

4 in 1 multifunctional black gold
hair removal instrument



Instrument display



head



On the left



On the right



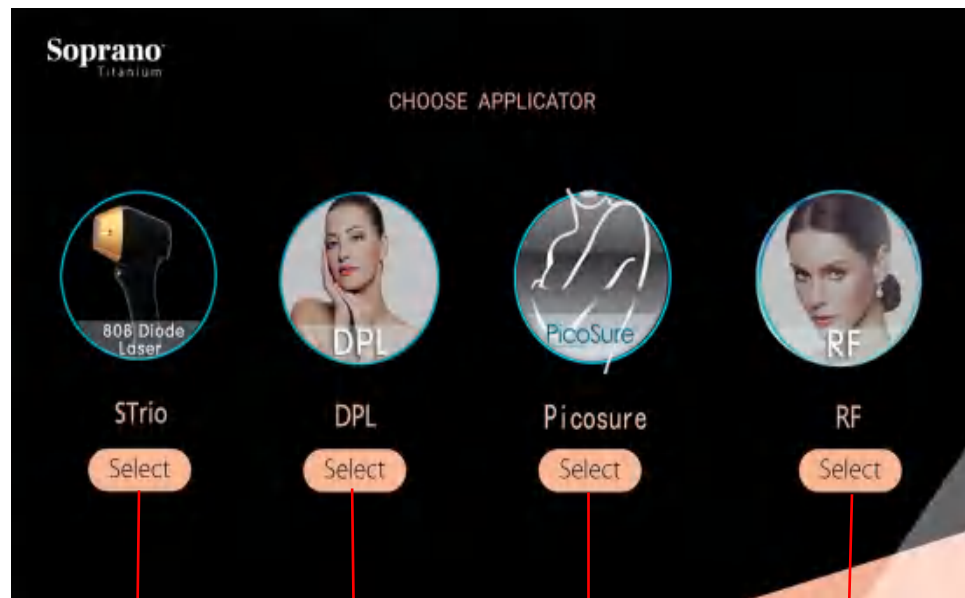
behind

Operation interface

main interface



Click to enter the interface



Select the handle to be operated and click the interface to enter the operation interface

