

# Diode Laser Hair Removal Machine

DIOLASHEER ICE 1600S

## USER MANUAL



## **Warning**

Dear user:

Thanks for using our company's products, in order to fully make use of the products,

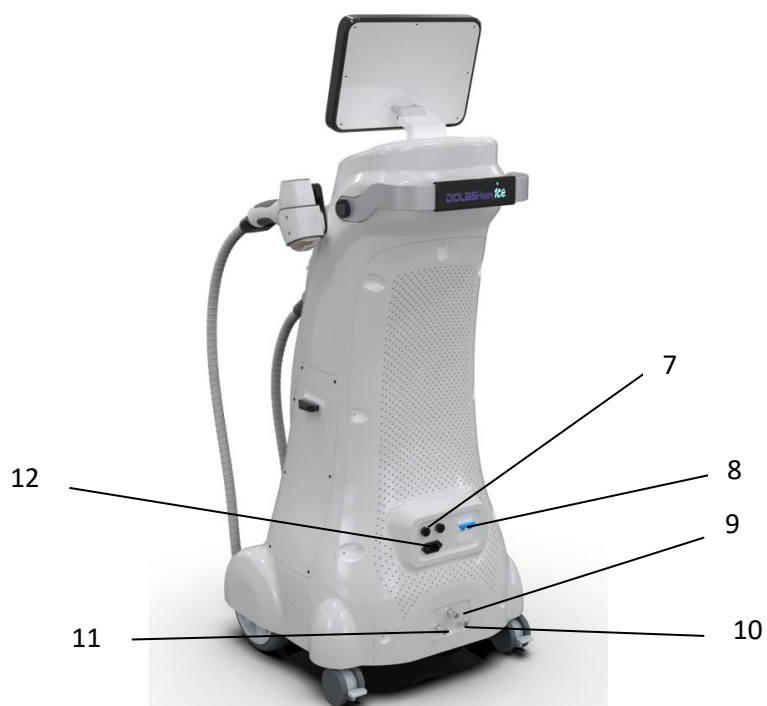
Our sincere suggestions as below:

- ◆◆ Please contact us if there is any trouble during operation.
- ◆◆ Please follow the instruction to fit and operate the machine correctly.
- ◆◆ It forbids others to open and remove the mainframe except the authorized people in the company.
- ◆◆ Please read the instruction in detail and keep it well for further reading and consulting.
- ◆◆ It forbids others to change and maintain the machine except the professional people.
- ◆◆ Please do not remove and change any accessories of the machine.

## Machine introduction



- 1 touch screen
- 2 handpiece
- 3 key switch
- 4 emergency stop button
- 5 handle support frame
- 6 filter cover
- 7 fuse
- 8 Leakage protection
- 9 water inlet
- 10 vent
- 11 water outfall
- 12 power connector



## Operation environment

1. Ambient temperature: 10~30°C;
2. Relative humidity:  $\leq 75\%$ ;
3. Atmospheric pressure: 860~1060hpa;

## Electrical safety

In order to ensure use safety, the instrument implements the national Standards GB9706.1-2007. The operating system's rated voltage is 220V with maximum input current is 10A or 110V with maximum input current is 15A. This machine is equipped with automatic leakage protection, when leakage occurs, the machine will be automatically power off to protect the system.

## Transportation

This machine is a precision instrument, and the whole machine does not allow users to move and use at a long distance. Because this machine is modular in design, the whole machine must be disassembled during transportation, and the main unit and handle must be packed and transported separately. The shock-absorbing packaging provided by the original manufacturer must be used during transportation. Please empty the water from the water tank before transportation.

## Accessories list



1. handle holder	9. screen
2. funnel	10. filter
3. laser glasses	11. fuse
4. power cable	12. keys
5. goggle	13. rubber rings
6. handle support	14. screws
7. exhaust pipe	15. handle
8. hex screwdriver	16. handle

## Installation process

**After the machine is transported to the place of use, please take the machine out of the box first, and then install it after standing still for 24 hours in a normal room temperature environment.**

### Step 1 Install the handle holder



Find the handle support, handle holder, screws and screwdriver in the accessories bag and install them on the machine as the photo shows below



### Step 2 Install the screen

Insert the female connector on the back of the screen into the male connector on the top of the machine, and screw it to make it tight.



