

Diode Laser Hair Removal Machine



USER MANUAL

Please be sure to read this USER MANUAL carefully before operation.

All responsibilities will be undertaken by yourself, if you don't operate it according to the following information.

Attentions!!

1.1 Notice Items

- 1.1.1 The Hand Piece of the machine is fragile, please handle it with care.
- 1.1.2 The machine is not waterproof, please keep it dry.
- 1.1.3 Please do not scratch the equipment to avoid being oxidized.
- 1.1.4 Please do not let the things with corrosion contact the equipment.
- 1.1.5 Please wear Laser protective operation goggles and patient shield goggles when operating the machine to do the treatment.
- 1.1.6 Please do not put the things which are irrelevant on the machine. During the operation, please handle it with care.
- 1.1.7 Please do not plug in many plugs into one socket to avoid fire emergency. And please do not use faulty power lead, power plug and socket. Do not touch the power plug with wet hand, otherwise, it probably causes electric shock or fire emergency.
- 1.1.8 Please use qualified power socket with at least 16A to protect power supply, otherwise, it maybe causes the damage of power supply.
- 1.1.9 Please connect power lead to grounded power socket to avoid any possible electric shock or fire emergency.
- 1.1.10 Please do not scratch or pull power cord to pull out from socket, hold the end and pull it out slightly, otherwise, it may cause electric shock or fire emergency.
- 1.1.11 The machine is installed with high voltage power supply, nonprofessional are prohibited to operate and maintain it.
- 1.1.12 After finishing the treatment, please let the machine keep working condition at least 5 minutes, instead of turning it off right now.
- 1.1.13 When operating the machine, please provide a voltage stabilizer with voltage of 3000W, to keep the voltage stable.
- 1.1.14 Long time no use the machine or thunder storm weather, please pull out power lead to avoid possible electric shock or fire emergency.
- 1.1.15 Before and after every treatment, please dip a little alcohol, whose degree is 99.9% with cotton wool to wipe the laser lens gently, to reach the aim of cleaning and disinfection.
- 1.1.16 Laser has radiation and can be reflected, please do not aim at the human eyes or reflective objects, otherwise, it may cause blindness.
- 1.1.17 The machine is installed a filter, we advice replace it at the period of half year to guarantee the purity of distilled water.

1.2 Storage and Maintenance

Turn off the product after use.

Grab the head of cord and unplug to detach it from the socket. Do not grab the cord line and apply excessive force. Get right the entangled line and maintain it non-entangled.

Keep the warranty enclosed in each product because it is necessary for A/S.

Always keep the product clean as following:

Turn off the product before cleaning;

Clean the product with a soft cloth;

Clean only the surface of the product;

Do not use strong cleanser or combustible material such as thinner or alcohol and be cautious not to let the cleanser discharged into the inside of the product.

The product must be kept in the locations as followings:

A location where the water cannot reach;

The location where the pressure, the temperature, the humidity and the ventilation are appropriate.

The location where the sunlight, dust, salt or sulfur air cannot reach;

A location whose slope is not exceeding 10 degree.

1.3 Notice before Use

1.3.1 Check the mechanical handling before use.

1.3.2 Before you use the machine to do the treatment, please tear off the film on the Spot of the Hand Piece.

1.3.3 The manufacturer will not responsible for the accident caused by the refurbishment or remodeling of the product.

1.3.4 Plug in all the cords appropriately preventing their easy detachment.

1.3.5 In cases where the product is used after non-use for a while, check whether the product properly and safely works.

1.3.6 Do not use the cord when it is tied because it may cause a danger of overheating.

1.3.7 Do not step on or burst on the plug.

1.3.8 Do not apply the inflammables to the product or use of fire.

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2. Machine Introduction

2.1 Brief Introduction

This machine is used for permanence hair removal. It can be effectively damaged hair follicle but won't injury surrounding tissues.

The treatment time is short and no pain. It is the most ideal machine for permanence hair removal.

No recurrence after treatment.

2.2 Treatment Principle

The principle is based on the "Selectively Thermal Absorption of Laser". When the abundant melanin in hair follicle and around tissues absorb laser energy, and the temperature rises rapidly, under this situation, the hair follicle and hair shaft are damaged by thermal, therefore, hair lose the primary environment and is completely removed.

2.3 Treatment Scope

Painless, fast and permanent hair removal.

Category of hair removal: chest, let, mustache, armpit, bikini line, forearm and so on.

