



innoPEX

DPL+NIR 2 in 1 Machine training information

DNIRIS

The versatile machine that every customer wants to have



The new NIR has high security

The principle of cell light fusion carbon dioxide fractional laser makes intense pulsed light act on the target tissue in the form of points

Cellular light is based on the innovative research of selective photothermal effect and focal photothermal effect, which realizes the destruction of the target tissue after absorbing light energy while maximally protecting the surrounding normal skin, that is, reducing thermal damage, and the therapeutic effect is as high as 80%. In order to meet the ultimate pursuit of the majority of consumers for the effect.



The new NIR has a wide range of functions!

Its spectrum covers a variety of target tissues, among which the multiple absorption peaks of melanin, hemoglobin, and water are the main target tissues for our treatment.

Most problematic skin on the face is related to these target tissue diseases. For example, melanin is related to spots, pigmentation, and skin tone. Hemoglobin is related to flushing, redness, and sensitivity. Among them, water molecules are the largest component of our skin, Anti-aging metabolism problems are all related to the selective photothermal principle of water molecules to light.

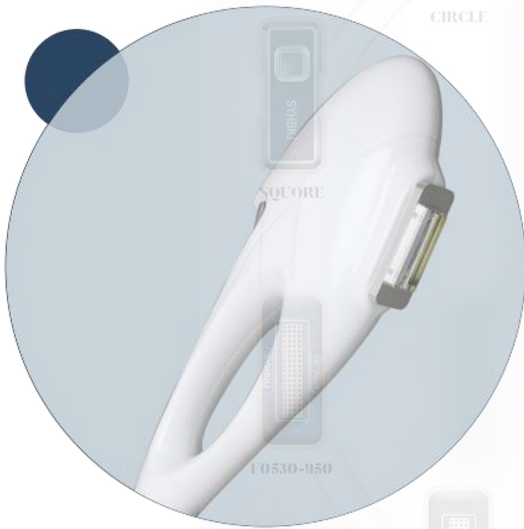


Cell Light Array Technology

- **Dot matrix technology**

The cell light uses a honeycomb filter, which blocks a small part of the light in a dot matrix, avoiding the treatment area. Concentrate the heat locally, speed up the heat metabolism of the skin, and reduce skin inflammation.

