









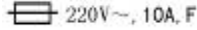
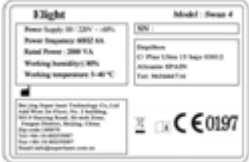
Diode Laser User Manual 808




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Product Description

Description	Illustration	Position
	Read carefully before operating manual	near scram
	High voltage danger sign, only allow professional contacts	inside the machine
	Manufacturer	Nameplate area
	Electric protection against Type: portion of the class I applications B	near the part of the application
	laser products warning	rear of the machine
	laser products warning	rear of the machine
	Chain Warning	rear of the machine
	Laser radiation area	On the handpiece
	Insurance	rear of the machine
	CE marking	product nameplate

	Electrical connection	inside the machine circuit identification
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Configuration of equipment

1.	808 laser handle/one piece	2 Laser glasses/one pair	3 Laser goggle/one pair	4 Injection bottle/one piece
5	pedal/one piece	6 Power wire/one piece	7	8

Instrument Description:

Instrument Introduction:

808 diode laser hair removal can lower energy density mode follicle is heated to 48 °C, by treatment with a low energy hand sliding for some time (at low frequencies) and growth of the hair follicle stem cells that lost growth activity , so as to achieve permanent hair removal purposes.

How it works:

Semiconductor freezing hair removal apparatus having a wavelength of 808nm , the wavelength can effectively reach the target depth of penetration of the target tissue (hair papilla) , the appropriate pulse duration sufficient protection of the target tissue and the surrounding tissue thermal damage is hardly affected ; amount of energy density protection provided in the appropriate period of time sufficiently strong enough to damage the energy output target tissue and normal tissue is almost unaffected ; appropriate protective measures to protect the skin enough to damage the target tissue , and skin almost unaffected , thereby protecting the safety of the treatment

Features and Benefits Work

1) High-speed hair removal to reduce the pain of frozen environment truly minimally

invasive

2) Center Wavelength 808nm dermal papilla higher efficiency than other hair removal hair removal device acts directly through the skin

3) the use of 1800W features 500W power supply with high efficiency high-frequency semiconductor laser light handle rapid treatment

4) the use of the press to ensure that the condenser cooling thermostat handle without intermittent work , more suitable for professional medical establishments use

5) can handle sliding technology features a smooth continuous uninterrupted operation of hair removal without moving from the site of action

Precautions

Handling Precautions

1 before any operation to clean the hair area

(2) When operating on a cold gel applied first

3 After the operation attention to the sun

Postoperative Considerations

Diet note

Maintain daily diet , do not need special food supplements .

Make-up skin care products

1 Avoid using hot water to clean the face, and with a mild detergent.

2 . Choice of appropriate moisturizer , sunscreen lotion to care .

3 can enhance the use of moisturizing essence , such as hyaluronic acid, and promote

skin repair B5

4 of the best short-term three to five days to avoid irritating skin care products .

Lifestyle

1 Do three to five days to hot places , such as sauna, hot springs , the sun, to avoid skin irritation.

2 lifestyle to the law , do not stay up late , avoid smoking and drinking.

Maintenance and repair

1 , inside the instrument before each turn to ensure adequate cooling water.

2 , the handle must be confirmed adequate internal water flow (Note : the handle into the ear side) after turning the key switch in order to carry out the next step.

3 , if the water is not circulating , repeatedly boot times (Note : The key switch repeatedly boot , not according to the work key) and lower the handle held high , repeated several times until the water until the full cycle .

4, after changing the water , if the water is not circulating properly , please refer to Section 3 .

5, in the normal use of the instrument, please completely replaced every 7-10 days with distilled water .

6, the operating handle is attached to the shell of the product precision , crumbly laser devices, placement and when to use to prevent fall.

Malfunction and Solution

Malfunction	reason	Solution
No power	1) fuse burn-out 2) emergency button is off 3) the key is unopen	1) change the fuse 2) turn the emergency button 3) turn the power supply
The handle is not cooling	1) cooling power is broken 2) core plug contact is not good 3) semi-conductor cooling is broken 4) handle with air, the water isn't cycle	Contact the seller
Leak water in handle	1) the screw is loose in handle 2) pipe shed in handle 3) lamp or crystal is broken	Strike the handle and contact seller
The light is not light	1) the handle is broken 2) the controller is broken 3) power is broken	Contact the seller
there is no light shot out	1) handle swithch is not contact good 2) wrong operation 3) cotroller broken	Contact the seller

	4) power broken 5)the light is too long use, need to change	
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Technical parameters

Type of laser	Continuous semiconductor laser
wavelength	808nm
Output	pulse
Pulse width	10-350ms
Export size	12mm X 10mm
Handle cooling system	semiconductor cooling
Frequency	20HZ
Energy density	40-100J/cm ³
Cooling	0-4°
Input power	110/220VAC,16A max,50/60Hz
Dimension	770mm*540mm*970mm
Net weight	70kg
Safety	

Note:

Please read the manual and the learn the operation steps.

