2 in 1 808 Diode Laser Device

Model: AS1004



Warning

Dear valued user:

Thank you for choosing the instruments carefully designed and manufactured by our company. In order to better exert the efficacy of the products, we sincerely suggest:

- Before using the instrument, please read this manual carefully and keep it in a safe place for future reference and inquiry.
- Please install, use and operate correctly according to the requirements in the manual.
- Do not disassemble or modify any parts of the machine.
- Except for the authorized personnel of the company, it is strictly forbidden for others to open the cover and disassemble the main unit.
- It is strictly forbidden for non-professionals to carry out repairs and modifications without authorization.
- If there is any malfunction during operation, please contact us.

This product is not a medical device and should not be used for disease treatment!

Overview

808 laser comprehensive instrument is a high-end laser beauty instrument, which adopts the most advanced 808 semiconductor laser hair removal technology and YAG laser technology in the world.

Product advantages

1. Laser: The world's top vertical stack laser is used , with a long service life.
2. Efficient and stable refrigeration system : can work continuously 24 hours a day .

3. The contact sapphire cooling system is adopted , and the efficient cooling conduction efficiency makes the skin more comfortable during the treatment process.
4. Intelligent water temperature control system: avoid excessive water temperature and damage to the handle.
5. The YAG laser handle has a high homogeneous light spot, uniform energy distribution, good consistency of treatment effect and safer.

Advantages

The 808 nm semiconductor laser hair removal system uses its unique long pulse width laser to penetrate the epidermis to the hair follicle. According to the principle of selective light absorption, the energy of the laser is preferentially absorbed by the melanin in the hair, and then the hair loses its ability to regenerate. At the same time, in the process of treatment, the unique sapphire dynamic cooling technology of the system makes the epidermis anesthetized in a short time, so as to ensure that the epidermis will not be burned, and achieve a painless, fast and permanent hair removal effect.

Picocare & Picowon uses cutting edge technology to treat pigmented diseases. Through fast and powerful energy, the pigment in the skin is more finely smashed, and then the principle of lymphatic drainage is used to completely remove tattoos and pigmentation. Therefore, the treatment process is shortened from the original 10 times to 2 to 3 times, and the dermis is not damaged, the possibility of side effects is reduced, and the success rate of the operation is improved.

According to the principle of selective photothermolysis, the shorter the action time of the laser, the less likely the laser energy absorbed and accumulated in the target tissue will spread to the surrounding tissue, and the energy will be limited to the target to be treated to a certain extent, protecting the surrounding area. normal tissue, the more selective the treatment is. The pulse width of the picosecond laser is only 1% of that of the traditional Q-switched laser. Under this ultra-short pulse width, the light energy cannot be converted into heat energy, and almost no photothermal effect is produced. The photomechanical effect is blasted and torn into pieces, and the selectivity is stronger, which can make pigmented skin lesions produce stronger curative effect under shorter treatment times. In one sentence, "Picosecond lasers break down pigment particles more thoroughly, while causing less damage to surrounding tissue."
If we compare the original pigment particles to rocks, the traditional Q-switched laser can crush these rocks into the size of pebbles, and after using the picosecond laser, they can be crushed into fine sand, so that the absorption efficiency of pigment fragments is reduced. Greatly improved.

Application

1. 808 semiconductor laser
① Hair removal: Effectively remove excess hair from various parts of the human body, such as armpit hair, beard, lip hair, bun, bikini line, and limb hair .
② Skin Rejuvenation: Shrink pores and whiten skin.

2. YAG picosecond laser
① 532 laser head, suitable for the treatment of red or tan tattoos, eyebrow tattoos, lip liner, eyeliner. It can effectively lighten red or tan birthmarks and various superficial spots, etc.
② 1064 laser head can effectively remove dark tattoos, eyebrow tattoos, lip tattoos, eyeliner and

traumatic pigmentation and freckles.
③ 755 Honeycomb picosecond sunburn, freckles, chloasma, age spots, dry spots, dermal spots and other stubborn pigmentation spots. Red and black moles, etc.
④ 1320nm black face baby head , skin rejuvenation and whitening, shrink pores.

