

Tixel (Fraxel) instruction



Before using the instrument, please read the manual carefully and operate it strictly in accordance with the instructions in the manual.

One、 What is Tixel (Fraxel) ?

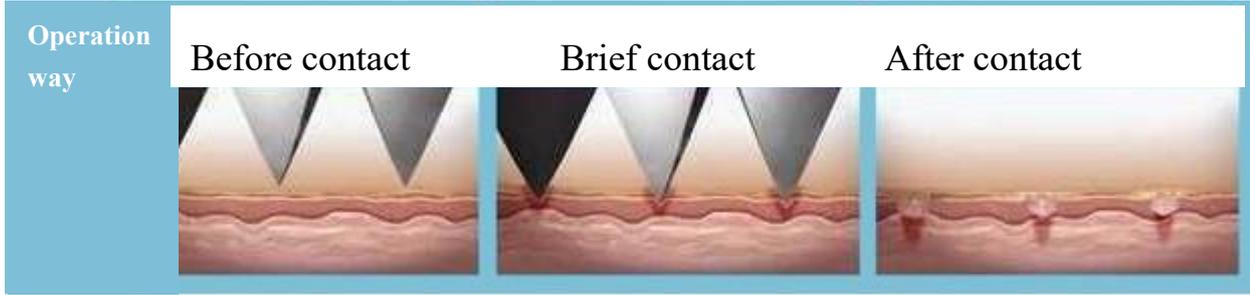
Tixel (Fraxel) is a new titanium thermal energy lattice skin repair system from Israel, which precisely controls the contact time and depth, and achieves "ultra-micro exfoliation" without burning.

Tixel uses a new type of natural thermal matrix lattice technology and uses 81 sterile titanium matrix probes of 1²cm to contact the skin at a rate of 0.1 millisecond and transfer heat energy to the treatment site without damaging the skin tissue. At the same time, heat energy is transferred to the dermis layer to activate collagen and elastic fibers to regenerate, effectively solving many problems such as wrinkles, neck lines, acne marks, large pores, scars, skin coarseness, dark and yellow skin, stretch marks, comprehensive treatment of various skin problems.

Tixel is a new generation of thermal energy equipment. The new patented thermomechanical exfoliation (TMA) technology breaks through the skin rejuvenation effect of traditional laser therapy and brings a safe, efficient, painless, fast and convenient beauty experience.

Two、 Principle

Tixel (Fraxel) is a new natural thermal energy matrix lattice technology. By storing the thermal energy in the therapeutic head made of titanium metal, the therapeutic head then contacts the skin in the form of an electric microneedle general seal, at the speed of 0.1ms, it can introduce 400 °C high temperature into the skin in sections, quickly vaporize the moisture of the skin, effectively destroy the scar tissue and form the fibrous tissue with scar depression, thoroughly remove the defects on the skin surface; The heat that penetrates deep into the bottom of the muscle also has the role of activating fibroblasts, prompting them to produce collagen and elastin in large quantities, thereby reconstructing the dense collagen network of the dermis and restoring the skin to a smooth, firm, plump and elastic beauty state.



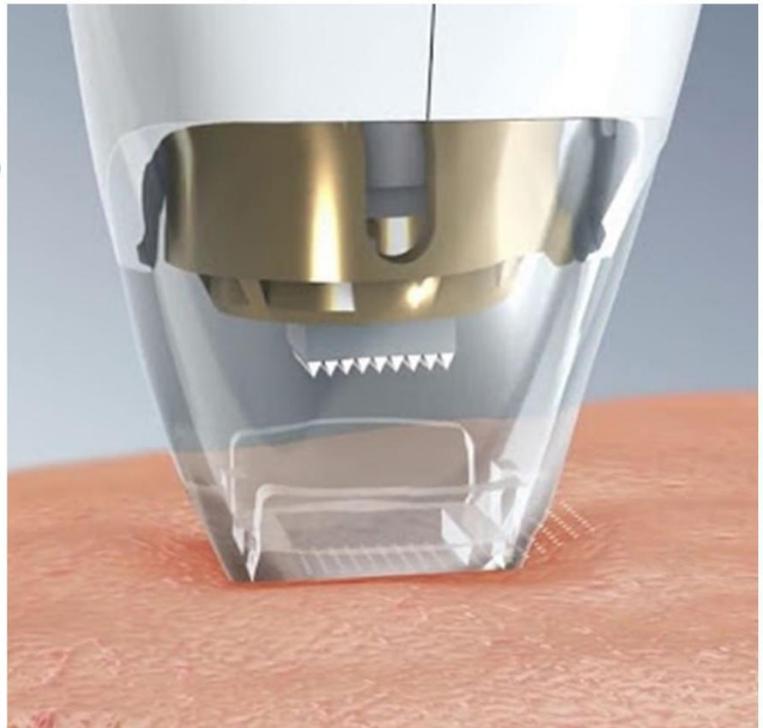
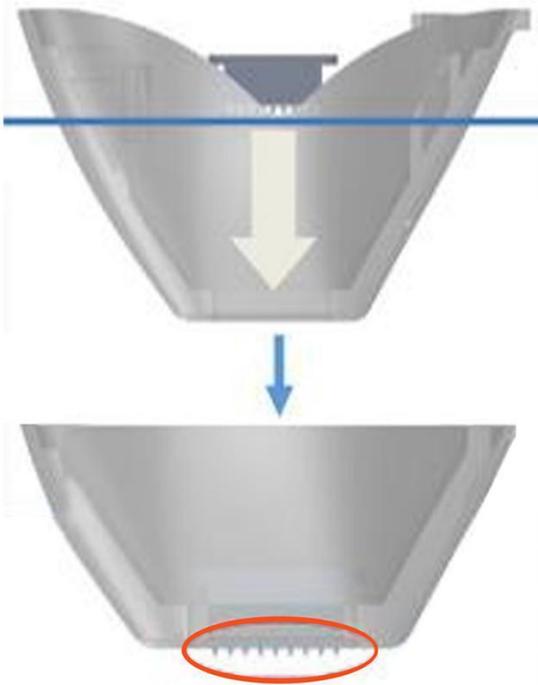
It uses a heating type suitable for human body (400 °C),
 Tip (1 cm²). Inside the tip is an array of 81 tiny vertebrae.



