

# Picosecond Laser Device

Model: CL-11V2



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## Product description

The honeycomb micro-picosecond laser is a high-end laser instrument, which adopts the most advanced honeycomb laser technology in the world, and is currently the most popular instrument in the beauty market.

### Product advantages

1. It has high homogeneous light spot, uniform energy distribution, good consistency of treatment effect and safer.
2. For all exogenous and endogenous pigments, the effect is more significant
3. Short pulse width, combined with laser rods dedicated to the industrial field, higher peak power, and more thorough crushing of pigments.
4. Honeycomb light spot, relieve pain, less skin damage.
5. Intelligent water temperature control system: avoid excessive water temperature and damage to the handle.
6. Unique shape design and color matching make the product more beautiful and fashionable.

### Principle

Using the high energy emitted by the laser instantaneously, the irradiated pigment particles absorb the energy and burst instantly, some of them become smaller fragments and excreted from the body, and some are engulfed by human macrophages and excreted through the lymphatic system, thereby removing the pigment. Because normal tissue absorbs less laser light of a specific wavelength output by the instrument and will not harm normal tissue, the integrity of the cell framework is preserved, and there is no condition for scar formation. This is a treatment safety that cannot be compared anywhere else at present, so To the greatest extent, it ensures that customers will not be troubled by complications after treatment.

### Application

Clean stubborn stains

acne scar removal

Remove tattoos, whiten and rejuvenate skin

Improve skin whitening and rejuvenation

### Technical parameter

Laser type: ND:YAG solid-state laser Laser wavelength: 1064nm, 532nm, 755nm, 1320nm

Working frequency: 1--10Hz adjustable pulse width: 6ns

Screen size: 10.4 inch true color touch screen

Shell material: metal

Input power: 1200W Operation language: English

Power supply voltage: AC220V; AC110V (customizable)