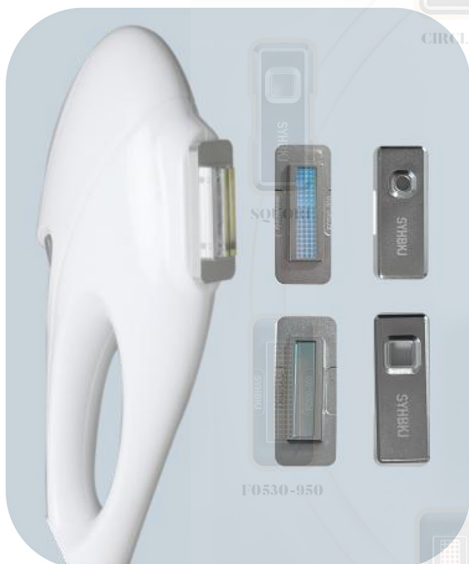
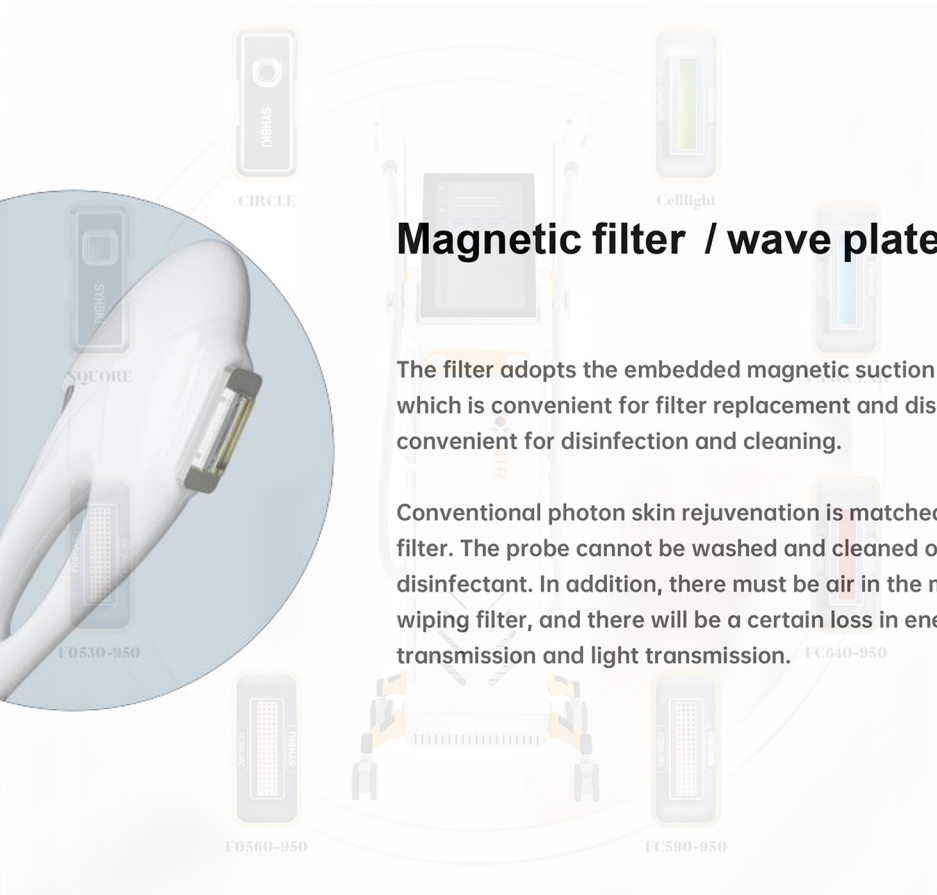
Photon skin rejuvenation is a strong pulse spectrum output by the mirror surface, the treatment density is concentrated, the heated area of the treatment part is large, and the recovery is slow.



Magnetic filter / wave plate technology

The filter adopts the embedded magnetic suction technology, which is convenient for filter replacement and disassembly, and convenient for disinfection and cleaning.

Conventional photon skin rejuvenation is matched with a wiping filter. The probe cannot be washed and cleaned or soaked in disinfectant. In addition, there must be air in the middle of the wiping filter, and there will be a certain loss in energy transmission and light transmission.



Double filter technology

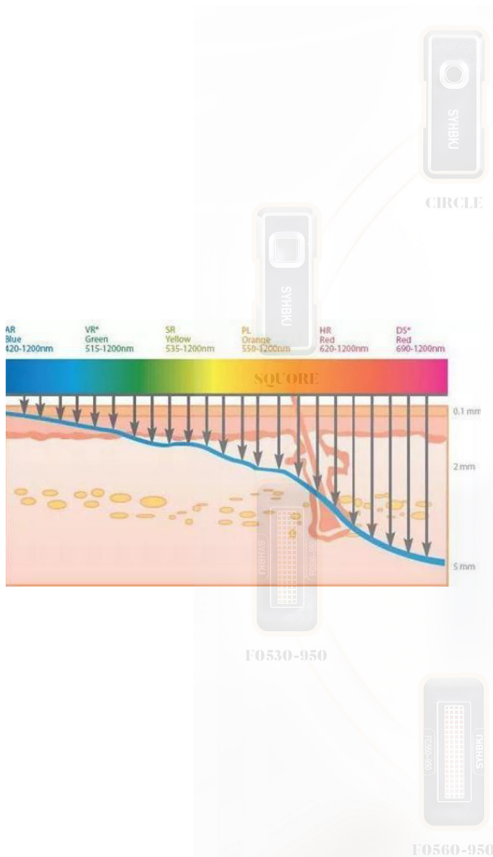
The cell light adopts double filtering technology, that is, it first intercepts a large range of usable colored light (400-1400nm) on the main crystal, and then intercepts precise bands on each filter. This double guarantees the purity of the filter, no ultraviolet radiation, and is truly safe and efficient





