

Laser Tattoo Removal System

HL-A03 Laser

Operation Manual



Shenzhen Bowei tech Co.ltd.

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Important Notice:

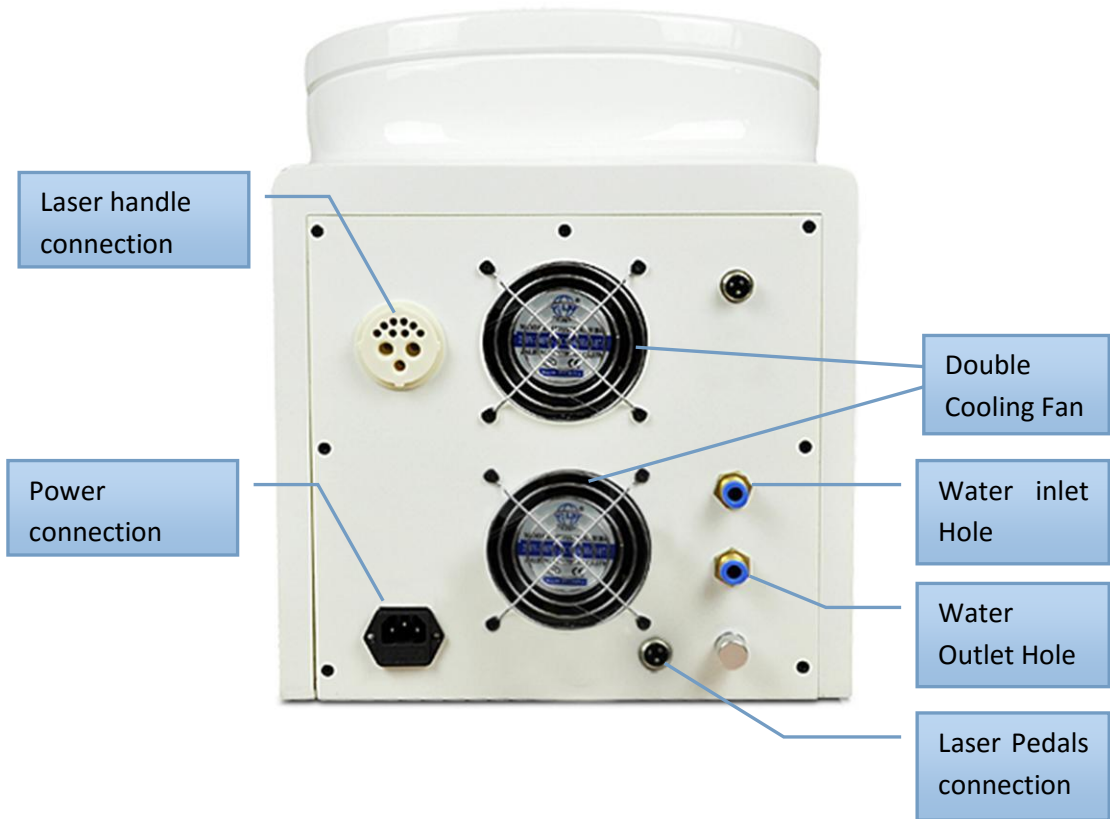


Emergency
Power Break
Switch

Security Keyed
Power On/Off
Switch

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(machine reverse side)



(laser handle)



(Laser Pedals)

1 Check that the machine's electrical supply is connected correctly to the power supply before using.

2 Before starting the machine, fill up the water-tank with distilled water by attaching the funnel into the Affusion hole and adding distilled water.

3 Use only distilled water or de-ionized water. Do Not use mineral water or tap water.

4 Fill the distilled water into the machine by the Affusion Hole and fill until water starts to **overflow** out from the **vent hole**. (water capacity 2- 3 liters)

(Note: Trying to operate the machine without water is Prohibited. In the case of running without water, if laser head shatters, the user bears the cost.)

5 Avoid getting the laser light directly in the eyes.

6 Disassembling this machine is Prohibited without the manufacturers prior permission.

7 Put the head light on fixture avoid broken after operation.

8 Check and change cooling water every month. (more frequently if the machine is being used heavily or if the machine monitored temperature is rising or if water purity is compromised).