808 diode hair removal interface



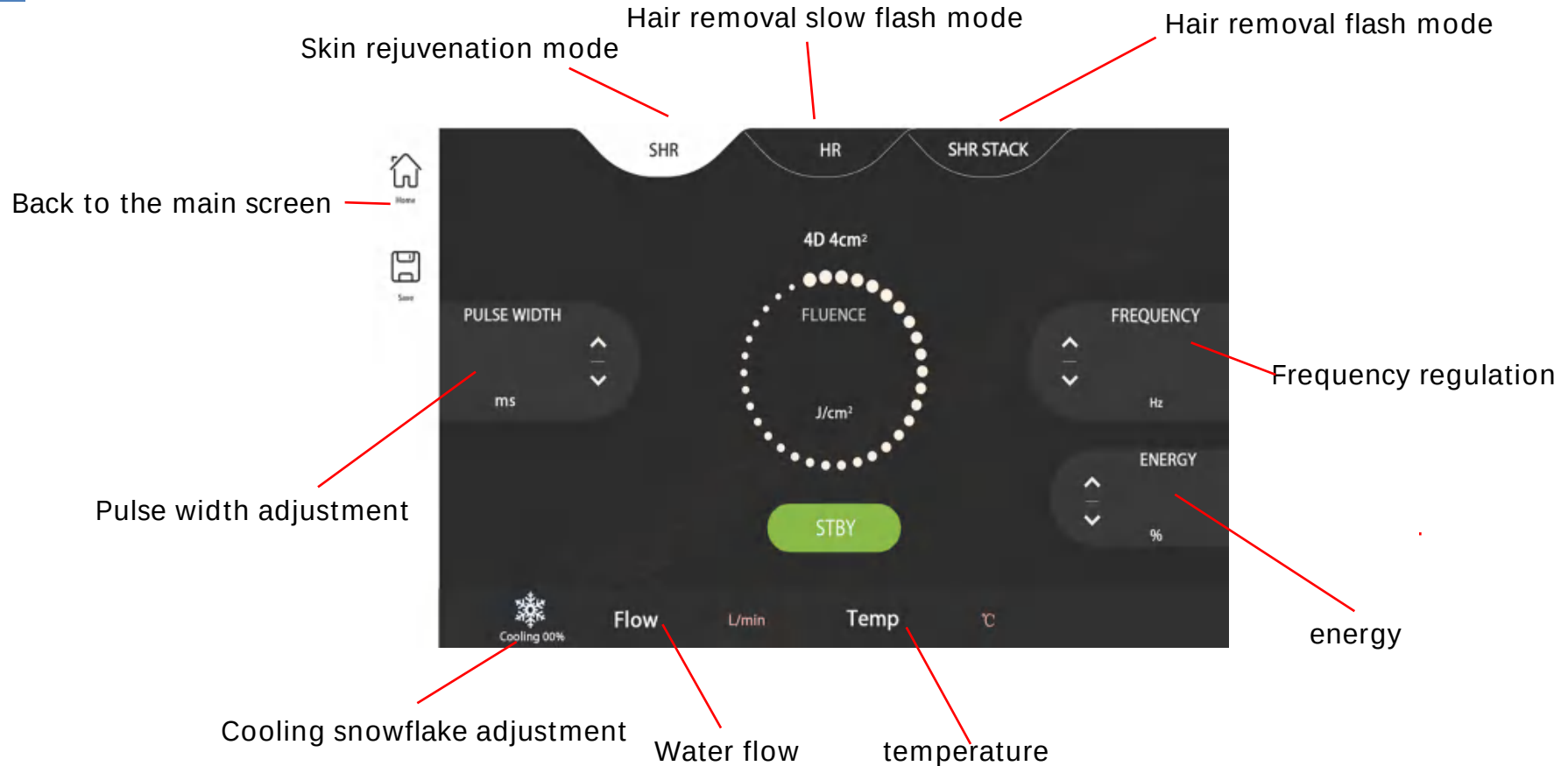
Operation site area size operation

Return to the first screen

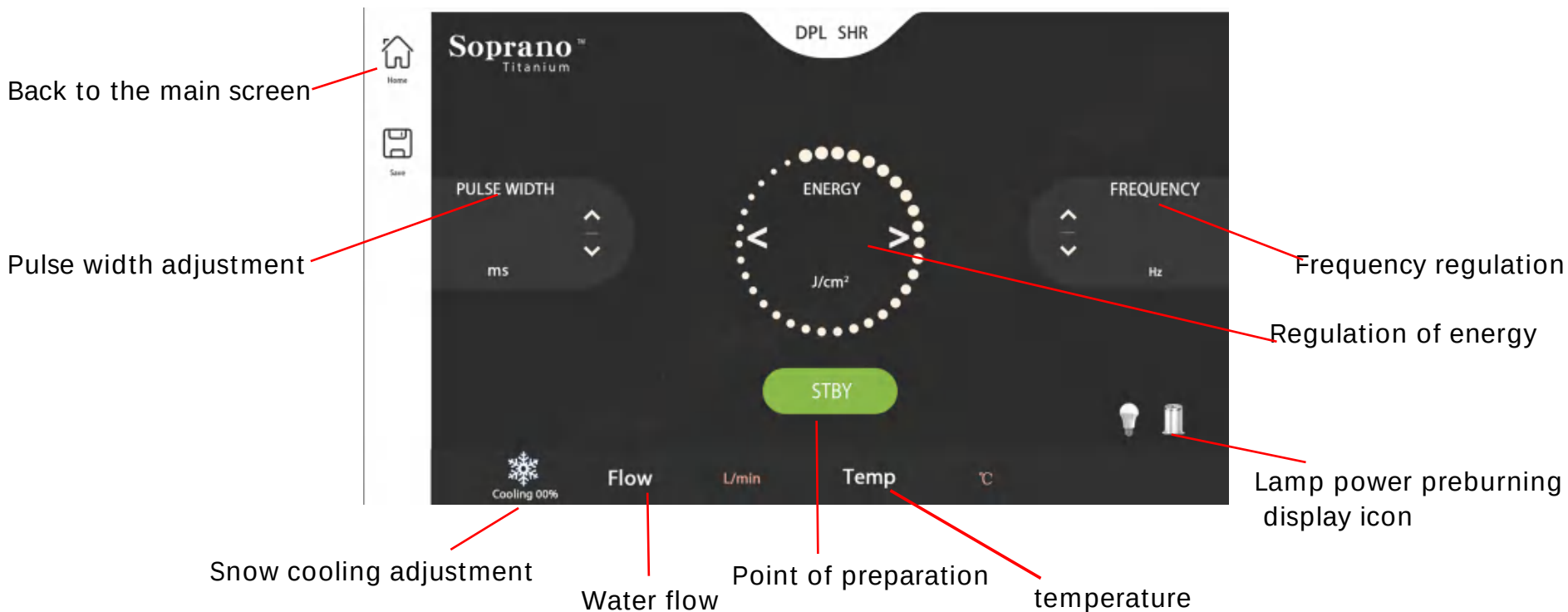
Operation site selection

Skin color selection of
operation site

Skin rejuvenation interface



DPL operation interface



RF operation interface

Back to the main screen



Home



Save



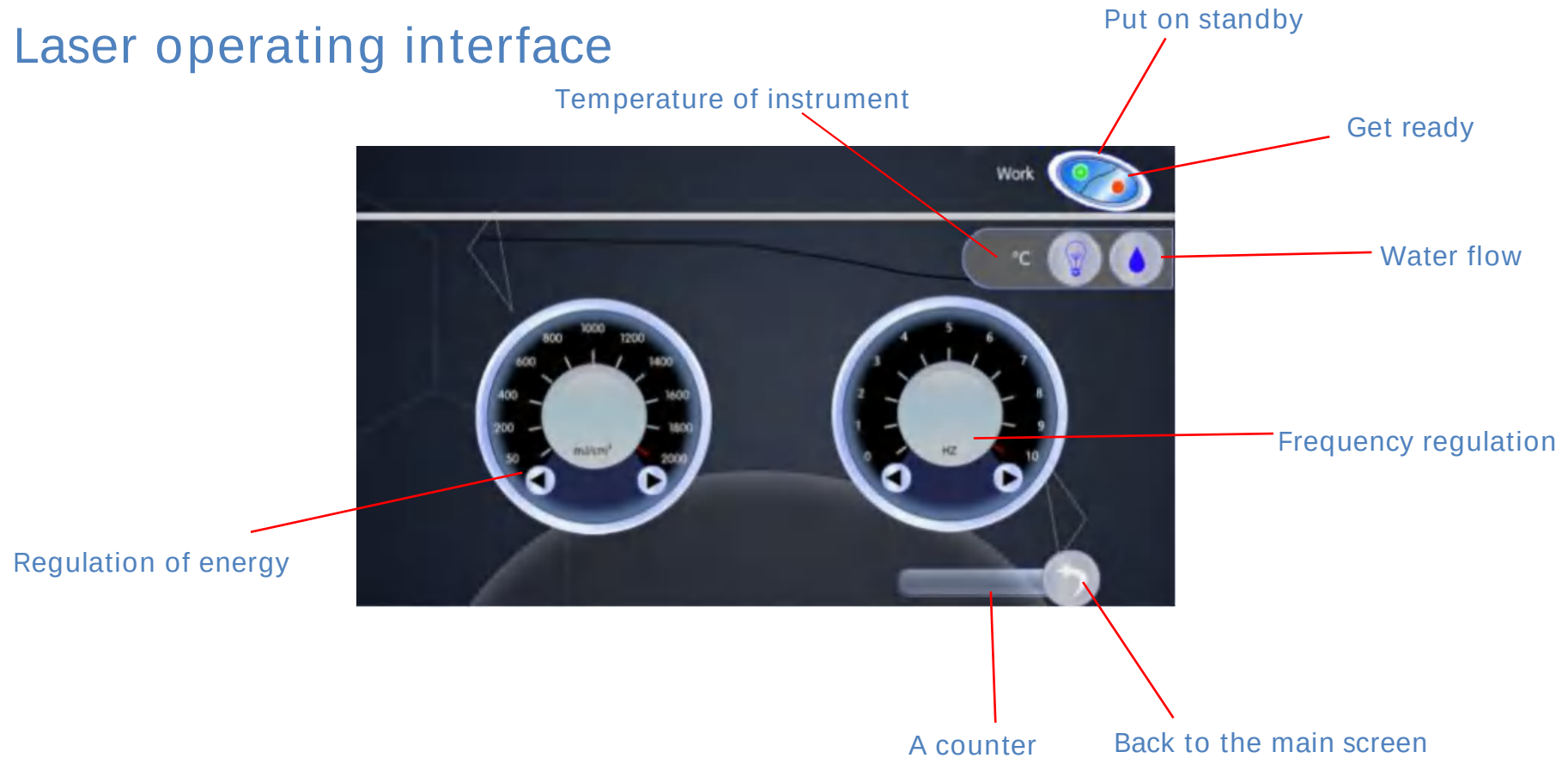
Frequency regulation

Snow cooling adjustment

Water flow display

Point of preparation