After brief contact with the skin, the heat is transferred to the upper layer of the skin and forms fine pores as micron size.

How much heat is transferred depends on how long the machine is in contact with the skin and how much heat is transferred at the tip. Therefore, depending on these properties, we can obtain a variety of clinical effects.

Tip moves forward (movement)



Three、 Advantage

- 1、 The ultra-fine peeling and safe instrument does not irritate the skin, only natural heat conduction.
- 2、 Fast treatment (15-30 minutes): superior heat conduction, heat conduction of 0.1 milliseconds; amazing penetration depth, depth up to 500 microns.
- 3、 Safely treating with extremely low pain, a comprehensive breakthrough, multi-effect treatment to regulate skin condition.
- 4、 There is no need for anesthesia, simple operation and post care.
- 5、 After treatment, the part is different from the traditional laser, no skin breaking, no burning, no bleeding.
- 6、 Compared with the traditional laser scar removal, it does not need irradiation, uses natural heat energy to transfer, less damage and shorter repair period.
- 7、 The instrument is light, portable, and highly flexible.

Four、 Titanium therapeutic head

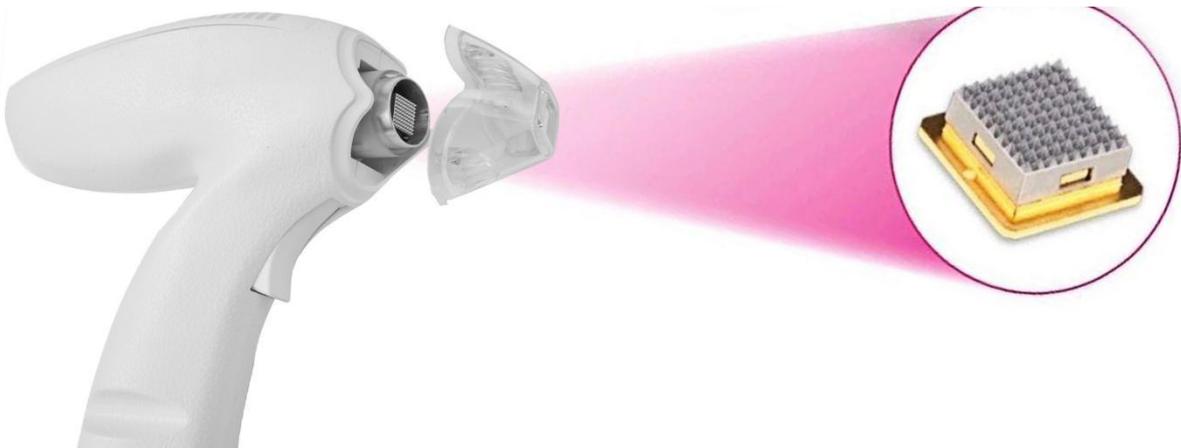
High temperature resistance: it can be used for a long time under the temperature of 600 °C or even higher, and can conduct heat conduction efficiently and stably.

Corrosion resistance: even if worn, it will heal by itself or regenerate.

