

User Manual

Diode laser hair removal system

Model No.: Artemis600S

Please read the user manual before use.



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Chapter 1. Safety

It shows the safety considerations when using the Artemis 600S diode laser hair removal system in this Chapter, especially the safety for the optical and electrical system.



Warning

It may cause personal injury if not adjust or use the machine as required by this manual. So both the operators and the technicians who use this machine must be familiar with the safety requirements and

1.1 Introduction

The Artemis 600S diode laser hair removal system is a precise laser medical system, which is suitable for aesthetic medical applications for hair reduction treatment. There are strict safety inspections for the machines before leaving the factory, it will not cause safety problems if follow the instructions. In order to protect the operators or patients from being hurt by the laser radiation, please read this instruction carefully, and the related operators should have professional training for laser medical devices.

It is class 4 laser device for the Artemis 600S diode laser machine.

The class 4 laser is high power laser, during usage, please pay more attention in case of danger. Avoid any flammable items close to the laser beam absolutely.

1.2 Brief introduction

Safety is one of the main concerns of product design that should also be alert on. Please find partial safety instructions and precautions as follows:

- ◆ The laser beam only emits from the front face of the sapphire wafer, and the energy is conducted to the skin and hair through enclosed sapphire wafer.
- ◆ The independent safety circuit will power off automatically when there is much energy.
- ◆ The Emergency Off button can cut off the power instantly
- ◆ The key cylinder switch can abstain from misuse.

1.2.1 Eye Protection

Warnings

Do not observe the laser beam or the reflected beam directly, otherwise irreversible damage may be caused to the retina.

Nominal Ocular Hazard Distance (N.O.H.D.)

This is the distance from the source at which the intensity or the energy per surface unit becomes lower than the Maximum Permissible Exposure (M.P.E.) on the cornea and on the skin. The laser beam can thus be considered as dangerous if the operator is closer from the source than the N.O.H.D. And the N.O.H.D of Artemis 600S is 4.57m.

When looking at the beam with an optical system, one has to consider the possible higher intensity entering the eye, and thus to expand the evaluated N.O.H.D.

The place to store the safety glasses should be marked with striking signs, ensuring all the personnel to put it on before powered on.

Artemis 600S is equipped with safety glasses with proper wavelength.

1.2.2 Patient Protection

The safety of the patient mainly lies on a practiced beautician and a proper office treatment. The patient should also have knowledge of the basic principles.

The patient should wear the protective glasses and know the precautions.

1.2.3 Operator Protection

The operator should read this manual carefully and receive the training of Wuhan Lotuxs Technology, Co., Ltd. The operator should also know the correct operation and the possible risks.

1.2.4 Treatment room Requirements

There should be clear warning signs in the office.

When class 4 laser machine works, there should be warning signs on each entrance of the office.

- ◆ There should be laser safety warnings signs on each door with the wavelength
- ◆ There should be warning light on the entrance. When the machine starts, the light is on.
- ◆ Ensure there is no highly reflective material in the office, otherwise the radiations will do harm to the body.

1.3 Main Warnings

Artemis 600S can only be operated when the system inspection is done and no alarm generated. Please carefully read the following warnings

Attention !

◆ **Laser beam radiation through window should be avoided when device is in use.**

◆ **Do not open the cover to adjust or repair the system by yourself. Only the authorized person by Lotuxs could do so.**

◆ **To make sure that rated voltage of Artemis 600S agree with the commercial voltage (AC200-240V) in your country.**

◆ **Power off the machine and disconnect the main lead before maintaining the machine, otherwise personal injury or damage to the machine may be generated.**

◆ **Keep the treatment head clean and do not let the cooling gel infiltrated to the inside.**

◆ **Do not use the machine if the treatment head leaks; if the machine is on, please powered it off immediately.**

Warnings about laser

Avoid laser beams' exposing on eyes or combustible materials, as it will cause eye damage or burning.

◆ **It is strictly forbidden to use the laser one the same area for long time to avoid skin thermal damage.**

◆ **Operators and patients should wear laser goggles during diode laser treatment.**

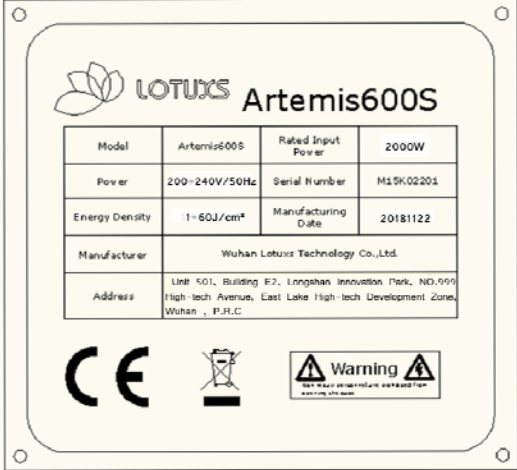




◆ **Avoid looking at direct laser beams even wearing laser goggles.**


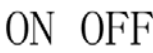


◆ **Do not pint the treatment head towards the air, put the handle piece in the handle holder if not use, during treatment, the treatment head should contact the target skin firmly.**