9 Allow the water pump to run for one minute before commencing client service

10 Ensure the machine electrical supply is earthed.

Technical Specifications:

Type of laser: Solid-state Q-switch Nd:YAG laser

Wavelength: 1064nm, 532nm

Pulse duration: 8-10ns

Frequency: 1, 2, 3, 4, 5, 6Hz

Power supply: AC220V 50Hz

Power: 1000W

Size: 64*42*60CM

Weight: 15kg

Application Range:

1. Remove the black & blue pigment on eyebrow, eye line and lip line. Scour off tattoos, freckles, lentigines, old aged marks, vascular expansion and various types of blood vessel lesions etc.
- 2 Not harmful to the follicles or normal skin, and will not leave scarring, it will only clarify the pigment.
3. To normalise the melanin not being treated by medication or other means.
4. There is no regular need for anaesthetic and recovery is quick. Using the YAG laser there are no negative influence.

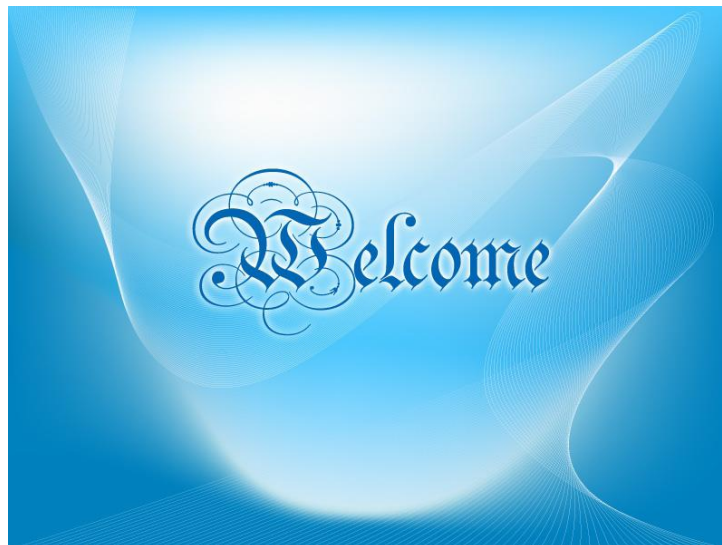
Product Features:

1. Improved efficiency and providing the best solutions for non-burning on the hand-piece at all.
2. Long life Xenon Lamp, which is manufactured with US technology.
3. More stabile hand-piece structure.
4. Added infrared Guide light to aim to the target tissue correctly.
5. Portable design and easy operation makes it ideal for traveling services
6. Lower cost and wide range of applications / usages makes for a faster return on investment.

Working Principle : The Laser light emitted by the system has a strong penetration ability which allows it to reach the deep layer of dermis. The tattoo pigment particles absorb the light energy and explode sharply, bursting into the tiny pieces, thus diminishing the colour density these pieces are removed naturally by the bodies lymphatic system.

So the appliance can effectively do away with mutant pigmentations and vascular tissue based on undamaged ambient tissue. This is referred to in medical circles as 'Selective heat absorption' principle.

Operations: Start the machine (turn the key lock) to display the welcome interface (Pic.1), press the welcome screen to enter the treatment interface display screen



Treatment Interface Display screen



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Select from among the preset service functions

There are four functions.

The first line is for working Voltage, the adjustable range is 500V ~ 1000V.

The second line is for working frequency, adjustable range is 1~6Hz.

The third line is for water temperature and counter, the counter's range is 0~999999.

The fourth line is for working indication, there are four function buttons in this line.

User Manual:



After selecting the required treatment interface, you can adjust 'Power' and "Frequency" key to increase or decrease the working frequency and the working voltage to suit the treatment circumstances.

Pressing the “start” button the Xenon light will be switched on, after which, the button state will become white.

Stepping on the foot switch the lamp will start to emit light pulses.