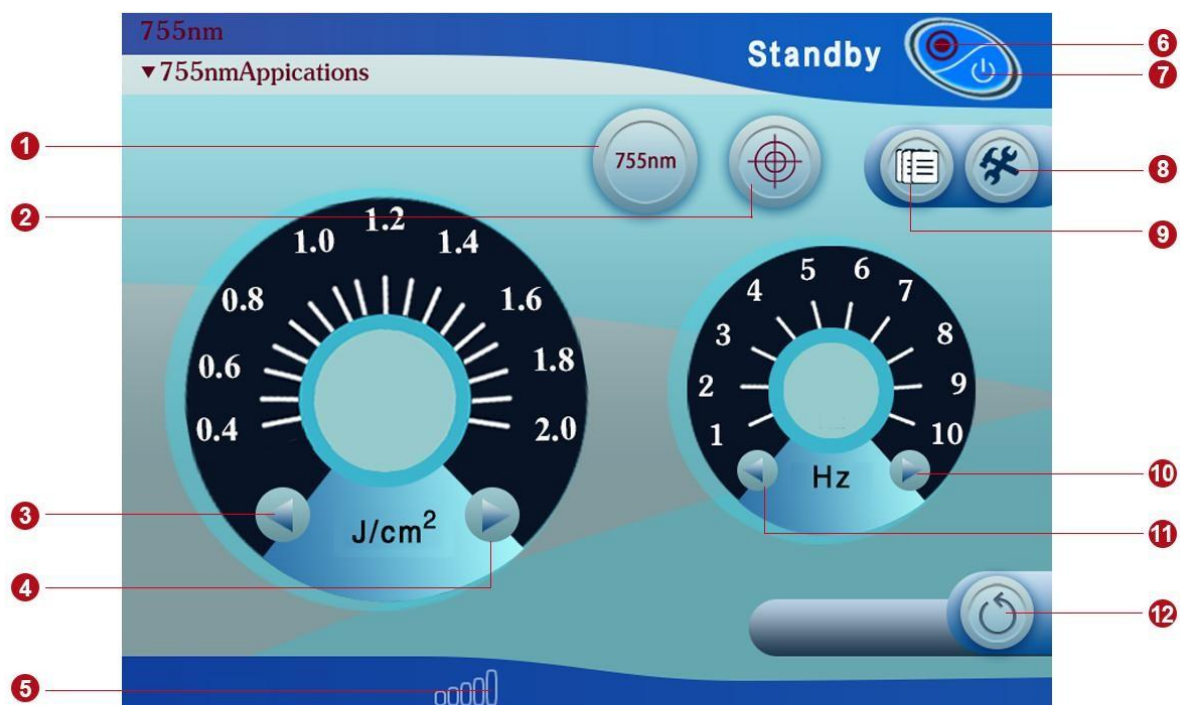
## Instrument composition

### 1. Requirements for operators

The operator of the instrument should understand the professional knowledge of the laser, and it should be used by qualified professionals after training.

### 2. Display control panel and key function

Boot into the operation interface, as shown in the figure:



1. 755, 1064, 532, 1320 wavelength selection 2. red sight adjustment 3. energy reduction

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4. Energy plus 5. red sight display 6. pause 7. prepare 8. settings

9. Engineering expansion port 10. frequency plus 11. frequency minus 12. return

### 3. Introduction of each wavelength laser probe

1064 laser head: effectively removes dark tattoos, eyebrow tattoos, lip tattoos, eyeliner, traumatic pigmentation, and freckles.

532 laser head: suitable for the treatment of red or tan tattoos, eyebrow tattoos, lip lines, and eye lines. It can effectively dilute red or tan birthmarks and various superficial spots.

755 honeycomb picosecond head: sunburn, freckles, chloasma, age spots, dry spots, dermal spots and other stubborn stains. Red and black moles, etc.

Black face baby head: skin rejuvenation and whitening, shrink pores.



## Clinical application

### Preoperative

1. The cleanser cleans the skin and removes patient jewelry. Such as: necklaces, earrings, and other reflective objects.
2. The facial cleanser is taken in a supine position. Both the doctor and the patient wear protective glasses, disinfect the patient's facial skin, adjust the energy to clean the skin according to the skin texture, skin sensitivity, skin lesion location and color depth, and remove the patient's jewelry. Such as: necklaces, earrings, and other reflective objects

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3. During the treatment, the doctor holds the output end of the laser machine and irradiates the skin surface vertically. First, the skin in front of the ear is scanned for 2-3 times, and the local reaction is observed for 3-5 minutes. The energy density gradually increases from low to high, and the skin is slightly red. for degrees. Honeycomb picosecond laser treatment operation process
  4. Then, sweep the whole face vertically and horizontally at a uniform speed, and strengthen the sweeping of the skin lesions, 2-3 times in total.
  5. Generally, the darker the skin color, the energy density decreases accordingly, and the lighter skin color increases the energy density accordingly.

### **Postoperative**

1. After picosecond laser surgery, because the skin repair process is starting, and in order to prevent recurrence and melanin deposition in the affected area, it is necessary to prevent sun exposure. When going out, you need to prepare sunshade equipment, apply sunscreen (SPF ---  $SPF \geq 30$ , PA $\geq$ ++), and avoid any form of exogenous substances irritating the wound (such as alcohol and cosmetics including alcohol). Do not squeeze or press , touch, rub the treatment surface. Avoid taking photosensitive foods (such as celery, chives, parsley, etc.) and photosensitive drugs. People with sensitive skin should avoid foods that can cause skin allergies.
2. Due to the enhanced absorption capacity of the skin and the accelerated metabolism after laser surgery, some patients may experience dry skin and lack of water, so skin care must be performed after surgery to supplement sufficient moisture and nutrition. Some patients may experience local redness and swelling after surgery, which usually disappears spontaneously within 24-72 hours without treatment. A very small number of patients may have scabs and purpura, which will fall off and disappear within 2 weeks. Please keep the wound dry and clean during this period.

### **Treatment interval**

The two treatments should be about 1-2 months apart to allow enough time for the crushed pigment particles to be absorbed.