◆ **Hands should be away from the handle piece when turn on the machine.**

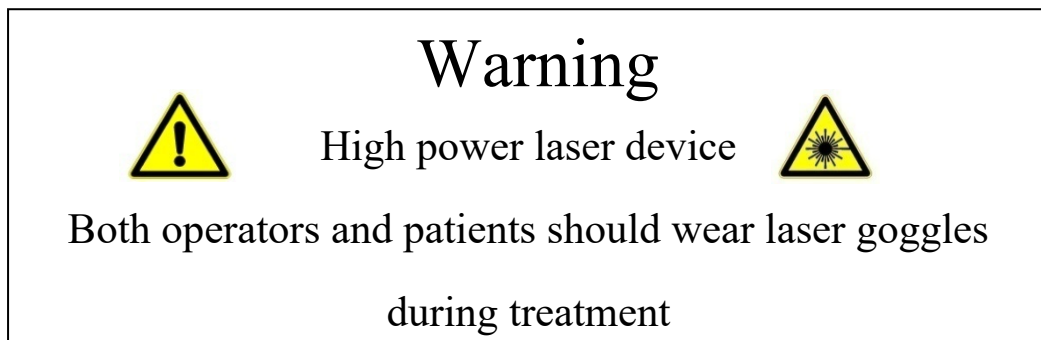
1.4 Warning labels

1.4.1 Sample for warning labels

No.	Labels	Remark																				
1	 <table border="1" data-bbox="477 564 874 757"> <tr> <td>Model</td> <td>Artemis600S</td> <td>Rated Input Power</td> <td>2000W</td> </tr> <tr> <td>Power</td> <td>200-240V/50Hz</td> <td>Serial Number</td> <td>M19K02201</td> </tr> <tr> <td>Energy Density</td> <td>1-60J/cm²</td> <td>Manufacturing Date</td> <td>20181122</td> </tr> <tr> <td>Manufacturer</td> <td colspan="3">Wuhan Lotuxs Technology Co.,Ltd.</td> </tr> <tr> <td>Address</td> <td colspan="3">Unit 501, Building E2, Longshan Innovation Park, NO.999 High-tech Avenue, East Lake High-tech Development Zone, Wuhan, P.R.C.</td> </tr> </table>	Model	Artemis600S	Rated Input Power	2000W	Power	200-240V/50Hz	Serial Number	M19K02201	Energy Density	1-60J/cm²	Manufacturing Date	20181122	Manufacturer	Wuhan Lotuxs Technology Co.,Ltd.			Address	Unit 501, Building E2, Longshan Innovation Park, NO.999 High-tech Avenue, East Lake High-tech Development Zone, Wuhan, P.R.C.			<p>Name plate Information and technical information for machine and manufacturer</p>
Model	Artemis600S	Rated Input Power	2000W																			
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Address	Unit 501, Building E2, Longshan Innovation Park, NO.999 High-tech Avenue, East Lake High-tech Development Zone, Wuhan, P.R.C.																					
2		<p>Laser warning label Remind there is laser radiation near the device.</p>																				
3		<p>Attention: Check the document along with the machine Please follow the user manual to operate the machine</p>																				
4		<p>Emergency Shut-down Label Press the button to shut down the machine in the case of an emergency</p>																				
5	 <p>VISIBLE AND INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION! CLASS 4 LASER PRODUCT DIN EN 60825-1:10-2003</p>	<p>Laser Radiation and Type of Laser Beam label Under the control panel Invisible radiation</p>																				

6		Laser Beam Exit Located at the front of the treatment head There is laser beam here.
7		Key switch label Located around the key switch
8		Air switch label Located around the air switch
9		Warning of electric shock label On the back of the machine

1.4.2 Warning labels in treatment room



Picture 1.7 Warning to wear goggles



Picture 1.8 Warning for laser beam

1.5 Laser, electrical and mechanical safety

1.5.1 Laser safety

The Artemis 600S diode laser hair removal machine is a high-tech laser device, operators should pay attention to the laser safety when use the machine, follow the below instructions:

◆ Both operators and patients should wear protective goggles during diode laser treatment in case of eye damage. If anyone can not wear goggles, it is necessary to protect her/his eyes with some opaque materials.

◆ Make sure the laser beam is closed or hard to approach.

◆ Please do not turn on the machine if the case of the system is opened, or it will cause malfunction, and make the operators exposure to laser radiation, which causes safety problems.

◆ The laser system will stop emitting light to ensure the operators' safety if the environment temperature is too high, the treatment head is overheat by lack of water or other malfunctions.

◆ Only the necessary, well-trained personnel is allowed to approach the machine.

◆ Make sure all staff in the treatment room know how to use and shut down the diode laser hair removal machine.

◆ The Artemis 600S diode laser hair removal machine should be operated by the professional staff.

◆ Do not use the handle piece beyond the scope of this user manual.

◆ Please do not use the diode laser hair removal machine in the environment with explosive anesthetics or other flammable materials.

◆ Please do not point the treatment head towards areas other than the target treatment area.

◆ Prevent reflectors such as jewelry, watches, beauty devices or mirrors from reflecting the strong lasers.

1.5.2 Electrical and Mechanical Safety

◆ Disconnect the plug after treatment.

◆ Disconnect the plug before cleanse or maintenance.

◆ Keep all the panels and cover plates enclosed.

◆ There is high voltage in the machine, even turn off the machine, there is still

voltage, and only authorized personnel by Lotuxs can open the cover plates.

- ◆ Do not open the power supply or the cover plates while maintaining, or leave it untended.

- ◆ The machine has is well-balanced, and can be moved with caution.

- ◆ The ground electrode in the power protection sheath should be connected with earth through wall Line; A well earthed circuit is very crucial to safe operation;

- ◆ Take care and to avoid scratch, while opening the outer packaging of the machine.

- ◆ Check it out if the handle is well connected with the machine main body.

- ◆ Check the water level before starting the machine, if it is low, add to the drain level.

- ◆ Pull up the air switch and screw the key clockwise for recovery, if the machine trips because of overload.

- ◆ The water should be distilled water.

- ◆ Drain off the water if long time not use the machine.

- ◆ Stop emitting by pressing the emergency button if necessary.

- ◆ Add antifreeze to the water tank under low temperature environment.

1.6 Fire Hazards

Keep away from the inflammable materials, because the temperature will get higher once observed the laser energy.