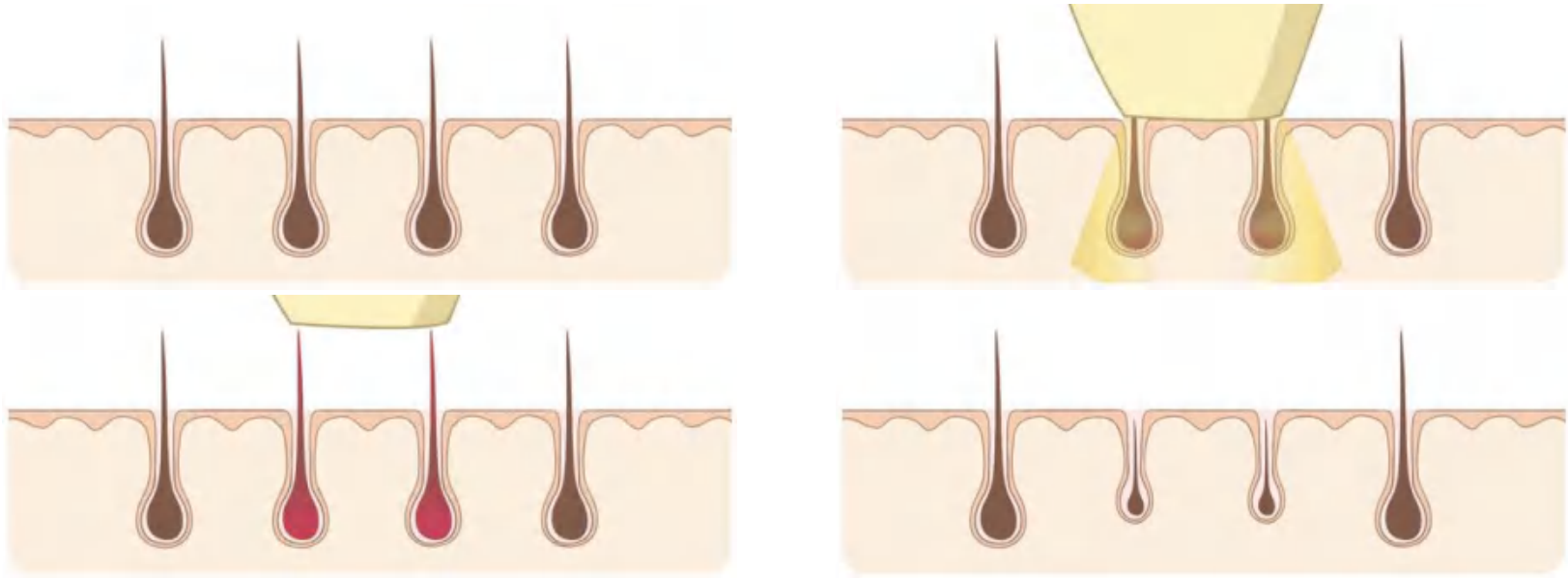
Laser operating interface



Hair removal handle



Depilation principle



After the melanin in the hair shaft selectively absorbs the light energy, the light energy is converted into heat energy, and the heat is transferred to the isthmus of the hair follicle and the bulge of the hair follicle (hair nipple, hair growth point) through the hair shaft, so as to destroy the blood vessels at the hair nipple and make it shrink by heating, thus achieving the effect of hair removal.