Technical parameter

808 semiconductor laser

Laser type: semiconductor laser Laser wavelength: 808nm

Working frequency: 1--10Hz Adjustable spot size: 12 × 1 5 mm

Semiconductor laser power: 300W

YAG laser

Laser power: 500W Output frequency: 1-10Hz continuously adjustable

Maximum single pulse output energy: ≥1500mJ

Laser wavelength: 1064nm, 532nm, 1320 ,

operating language: English (755nm optional)

Screen size: 10.4 inch true color touch screen Output mode: pulse output

Refrigeration system: semiconductor refrigeration + water cooling + air cooling constant temperature cooling

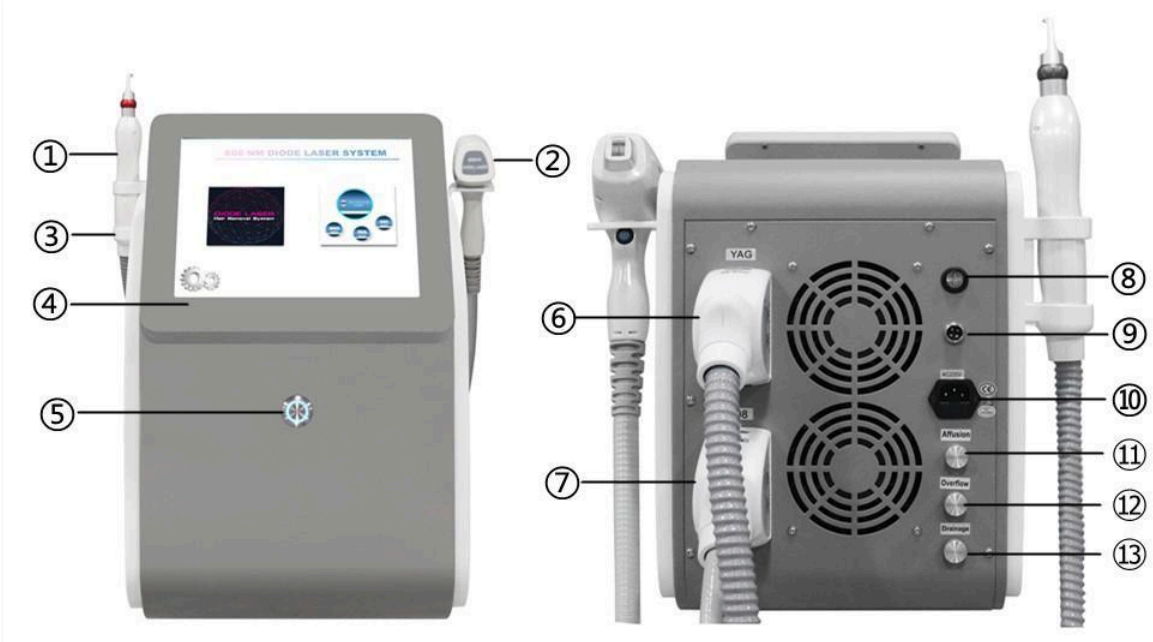
Shell material: metal

Handle temperature: -10--5 ℃

Supply voltage: AC220V; AC110V (customizable)

Output power: 1600W

Instrument display



①YAG picosecond laser handle ②808 laser handle ③Handle hanger ④Screen ⑤Instrument switch

⑥YAG picosecond laser handle socket ⑦808 laser handle socket ⑧ red sight switch ⑨ pedal jack

⑩ Power cord jack ⑪ Water inlet ⑫ Overflow outlet ⑬ Water outlet

Attachment list

1. host
2. 808 laser handle 1
3. 1 YAG laser handle
4. 2 handle brackets
5. 1 water injection funnel
6. 1 power cord
7. 1 foot switch
8. 1 manual

installation operation

1. Unbox and check

（1） Carefully remove the instrument and accessories from the box, and save the packaging material for future transport or storage. Check the attachments against the attachment list.

（2） Check for any mechanical damage.

2. Install the handle bracket and handle

（1） Install the handle bracket

（2） Attach the handle to the instrument; place the handle on the stand.

Note: When connecting the handle, make sure that the handle socket is fully tightened, otherwise it will easily cause water leakage or block water flow!

（3） The foot switch cable is inserted into the foot interface

3. Instrument water injection

(1) Take out the water injection funnel and connect it to the water injection hole on the back of the instrument;

(2) Inject pure water or distilled water; until there is water flowing out of the overflow port.