### **The number of treatments**

In general cases, multiple treatments are required to obtain ideal results. The number of treatments for a specific patient is determined by the concentration and depth of the pigment in the affected area, the composition of the pigment, the laser dose used for each treatment, and the absorption of pigment particles by macrophages in the patient. determined by other factors. Generally, exogenous pigments should be treated more than 3 times, and endogenous pigments should be treated more than 5 times to obtain satisfactory results. In a few patients, the effect is still unsatisfactory after multiple treatments.

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## People prohibited to be treated with this device

1. For patients with darker skin, when using this instrument for treatment, due to the absorption of laser light by the superficial pigment of the skin patient, the epidermis will be slightly damaged. It is recommended to use this instrument after skin whitening.
2. After laser irradiation, the skin will appear red and swollen, subcutaneous oozing and inflammatory reaction. After the treatment, the treated area should be frozen, and an ointment to prevent burns and scars will be used.
3. For some pigments containing metal ions (such as iron ions), black chemical substances (such as ferrous oxide) that are not easily absorbed will appear after laser irradiation, which will deepen the color of the treatment site. This is due to the different composition of pigments. It is not the quality problem of the instrument itself.
4. After treatment, the treatment area should be kept clean and dry to avoid infection.
5. Boils appear after treatment, so they should fall off on their own to prevent scars from being artificially cut off.
6. It is forbidden to continuously and repeatedly irradiate the same part during the treatment, otherwise the tissue will be damaged due to heat accumulation.

## Precaution

### 1. Handling safety

- The instrument has internal memory of precision components, and users should try not to move it far away.
- Before transporting the machine, the water in the instrument must be drained, and the sealing caps of the water filling port, overflow port and water discharge port must be tightened;
- Remove the handle, and seal the two water nozzles of the main unit plug-in to prevent the residual water stains inside the instrument from flowing out and wetting the instrument;
- The shock-absorbing packaging provided by the original manufacturer must be used during transportation, otherwise it may cause the optical system to be out of tune and affect the energy output.

### 2. Electrical safety

When the instrument is running, there is high voltage. After the power is turned off, the high-voltage components may still have residual voltage. If you open the chassis at will, there is a danger of high-voltage electric shock!

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### 3. Operation safety

- Before starting the machine, it must be filled with water, otherwise the treatment tool will be burned! And use purified water or medical distilled water.
- Check the circuit and water circuit of the instrument immediately after turning it on, and observe the safety of the circuit and water circuit from time to time throughout the operation.
- Never look directly at the strong light coming from the front end of the bald handpiece.
- Reflective substances such as watches, mirrors, jewelry, etc. are prohibited in the treatment room.
- Keep the light guide system clean at all times and make sure that the cold gel does not contaminate the light guide system.

### 4. Daily maintenance

① Clean the handle probe : Clean the handle immediately after use. After the laser handle has been used for a period of time, the lens of the handle probe should be regularly checked and cleaned ; during the operation , the splash of pigment particles in the tissue splashes on the lens of the probe , which affects the light output of the instrument and easily causes the weakening of the energy light . .

② After the instrument has been used for a period of time, pure water needs to be replaced about 15-20 days ; open the water hole sealing cap, drain the water , and then inject pure water

## After sale service

1. The instrument is guaranteed for 12 months for the main unit and 3 months for the handle from the date of purchase (with the receipt) . During the warranty period, the instrument failure (non-artificial phenomenon) is repaired free of charge. Those who exceed the warranty period can also be responsible for maintenance, and charge the cost of spare parts and consumables according to the company's regulations (transportation costs are borne by the customer). If you need to add or buy, please contact our company.

2. Free maintenance and warranty services are not provided for the failures caused by the following personal reasons:

- Failures caused by unauthorized disassembly and modification of this product;
- Malfunctions caused by the use of hand tools not delivered by the company;
- Failures caused by careless use, beating, or falling;
- Malfunction due to lack of reasonable maintenance;
- Failure caused by improper use according to the instructions for use.



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## Warranty Card

product name		client's name	
Product number		contact number	
purchase date		contact address	
Maintenance date	cause of issue	Maintenance content	Repair man