

# RF Skin-tightening System-cool

## Components of the Unit



## I. Treatment Principle

Radio frequency wave permeates epidermis and take effect on the collagen-rich dermal tissue directly which makes water molecules in the skin move to and fro wildly. The move produces controllable heat and results in contraction of collagen and generation of new collagen and dermal remodeling .as a result, the skin looks tighter, wrinkles reduce gradually.

## II. RF Applications:

- 1, Skin-tightening
- 2, Improve skin-elasticity and skin-shine
- 3, Eliminate deep and light wrinkles
- 4, Improve skin-metabolism
- 5, Skin-degerming and inflammation-diminishing
- 6, Shrink skin pores
- 7, Shape beautiful figure

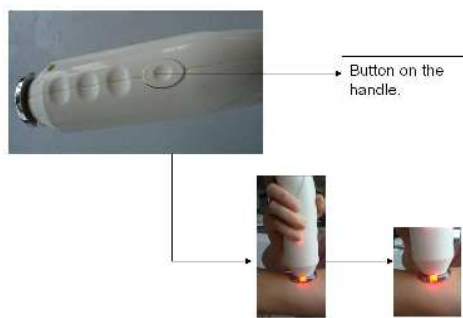


**III** Face: thin line, forehead wrinkle, cheek line, wrinkle around lip, neck line, double chin, skin-smoothing.

Eye: the RF is effective for eyelid-sagging, crows- feet, wrinkles under eye and pouch.

Chest: Enhance chest shape, breast-beautifying and chest-strengthening

Body: tighten the loose-skin of arm, waist, abdomen, and leg and pregnancy line.



### III. Product advantage and character

1. Simple operation: User-friendly LCD screen makes the operation clearer and more accurate.
2. Safe and reliable: The RF just heat collagen in dermis, its cooling system refrigerate epidermis and make treatment safe.
3. Big and small size hand pieces: Two different hand pieces are used for facial and body in order to make treatment efficient and flexible.
4. Accurate energy control: The energy of treatment area can be controlled automatically by digital micro-control system
5. Good result: It really has good result proved by clinical testing, especially for skin-tightening, breast-beautifying and chest- building up.
6. Simple repair: Module-design makes the repair simple and convenient.

### IV. Specifications:

Power supply	Radio Frequency
Light Source	LED
Transmission System	Light Guide Crystal
Safety Classification	I Class-B Type
Treatment Handle Size	Φ 20mm and Φ 35mm
RF Frequency	10MHz
Pole	Bipolar
Pulse Continuous Time	1-5seconds
Surface temp. of hand pieces	6-26℃
Input Power	300W
Regular Operation Power	20W
Maximum Operation Power	50W
Cooling System	Semi-conductor Cooling system Water cooling system
Dimension (L*W*H)	440mm× 564mm× 780mm
Net Weight	22kg
Fuse Norm	7A
Power	AC220V, 50HZ

## Treatment Parameter Reference

### V. Work principle:

#### (1) Bio Polar Radio Frequency

Radio frequency energy always takes the shortest path from source to ground. As it meets impedance in the tissue, heat is generated. The thermal energy can accelerate metabolism and enhance elasticity of collagen fiber and collagen growth, In the months following treatment, the body's natural processes lay down new collagen which is thicker, more organized and has a structure similar to that found in younger and less damaged skin. The result is a smoother, firmer and more youthful look. For effective treatment of wrinkles and fine lines, heat must be created deep in the dermis without injuring the epidermis.

#### (2) Cooling system

The cooling system can cool down the tip of the hand piece. On one hand, the ice-cold tip can cool down the temperature of treatment skin which eliminates risk of arching or epidermis burns. On the other hand, it will increase the impedance of the epidermis which results in less radio frequency travel through the surface but more RF energy target in the deeper, collage-rich dermis.

#### (3) Controllable RF energy

RF energy is measured by J/cm<sup>3</sup>. The Maximum power is 50W. Energy is adjusted through PULSE mode and PMW mode.

#### (4) Red Light System

850nm Red light system is placed into the hand piece which can accelerate metabolism, remove acne and rejuvenate skin and enhance treatment result.

#### (5) Checking and Alarming system

The RF unit has checking and alarming system to ensure safe treatment. If any improper operation happened, it will alarm shown on the screen and unit will stop to work automatically.

### VI. Treatment Parameter Reference

Mode Function	Pulse Mode	PMW Mode	Sessions	Time of each session	Interval between sessions	2
Wrinkle on face	Pulse num: 5-6 pulses	Power: 50-60%	5-8	20-30 minutes	7 days	

<b>Forehead line</b>	<b>Pulse num: 4-5 pulses</b>	<b>Power: 40-50%</b>	<b>5-8</b>	<b>20-30 minutes</b>	<b>7 days</b>
<b>Skin-tightening and lifting On body</b>	<b>Pulse num: 6-8 pulses</b>	<b>Power: 60-80%</b>	<b>8-12</b>	<b>30-40 minutes</b>	<b>7 days</b>