Operation according to the required:

Learn the operation steps,

Have the right control procedures and understand the warning signs.

Understand the accident report.

Understand the laser damage of biological response.

The machine is in the condition of power off when no operation. After operation, remove the key, and keep it in place, forbidden others to use it except operator.

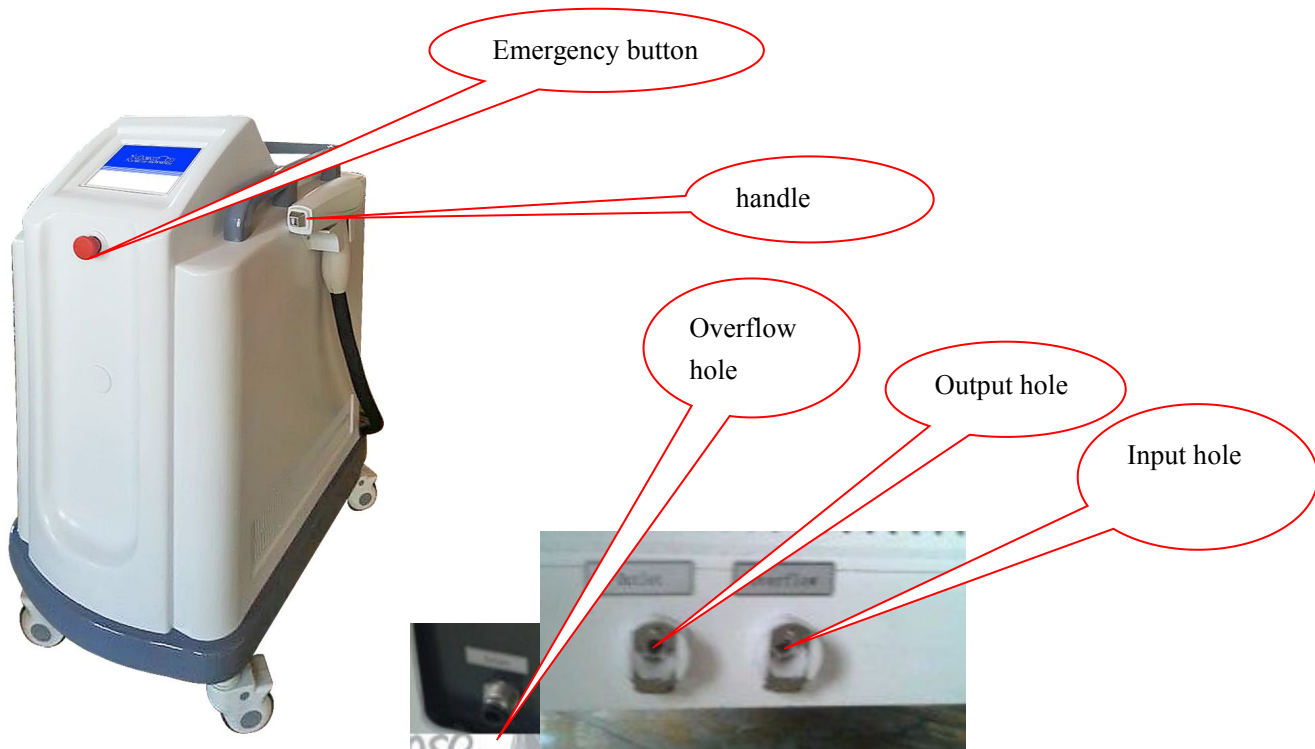
Don't work in a flammable objects environment

Keep the machine clean, clean the machine properly before operation

Make sure it dry before operation if you clean with alcohol.

Install

connect and prepare



Insert one cpc in overflow hole when watering

Install steps:

- Open the packaging
- Check the machine and parts are OK.
- Watering the pure water or distilled water
- Connect the pedal
- Install the handle correctly
- Insert the key
- Install the power line
- Check all the connections, make sure all is ture.