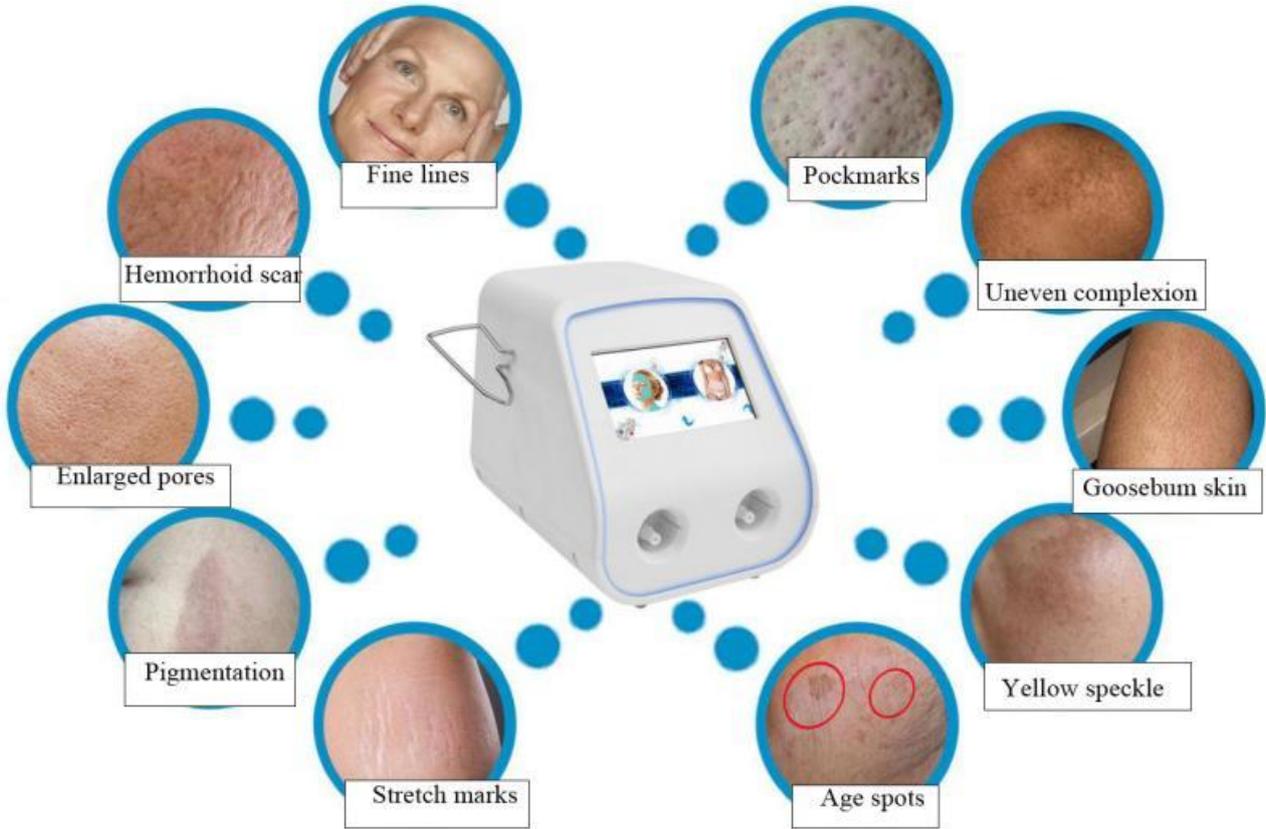
High strength: Titanium has extremely high strength and is often used to make artillery and tanks. It can reduce weight and is very durable.

Non toxic and non-magnetic: non-toxic and compatible with human tissues and blood.

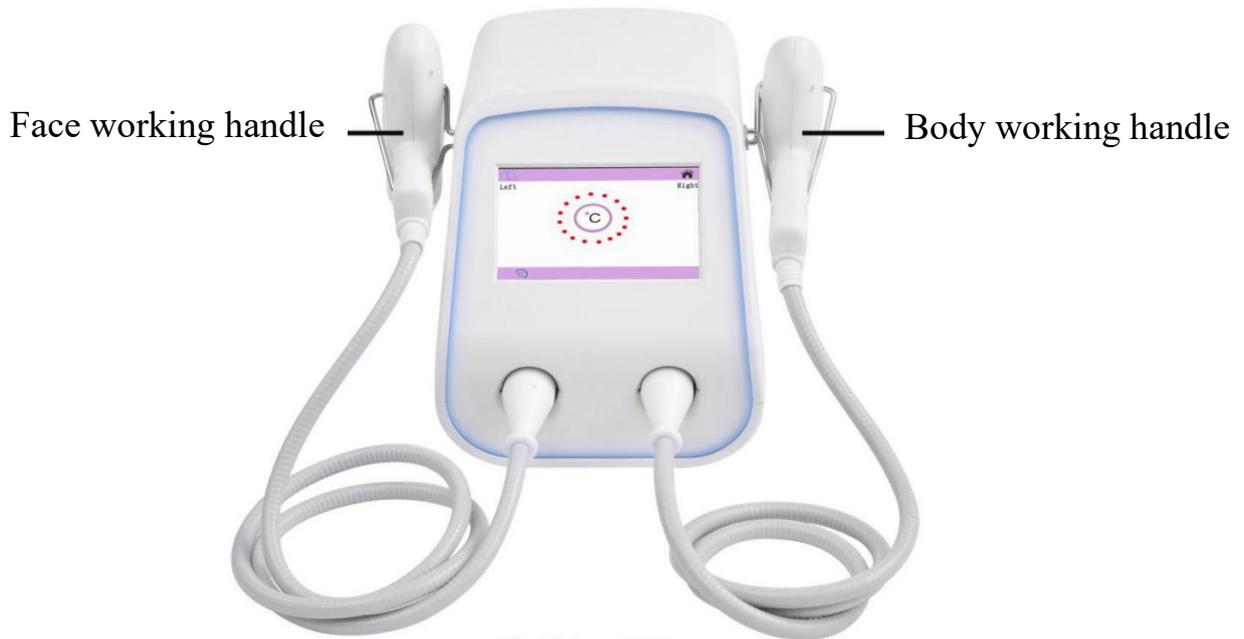
No cleaning required: non-sticky, automatic dry heat sterilization system.