Skin rejuvenation

2.4 Technology Advantage

Patent Cooling Type System:

It adopts Skin Contacting Cooling System (patent technology), which can make the temperature reach **minus 16 degrees** to guarantee the epidermal tissue without any hurt and any uncomfartableness during the treatment process.

It can continuously work for **at least 5 hours**, and the energy won't weaken.

International Stander Wavelength:

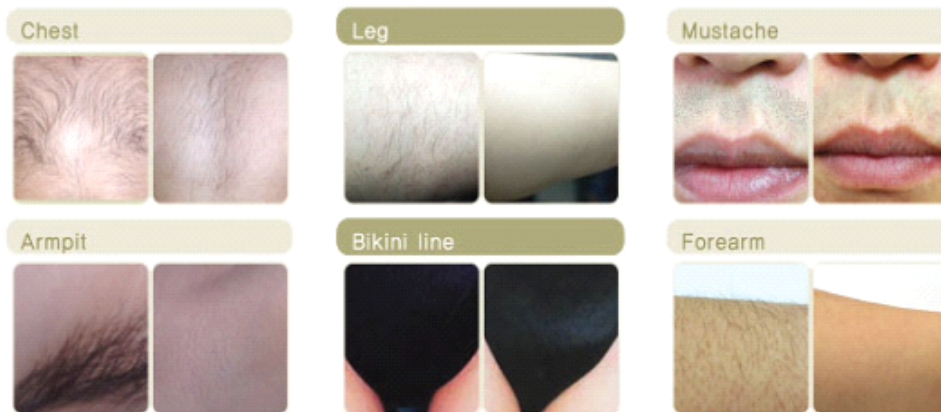
It has passed the laser wavelength FDA approved, so that the overlength pulse width make the laser energy have enough time to destroy the hair shaft, hair follicle and stem cells, to really realize permanence hair removal.

Experts Operation System:

Professional menu with operation system for different requirements, the parameter can be automatically adjusted to reach perfect settings according to different races, gender, treatment area and the color, thickness and position of hair.

Through the observation of electron microscope, we can find that the deepest hair follicles can be destroyed completely.

2.5 Curative Effect Contrast Figures









2.6 Compared with other Laser Hair Removal Machines

Type of Hair Removal Lasers

| Type of laser | Wavelength | Characteristic | Devices |
|-------------------------------|---------------|---|-------------------------|
| Long –pulse Alexandrite laser | 755 nm | Good for hair removal , high Melanin absorption factor | Apogee 5500 |
| Diode laser | 800 ~810 nm | -Longer wavelength than Alexandrite lasers so it works deeper. -Good for thick hair removal | LAMIS XL Light sheer |
| Nd:YAG laser | 1064 nm | -Low absorption factor because of long wavelength. -Risk of burns because of wavelength that absorbed by the water. -Safe use for dark skin type. | |
| Ruby laser | 694 nm | -The wavelength is short and absorption factor is high -Burns occur frequently -Recently don't use for hair removal | |
| IPL (Intense pulsed light) | 700 ~ 1000 nm | -Side effect that burns and pigmentation -Originally for red blotches , so not good effect for hair removal | |

3.Packing List

| Description | Picture | Quantity (set/sets) |
|---------------------------------|---|---------------------|
| Main Body |  | 1 |
| Hand Piece |  | 1 |
| Funnel |  | 1 |
| Water In/ Out & Air Outlet Pine |  | 2 |
| Patient Goggles |  | 1 |
| Operator Goggles |  | 1 |
| Power Lead (European Stander) |  | 1 |
| Main Body Keys |  | 2 |
| Hand Piece Case Keys |  | 2 |
| Foot Switch Chain |  | |
| Filter |  | |
| Package Case |  | 1 |

4. Instrument Operation

4.1. Part Name and Function



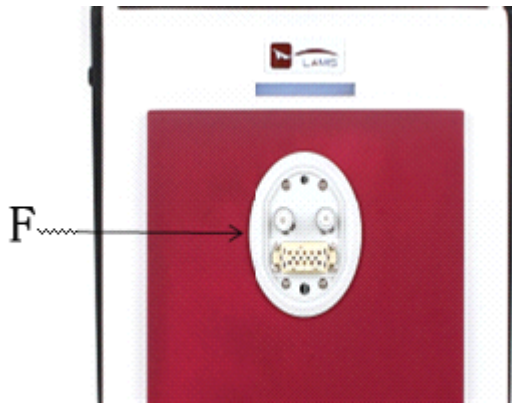
A. Emergency Switch: This is a switch for a user or an operator to stop the power source in unexpected emergency situations. If you push the switch, it will stop the power source and, if you want remove such stop to re-activate the product, you need to turn the switch to the right though the angle of 45 degree.