Note: Be sure to use purified or distilled water, tap water or other water is not allowed.

4. Start-up operation

(1) Connect the power cord and turn on the main switch of the instrument;

(2) Turn on the emergency stop switch and turn on the key switch.

Interface introduction

Boot interface; display options interface after booting



Click DIOOE LASER to enter the 808 operation interface

Click PICOSECOND to enter the small picosecond operation interface

Mode interface; project mode is optional, select the corresponding operation mode to enter the interface

808 Laser Operation Options Interface

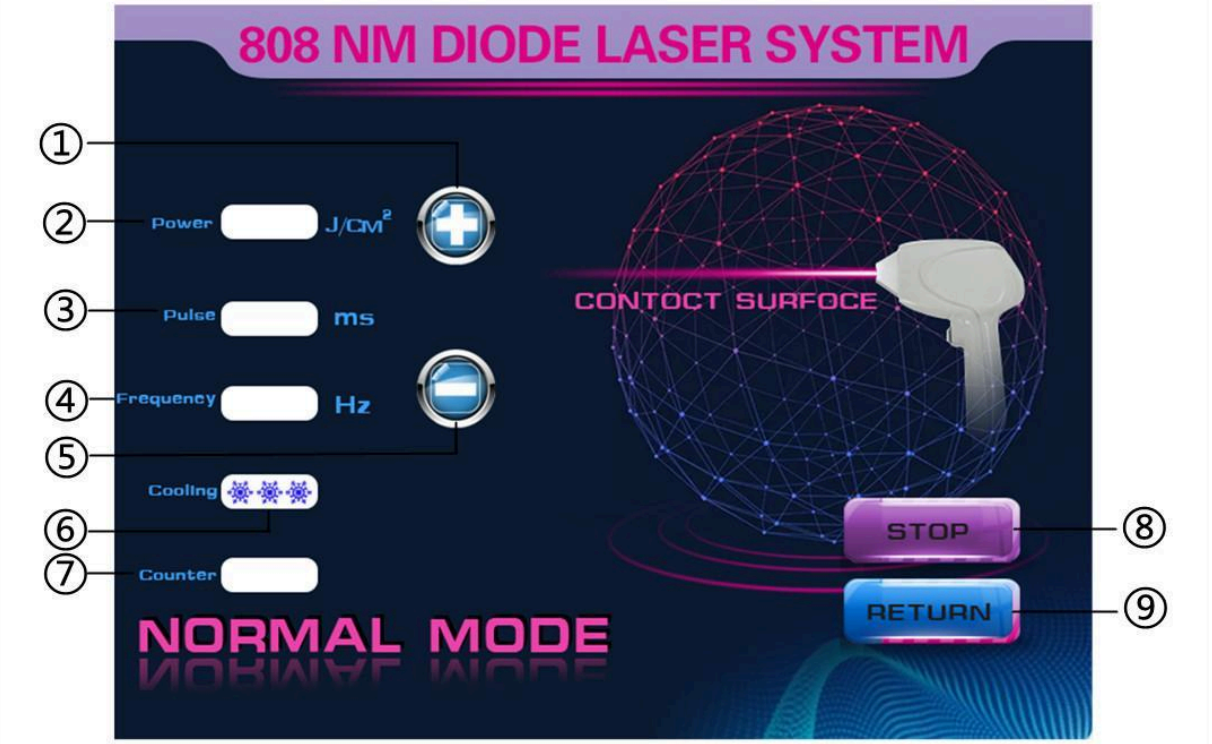


①Quick mode ②Regular mode ③Rejuvenation mode ④Return to the main interface

Enter the corresponding operation interface, as shown in the figure:



①Add energy regulation ②Energy ③Refrigeration regulation ④Accumulated times ⑤Reduce energy regulation ⑥Start ⑦Return