Five、 Variety of skincare treatments

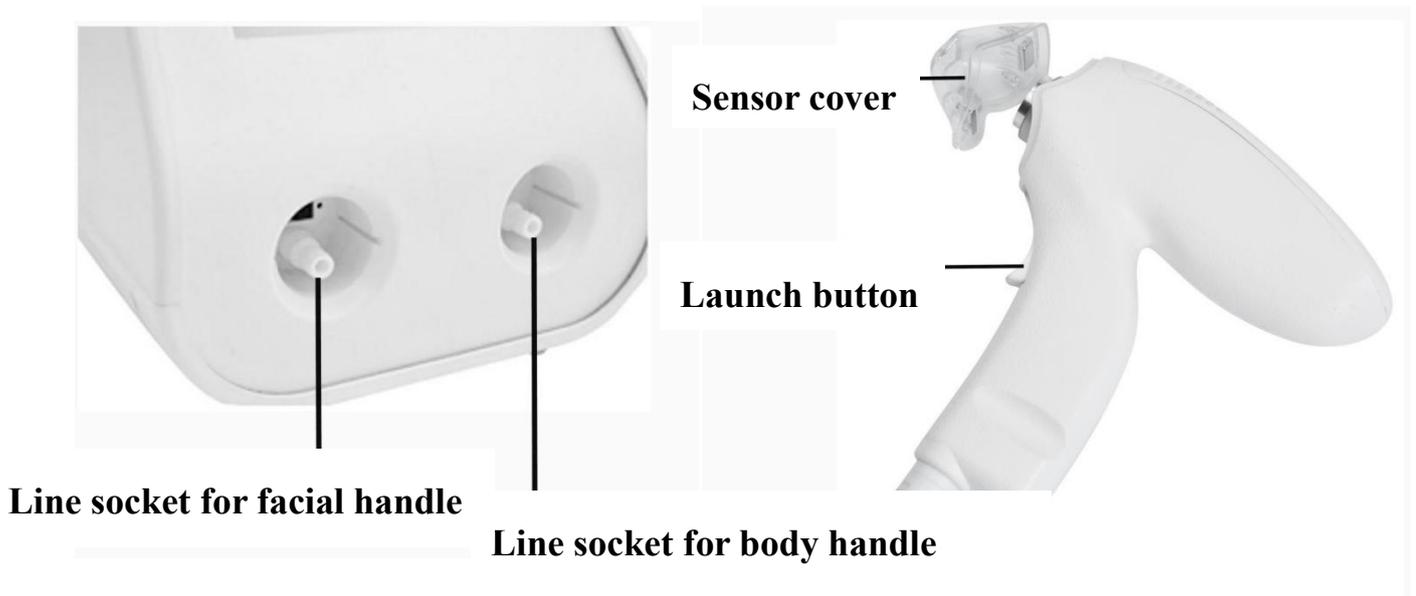


Six、 Instrument indication



Front of instrument

Accessories: two working handles (face / body)



(When the sensor cover is cleaned, it needs to be cleaned after 5 minutes of stopping work; don't touch the sensor cover by hand during operation)

Seven、 Interface introduction

1、 **Start-up** : After the work handle is installed and connected, the instrument is powered on, and the power switch is turned on. The machine will start-up and the boot interface appears as following picture (**Figure 1**)