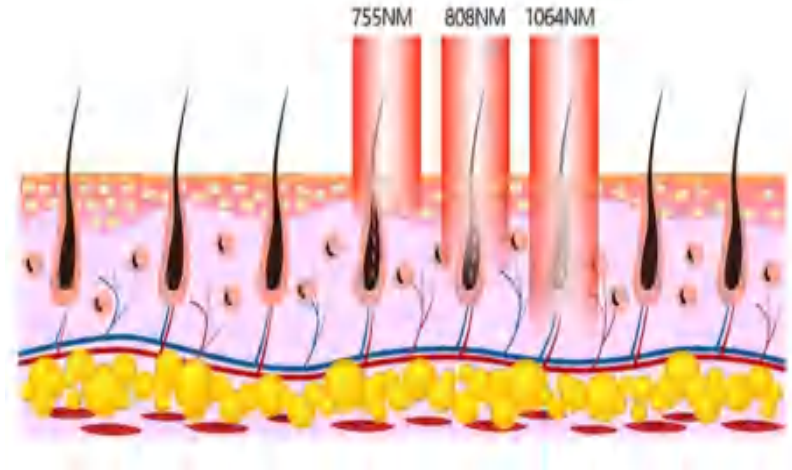
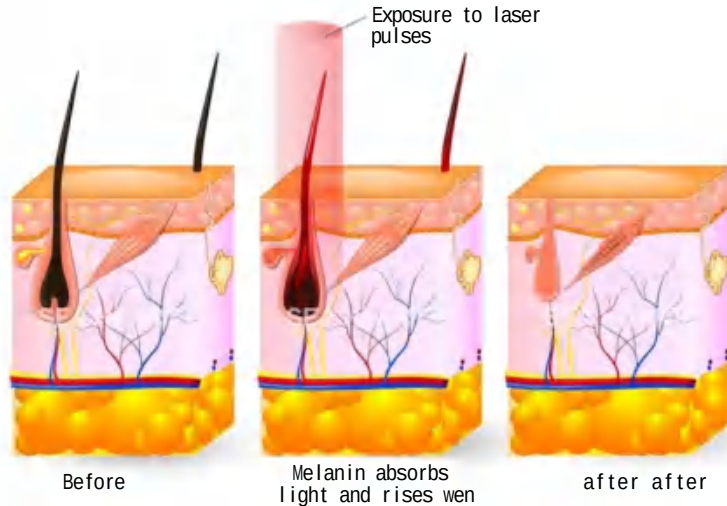
Hair removal handle



640nm function: hair removal
530nm function: rejuvenate skin
480nm effect: light spot

Principle of hair removal

laser hair removal device



The laser selectively acts on natural hair loss, prevents hair loss and stimulates the regeneration of melanin in the hair, achieving late collagen regeneration of hair follicles

Constricting the pores and hair growing areas to tighten and smooth the skin.