Eight wave plates for precise treatment

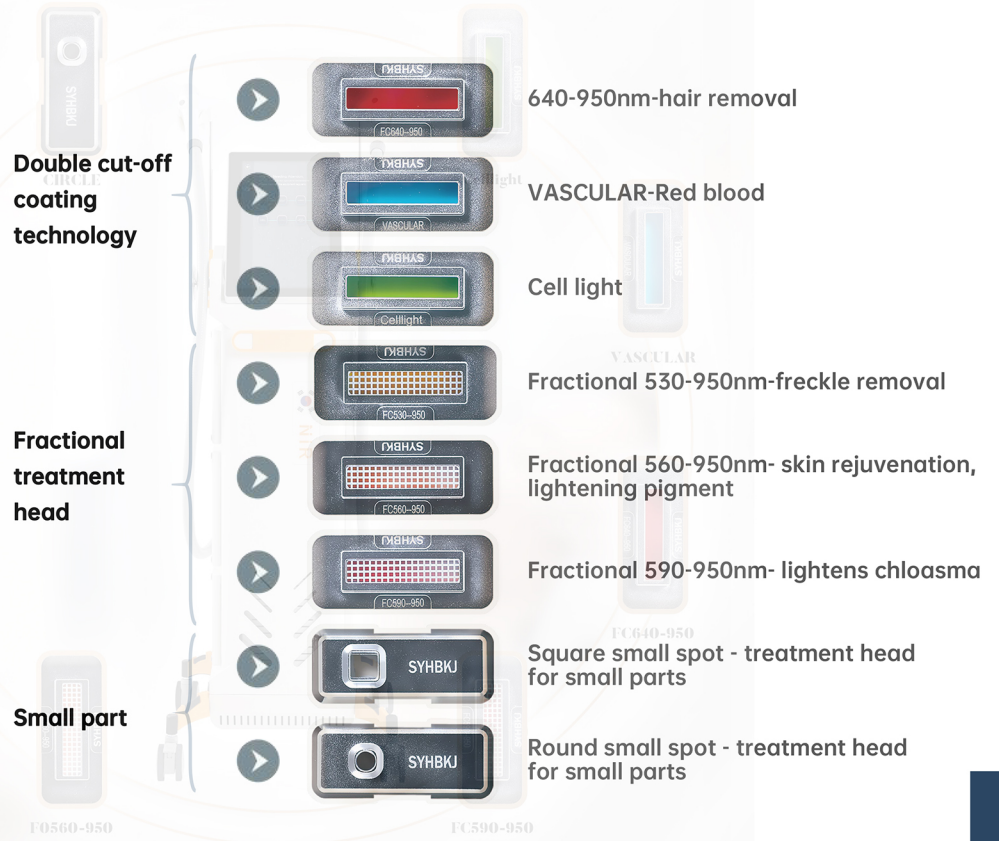
- Cell light matching precision filtering, more pure. According to different skin problems, different filters can be matched for targeted and precise treatment.
- On the basis of six bands, the cell light develops an embedded spot head, square (10x10mm) circular spot & 7mm. Point to point to solve skin spots, acne and red blood



Cell light / Wave plates function

- The clinical study of cell light practice found that the 950nm cut-off band has a narrower spectrum and more pain. Low, because there are few absorption peaks of water in the 950nm cut-off band, the absorption of water molecules is reduced, reducing. After the water evaporates, the postoperative recovery is faster, the skin is not dry, and the acne does not break out.
- Cell light, the spectral wavelength range is: 400-1200nm spectrum, covering more target tissues. Such as: multiple absorption peaks of melanin, hemoglobin, water, etc. Selective photothermal effect and cell light for precise treatment of various target tissues.
- 8 kinds of filters have been intercepted, and 2 kinds of small spot adapters have been developed for small local spots and acne enhancement operations

Wave Plate Precise Waveband



Principle of skin rejuvenation

01

Photothermal effect and photochemical effect can be produced at the same time, and photothermal effect causes partial aging and thermal coagulation of immature collagen in the dermis.