The requirement of environment

- Input voltage: 230V~,50Hz,/ 110V,60Hz
- Don't work in a flammable objects environment

- Metal dust can damage the electrical components, dust particles absorb light and heat. Therefore, the particles of dust should be reduced to a minimum
- The temperature in room should be 20°C-25°C (68°F-77°F), and the corresponding humidity can't be less than 80%.



Please don't put water in the machine when temperature less than 2°C (35°F).

Menu selection



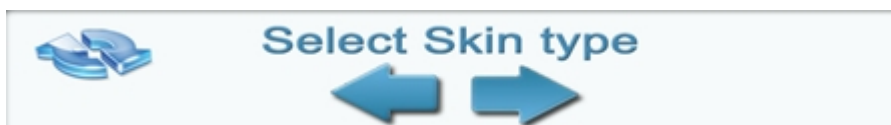
Opening interface

- skin selection interface: six skin types



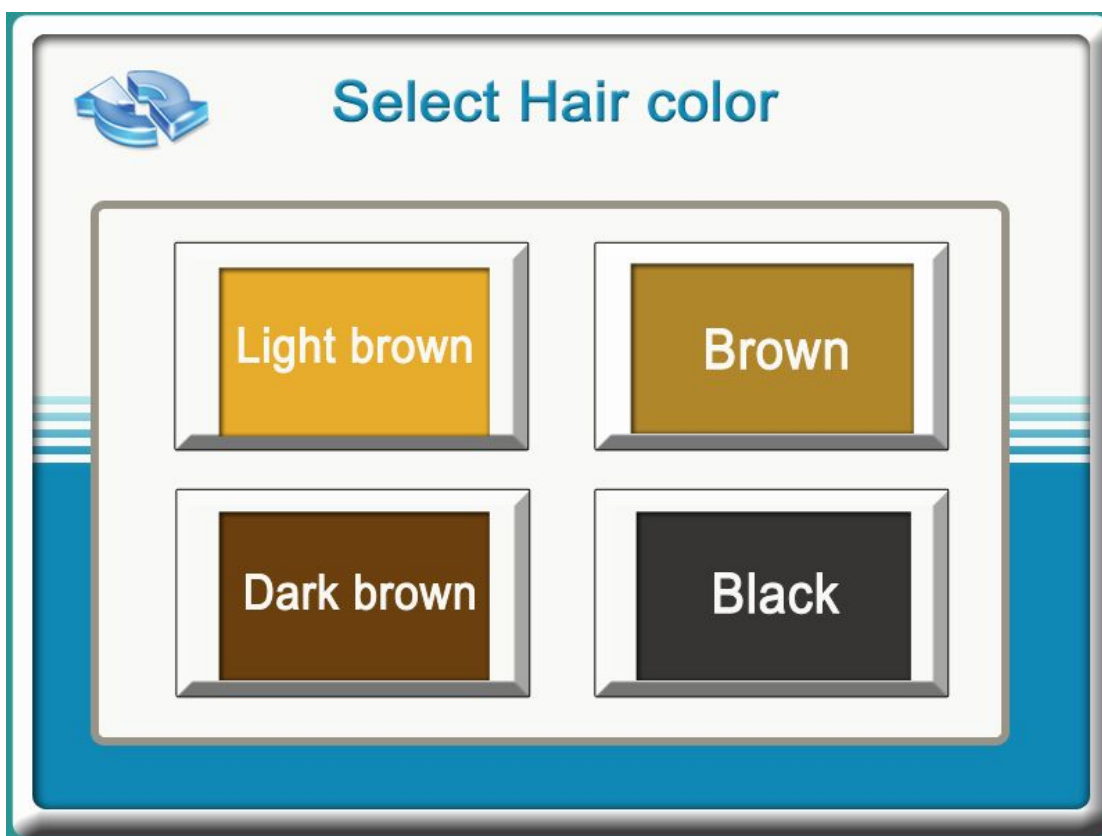
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Button definition