B. Key Power Switch: If you want to turn it on, you need to turn it to the right. If you want to turn it off, you need to turn it to the left and then the product will stop.

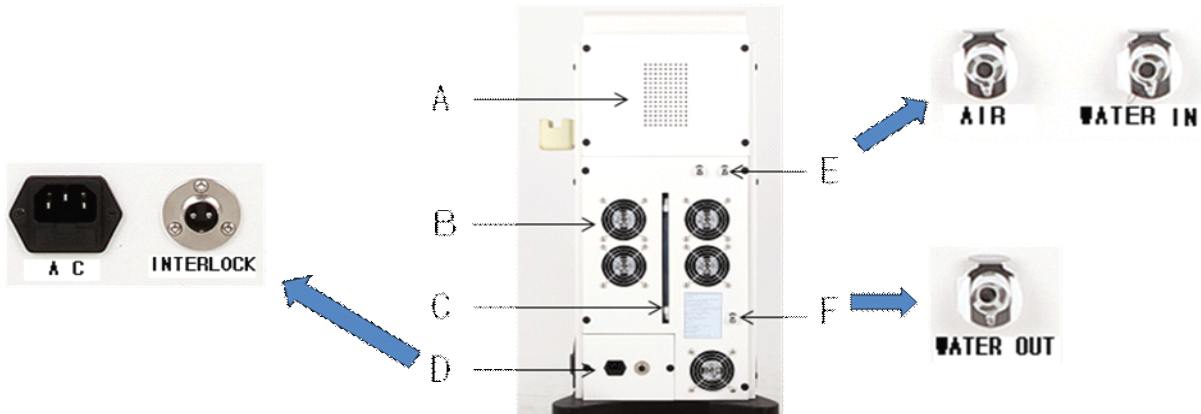
C. LED Touch Display: LED touch display is connected with the main CPU for a telecommunication. If a user wants to select a specific process, he or she can touch the display.

D. Hand-piece Holding Stack: The hand-piece from which the laser beams are emitted must be held in the holding stack.

E. Pilot Lamp: According to the device operation condition, the light of LED lamp turns in red or green. The light of LED lamp will turn into Red when various errors are made, or when it is a Ready. Laser beams will be emitted. Otherwise, it will turn into green when it is in the normal situation or when it is a Standby.



F. Hand-piece Connector: This is the place where the hand-piece and the product are connected with each other so that various sensors, power source lines and ultrapure cooling water are connected.



A. Vent: The internal spaces are heated by the activation of each part. The internal heat is to be emitted outward through the vent. Thus, the equipment and product is recommended to be located more than 30cm from the wall.

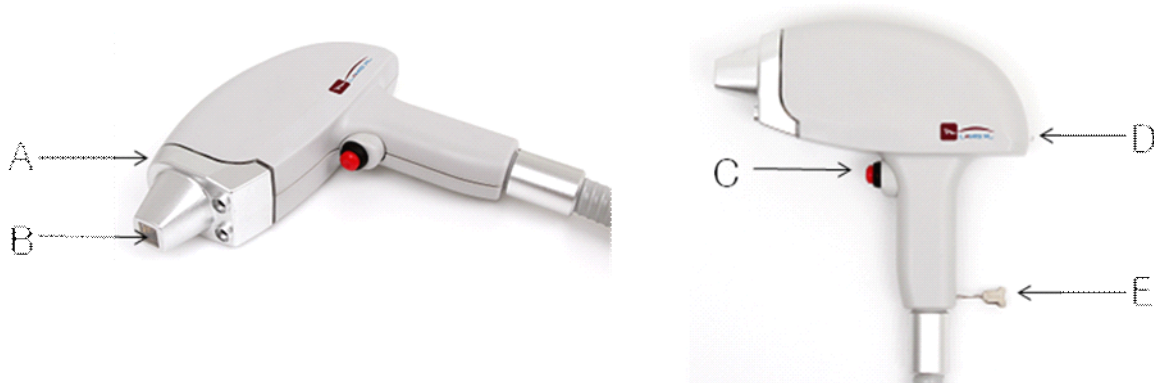
B. Cooling Fan: Cooling materials lowering the water temperature generate much heat. Thus, by force of the cooling fan, the heat is discharged outside

C. Water level Indication: Cooling water composed of super power-saving water can be gradually extinct after the lapse of certain time. The user or the operator can personally check the water level indication and add the water in a regular base.