Please clean the skin with soap and water instead of alcohol or acetone. The treatment should begin only when the skin is dry after cleansing.

Keep the laser treatment room away of papers or plastic materials, those materials will burn by absorbing enough power in certain distance.

If do not use the diode laser machine, or during the interval not use the machine, please switch to “Standby” mode, and do not use the handle piece.

1.7 Safety setting

Artemis 600S is equipped with a few safety device that the operator should be familiar with.

Key Switch: It is used to turn on or off the Artemis 600S diode laser hair removal machine. Only the key of Lotuxs can open the machine, which can prohibit illegal use. Make sure the key is pulled out after every use.


Emergency shut-down Switch: Press the red mushroom button, the machine will be shut down immediately. Slew the Emergency shut-down Switch clockwise, or the machine will keep the state of power interruption.

! Attention: This button is only used under emergency condition to ensure safety.

Interlock: The machine can work when connecting with interlock.

Semi-automatic air switch: The air switch is installed on the back panel. When the working current is over 10A, the Switch is disconnected to protect the system. Pull the switch upwards, the electricity will be restored.

1.8 Safety class

- ◆ Protection against electric shock: Class I
- ◆ Protection against electric shock: Type B 。
- ◆ Laser radiation class: Class 4
- ◆ Protection against corrosive liquid: Common
- ◆ It cannot be used in the environment of inflammable gas.
- ◆ Working Mode: Continuous
- ◆ Rated voltage and frequency: Single-phase AC200-240V, 50Hz \pm 10%; input power: 2000W.
- ◆ The power socket for the machine should conforms to the national standards, and it should be 10A.

The network power supply connected to this unit must use a single-phase three-wire power socket that conforms to the national standard and has good grounding, and the specification is 10A.

- ◆ There is no application part that protects against defibrillation discharge effects.

- ◆ Non-permanent installation equipment, which is mobile.

Chapter 2 Machine introduction

This chapter is the general introduction for Artemis 600S diode laser hair removal machine

2.1 Brief introduction

2.1.1 Machine outlook



Picture 2.1 Artemis Front



Picture 2.2 Artemis Back

2.1.2 Handle piece outlook



Picture 2.3 Artemis Handle piece

2.1.3 Machine specification

Artemis 600S laser hair removal utilize the unique 810nm diode laser with long pulse width and the right wavelength to penetrate into the hair follicle. Using the theory of selective laser absorption, laser can be preferentially absorbed by the melanin of the hair. And then the hair shaft and the hair follicle are heated rapidly in order to destroy the oxygen-supply organization of and around the hair follicle. The treatment window of the handle is designed with sapphire dynamic cooling system, which could bring about pain-free effect to the epidermis with pain free treatment.

2.2 Parameter

Main parameter for Artemis600S diode laser hair removal machine as follows;

Table 2-1 Main parameter

Items	Contents
Laser type	Diode laser
Wavelength	810nm
Spot size	12X12mm
Power density	1-120J/cm ²
Frequency	1-10Hz
Cooling methods	Water cooling, air cooling and semi-conductor cooling
Power source	AC200~240V/50Hz
Input power	2KW
Dimension	530x450x1120mm(1320mm vertical screen)
Weight	40kg

2.3 Working environment

◆ Working environment

- A. Environment temperature : 10°C~40°C;
- B. Relative Humidity: $\leq 80\%$;
- C. Atmospheric Pressure: 860hPa~1060hPa;
- D. Power Supply: AC200~240V/50Hz.

◆ Transportation and Storage Environment

- A. Environment Temperature::0°C~60°C;
- B. Relative Humidity: $\leq 100\%$;
- C. Atmospheric Pressure: 500hPa~1060hPa

Chapter 3. Installation

The Artemis 600S diode laser hair removal machine is used in beauty salon and beauty clinics.

3.1 Installation environment requirements

Select a place to install the Machine

While selecting the place, you have to consider the following factors:

- ◆ Keep the machine away from the inflammables, the explosives and corrosives, such as alcohol, sulfur and so on.

- ◆ Keep the machine away from the heat source and the sun. Rapid change of temperature can water vapor may accumulate inside of the machine.

- ◆ Put the machine in somewhere level without other goods around, and it should be at least 0.2m away from the wall.

- ◆ Keep the office clean and other things in good order.

- ◆ Keep the machine away from strong electromagnetic wave interference sources.

- ◆ Keep away from obvious vibrations and shocks;

- ◆ The office should be with good ventilation.

- ◆ Keep the machine away from other goods for at least 60cm.

3.2 Unpacking and inspection

If the package is broken, please check if there is any deformation, scratch or damage of the panel. Should there be any damage, please contact us or our dealer immediately and keep the package for us to judge the reason. Please do not send back the machine without inform Lotuxs or its Dealer.

Please check if the goods are included according to the following list

- ◆ Main body

- ◆ Handle piece

- ◆ User manual
- ◆ Key switch and interlock
- ◆ Water funnel
- ◆ Laser protective goggles;

3.3 Installation Requirements

Before open the package of the diode laser machine, please check the whether the installation position qualified or not.

Space requirement

The dimension of Artemis 600s Diode laser hair removal machine is 53cm×45cm×132cm (vertical screen)

Electrical Requirements

The rated voltage of Artemis 600S diode laser is in accordance with the requirement of the user. And the electrical requirements are as follows

Single-phase AC200~240V, 50Hz±10%

The grounded circuit contributes a lot to safe operation.

The machine should have its own transmission line and air switch. For the input power supply allows for no transient voltage, current spikes or surges.

The main safety is a 20A circuit breaker (air switch). When it is down, the power is cut off. Pull it up, the power is connected again.