After selectively absorbing light energy by melanin in the hair shaft, the light energy is converted into heat energy, which is transmitted through the hair shaft to the isthmus of the hair follicle and the hair follicle protrusion (dermal papilla, hair growth point), thus destroying the blood vessels at the dermal papilla and causing it to shrink under heat, so as to achieve the effect of hair removal.

Laser handle



Laser handle probe

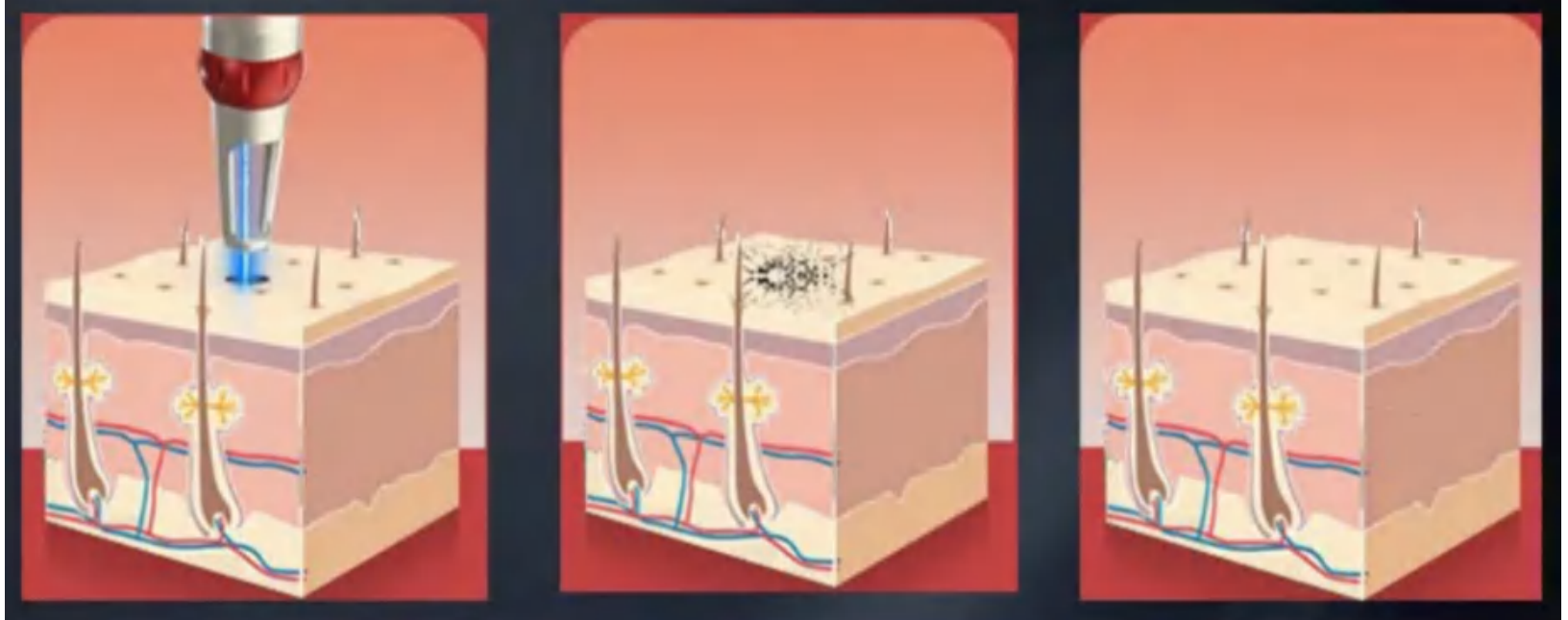


532nm: wash colored eyebrow wash color tattoo dispel spots and remove nevus

1064nm: Wash dark eyebrow wash dark tattoo remove dark spots remove dark nevus

1320nm: Blackface doll oil control whitening blackhead

Laser Principles and Advantages



Using the principle of "selective photothermal decomposition", the shorter the laser action time, the better the effect. The accumulated laser energy absorbed by the target tissue is more difficult to diffuse to the tissues around the target tissue, and the energy is limited to a certain extent. In target treatment, it is necessary to protect the surrounding normal tissues, so the greater the treatment intensity, the stronger the selectivity. The pulse width of a picosecond laser is only one millionth of a traditional q-switched nanosecond laser. Its excellent performance ensures that picosecond laser pulses crush pigment particles more thoroughly, while causing damage to surrounding tissues.