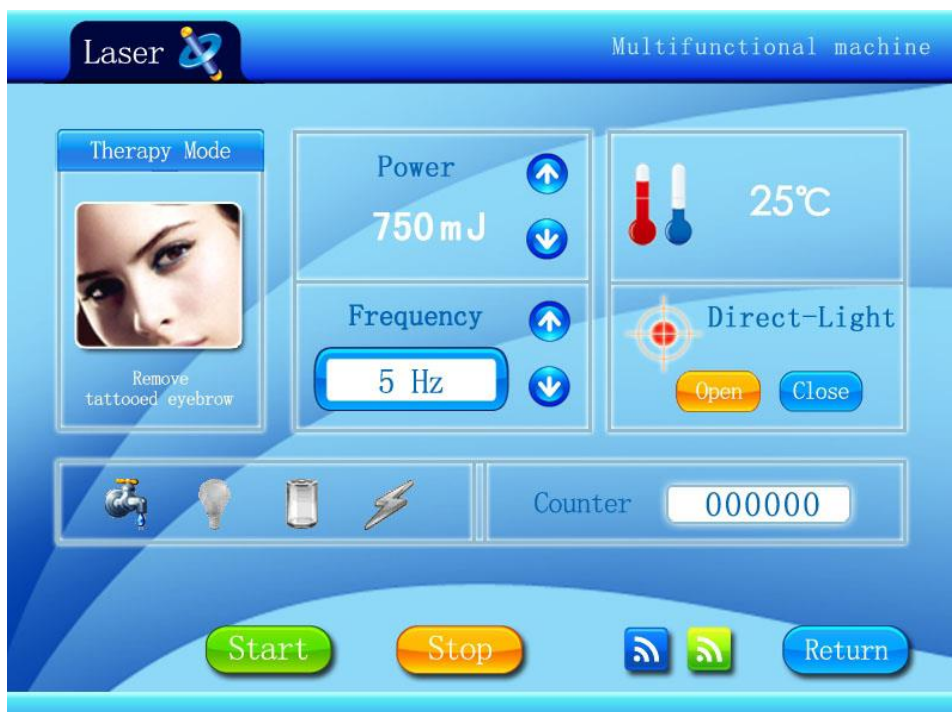
While working, the impulses will continue and increase the counter value.

If you want to switch off the machine, press ‘stop’ button

The foot-switch, will no longer activate the lamp.

Not press ‘stop’ button to stop working before switching off the machine

Note also there is an Emergency Break Button on front of machine



Power setting:

Power range 500 mJ– 1000 mJ, in intervals of 10 mJ

By pressing the up and down arrows you adjust the frequency.

Press “+ ”key, the frequency will be increased by 10 mJ

Press “– ”key, it will be decreased by 10 mJ

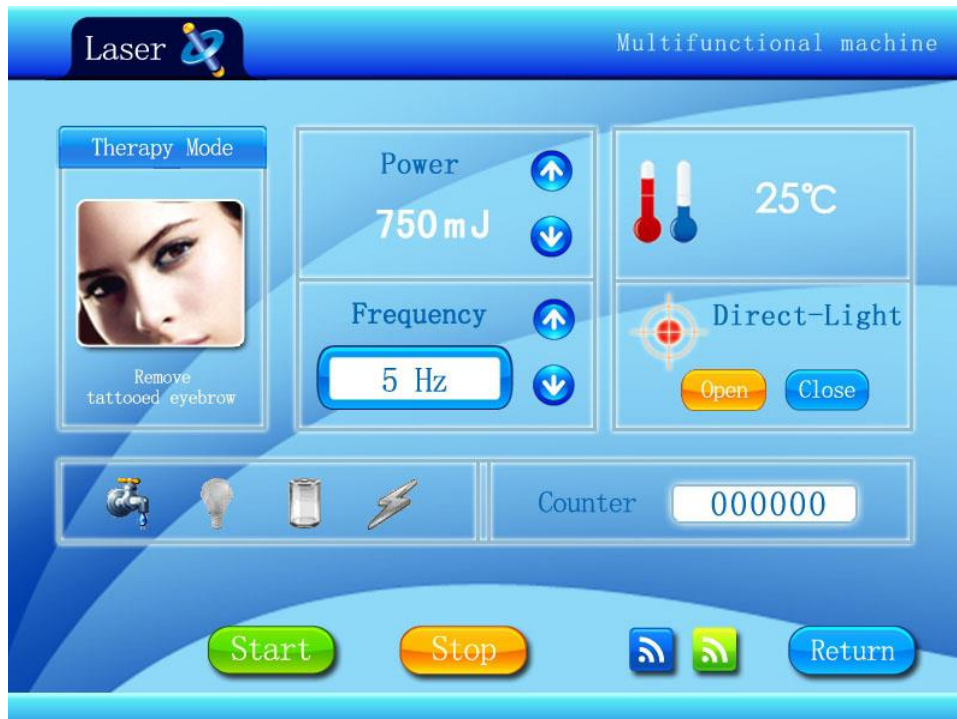
Frequency setting:

Frequency range 1Hz – 6Hz, in intervals of 1Hz

By pressing the up and down arrows you adjust the frequency.

Press “+ ”key, the frequency will be increased.

Press “– ”key, it will be decreased



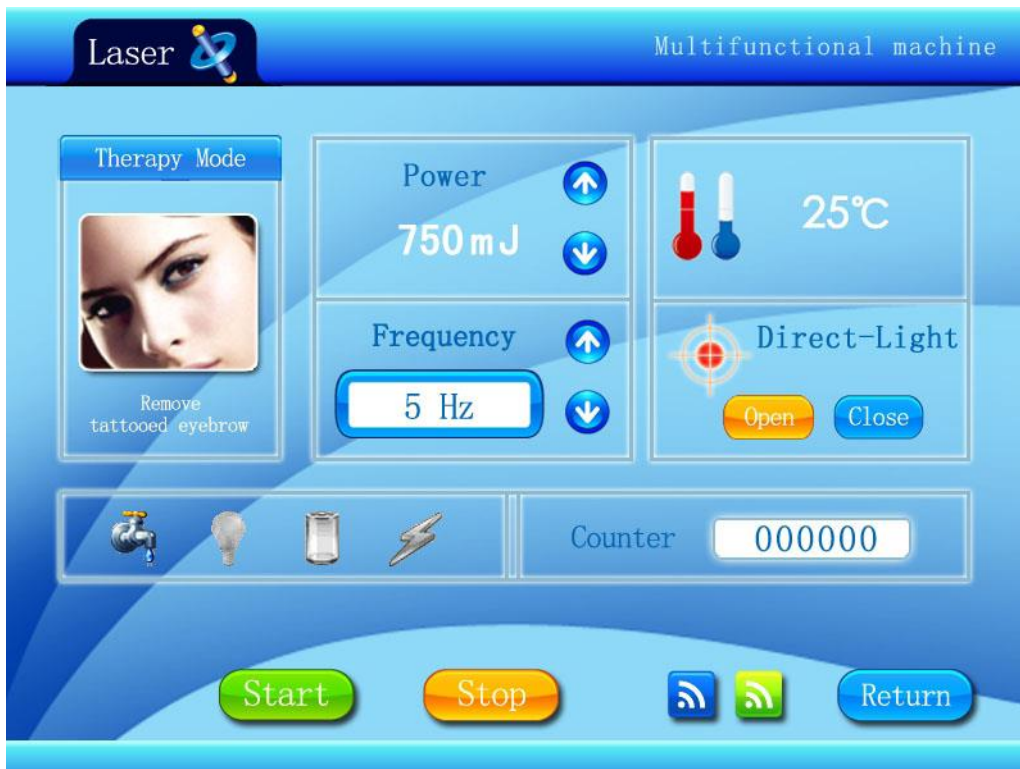
The Temperature display monitors the water flowing inside the machine, When the temperature of circulated water exceed the temperature set for use in machine, the screen will display “Temp. Error”, the warning buzzer will activate and the system will automatically stop working.

Only when the circulated water temperature drops to lower than the protective temperature will the system resume working normally

Other Functions Setting:

Press “setting” button into system setting menu, users can set the special functions by pressing ‘+’ or ‘-’ key. Press “setting” button to have functions option.