Electrical interference: If use the diode laser machine in hospital or beauty clinics, it may cause interference to some surrounding equipment, the diode laser can't be used around strong magnetic fields or strong microwave fields, and should not be shared with interference devices such as MRI and CT.

Environment requirements

Air quality: There should be no corrosive particles in the air. Corrosive particles such as acids can damage the surfaces of wires, electrical components and optical components.

The dust in the air should be as less as possible. The dust can absorb light energy and be heated. The dust on the surface of sapphire may damage the sapphire when it was being hearted. The metal particles may damage electrical components.

Temperature: To ensure the best working status of the machine, the indoor temperature should be kept between 20°C and 25°C, and relative humidity should be not exceed 80%.

Temperature: To ensure the best working condition of the machine, the indoor temperature should be kept between 20 C and 25 C, and the relative humidity should not exceed 80%.

3.4 Movement

Please observe the following step when you need to move the machine

1. Disconnect the power cord
2. Put the treatment handle on the handle holder.
3. Loosen the brake wheels
4. Push the hand grip of the machine slowly, and do not push the display

3.5 Transportation Requirements

3.5.1 Original Package

Please reserve the original package. If the machine need to be returned to Lotuxs for maintenance, please use the original package, and contact the customer service department of Lotuxs in advance.

3.5.2 Other package

If you can find the original package, please do as the following instructions

- A. Pack the machine with plastic bags firstly
- B. Put the machine in the wood case or strong carton that can bear the weight of 60kg.

C. The machine should be protected with 70mm to 100mm shock-proof materials. The front panel should be protected with thick foam plastic, especially the LCD.

D. Enclose the case properly

E. Label the remarks "Fragile! Take Care!"

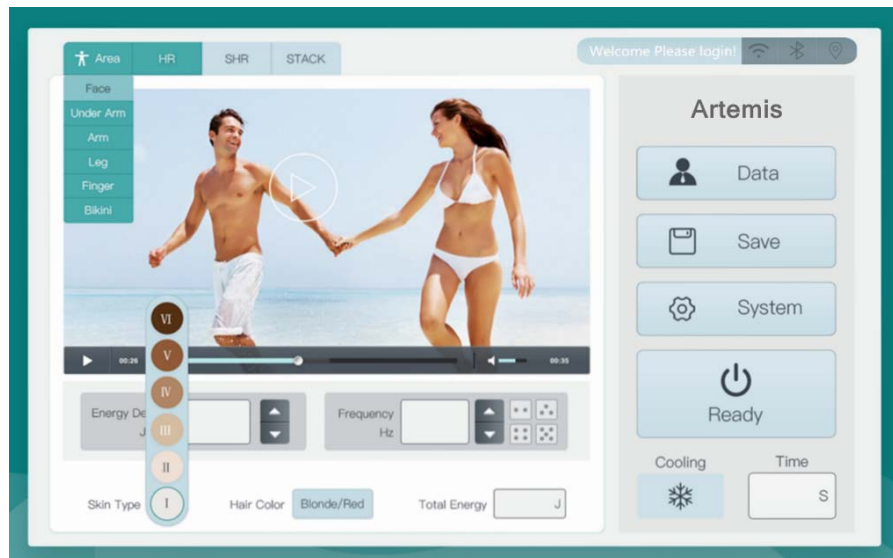
Chapter 4. Operation Instruction

This chapter shows how to use the Artemis 600S diode laser hair removal machine

4.1 Instruction

4.1.1 System start-up

Connect to power supply, and push the air switch upwards to the position “I”, turn the key switch clockwise to turn on the machine, and go to the main interface, as picture 4.1.

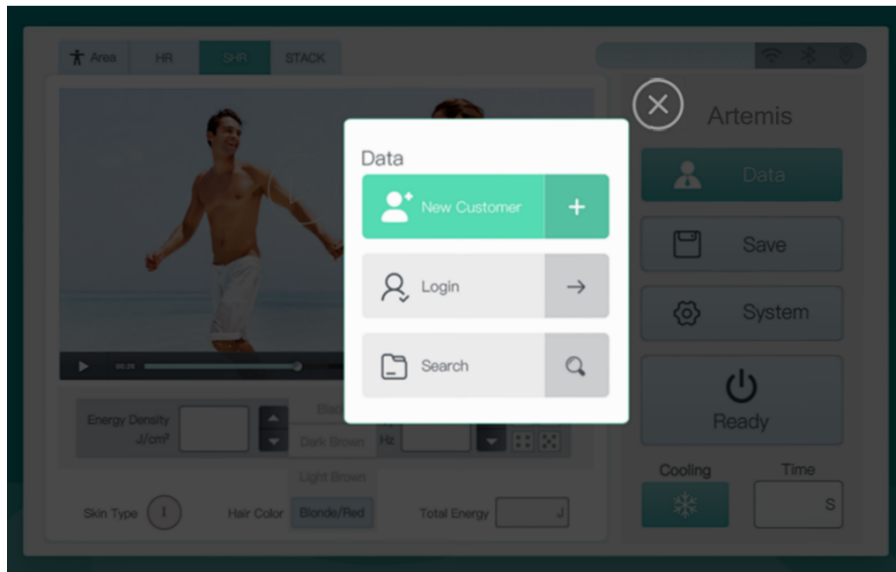


Picture 4.1 Main interface

4.1.2 User login

- **Save new customer data**

When go to the main interface, press the button “Data” on the right corner, if it was new customer use the machine for the first time, need to press the button “New customer” to save the basic information, such as gender, telephone number to login the system, as picture 4.2



Picture 4.2 Customer data interface

New Customer

Gender

Phone

Registration Date 2018-11-12 10:20


Press gender, to choose “Male” or “Female”, and enter the customer’s phone number, then press “Save”, see as picture 4.3