Radio frequency handle

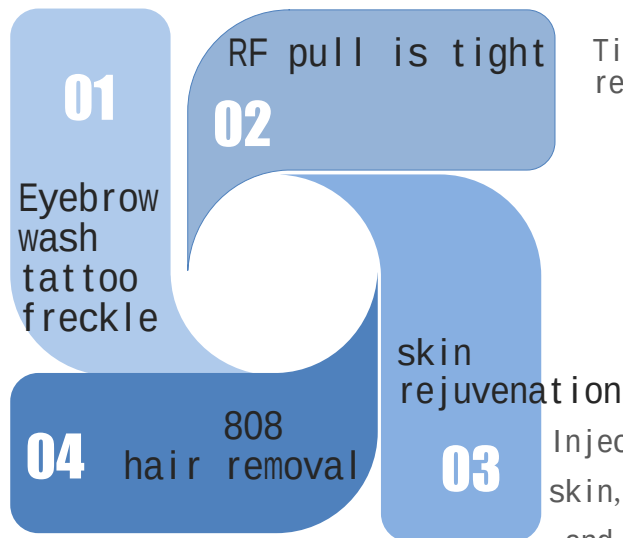


RF There are three lenses of different sizes
Different sizes can be treated differently
Parts (neck, face, thighs, arms, body, armpits).

Treatment scope

Eyebrow wash tattoo
freckleEpidermal pigmentary
lesions such as freckles,
seborrheic keratosis,
lentiginous nevus and
pigmentation after chloasma
and speckle-like
inflammation.

Including front and back
hairline, face, lip hair,
neck, arm, hand, body,
bikini, leg and foot.



Tighten skin, improve facial contour,
reduce fine lines and wrinkles

Injected products can whiten and tender
skin, shrink pores, improve skin texture
and enhance skin elasticity.

Taboo population

-
- (1) Three high: hypertension, hyperlipemia and hyperglycemia;
 - (2) Patients with heart disease, diabetes, epilepsy, and other major diseases;
 - (3) Have a history of scar;
 - (4) Photosensitive constitution or drug-induced photosensitivity or taking photosensitive drugs
(isotretinoic acid);
 - (5) Active herpes or skin damage;
-

- (6) Women have three menstrual periods, pregnancy and lactation;
- (7) Microinjection within three months;
- (8) Perfectionists;
- (9) Those who will be exposed to the sun or have been exposed to the sun in the near future;
- (10) Taking anticoagulant drugs;
- (11) Those with similar skin color and action color base;

Skin rejuvenation process

01

Preoperative cleaning: Clean the makeup on your face with small bubbles or large oxygen glowing bubbles. Apply the gel evenly to the thickness of a dime.

02

Adjust the parameters of the instrument, wipe and disinfect the treatment head with alcohol, stick it vertically and compact it, operate at a fixed point, overlap the light spot 3/1, alternate horizontally and vertically, and treat

03

After the operation is completed, after the gel is cleaned, immediately apply the disposable medical cold compress, wipe the probe clean and put it back in place.

Clinical end point: slight tingling sensation on the skin after completion, slight redness and swelling in a few parts.

Parameter adjustment (The following values are for reference only)

hair removal

parts	power (J/cm^2)	Suggested mode	times	Interval
face	1-5	fixed point	unlimited	28—30days
arms/legs	2-8	slither	unlimited	28—30days
neck	1-5	fixed point	unlimited	28—30days
back	2-8	slither	unlimited	28—30days

skin rejuvenat

n parts	power (J/cm^2)	frequency (Hz)	Suggested mode	times	Interval
face	2-8	10-20	fixed point/slither	unlimited	28—30days
arms/legs	3-10	20-30	slither	unlimited	28—30days
neck	2-8	10-20	slither	unlimited	28—30days
back	3-10	20-30	slither	unlimited	28—30days

Note: Due to different personal feelings, the adjustment of instrument parameters can be increased from low to high according to the customer's feelings, and finally the actual customer's feelings will prevail.

Parameter adjustment (The following values are for reference only)

Soprano region energy regulation diagram

Treatment site	recommend(SHR STACK/SHR/HR)	fluence(J / c m ²)	energy(kj)	Suggested mode	Number of treatments	Interval time
private area	SHR STACK/SHR	10_20	200-300	fixed point	2-5times	28-30days
face	SHR STACK/SHR	10_20	200-300	fixed point	2-8times	15-20days
legs	SHR/HR	15-25/5-10	250-350	slide	2-5times	28-30days
armpits	SHR/HR	15-25/5-10	250-350	slide	2-5times	28-30days
hands	SHR/HR	15-25/5-10	250-350	slide	2-5times	28-30days

Note: There is no fixed value for energy, and it is adjusted according to the actual capacity of the customer

postoperative care

1. For postoperative care, use medical cold compress immediately for 15 days, preferably after storage in refrigerator use.
2. Sunscreen: Do not use efficacy cosmetics, physical sunscreen, (mask, UV protection, glasses) within seven days
3. Spicy, seafood, beef and mutton and other stimulating foods are prohibited within seven days.
4. Do not touch hot water at the treatment site for 24 hours. No sauna, sweat steaming, swimming and other activities are allowed within 7 days.

