractional Pulse, Super Pulse	Screen：12inch
Output Power：20W	Cooling System：Air Cooling
Scan Graphics: Square/Circle/Triangle/Hexagon/Custom	Voltage：AC220V+10%,50Hz
Pulse Width：0.1-20ms	Package Size：81cm*55cm*126cm
Pulse Energy：1mj-300mj (adjustable)	weight：54.5KG
Dot Pitch：0.1-2.0 (adjustable)	

Product introduction

Structure introduction

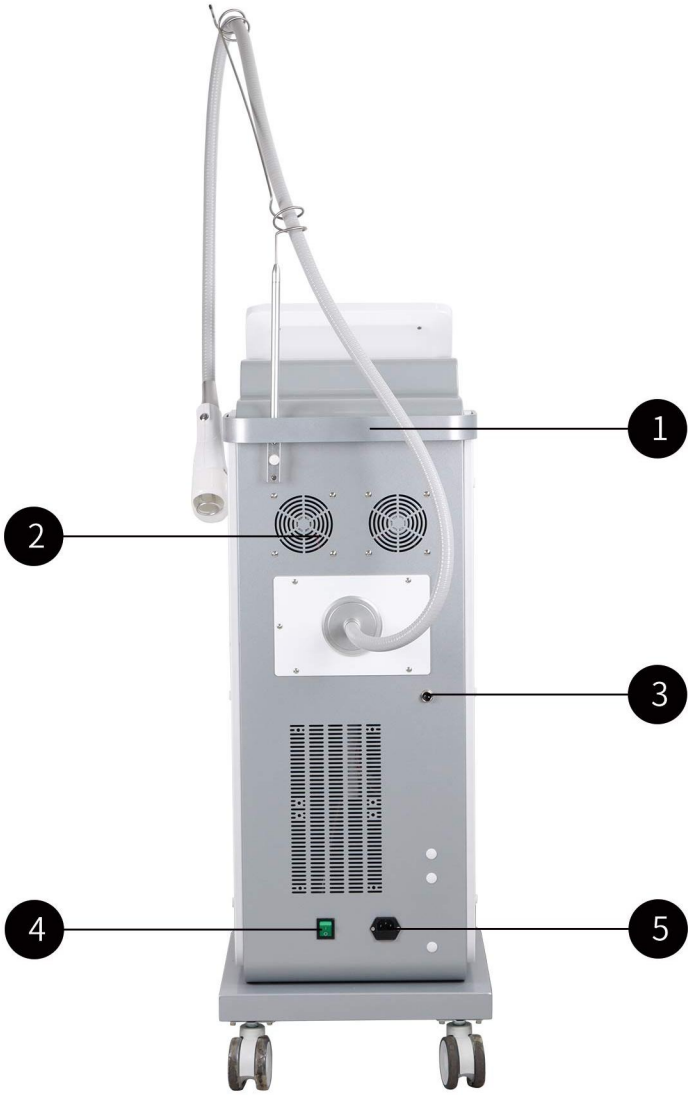


Frontal display
(Subject to the actual situation)

1. Light guide arm
2. Handle hanger
3. 12-inch display screen
4. On/off button
5. Fiber optic handle

Product introduction

Structure introduction



Back display
(Subject to the actual situation)

1 Handle holder
2 Heat dissipation holes
3 Foot jack
4 Power switch
5 Power cord jack

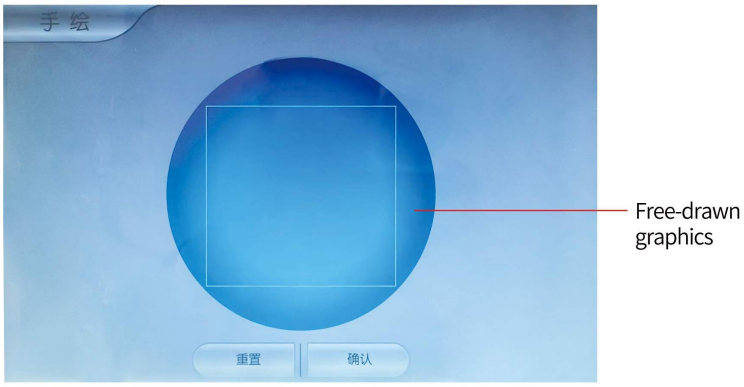
Instructions for use

Interface instructions



(Picture 1)

Turn on the machine, select the appropriate image, adjust the appropriate parameters, power (you can refer to the parameter Settings) and treatment mode according to the treatment needs, choose the light output mode, and click "Ready to Start".



(Picturer2)

In (Figure 1), click "Hand-draw" to jump to (Figure 2). You can draw graphics in your own way. The graphics are drawn by connecting points. Confirm and go back to (Figure 1), then click "Prepare" to operate

Instructions for use

Parameter setting table

Type	Power	Pulse width (ms)	Point spacing (mm)
Whitening	Max	0.8~1.0ms	0.8
Epidermal spots	Max	1.5	0.3
Dermal spot	Max	About 1.0~1.2	0.6
Shine skin, shrink pores	Max	About 1.0	About 0.7
Acne marks	Max	About 1.0	0.7
Blain hole to knit	Max	About 1.5~2.0	0.6~0.7
Crow's feet wrinkles	Max	About 2.5	About 0.6

1,Under normal circumstances of maximum power, the pulse width does not exceed 3.0ms.

2, The above parameters, such as need to raise again big, pay attention to the postoperative restoration and prevent bask in.

Taboo groups

1,Pregnant or lactating women;
2,Active skin infections (herpes, impetigo, acute acne);
3,The location of skin cancer or precancerous lesions; History of keloid;
4,People with darker skin tones should disable the dot matrix mode (high risk of color darkening);
5,Those who have been exposed to intense sunlight recently (within 4 weeks) or are unable to strictly apply sunscreen;
6,Currently in an immunosuppressive state while taking photosensitive drugs (such as isotretinoin and tetracyclines).

Instructions for use

Precautions

1. Dot matrix mode: Apply a medical cold compress to lower the temperature and avoid water for 48 hours.
2, thin TuChuanMing acid ointment prevent infection and promote repair;
3, avoid friction, sweating;
4, a micro scab skin: sketching, ban tear;
5, use the repair products and products from black;
6, strictly physical sunscreen (mask + cap);
7, stop using whitening/acid products; Avoid high-temperature environments (saunas, hot springs).

Configuration list

Item	Quantity
Instrument hanger	2
Probe	2
Pedal	1
Power cord	1

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.