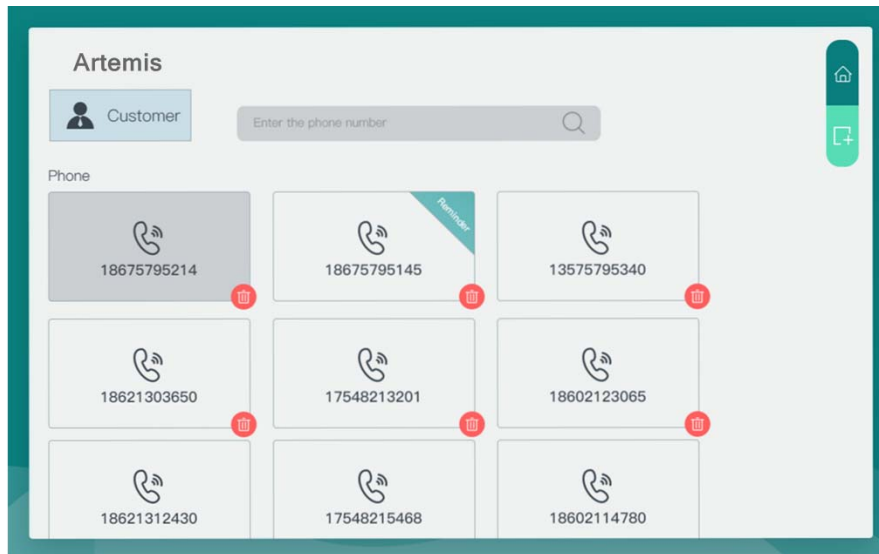
Picture4.3 Save new customer data

● **Ways to login**

Way 1: Go back to main interface after saved new customer data, press the button “Data” and press button “Login”, login the system by entering the customer phone number.

Remark: If the same customer use the machine next time, can enter phone number directly to login the system.

Way 2 Press the button ‘Data” and “Search” on the main interface, enter the phone number or search the phone number on the interface, click the picture of phone number, and then press the button “” on the right corner, can login the system.



Picture 4.4 Customer search interface

Remark: On the upper right corner of the phone number there is a green icon “Reminder”, which shows it is time to remind the customer to do next treatment session. And press the red delete button on the phone number can delete the customer data.

4.1.3 Treatment mode and parameter setting

Choose the treatment area, treatment mode and parameter after login the system.

- Press the upper left corner to choose the treatment area, there is 6 treatment areas for option (such as face, underarm, arm, leg, finger and bikini), choose any area, and it will show the guide video for the related area on the interface.

- Choose the treatment mode on the upper left corner, there are three treatment modes: HR mode, SHR mode and STACK mode. Under each mode, there are 6 skin types and 4 hair colors for choice. Customers can choose the right treatment mode, skin type and hair color by different treatment areas or their own requirements.

HR mode is used for hairline, beard, bikini area, limbs, torso and other areas.


Feature for HR mode is higher power density, traditional spot and spot treatment, the power density is up to $60\text{J}/\text{cm}^2$.

SHR mode is used for large area hair removal treatment.

Feature for SHR mode is lower power density, higher average power


STACK MODE is used for facial hair treatment (hair line, lip hair), bikini area, finger, foot and other smaller area treatment.



Parameter scope for three treatment modes (Press the button “” to set the power density and frequency)

HR MODE: Power density: 1-60J/cm² Frequency: 1-5Hz

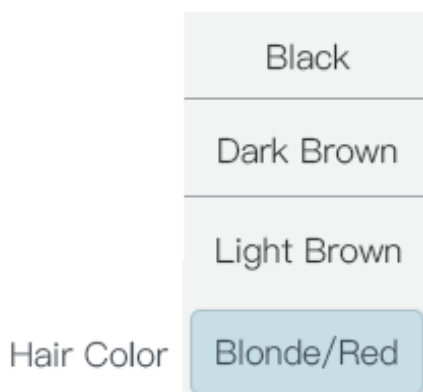
SHR MODE: Power density: 1-20J/cm² Frequency: 1-10Hz

STACK MODE: Power density: 1-10J/cm² Frequency: 



Picture 4.5 6 treatment areas, 3 treatment modes

Press the button “Hair color” to choose the related hair color, and press the button “Skin type” to choose the skin type, from darker to lighter skin.



Picture 4.6 Choose hair color



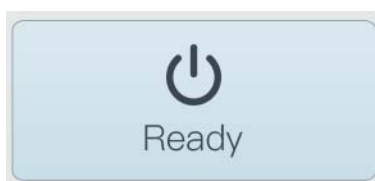
Picture 4.7 Choose skin type

Tips: During the treatment, the operator should adjust the power from lower to higher, make sure the customer can tolerate, according to customer's feeling, if

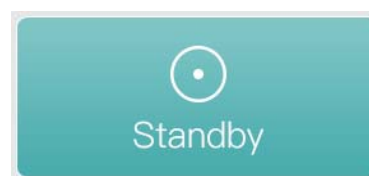
feel too hot, can press the cooling button “” on the lower right corner.

4.1.4 System Ready

The machine is in ready status after chosen the treatment mode and set the treatment parameter, shown as picture 4.8, press the button “Ready” and the machine goes to “Standby” status. The handle can emit laser beam only when the machine is in Standby status. At the same time, the other setting is locked in case of disoperation.