### Step 3 Install the handles



Take out the handle, and align the connector of the handle plug to the machine connector, tighten the knob in the direction indicated by the arrow.

**Step 4 Add water**



1. Unscrew the water inlet



2. Unscrew the vent



3. Connect the funnel to water inlet



4. Add distilled water or pure water



5. Keep adding water until water come out from vent



6. Screw the vent and water inlet

## Step 5 Install power cable



1.Plug in the power cable and fasten it as the picture shows

**OFF**



**ON**



2.Switch on the leakage protector



3.Release the red emergency stop button, insert the key and switch it to turn on the machine



## Operation interface

### Interface of main screen




After turning on the machine, you will see the following operation interfaces.

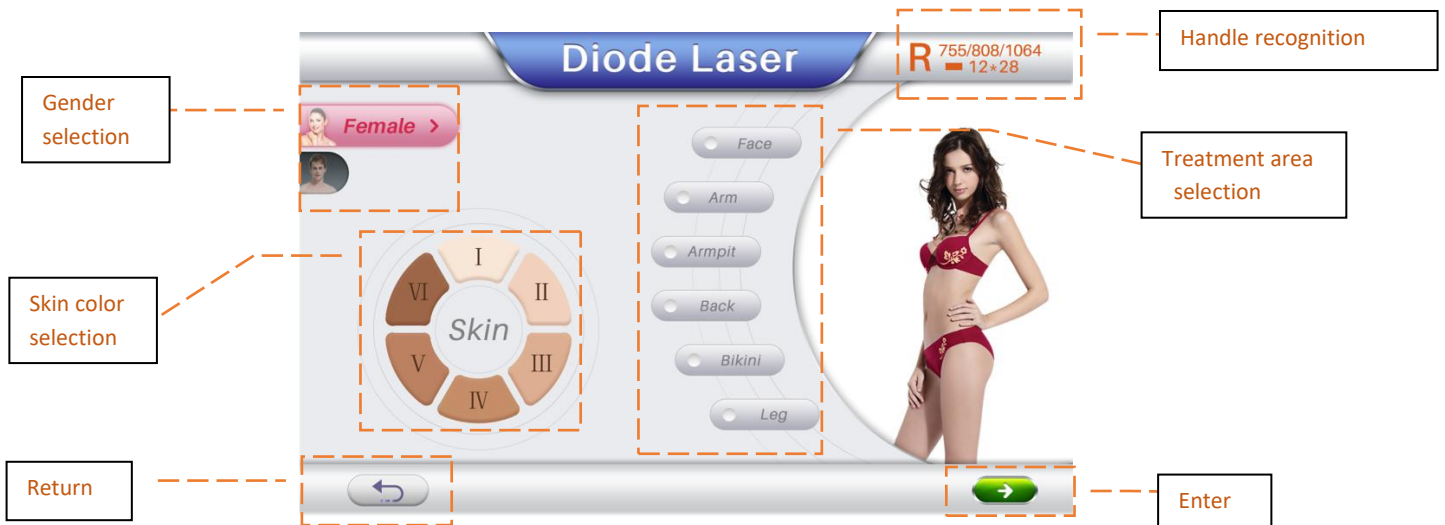


Pic 1




Pic 2

Click the  button of welcome interface (Pic1) to enter the handle selection interface (pic2), Select the handle you need to use, click  or  to enter the next interface.