D. AC and Interlock: This is the place at which the power source of the product is connected and a global standard connector is required to be used for a 3-hole connector. Interlock switch is for a safe operation and is composed of 2-hole connector. If the cap of 2-hole connector gets out by force, the system will stop.

E. AIR and WATERIN: In order to add cooling water, the person in charge of the maintenance of product can insert the unlock connector provided by the manufacturer. At this point, the air connector must be unlocked.

F. WATER OUT: This is the place where the cooling water is discharged outside. For this, an unlock switch must be inserted.



A Cooling System Head: High Capability Cooling System can make the temperature reach minus 16 degrees when operating the machine about 5 mins later.

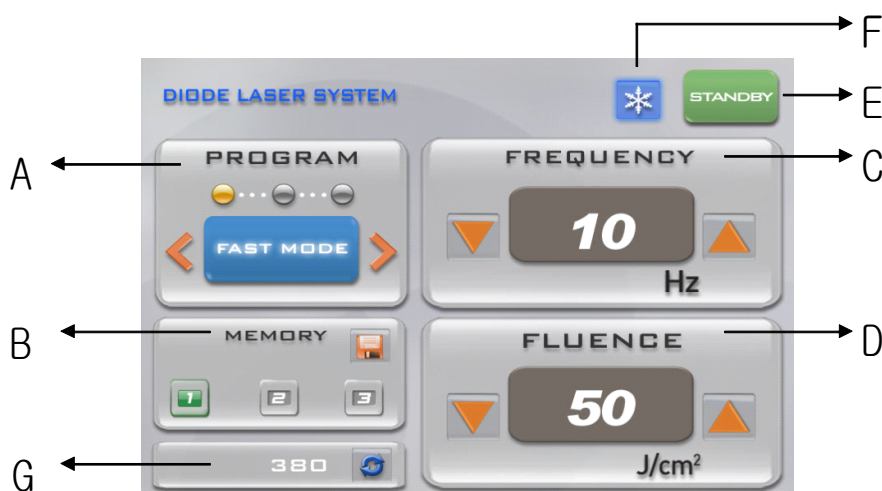
B Treatment Head: Spot Size 13*15MM This is the place specially processed with the sapphire where the laser beam is emitted. Large Spot, make sure the laser can penetrate deeper and increase the treatment area to get better effect and save treatment time.

C Laser Blaster Switch: If you push it, the laser beams will be emitted. At this point, the system must be in READY.

D Laser-emission Pilot Lamp: If the laser is emitted, the pilot will turn in the green light. The user can check the laser emission by this pilot lamp.

E Wrist Strap Connector: This is a connector to be worn around the wrist to prevent the hand-piece from falling down when it is used. The user can attach or detach the strap depending on his or her need.

4.2 Interface Instruction



- A. PROGRAM:** there are three programs, namely, FHR, HR, SR.
- B. MEMORY:** For each program, three data for respective FLUENCE and FREQUENCY can be saved and retrieved.
- C. FREQUENCY:** This means the speed of laser beam emission and is adjustable up to 10Hz
- D. FLUENCE:** This indicates the energy unit and is adjustable up to 1 ~ 100J. DIODE LASER LAMIS XL can be actually used up to 200 J but the present product is restricted its range of usage up to 100J.
- E. STANDBY – READY:** STANDBY is a stage when the user can input the treatment range numbers or let the product standby. If a user pushes the button, it will immediately turn into the state of READY and thus the laser beam will be immediately shot once the user pushes the Laser Blaster Switch. If the user re-selects the treatment number or touches the button again, then the product will be automatically turned into a SRANDBY state.
- F. COOLING:** The contact cooling process can be checked. In blue light, the user can adjust the range of cooling. In grey light, the cooling cannot be processed.
- G. COUNT:** The number of shots the user used in total is counted. If the user pushes the reset button, the system will be initialized.

5. Treatment Instruction

Use an appropriate parameter taking account of the patient's condition and before and after the treatment, please disinfect the Treatment Head of the handpiece.