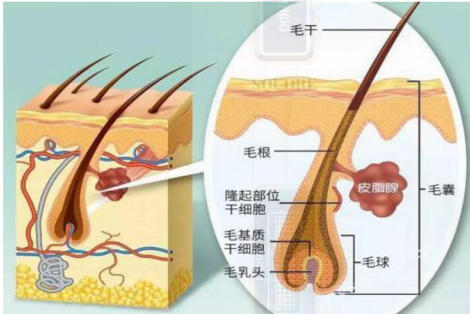
02

Thereby stimulating the activity of fibroblasts, promoting the regeneration of subcutaneous collagen, and the photochemical action rearranges the deep collagen fibers and elastic fibers.

03

And restore skin elasticity, while enhancing the function of blood vessels, enhance skin metabolism, make the skin moist, delicate and elastic, and achieve precise skin rejuvenation effect

Hair Removal Clinical-Principle



- After using the melanin in the hair shaft to selectively absorb light energy
- Convert light energy into heat
- Heat conduction through the hair shaft to the dermal papilla destroys the dermal papilla
- Capillaries in the head cause it to shrink due to heat
- Stop supplying nutrients to hair follicles
- So as to achieve the effect of hair removal

Hair removal parameter adjustment

Area	Energy (J/cm ²) 1-10	Suggested mode	Treatment times	Interval time
Lip hair	1-15	HR	6-8 times	15-20 days
Beard and whiskers	1-6	HR/SR	8-10 times	15 days
Arms/Legs	3-18	SR	3-6 times	28-30days
Hand	1-15	HR	3-6 times	28-30days
Bikini	1-6	SR	6-8 times	15 days
Back	3-20	SR	3-6 times	28-30days
Armpit	1-8	HR/SR	3-6 times	28-30days

Double cut-off coating technology

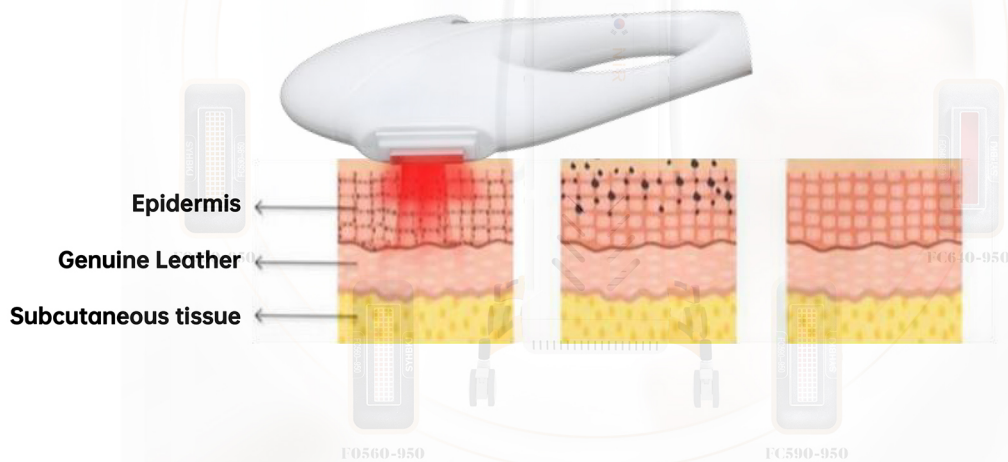
1. After finishing the skin, there will be obvious heat sensation, the hot feeling is the best, and a few parts will be reddish
2. There is heat in the skin, touch with the back of your hand and feel the heat reflected from the inside out
3. Partial red papules on the skin

After Hair Removal Care

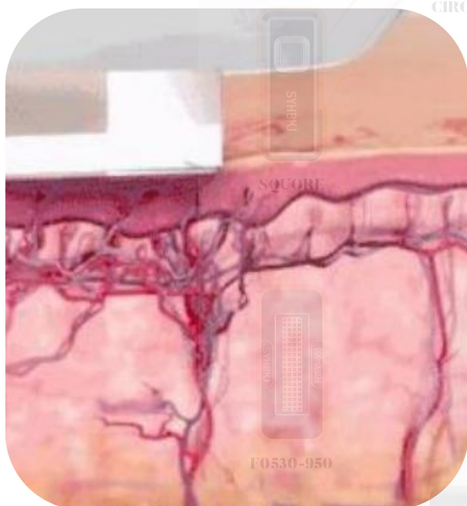
1. Immediately after surgery, if there is redness and swelling, it can be relieved by cold compress
2. Try to avoid wearing tights after surgery
3. Do not wash the operation site with overheated water for 48 hours after the operation
4. Pay attention to sun protection and moisturizing