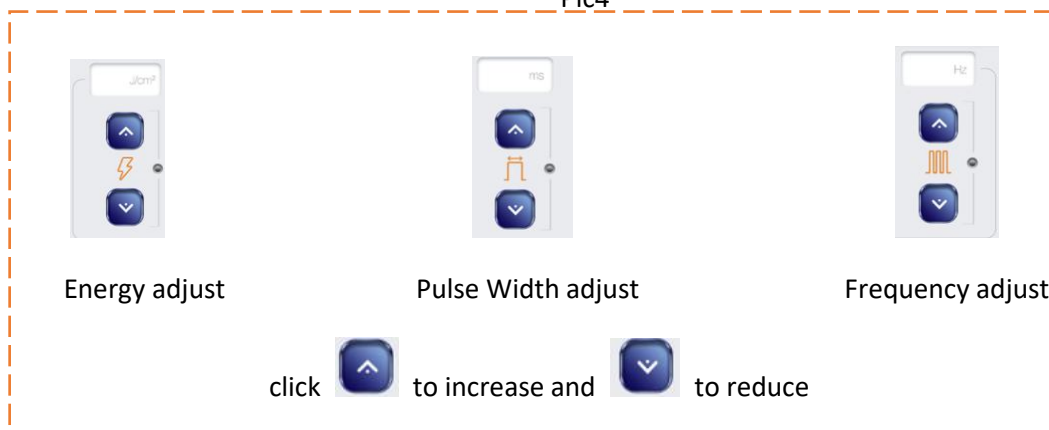


Pic3

Select gender, skin color and treatment area, click  to enter the operation interface.



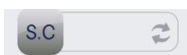
Pic4



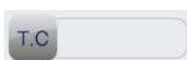
Water flow display: monitor the water flow speed of the machine to ensure the normal operation of the water circulation system.



Water temperature display: real-time monitoring of the water temperature in the water tank to ensure that the machine works at normal water temperature.



Single count: record the number of times of laser emitted by a single treatment handle.



Total count: Record the total number of laser emitted by the handle.




Handle refrigeration intensity adjustment.



Save the current treatment parameters, the next treatment will automatically use the current treatment parameters.

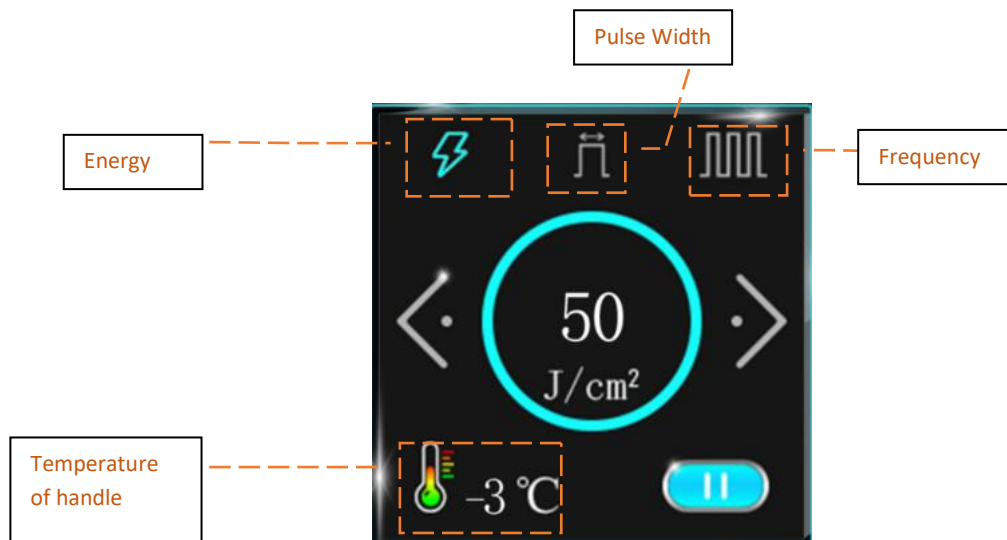


Restore factory setting parameters

After the setting of all treatment parameters, click  to be ready for treatment.

## Interface of handle

For the convenience of users, our machine is specially equipped with a tough screen on the handle, the treatment parameters can be adjusted by the screen on the handle.



## Treatment steps

### Step 1





Before treatment, ask the client whether he/she has been exposed to the sun within two weeks and whether he/she has done other types of hair removal projects.

### Step 2 Remove hair from the treatment area



### Step 3 Treatment Parameter Setting



Turn on the machine, select the corresponding skin color and treatment area. After the parameters are set, click the work button (  →  ) to turning on the cooling system of the handle. (Notice: Turning on the cooling system of the handle in advance can make the handle surface temperature reach a low temperature before treatment to ensure the comfort of treatment.)