Picture 4.8 System ready

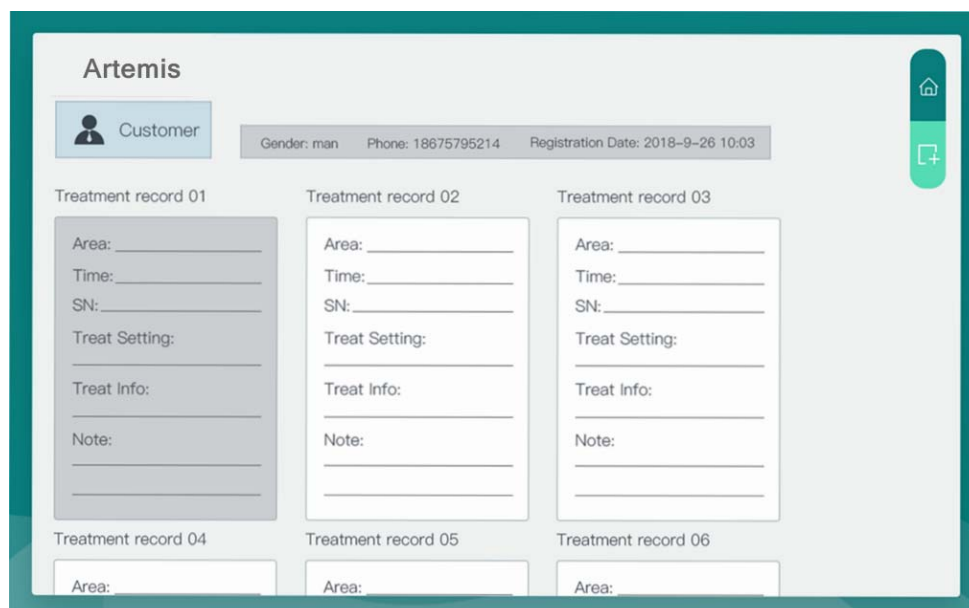


Picture 4.9 System standby

4.2 Other functions

4.2.1 Track customer treatment record

Press the button “Data” and the button “Search”, enter or search the phone number, and double click the icon of the phone number can track the treatment record, like the treatment area, treatment time and etc. shown as picture 4.10



Picture 4.10 Customer treatment record

Remark: 1. Slid the screen up and down to track more customers' treatment record.

2. Press the button “Customer” , can go back to the search page as picture 4.4

3. Press the button “Home” , can go back to the main interface.

4. Press the area “Note”, can remark the related treatment information for the customer.

4.2.2 Log out/Switch operation

Customer can press the button “Welcome xxxx” to choose Yes or No. Switch to other customer's interface, shown as picture 4.11

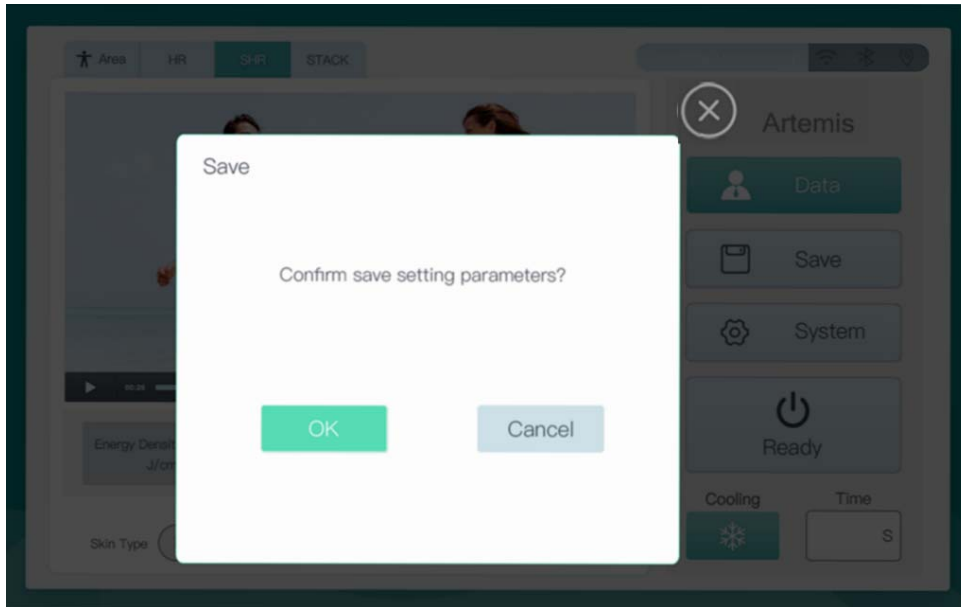


Picture 4.11 Log out/Switch

4.2.3 Save or modify treatment parameter.

It is suggested not to edit the factory setting. Experienced operators can adjust slightly, normally from lower to higher.

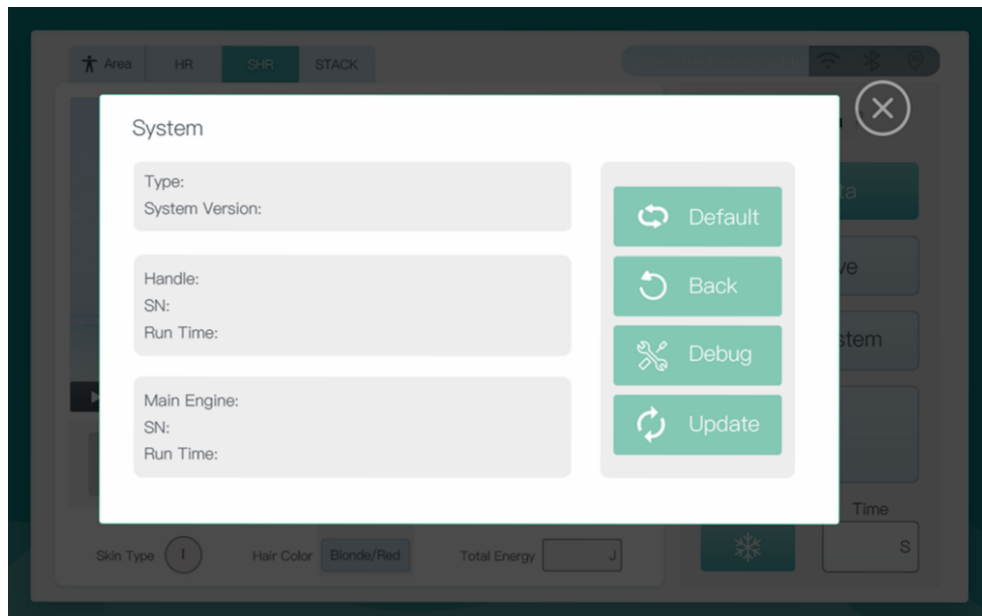
After adjustment, press the button ‘Save’