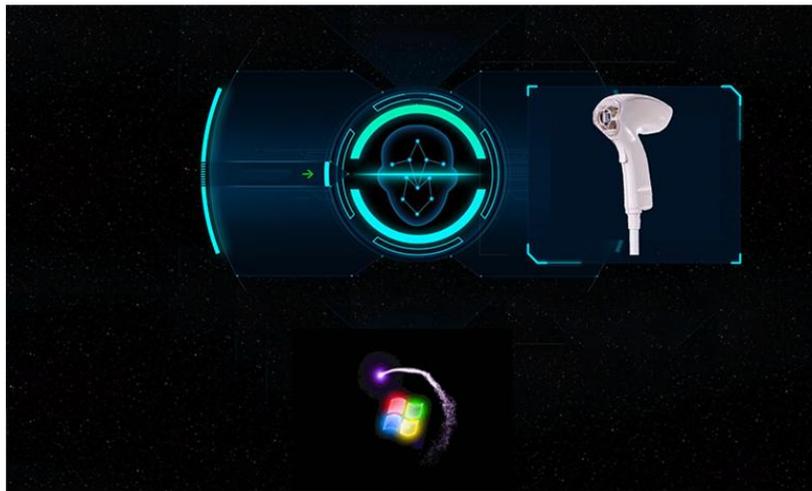


Figure 1

2、 3 seconds after booting the interface, you can automatically enter the language selection interface (**Figure 2**).
Two languages:English or Israeli.

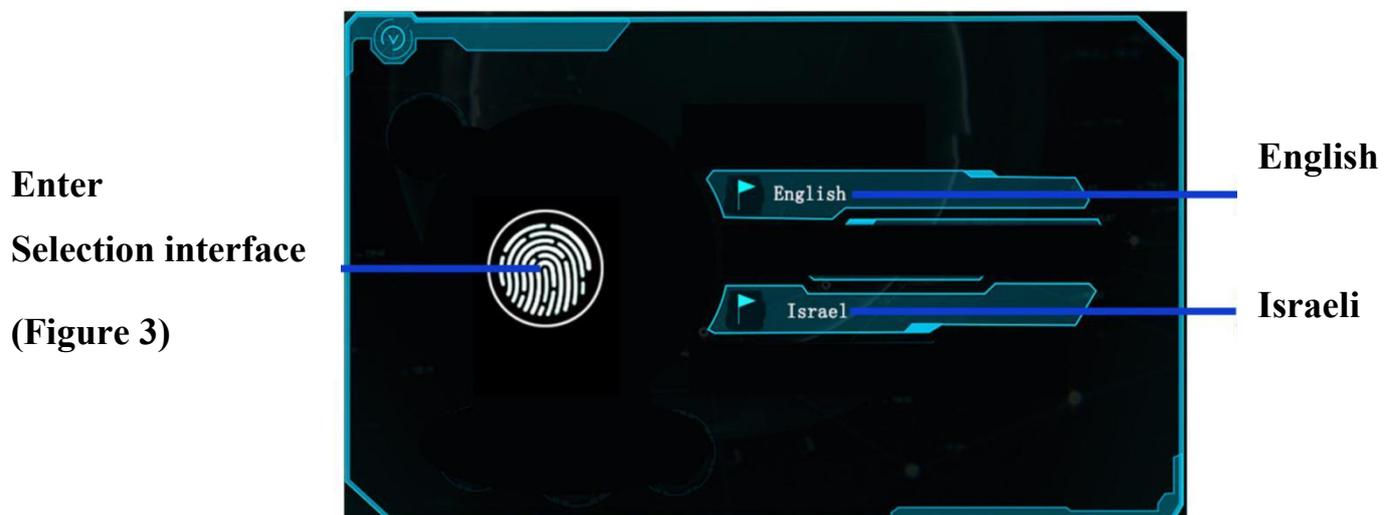


Figure 2

3、 Selection the interface (**Figure 3**),select the face or body working interface respectively.



Figure 3

59  4、After entering the standby interface(Figure4), the instrument will automatically start to warm up;When the 59-second warm-up time counts down to 00, it will automatically jump to the next interface.