**Step 4 Apply cold gel (ultrasound gel) to the treatment area**



The thickness of the cold gel is about 1mm to ensure that the handle slides normally on the skin surface. Too much cold gel may affect the treatment result.

**Step 5 Wear laser glasses and goggle**



**Step 6 Start treatment**



During the treatment process, the handle should be kept close to the skin at 90° at all times, and there should be no gaps to avoid burns to the skin. The handle should be kept sliding at a constant speed, and the sliding speed of the handle should be controlled according to the selected frequency (Hz).

The therapist should keep asking the feeling of the client and adjust the energy, pulse width and frequency according to the actual feeling of the client. It is normal if the client feel warm , slight burning or slight pain.

### **Step 8**

Clean the treatment area after the treatment, and observe whether there is any abnormal reaction on the skin of the client. Then cold compress the treatment area.

### **Step 9**

Wipe the probe to make it clean and put it back . Record the current use parameters and turn off the machine.

## **Precautions after treatment**

- 1 Please do not take a hot bath on the day of treatment, you can wipe your body gently with warm water
- 2 Do not soak in hot springs and have a sauna within one week after treatment
- 3 Do not massage the treatment area vigorously within one week after treatment
- 4 Maintain the daily drinking volume of more than 3 liters to accelerate metabolism and promote fat excretion
- 5 No need to diet, maintain a normal diet, eat more vegetables and protein, and do not overeating
- 6 Appropriate exercise can accelerate fat excretion, promote therapeutic effects, and it is beneficial to health

## **Indications**

Hair removal and skin rejuvenation

## **Contraindications**

1. People with heart disease or high blood pressure, or configured cardiac pacemaker.
2. Patients with acute inflammation, kidney disease, asthma, deep vein thrombosis, thyroid cancer and cancer.
3. People with hemorrhagic disease, trauma or who is bleeding.
4. Pregnant women and children.
5. Patient with skin inflammation or edema.
6. People with an abnormal immune system.
7. People who have recently taken photosensitivity drugs and those who are allergic to light.
8. People who recently used hair removal cream, wax paper and other hair removal methods, should do laser hair removal treatment after one month.

## **Maintenance & Troubleshooting**

### **Maintenance**

1. After each treatment, please wipe the treatment handle with alcohol in time to clean up the cold gel and other stains remaining on the handle
2. In order to ensure the service life of the machine, please change the water for the machine once a month. Please use distilled or purified water. Do not use mineral water or tap water to avoid damage to the machine.
3. Please replace the filters every 3 months
4. If the machine is left unused for a long time, please turn it on and run it twice a week, not less than ten minutes each time, and change the water once a month to ensure the normal operation of the machine.

### **Troubleshooting**

#### **1. The machine cannot be turned on**

Please confirm again whether the keys of the machine and the emergency stop switch are both turned on



Please check if the power line of the machine is properly connected



Please check whether the leakage protector is in the ON state

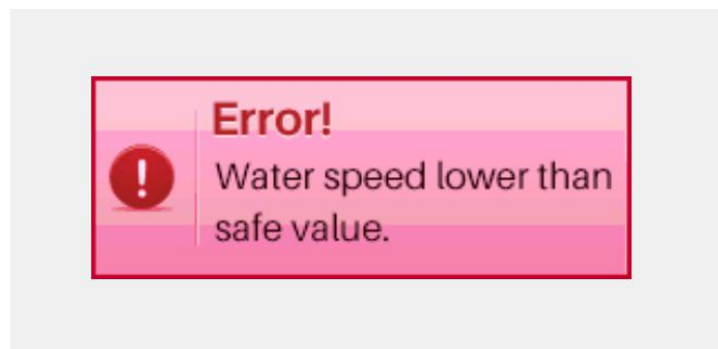


Please check whether the fuse of the machine is burned out, if it is, please find a spare fuse in the ingredient package and replace it