Picture 4.12 save setting parameters

4.2.4 System setting

Press the button “System” you will see the system setting, it shows the machine SN number, software version, main engine SN number, Handle piece SN number, working time and etc. Shown as picture 4.13



Picture 4.13 System setting

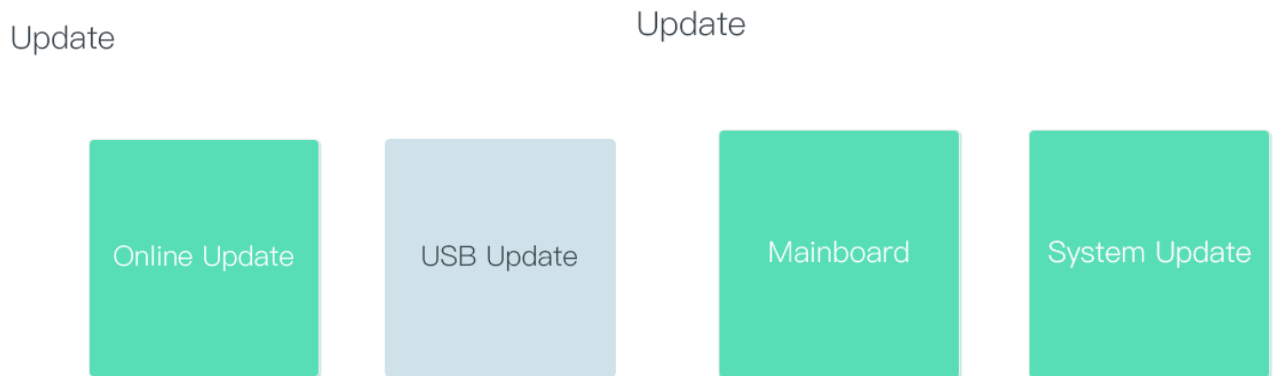
Default: Restore the power density and frequency in all working modes to the factory settings.

Back: Back to the previous interface.

Debug: Monitor the current threshold current, maximum power, maximum current and temperature for laser module and skin.

Update: Update the machine control board or system version online or by USB.

Shown as picture 4.12

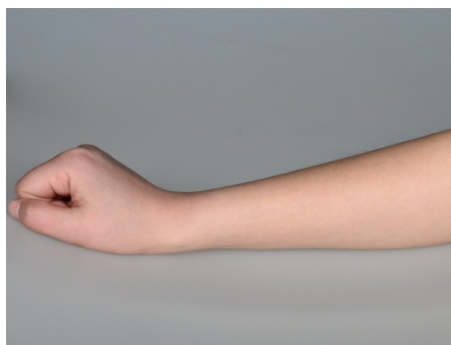


Picture 4.14 System update

4.3 Treatment

Step1: Cleanse

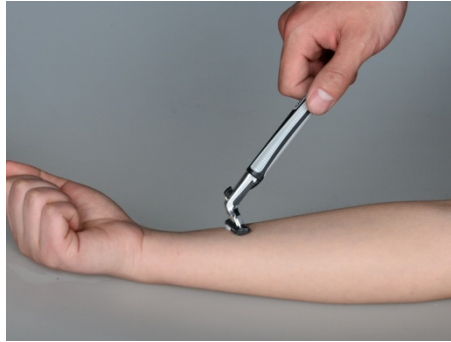
Clean the treatment area before laser hair removal treatment, till the target area is dry enough to do next step.



Picture 4.12 Cleanse

Step 2: Shave the hair

Shave the hair before treatment.



Picture 4.13 Shave the hair

Step 3: Apply cooling gel

Apply cooling gel on the target treatment area to protect the skin, minimizing discomfort and protecting your skin during the treatment.



Picture 4.14 Apply cooling gel

Step 4: Set the treatment parameter

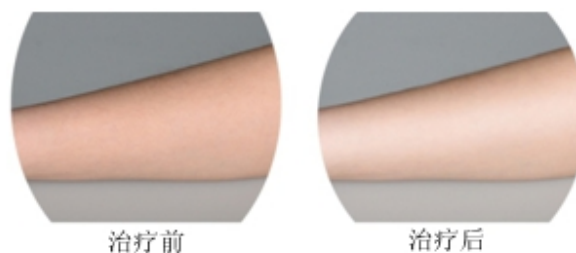
Adjust the power density and frequency.

Step 5: Hair removal

Hair removal method: The handle piece contact the skin firmly, slid the treatment head on the target treatment area 6 to 7 times.

Step 6: Cleanse

After treatment, apply ice compress on the skin for 3-5 minutes



Picture 4.15 before and after treatment pictures for arm

Chapter 5. Maintenance and repair

In this chapter the methods to maintain the machine and the solutions for common fault is included.

The user could only carry out the following maintenance work, while the other can only be done by technician authorized by Lotuxs.

5.1 Machine cleaning

Clean the surface of the machine with wet cotton ball once a week. Neutral cleanser can be used, but do not let the liquid soak into the inside. Clean the treatment window after each treatment.

Good habits can help you to apply the machine favorably and lengthen the life cycle of the machine. The following suggestions are for effective clinical treatment.