Freckle removal process

01

Preoperative cleaning: Clean your face with small bubbles or large oxygen bubbles. Apply the gel evenly to the thickness of a dime. Wipe the treatment head with alcohol for disinfection.

02

Adjust the parameter energy of the instrument for 10 minutes, first do half of the cheek, and observe for 5 minutes to see whether there is a clinical end point (skin redness, the color of the spot is deepened, and there is a feeling of emerging from the skin). If not, add 2 energy to the other half of the face, and observe for 5 minutes to see whether there is a clinical end point. If the energy is appropriate, do it 2-3 times according to this energy; On this basis, reduce 2 energy from the forehead. If there is no such phenomenon, the clinical end point will be deduced in turn. Vertical compaction, fixed-point

superposition, avoiding hair and nevus.

03

After the operation is completed, after the gel is cleaned up, immediately apply ice for 20-30 minutes, and then apply a medical cold compress and use a cold gel that can be used to repair the skin and diminish inflammation. Wipe the probe clean and put it back

Clinical summary:

The skin feels hot and hot after finishing, and the spot color is deepened or surfaced

Hair removal process

01

Preoperative skin preparation:
scrape off the excess hair with a
skin preparation knife and apply a
thin layer of gel.

02

Adjust the instrument
parameters, wipe and
disinfect the therapeutic
head with alcohol, stick it
vertically and compact, and
slide at a constant speed.

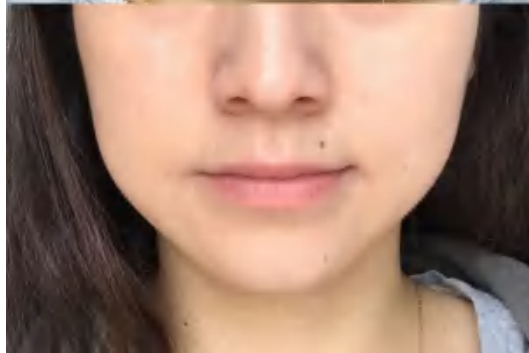
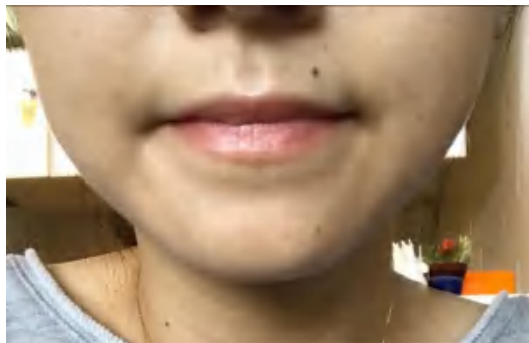
03

After the operation is completed,
the gel shall be cleaned. When the
clinical reaction of the skin is
serious (redness, swelling, scald)
, the medical ice bag shall be
used to ice for 15 minutes, and
then the hair removal repair fluid

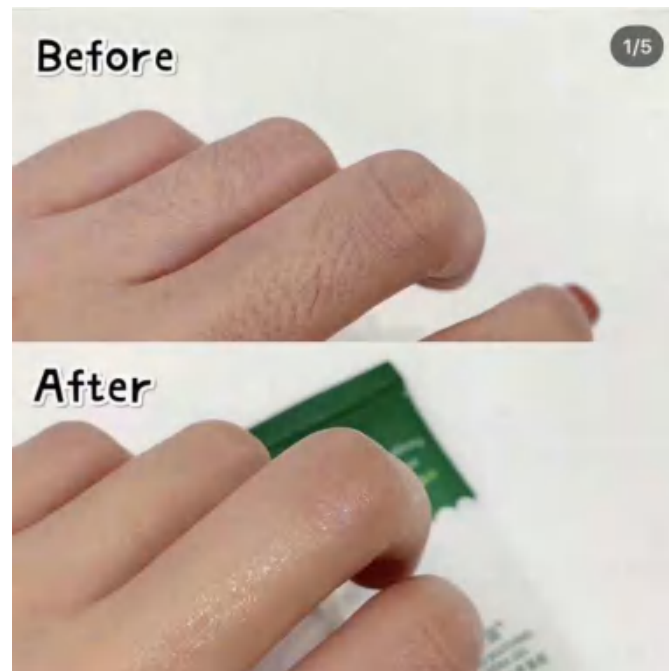
Clinical summary: 1、After finishing, the skin has obvious heat feeling, and the warm and hot feeling is the best. A few parts have slight redness and redness.