5.1 Preparation before Treatment

- 5.1.1 Wash the treatment area cleanly with Cleaner. But if the patient has made up, please makeup removal completely.
- 5.1.2 Shave the hair of the treatment area with a razor and make sure there is no any hair remain in the treatment area.
- 5.1.3 Apply the gel refrigerated to the treatment area. The gel will let the treatment head move more smoothly and more laser reach in the treatment area.

5.2 Setting Parameters

5.2.1 <FHR Mode>

- This Mode is used to do the big treatment area, such as leg, arm, body.
- Treat in the level of FLUENCE 15 ~ 25J, and the FREQUENCY of 1-10Hz.
- With the feel that the patient can stand the heat, slid vertically on the same treatment area 3 or 5 times back and forth.
- After the treatment, the place where there is thick hair, will have some small pimples, which is the best treatment response.

5.2.2 <HR MODE>

- This Mode is used to do the treatment of curved areas (forehead or chin) or narrow areas (sub-nasal or the back of neck). Commonly used for the treatment of thin hairs in the area that is hard to treat or narrow.
- Treat in the level of FLUENCE of 20 ~ 40J and the FREQUENCY of 1 ~ 3Hz
- With the feel that the patient can stand the heat, slid vertically on the same treatment area 3 or 5 times back and forth.
- After 1 or 2 times treatment, there is almost not any hair remains.
- After the treatment, the place where there is thick hair, will has some small pimples, which is the best treatment response.

5.2.3 <SR MODE>

- This Mode is used to do the Skin Rejuvenation, such as whitening, toning, Chloasma Removal.
- Treat in the level of FLUENCY of 15 ~ 35J and gradually increase the level and 1-2Hz..
- With the feel that the patient can stand the heat, slid vertically on the same treatment area 3 or 5 times back and forth.
- After the treatment, the place where there is thick hair, will has some small pimples, which is the best treatment response.

5.3 Management after Treatment

After the treatment, massive heat can be temporarily produced in the treatment area.

In that case, please clean the gel completely and use cooling pack or cooling machine which may be able to quickly alleviate the inconvenience caused by the heat.

5.3.1 Apply a moisturizing mask or regeneration cream and sun block lotion. We recommend the Gold Stem Mask which has the function of antiphlogosis, analgesia and relieving redness and EGF DEESSE Skin Care Products, which are Super Repairing, Super Wrinkle Smoother and Super White.



5.3.2 If want to get a better effect, apply one machine to help the skin absorb the care products better.

We recommend to apply our XUEFU Cryo Beauty Machine after the treatment. It uses the Freezing-function in conjunction with the right Cosmetics or active ingredients to desensitize and reduce swelling around surgically repaired areas.

5.4 Treatment Protocol

5.4.1 Person having chronic skin disease

5.4.2 Patient having Light sensitive disease (LIGHT-LUPUS, COLD SORES)

5.4.3 Intervals can be increased from the third treatment.

5.4.4 Interval of treatment: 5-8 weeks (face: at 4-6 weeks intervals / body: at 8-10 weeks intervals)

5.4.5 The areas such as leg and back needs a longer treatment interval (up to 15 weeks)

5.4.6 The times of treatment may be increased for the area that has thin and light hairs or is influenced by hormone.

5.4.7 Several touch-up treatments may need in the cases where there is partial growth of hairs due to the patient's natural physiology.

5.4.8 Do not treat a sensitive area (bone area, dense hair area) in a high level of FLUENCE.

5.4.9 Start with a lower level of FLUENCE for the treatment of the thick hair area.

5.4.10 Use a supplement cooling to alleviate the patient's pain and protect his or her skin.

5. Specifications:

| | |
|----------------------|---|
| Laser Type | 808/810nm Diode Laser |
| Wavelength | 808/810nm |
| Energy | 1--100j |
| Pulse Width | 3-900MS |
| Spot Size | 13*15MM |
| Frequency | Fast Hair Removal(FHR)1-10HZ Hair Removal(HR)1-3HZ Skin Rejuvenation(SR)1-2HZ |
| Power | 2000W |
| Laser Power | Semiconductor Laser |
| Power Supply | 110V--220V/10A/50HZ |
| Cooling System Type | High capability chiller |
| Cooling System | Sapphire Contact cooling system |
| Screen | 8 Inch LED Touch Screen |
| Controller | Computer Intelligent Controller |
| Inside of Hand Piece | Totally Imported Materials, Continuously Work for at least 5 years |
| Cooling Temperature | Down to -16 |
| Weight | 53KG |
| Size | 75*67*125cm |
| Package | Aluminum Box |