1. System Language



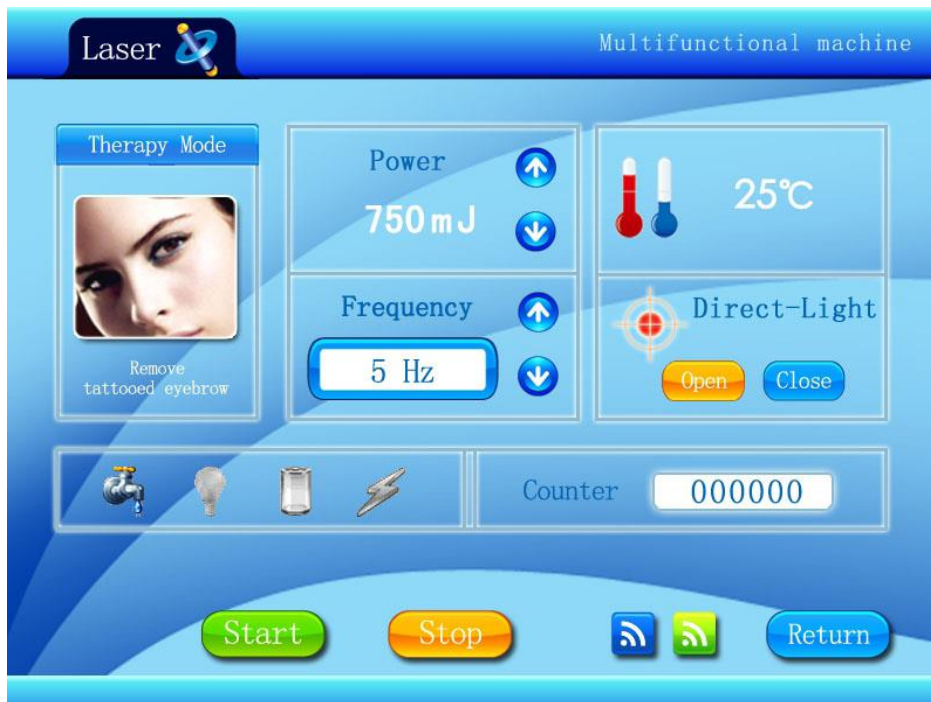
Press 'Setting button' to make options of 'Chinese' version and 'English' Version,
Press 'Exit' button to return last menu.

2. Modify Password - preset password is "666666"



Key-press Voice setting, set "Open" or "close".

3. Infrared Guide light setting



Infrared Guide light can be set as “Open” or “Close”.

Operation skills for laser tattoo removal system

Item	No of Treatments	Interval	Notes
Eyebrow	1~2	30 – 60 days	Removal of eye brow tattoo Protect eyeballs
Eyelid	1~3	45 – 60 days	Removal of eye line tattoo Protect eyeballs
Lip line	1~3	15 – 45 days	Use 532nm freq crystal for red tattoo
Body Tattoo	1~4	30 – 60 days	Exuding blood indicates effective treatment
Flecks / Aged Spots	1~5	15 – 30 days	Exuding blood indicates effective treatment
Birth Mark	3~7	45 – 90 days	Exuding blood indicates effective treatment

Requirements before treatment:

1 The Beautician should maintain a detailed record of customer treatment and should fully understand the customers' skin condition and chose the right laser crystal / service to suit the application and the customer skin

The Beautician should maintain free communicate with the customer as the treatment progresses, to help the customer feel relaxed.

2 The Beautician must clean and keep clear the part of the skin to be treated and wait until it is totally dry

Maintain and Sterilize all the equipment .