Freckle removal clinical-principle

The intense pulsed light of a specific wavelength acts on the skin and is selectively absorbed by the melanin plaques in the diseased tissue, and the light energy is converted into heat energy. The photothermal effect causes the subcutaneous melanin to undergo thermal coagulation, the pigment color deepens and expands to surface, and then Metabolic scabs fall off and stains disappear



Red Blood Cell Clinical-Principle



After hemoglobin selectively absorbs light energy, the blood heats up and coagulates to form a thrombus to seal the expanded blood vessel, and the blood cannot pass through the diseased blood vessel.

Make it shrink due to lack of nutrition, and finally be metabolized by the body

T0560-950

FC590-950

FC640-950

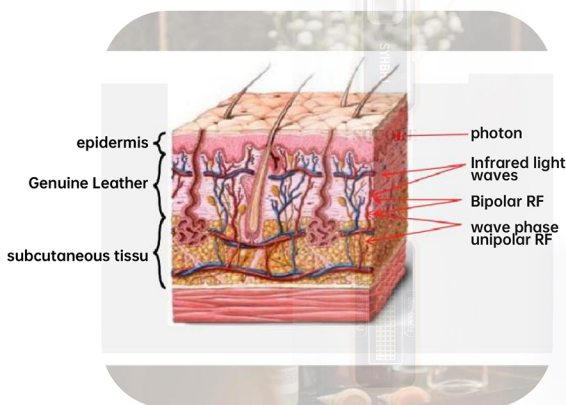
NIR handle



Principle introduction

- NIR light, using broad-spectrum near-infrared light for treatment, the wavelength range is 900-1800 nm, the peak is 1300 nm, the penetration depth is deeper than visible light, and can affect the reticular layer of the dermis.
- NIR mainly acts on water molecules and collagen, and the heat generated can stimulate the regeneration and remodeling of collagen fibers to achieve the effect of improving skin wrinkles and relaxation. Histopathological examination has also confirmed that it can increase dermal thickness and collagen content

Introduction to the principle of NIR



- **Step1: Trigger the cell energy factory - mitochondria to produce ATP**
NIR to act on the water in the middle layer of the dermis - the deep layer. When the surface of the water is illuminated by NIR, it increases the distance between each water molecule, making the liquid "more fluid". Mitochondria are powered by an enzyme bound to their cell membrane. The enzyme spins like a molecular turbine, and being surrounded by more fluid water makes it easier to spin, producing more ATP.
- **Step2: ATP promotes body cell repair and regeneration**
ATP is adenosine triphosphate, which belongs to a coenzyme and is the direct source of energy needed for all life activities of tissue cells in the body. It can promote the repair and regeneration of cells in the body, enhance the biological activity of collagen fibers, and accelerate the regeneration and repair of collagen fibers and elastic fibers. , to redistribute the dermis, repair damaged skin, improve skin texture, and become fine and smooth.
- **Step3: Photothermal effect promotes pigment metabolism and decomposition**
The photothermal effect produced by NIR NIR can enhance the function of blood vessels, dilate microvessels, accelerate blood circulation, increase blood oxygen content, and accelerate the elimination of metabolites, thereby improving the permeability of the skin. At the same time, it can accelerate the catabolism and discharge of melanin. Deposit pigment, quickly improve dark yellowish and dark complexion, so as to achieve fair and healthy beauty.