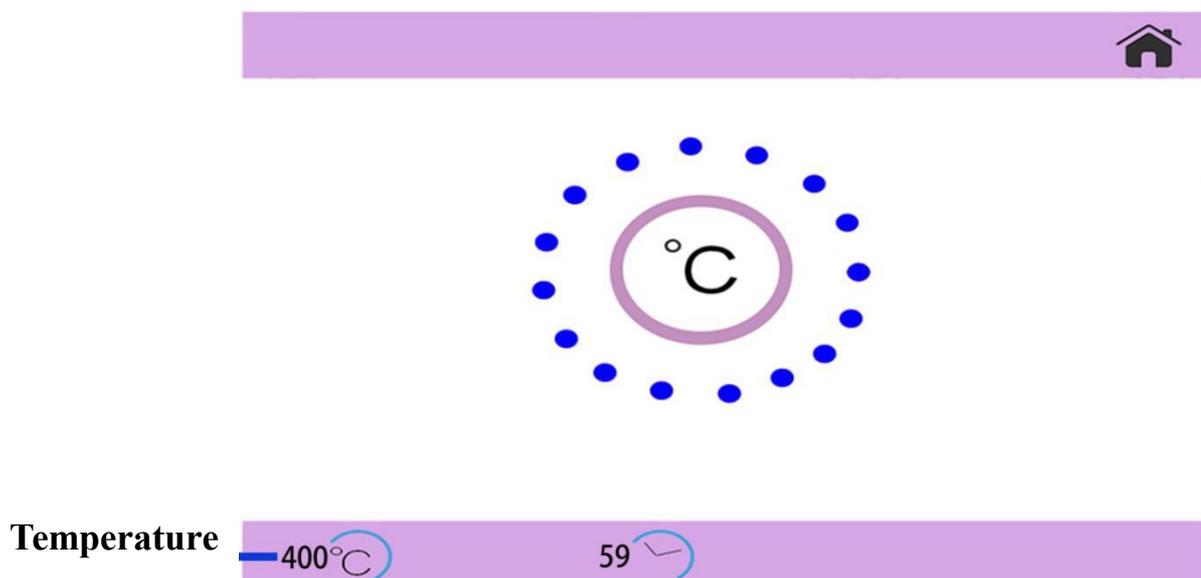


Figure 4

5、 Face working interface (Figure 5)

It will start-up after selecting the parameters "Ms" and " μ m"

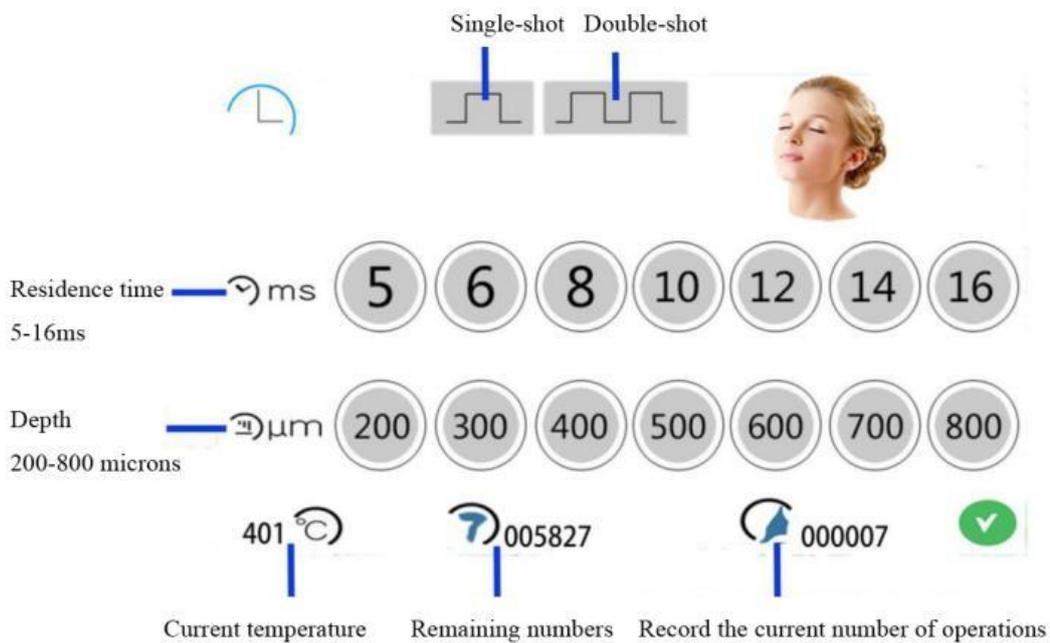


Figure 5

6、 Body working interface (Figure 6)

It will start-up after selecting the parameters "Ms" and " μ m"