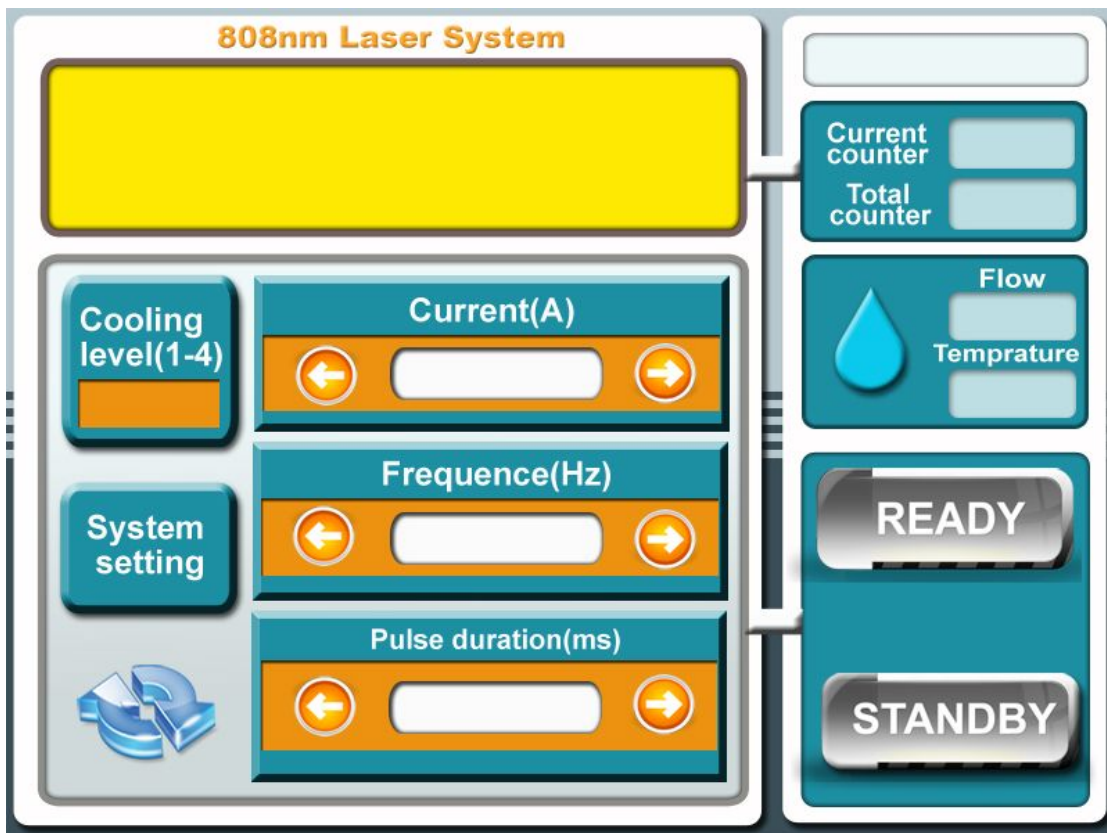


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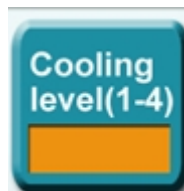
Select the hair color



Working interface



- Cooling level: adjust cooling, intensity 1-4



Click "cooling level" button:

Select cooling intensity 1, 2, 3 or 4, then press OK; press "ESCAPE" to return cooling level



- Current: output energy (40–100)
- Frequency: (1Hz–10Hz)
 - ◆ 1Hz, pulse width (20ms–350ms)
 - ◆ 2Hz, pulse width (20ms–160ms)
 - ◆ 3Hz–10Hz pulse width fixed 40ms
- Pulse duration:
- Counter display:



- Flow and temperature display



- Work and standby button



- ◆ Press "READY" display



- ◆ Press "STANDBY" display



- ◆ Press "READY", then step the pedal can shot light

- Alarm display:

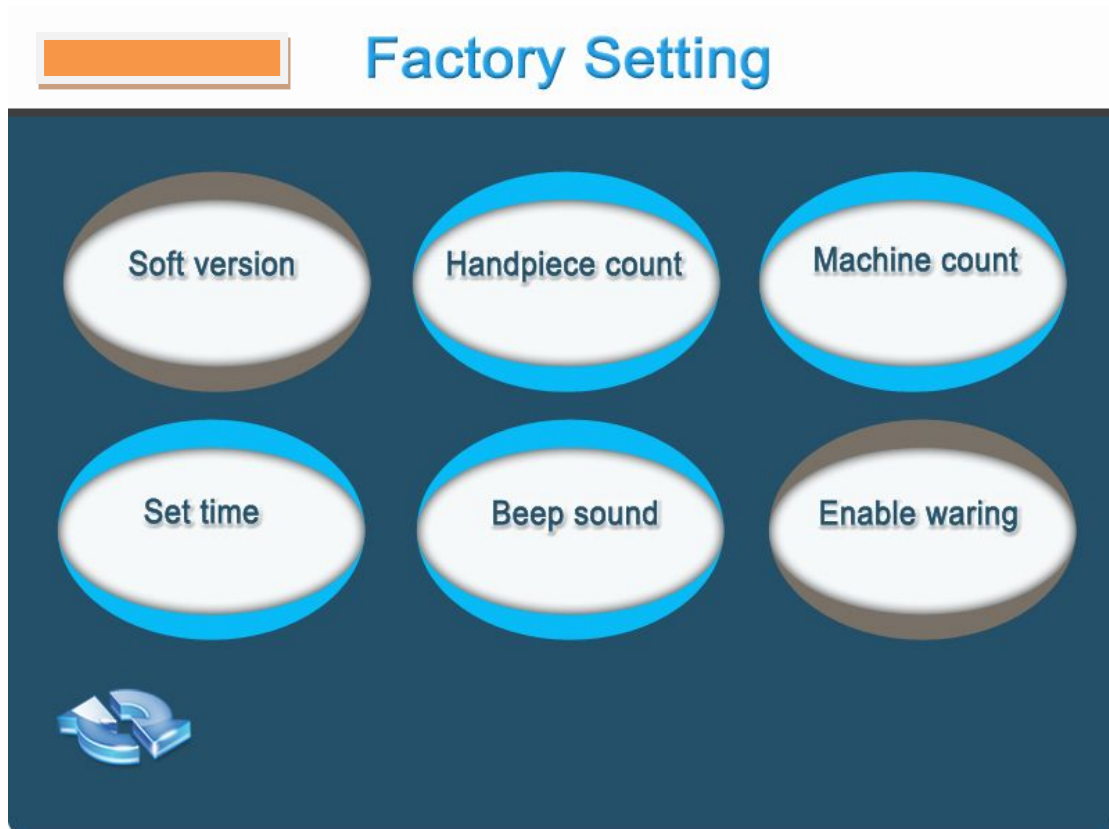


According to the following content in the tooltip:

- ◆ system standby
- ◆ Replace handpiece
- ◆ System ready
- ◆ Release foot switch!
- ◆ No handpiece!
- ◆ water flow!
- ◆ water temp! Temperater too high than 31 °

5. System setting interface:

Press "System setting": can check the soft version, ID No., handpiece count, machien count, time



Attention

Who is forbidden:

- Malignant or pathological changes of pigment
- Photosensitive skin
- People who are pregnant
- The use of the coagulability drugs
- Scar constitution
- Bacterial infectious diseases
- The immune system defects
- Scleroderma
- Diabetes

Pay attention:

Treatment of orbital area, please use the eyelid board in order to protect the eyeball. Surface anesthesia using the 0.5% tetracaine lubrication eyelid board to avoid corneal infection. Physicians and assistant should wear protective goggles. Please do not wear a reflective decoration, such as: watches, necklace, bracelet, etc. Therapy should have warning labels, and banned from entering.

Choose the right treatment parameters is very necessary for successful treatment.

In general, setting parameters from the lower to high for treatment, gradually increase the energy in order to avoid side effects. Treatment of pale light aging skin, parameter selection and treatment of scar is similar, you can reference the skin type of Patrick grading.

I - Burns, no sun (pale skin)

II – Easy to burn, minimum insolation (white)

III - Moderate burns, equal insolation (light brown skin)

IV –Minimum burns, insolation good (medium brown)

V – Not easy to burn, easy sun (dark brown skin)

VI –No burns (dark)

In addition, the lighter of the skin, the greater of the energy.

After treatment:

You can cold but notice for the treatment area.

You'd better avoid the sunlight within two weeks.

After treatment, the skin may become red or erythema, these symptoms will disappear within six months.

Blisters or skin lesions may appear after the treatment, can use antibiotic treatment or burn cream.

Two weeks after treatment, suggest using two to four weeks benzodiazepines (2-5%) and hydrocortisone cream (1%).

For patients with skin type III or IV, two to four weeks after treatment may occur pigmentation, but three months can disappear.

Daily maintenance

Clean machine

Cleaning the machine once a week, or to wipe the surface of the machine. Pay attention to avoid the liquid into the machine.

Disinfect the USES tools such as handle, protective goggles etc. every time before and after treatment. When disinfect the machine, you can use 70% of medical alcohol or related disinfection method.