Attention:

Please make sure the machine is off or in standby mode when cleaning the system.

Do not switch the machine frequently

Don't power it off immediately; you can clean the treatment area first. Keep the water cooling system working for about 15min, and then turn off the machine. It will be ready for the next treatment after about 15min. If there are many treatments, just keep the machine in the operation interface during the interval, which will contribute to water cooling.

Keep the cooling gel cool all the time

Keep the cooling gel in the refrigerator. Spread it on the skin according to the size of treatment area.

5.2 Water changing

◆ Change the water in the water tank every 6 months to ensure the water quality, it is suggested to use pure water.

Procedure to change water:

1. Turn off the machine and disconnect the power cord.

Check whether the machine is off and power cord is disconnected before changing water to avoid danger.

2. Lock the universal wheel

There are four universal wheels at the bottom of the machine, two of which has locks. Lock the universal wheels by treading the pedal.

3. Drain off water

Water outlet (WATER OUT) is on the back of the case, connect the water pipe to the water outlet position, and put the funnel downwards to a container, till there is no water flowing out.

4. Fill water

Connect the pipe to the water in position, and put the funnel upwards, and fill pure water to the funnel.

5. Finish changing water

Stop filling water till there is water flowing from the over flow position, and disconnect the pipe.

5.3 Regular Maintenance

To ensure the machine on its best state, periodical maintenance from professional personnel is needed, as well as daily care. It is suggest that the maintenance should be carried out every 6 months, which including the following items.

- ◆ Overall system inspection
- ◆ Internal inspection, includes cleaning dust of all the components
- ◆ Output power inspection
- ◆ Cooling system inspection and cleaning.
- ◆ Radiator cleaning.
- ◆ Air fan cleaning.

◆ Inspection or replacement for the “O” shape ring of the handle connection position.

Warranty: Wuhan Lotuxs Technology Co., Ltd offers one year free warranty.

Environmental protection and disposal: Please do not discard the old machine to public waste bin. Please dispose or recycle your old electronic devices to local authorized garbage can.

5.4 Troubleshooting

Problem	Probable causes	Solution
No display	Power supply looseness	Check whether the power cord is well connected.
	Air switch shut off	Push the air switch upward, turn on the machine again, if the air switch shut off again, please contact our after sales department.
No reflection when you press the button on the screen.		Contact our after sales department.
The system cannot go to main interface.		Contact our after sales department
E-STOP on the screen	Emergency button is pressed	Release the emergency button
E-KEY on the screen	Key switch was not turned on	Screw the key switch clockwise
E-LOCK on the screen	The interlock is not connected	Connect the interlock
E-LD on the screen	The temperature for the laser module is overheat	Stop using the machine till the temperature decreased.
E-SKIN on the screen	Skin temperature overheat	Stop using the machine till the temperature decreased.
E-FLOW on the screen	Water flow alarm (Water cycle blocked)	Contact our after sales department.
E-STAGE on the screen	Water level alarm (not	Fill water to the water tank.

	enough water inside water tank)	
E-TYPE on the screen	SN number for machine main body and handle not match.	Contact our after sales department.

5.5 Attention

Attention:

1. There is high voltage when using the Artemis 600S diode laser hair removal system, the operator should follow the user manual strictly, it is forbidden to touch the parts with electricity to avoid electric shock.
2. The system is grounded through the grounding conductor in the power cable. This protective grounding is essential for safe operation.
3. The operator should follow the user manual strictly in case of damages.
4. Do not use flammable anesthetic or oxidizing gases such as nitrous oxide and oxygen.
5. It is recommended to check the integrity of the transmission system before use

Chapter 6 Application guide

Artemis 600S should be operated by practiced beautician or other professional personnel. Wuhan Lotuxs Technology Co., Ltd will hold such trainings regularly around the country. It is recommended that the beauticians should participate in the training.

6.1 Indications and contraindications

Scope of applications:

Underarm hair removal, leg hair removal, arm hair removal and etc.

Contraindications:

Customers has below conditions can't have laser treatment such as heart disease, psychosis, hypertension, diabetes or someone who is not suitable for treatment after inspection.

6.2 Side effects

There may be side effects during treatment, and the responding is as follows;

Pain

Patients may feel different levels of discomfort, which is bearable for the adult. The sensation of burning may last for 1h at most.

Excessive Redness and Swelling

The skin may get red and swollen after the treatment for a short period, which will be reduced in 3-7 days.

Fragility of the skin

The skin may get fragile after the treatment. Please do not make up or rub the target area.

6.3 Post-hair removal care

Cold compress rather than ice compress can release the swelling and discomfort. The temperature of the pack for cold compress cannot be lower than 4 °C.

The blisters and ulcers on the skin after hair removal treatment can be treated with antibiotic ointments and burn ointments (e.g. Silverol or Biafine and etc). Lower concentrations of steroid ointments can also be used to reduce swelling.

Pay attention to avoid trauma within 4-5 days after hair removal treatment. Do not have hot showers, do not do aerobics or massages and etc.

If the blisters are scarred, use moisturizing ointment such as petrolatum to keep it wet.

If side effects occurred during treatment, please do not continue treatments before the target treatment area healed.

If the hair was removed partially after the treatment area healed, it is suggested to lower the power density for continuous treatments.

If there is side effects and the hair was not removed after 4 weeks, the customer should wait another 2 to 4 weeks for review. If the hair is partially removed, continuous treatment can be performed, and it is better to lower the power density during treatment.

If the hair was not removed by second review, maybe the side effect is caused by the sunburn of the patient's skin. If so, the patient should continue treatment after skin recovery.

End treatment

It is up to the beautician to decide whether to end the treatment or not. Normally when the hair was removed clearly or the patient is satisfied with the treatment result, it is OK to end the treatment.