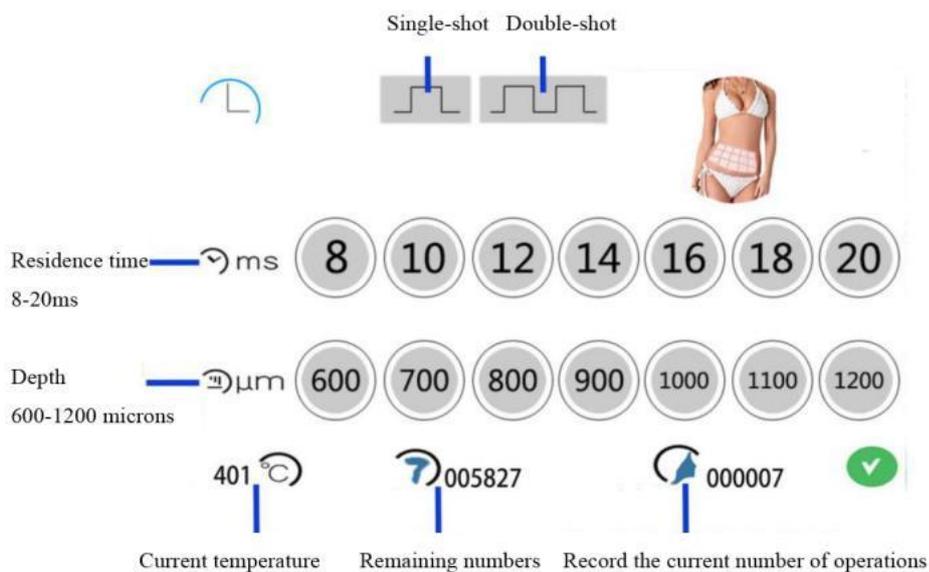


Figure 6

The treatment intensity is precisely controlled by the contact time of the tip tissue. The longer the ms, the more energy is transferred to the tissue.

Eight、 Parameters of therapeutic site:

Therapeutic site	ms	μm
Forehead / jaw (shallow area)	5-6ms	200-400 μm
Cheek / neck	8-12ms	200-600 μm
Body	10-18ms	700-1000 μm

Nine、 Instructions

1、 Before operation, the sensor cover of the probe needs to be removed for cleaning and disinfection.

(When the sensor cover is cleaned, it needs to be cleaned after 5 minutes of stopping work; don't touch the sensor cover by hand during operation)

2、 Before operation, use normal saline to clean the skin;

3、 There is no need for local anesthesia or other mediums before operation; (if some patients can't bear it, they can choose to apply anesthetics to reduce the pain as much as possible, and remove the cleaning anesthetics after about 30 minutes of application)

4、 Entering into the operating interface of the instrument, select the parameters "ms" and "m", and then the instrument will starts immediately;

5、 When the instrument is in the ready , the beautician can not press the skin forcibly when the probe (sensor cover) is attached to the skin, gently fit the skin, and then press the launch button on the handle to operate in small pieces in a stamp , The operation only needs to do2-3 times; Do not repeat for many times to avoid affecting the repair time.



Note: When the probe is close to the skin, remember that the position of the bones cannot be pressed firmly on the skin.

6、 Paying attention to the conformity of the probe, and gently apply the probe vertically to the skin without gaps or imbalances.

7、 If you feel warm or even hot during the treatment, it is a normal reaction. Due to different skin types, you will have different feelings and reactions. If you can't bear it, please inform your doctor or medical staff.

8、 After the operation, immediately apply ice for 15 minutes for sedation .

9、 After the operation, apply repair products or apply medical repair masks.

10、 After operation, do not touch raw water at the nursing site for 12 hours.

11、 Treatment cycle: once a month, 2-5 times a course of treatment.

(According to the individual's skin condition and post-operative care and other factors, it is recommended to use more treatment times for better results)

Ten、 Postoperative reactions and measures

1、 After operation, sunscreen should be strengthened and SPF should be more than 30 times;

2、 Do not touch the area with hands after operation to prevent bacterial infection;

3、 Slight edema and redness after surgery are normal and will resolve within 24 to 48 hours;

4、 Apply repair products and apply medical repair masks in the morning and evening within 15 days to strengthen repair;

5 、 It's normal that there will be slight itching after subcutaneous repair and regeneration. Do not use your hand to scratch;

6、 On the second day, there will be tiny particles of scab, and the scab will come off in about 5-10 days. When there is slight dryness, desquamation and scab, it is forbidden to pick off and rub the skin with hands; make sure that the scab will mature and fall off by itself.

7、 After 3-5 days of operation, the skin will be temporarily dry. Please strengthen the moisturizing and use water-based skin care products.

8、 Do not scrub the treatment area after treatment, please use soft towel to dry the water.

9、 Within 2 days after the operation, the heat will continue to act, and the skin will produce a slight red and hot feeling, which is a normal phenomenon. If you still feel uncomfortable, you can take ice sedation, drugs to help relieve the discomfort.

10、 After operation, a few patients have acne, which may be caused by the blocked sebaceous glands and some "hidden" acne in the pores. Because Tixel accelerates the internal circulation of the skin and makes the acne come out faster, these are normal phenomena, which will be relieved the next day. However, due to the principle of Tixel, the skin is relatively dry after operation, as long as just strengthen moisturizing and repair.

Eleven、 Precautions

- 1、 Avoid menstrual period, pregnancy period, lactation period;
- 2、 Avoid upper eyelids, eyebrows, hairline, blood vessels, and larynx nodes;
- 3、 Do not eat food with too dark color after surgery, such as soy sauce, beef, etc;
- 4、 After the operation, avoid drinking alcohol, spicy food and seafood;
- 5、 Avoid strenuous exercise, skin massage, fumigation and hot spring bathing within 1 week after the operation;
- 6、 Do not ingesting alcohol after surgery, alcohol will make the phenomenon of redness lasting for a long time, not conducive to repair, so it's recommended to prohibit;
- 7、 Don't use skin care products that are exfoliated, contain retinoic acid, fruit acid or other stimulating ingredients after operation;
- 8、 If there are multiple serious allergic symptoms, delay treatment as much as possible to avoid local opportunistic infections;

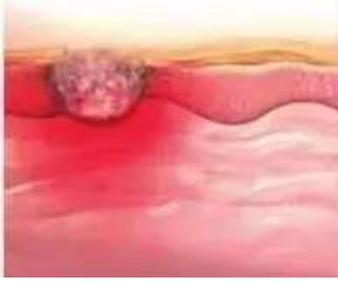
Twelve、 Contraindication

The Patients with the following symptoms should be cautious in using the device.