2、There is heat in the skin; Use the back of your hand to feel the heat from inside to outside.

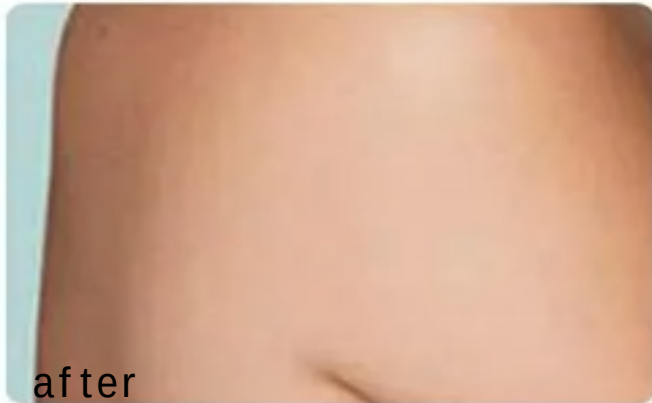
Comparison of skin rejuvenation effect



Comparison of hair removal effect



Comparison of tattoo washing effects



Precautions for use

1. The operating environment of the instrument shall be free from strong magnetic field interference, avoid being too close to the heat source, and ensure good ventilation and proper temperature and humidity;
2. Before starting the machine, first confirm that the emergency stop switch and leakage protector are in the popping state, and check whether the instrument is filled with water, handle and muscle application board
All wires shall be connected in place and firmly, and attention shall be paid not to plug the wrong interface;
3. The adjustment parameters and energy should be adjusted from low to high. The span should not be too large during each adjustment. The energy (power) should not exceed 2 units during adjustment, Ask and observe while doing, and adjust according to the patient's feeling;
4. The cold gel must be evenly applied to the operating parts, and can be supplemented at any time according to the operating needs, and can not be reused;
5. The operation time spots must overlap each other to ensure that the operation area is covered;

6. When operating the parts with prominent bone tissue (forehead, nose, forehead, eye), the parameter value should be appropriately reduced according to the patient's tolerance;
7. The electrode of the handle should not touch the skin. It must be close to the skin to ensure full contact, And keep the handle perpendicular to the skin surface;
8. Before the handle leaves the skin, turn off the handle or foot switch to prevent numbness and pain;
9. If the handle becomes hot due to long-time operation, it is necessary to change the water when changing the low temperature water in standby mode
2/3 of the water volume in the tank;
11. People who have undergone gold wire implantation and skin injection of protein collagen should first use small energy test, and closely observe and ask the patient's feelings, The patient only needs to feel warm. If the patient has any discomfort, stop the operation immediately;
12. Pay attention to the use of the emergency stop switch. When the power supply needs to be cut off in an emergency, you can directly Press the emergency stop switch.

Maintenance method of laser instruments in winter

1. Applicable instrument

Picosecond laser, Q-switched laser, OPT, eyebrow washing machine, 808, freezing

2. Maintenance principle:

Because the xenon lamp or laser rod inside the laser instrument needs water to dissipate heat,

the water temperature in the instrument should not be lower than 0°C in winter, otherwise the water inside the instrument will freeze and cause damage to the xenon lamp or laser rod 808 laser and the freezing handle.

3. Maintenance plan:

(1) Ensure that the room temperature is not lower than 0°C for 24 hours

(2) Run the instrument for 3 minutes before starting in winter, and then operate when the instrument is running normally.

(3) If there is no heating area, when the room temperature is lower than 0°C at night, it is recommended to drain the instrument memory water every night and add water again the next day.

(4) Laser instruments can not be transported when the outdoor temperature is lower than 0°C in winter. If you need to transport in addition to the water inside the vent instrument, contact the engineer to vent the instrument laser and internal water pipes. Otherwise, xenon lamp, laser rod and 808 laser will be frozen and cracked.

Common problems and routine maintenance of instruments

1. The machine has no power

fault analysis

- (1) Replace the power cable
- (2) Start the emergency stop switch
- (3) Replace the emergency stop and key switch
- (4) Change the insurance

2. The handle is not refrigerated

fault analysis:

- (1) The continuous working time is too long and the temperature of the water tank is too high
- (2) The cooling system is faulty

3. The handle is hot or even hot

fault analysis

- (1) No water is added, or the amount of water is insufficient
- (2) After adding water, there are bubbles in the waterway leading to poor water circulation
- (3) The water tank in the cavity is blocked, and the water circulation in the cavity is not smooth.
- (4) The continuous working time is too long, the temperature of the water tank is too high

solution:

- (1) Add water to ensure water circulation
- (2) Check whether the water pump works or starts it continuously for more than 3 times, so as to discharge the gas in the waterway
- (3) Cleaning the chamber, the heat can not be taken away from the chamber
- (4) Shutdown cooling or water change about 2/3 of the overall volume



THANK YOU