NIR indications



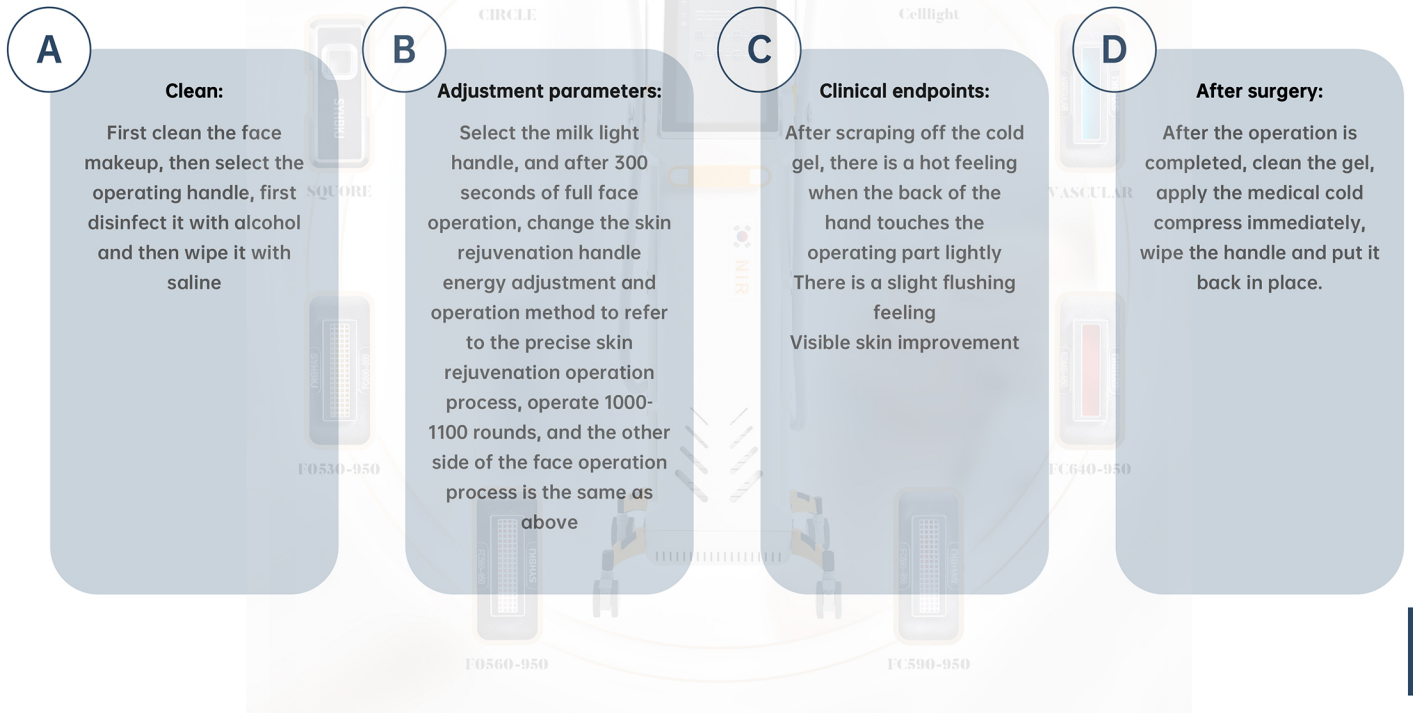
- Improve dark complexion
- It can promote the contraction of collagen fibers in the dermis of the skin, making the skin firmer and whiter. It is suitable for people with dark yellow, dark skin, etc. due to long-term ultraviolet radiation, sun protection and care. a daily maintenance
- shrink pores
- Long-term make-up can clog pores, coupled with incomplete cleaning, it is easy to make pores enlarged, NIR can promote collagen regeneration and shrink pores
- Delicate skin texture
- NIR can improve congenital rough skin and skin rough and dull skin caused by improper skin care
- Loose skin
- After the age of 25, the skin is obviously loose, and fine lines and dry lines begin to grow. NIR can make the loose and aging skin firmer

NIR light

Parameter adjustment (the following values are for reference only)

Area	Mode	Energy	Interval Time
Cheeks, lips	Slide	Star from 25	14-30days
Forehead	Slide	Star from 20	14-30days
Nose	Fixed point	Star from 20	14-30days

NIR+Cell light



Machine parameters

Pulse Width	0.1ms-9.9ms step 0.1ms
Light frequency	OPT: 1-10HZ adjustable DPL: 1-40HZ adjustable
Energy Density	1-50J/cm ² (adjustable)
Operating mode	NIR/HR/PR/SR
Screen size	Smart touch screen 15.6 inches
Input voltage	220V 50HZ
Dimension	127*64*63cm / 81KG