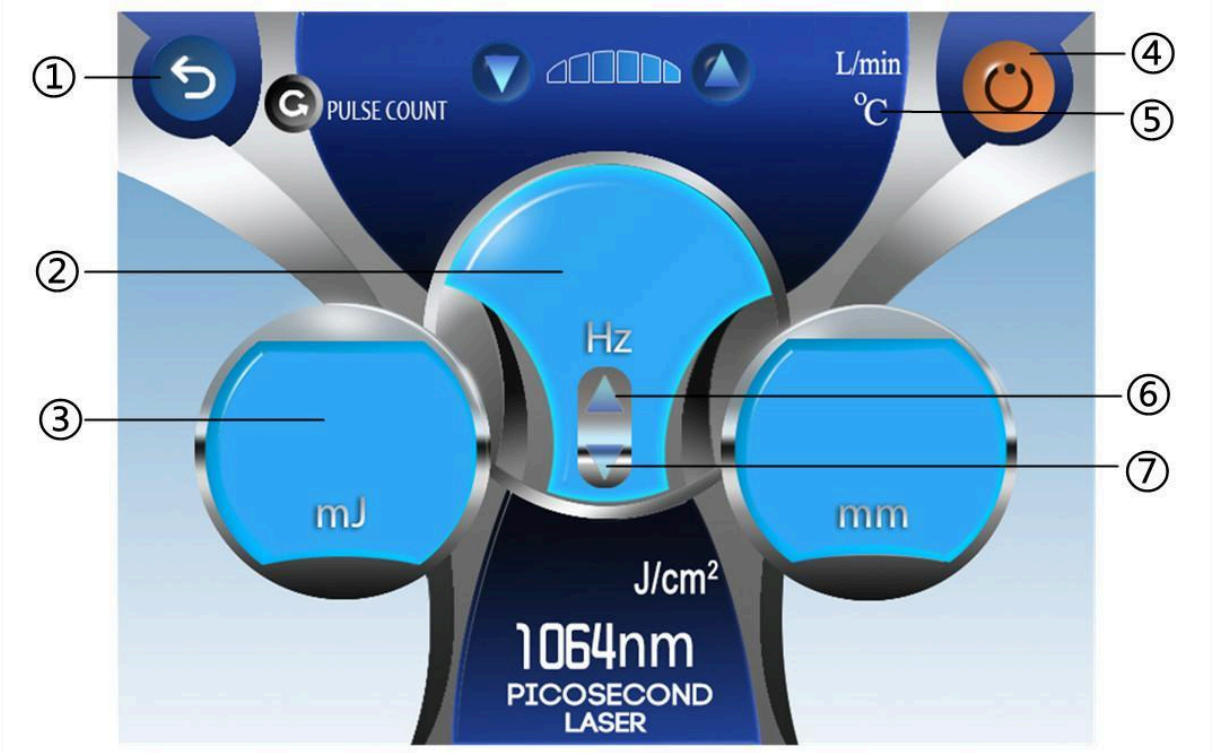
①Energy adjustment ②Energy ③Pulse delay ④Frequency ⑤Energy reduction adjustment ⑥Refrigeration adjustment⑦Accumulated times

⑧ start ⑨ return

YAG picosecond laser operation option interface



Enter the corresponding operation interface, as shown in the figure:



①Return ②Frequency ③Energy ④Start/Pause ⑤Water temperature display ⑥Energy addition adjustment ⑦Energy reduction adjustment

Instrument operation

808 laser operation steps

1. Shave

Before operation, carry out a process of shaving, leaving 1-2mm of hair to facilitate the absorption of light by the hair.

2. Apply cold gel

Apply a little cold gel on the operation part, the thickness of the coin should not be too thick, otherwise the effect will be affected.

3. Adjust treatment parameters

According to the customer's skin color, hair thickness, and hair removal site, select the corresponding treatment parameters, which should be adjusted according to the customer's feelings.

4. Operation process

① Fit the skin to avoid light leakage, and slowly slide the handle probe to operate

②Energy adjustment: Start the operation from the default energy of the system. If the operator feels that the heat is too large, reduce the energy; if there is a slight thermal expansion, it means that the melanin is absorbed by the laser with a wavelength of 808nm, and the light energy is converted into heat energy, destroying the hair follicles The melanin is the best at this time.

③Operation time: About 10-15 minutes for legs, 5-10 minutes for arms, about 5 minutes for armpits, and about 3 minutes for lip hair (for reference only, the specific time should be determined according to the changes of hair and the size of the hair removal site)), redness and bulge of hair follicles, slightly curled hair and thermal swelling of hair follicles were observed, which was the clinical end point.

1. skin cooling

After the operation is completed, use the handle probe to cool the part for 3-5 minutes at the treatment site, or cool it naturally for relief.