Do not be tempted be more frequent than the inter-treatment interval and when treatment is on or near face, always use eyeball protection goggles

3 Energy reference

Application	Best Frequency	Distance
Eye brow	5Hz	1-2cm
Cover layer	5Hz	2-4cm
Eye lid	5Hz	2-3cm
Lip outline	5Hz	2-4cm
Body tattoo	5Hz-3Hz	3-4cm
Naevi	5Hz-3Hz	3-4cm
Birth mark	5Hz-3Hz	3-4cm

Note:

- A. 1064nm (round aperture) for blue and black color
- B. 532nm (square aperture) for red and brown color

Before & after treatment by laser

1. Preparation before treatment by:

- a. Check for No inflammation to the planned treatment area.
- b. Never treat pregnant woman.
- c. Apply Fomentation to the treatment area, avoid skin dehydration.
- d. Removal all cosmetics / makeup first.
- e. Taking photos before and after treatment for progress comparison

2. Skin appearance after treatment:

- a. Possible reddish swelling on treatment part on the moment, it will disappear shortly.
- b. For some customers, power level needs to be higher but note when you make the power too high, the area
- c. may scab. Although scabbing which it will drop off naturally after 7 days,
The customer should avoid scratch the treatment area, skin the will become normal about 2 days. Taking some Vitamins can lighten the pigment circumfluence. Usually there is a feeling of scorching or slight bleeding, it is normal and will not scar.
- d. When the scabs fade away, the treatment part shows pink, 2-3 weeks later it appears coffee color, and 1-2 months later recover.

3. Care after treatment:

- a. wash the skin only with water or Non-stimulator after treatment .
- b. If there is slight bleeding when the power is adjusted higher, wipe off and smear the Antiphlogistin (such as or other topical medicines.
- c. If the treatment area is flushed / feeling uncomfortable, use an ice compress.
- d. Before the scabbing drops off the treatment part, care must be taken to avoid water, scratching and certain foods like hot, dark colored coffee, Coco Cola etc. Avoid smoking and drinking. Let the scab desquamate naturally, do not scale off by force.
- e. Avoid excessive sports to minimise sweat infection.
- f. After the scab desquamating, there is no need to coat the Illotycin (Erythromycin) any more, just smear the suntan lotion (SPF15 +) When indoors avoid UVA/UVB rays and for between 3 to 6 months because the treatment makes the skin sensitivity to the sunrays. Outdoors, the use of suntan lotion or umbrella can improve the healing.
- g. Period for laser treatment: According to the different treatments to different body parts and pigment density, the treatment may need to be undertaken several times.

- h. Normally the minimum period of treatment is 1-2 times, at 20-30 days interval. If progress is normal, go for check up after 2-4 weeks, if there is anything abnormally, please go earlier.
- i. Pigment “fade away” is a slow process, relying on the bodies lymphatic system . For the pigmentation skin, normally it is 1-3 months. In order to get more favorable effect, repeated treatment should be 1-3 months interval.

Machine Maintenance:

1. use purified water or de-ionized water ONLY
Do not use mineral water or tap water.
2. Be careful not to direct the laser at the machine to avoid damaging the surface of the machine.

Common Questions and Fixes:

1. No signal after power on. The reason is that the power plug doesn't reach it, Check and connect the power plug.
2. No signal after power on – possibly because of the fuse blowing.
Replace the fuse with 5A/220V AC.
3. No signal on the screen because the Crash-stop switch has been pressed.
Reset the Emergency-stop switch up.

4. Touch-off light is off state, pressing the button on the screen when the machine is on pre-ignition.

One reason is that the Xenon Lamp is damaged need to replace a new one.

Another reason is that the life time for Xenon is full, change for a new one.

5. Water leaking out of machine, because of damage during on shipment process. Maybe in the tube joints. Please call the service people to deal with it.

6. If you feel the energy is not big enough or the curing treatment is not well enough, the reason maybe the temperature is too higher check water in the machine or check for damage to the body of the machine. Switch off machine and recheck by restarting the machine after 30 minutes

Special illustration

Illustration of rear panel

Before starting the machine, fill up the water-tank with distilled water through attaching the funnel Into the affusion hole.

Use only distilled water or de-ionized water. Do not use mineral water or tap water.

Fill the distilled water into the machine by the affusion Hole and fill until water starts to overflow out from the vent hole. (water capacity about 3 liters)

The dewatering hole is used only when undertaking monthly servicing of emptying the water to replace it all

Note: Trying to operate the machine without water is prohibited. In the case of running without water, if laser head shatters, the user bears the cost.

Thank you for using our products!

We will endeavor to give you the best after sales service and most up-to-date technology solutions!

Thanks again!