## 2. Water flow is too low



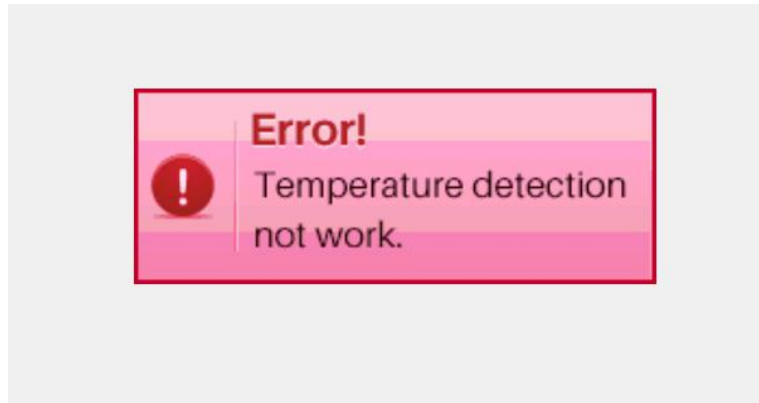
Please check if the water tank is full. If the water tank is not full, please fill it up. If the water tank is full of water, please open the water pump vent at the rear of the machine, turn the machine on, let the water flow out for 3 seconds, and then close the water pump vent

## 3. The handle is not installed well or the handle is loose



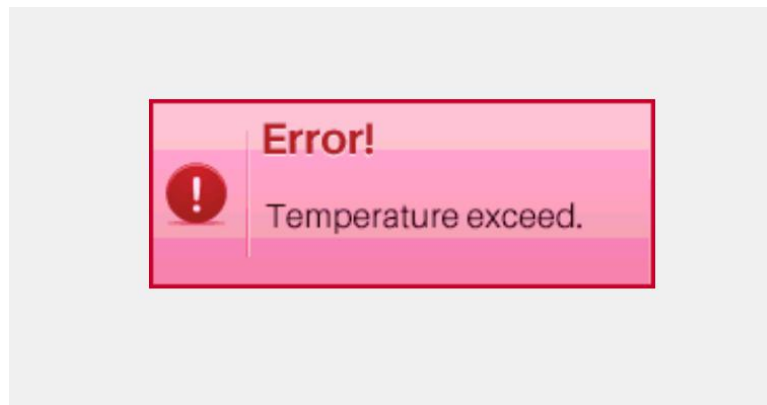
Please check if the handle is plugged in

## 4. Handle recognition error



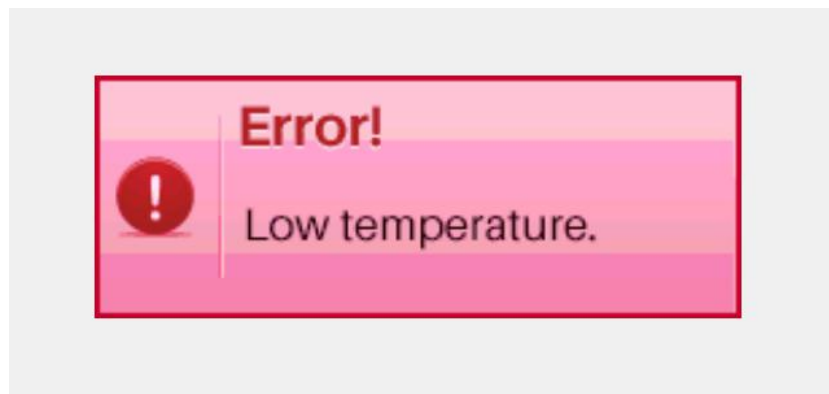
Please contact our engineer to check whether the connection of temperature control sensor is normal

#### **5. Water temperature is too high**



Please make sure that the temperature in the treatment room is below 25 degrees Celsius. If the temperature in the treatment room is too high, please wait for the room temperature to drop before using the machine. If you are in a hurry, you can add cold water to the water tank

#### **6. Water temperature is too low**



Please make sure that the temperature in the treatment room is higher than 16 degrees Celsius. If the temperature in the treatment room is too low, please wait for the room temperature to rise before using the machine. If you are in a hurry, add warm water to the water tank

If your problem cannot be solved by the above methods or you still encounter other problems, please contact our after-sales engineers or sales personnel in time, please do not disassemble the machine by yourself.