2. clean skin

Remove the gel and apply a hydrating product or body lotion

7. Operation precautions

① Eyes must not look directly at the strong light emitted from the front end of the laser handle.

②The handle slides slowly during operation, and should not stay in one place to continuously emit light, so as not to cause discomfort to customers.

③Treatment interval: 20-28 days apart

8. Precautions after hair removal

①Avoid hot water baths within 7 days after hair removal, and warm water is suitable.

②Avoid eating spicy, tobacco, alcohol, and stimulating foods

③ Avoid exposure to the sun, do a good job of sun protection, wipe sunscreen, sunscreen

④ Avoid hanging the hair manually after depilation. Do a treatment for hair removal

YAG laser operation steps

1. Parameters

①Select the treatment band 755-1064-532

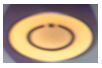
②After selecting the mode, click to  adjust the value

③Adjust the treatment energy 755 band 100mj gradually increase (up to 2000mj)

④Adjust the treatment energy 532 band 100mj gradually increase (up to 2000mj)

⑤Adjust the treatment energy 1064 band 100mj gradually increase (up to 2000mj)

⑥Adjust the treatment frequency 1-10 adjustable (maximum 10)

⑦After the parameters are adjusted, press the upper right corner of the screen  (not ready to show green)

- **Note: Footswitch is not allowed during setup**

2. Energy (mJ)

The energy adjustment value range is 100-2000mj in 1064 mode, 100-2000mj in 532 mode, 100-2000mj in 755nm adjustable

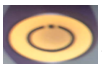
3. Wavelength conversion (return to the small picosecond operation option interface)

Click 1064nm to enter the 1064 operation wavelength interface , click 532nm to switch to the 532nm operation wavelength interface, click 755nm side to switch the 755nm operation wavelength interface (manual control switching)

4. Frequency (Hz)

The frequency adjustment can be selected from 1, 2., 10 Hz, and which option is clicked will work according to the frequency of the option.

5. Pre-combustion standby (start /pause)

Click  the key to convert, turn into a green  key and enter the working state. In this state, step on the foot switch to start working. Press again  to return  to the standby state.

All parameter adjustments can only be adjusted when the foot switch is disconnected. Any parameter adjustment operation while the pedal is depressed is not allowed.

6. Treatment

After setting the parameters, align the output port of the articulated arm with the part to be treated, control the distance between the output port of the articulated arm and the treatment part, that is, control the size of the spot diameter, and step on the foot switch for treatment.

7. Operation

①Indications _

This instrument is mainly used to clinically remove some skin exogenous and endogenous blue, blue, black and brown pigment lesions, such as: tattoos, eyebrow tattoos, freckles, butterfly spots, age spots, dermal spots (external and internal pigment residues) , skin whitening, brightening skin tone

②Treatment interval

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

③Number 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.

Instrument Maintenance Precautions

purified water or distilled water every 1 month ;

②The instrument should be placed in a clean and ventilated room with a temperature of 5--40 ℃ and a humidity of not more than 80%, avoiding direct sunlight.

③ During use, make sure that the vents of the instrument are not blocked, and there is at least a 5cm gap around the instrument.

④Do not move the instrument far away ; the water in the instrument must be drained before transportation, all water holes must be blocked tightly, and the shock-absorbing packaging provided by the original manufacturer must be used during transportation .

People prohibited to be treated with this device:

① Patients with heart disease and high blood pressure
② pregnant women, epilepsy patients
③ Hypertension and diabetes patients
④ Customers who are allergic to light
⑤ People who have been working under strong light for a long time and have recently sunburned skin
⑥Customers for short-term skin resurfacing
⑦ Customers who are taking antioxidant or hormonal drugs

Warranty

The instrument is guaranteed for 12 months from the date of purchase (with the receipt), and the fault (non-artificial phenomenon) is repaired free of charge during the warranty period . 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.

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

① Failures caused by unauthorized disassembly and modification of this product;

② Malfunctions caused by the use of hand tools not delivered by the company;

③ Failures caused by careless use, beating, or falling;

④ Malfunction due to lack of reasonable maintenance;

⑤ Failure caused by improper use according to the instructions for use.

Warranty card

product name		client's name	
Product number		contact number	
purchase date		contact address	

Maintenance date	cause of issue	Maintenance content	Repair man