Please consult doctors or professionals before using the device. The details are as follows:

- 1、 Patients in high risk should be careful;
- 2、 Patients with skin cancer should be careful;
- 3、 Those with unhealed surgical wounds should be use careful;
- 4、 Those with severe heart disease,acute disease should be use careful;
- 5、 Those with gold wire implant should be used careful;
- 6、 Patients with poor function of self repair such as scar constitution should be used with caution;
- 7、 Patients with severe cystic acne and those with skin inflammation in the outbreak period should be use careful;
- 8、 It's not recommended for women during menstruation, pregnancy and lactation;
- 9、 Those who have just injected uric acid (after injection, they can do it one month later);
- 10、 Patients who have had thread embedding and skin pulling operations within 3 months before the course of treatment should be careful;

Thirteen、 The difference between fraxel and traditional laser

Tixel(Fraxel) (Natural heat conduction)	Traditional laser
Ultra-micro exfoliation	Exfoliative fractional laser
No skin breaking, no burning, no bleeding	Ablation, easy to pigmentation
Fast recovery	Slow recovery
Low pain,tolerable,no anesthesia required	The pain is obvious during the treatment, and it needs to be coated with narcotic drugs
	

Fourteen、 Common problems

Q:How long can Tixel treatment show results?

A:After one month of Tixel treatment, it gradually shows the effect of collagen regeneration, and pores and blackheads will also be significantly improved;After 2 times of treatment, the skin improvement is more obvious, which can reduce 30-50% of pockmarks and sunken scars. After 2-4 times of treatment, shallow pockmarks can basically be completely filled.

Q:What is the difference between Tixel and laser?

A:Different from laser, Tixel is not an optical device and does not require high-power current, scanner or water pump. It doesn't emit light, so it doesn't hurt the eyes;In addition, the Tixel will not produce smoke and particles during the exfoliative treatment, so there is no need to use a smoke exhauster or a dust mask. Since it can make the tissue coagulate well, it will not bleed during the treatment process, less pain and injury, and safer.

Q:What are the main effects of Tixel?

A:It's main effects include: 1. Skin regeneration; 2. Filling scars, acne and sunken scars; 3. Firming and rejuvenating skin, and improving pore coarseness; 4. Smoothing deep and obvious wrinkles and fine lines; 5. Repairing pregnant lines and orange skin tissue; 6. Removing surface blemishes; 7. Reducing pigmented scars.

Q:Will there be any pain during the treatment with Tixel?

A:Because the heat must achieve a real thermal effect on the dermal fiber layer to ensure the therapeutic effect, there is still a slight thermal pain, which is normal phenomenon and most people can bear. Individual beauty seekers can't bear when they are sensitive to pain. Surface anesthesia can be applied to minimize the pain of beauty seekers.

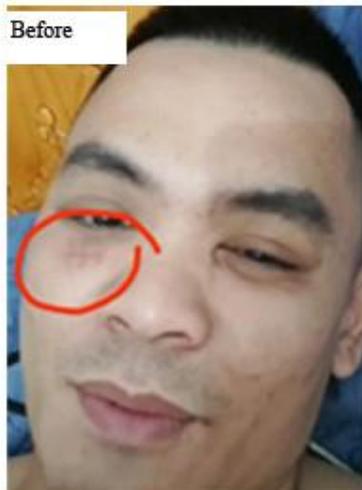
Q:Are there any side effects of Tixel?

A:Tixel is an innovative thermal energy lattice skin repair system, which precisely controls the contact time and depth, realizes "ultra micro peeling", does not produce scorching, bleeding and other side effects, and reduces the risk of anti-black.

Q:Is the Tixel treatment easy to infect?

A:No; the Tixel probe has an automatic dry heat sterilization function, which can maintain sterility and keep it clean, so there will be no infection during treatment.

Fifteen、 Clinical cases







Sixteen、 Technical specifications

Product name: Tixel (Fraxel)

Operating temperature: $400^{\circ}\text{C}(\pm 10^{\circ}\text{C})$

Input voltage: AC100V-240V

Output Power: 30-200W

Fuse: 10A

Dimensions of aircraft box: $26 \times 44 \times 30\text{cm}$

Weight: 7kg